

Supplemental File for ‘Trajectories of Big Five Personality Traits: A Coordinated Analysis of 16 Longitudinal Samples’

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1/31/2020

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```
read_chunk("Trajectories.R")
```

Load Workspace

Introduction to the Supplemental File.

The following document contains results from all analyses conducted for the manuscript titled “Trajectories of Big Five Personality Traits: A Coordinated Analysis of 16 Longitudinal Samples”. This document is organized by trait, starting with Neuroticism, and provides a table summarizing individual study model results, two plots (one weighted by N, one unweighted), and the meta-analysis results for each model tested. We tested individual predictors that are not included in the main manuscript:retirement status, marital status, and health conditions(heart, lung, stroke, diabetes, cancer, hypertension), and the results from these models are available below. Table S2 contains descriptive statistics for all variables in the analyses. Figure S1 is a histogram displaying the distribution of ages across all observations in all studies.

The code used to compile this file is available on OSF [<https://osf.io/xqmfw/>].

Extract and define study-level variables for meta-analysis

Descriptive Statistics.

Table S1: Descriptive Statistics

Variable	N	Valid	Mean	SD	Min	Max	Alpha
BASE							
age1	516	2.49	0.87	0.97	4.31	NULL	
e1	516	5.83	1.00	2.96	8.42	0.64	
n1	516	3.43	1.00	1.64	6.42	0.75	
o1	516	6.82	1.00	3.33	8.55	0.54	
age2	244	2.43	0.73	1.27	4.27	NULL	
e2	206	5.81	1.01	2.67	8.42	0.66	
n2	206	3.45	0.97	1.64	6.42	0.78	
o2	206	6.88	0.93	3.11	8.55	0.61	
age3	164	2.41	0.63	1.45	4.46	NULL	
e3	132	5.77	0.98	2.67	8.13	0.68	
n3	132	3.34	0.84	1.64	6.20	0.73	
o3	132	6.82	0.93	3.11	8.55	0.55	
age4	88	2.59	0.44	1.83	3.70	NULL	
e4	83	5.83	0.89	3.82	7.84	0.57	
n4	83	3.20	0.75	1.64	5.38	0.68	
o4	83	6.85	0.84	4.69	8.55	0.56	
mar-	516	0.30	0.46	0.00	1.00	NULL	
ried							
dia-	516	0.20	0.40	0.00	1.00	NULL	
betes							
hbp	516	0.53	0.50	0.00	1.00	NULL	
	516	0.11	0.32	0.00	1.00	NULL	
stroke							

	516	0.04	0.20	0.00	1.00	NULL
cancer	516	0.27	0.45	0.00	1.00	NULL
heart						
lung	516	0.32	0.47	0.00	1.00	NULL
sex	516	0.50	0.50	0.00	1.00	NULL
	516	0.55	0.50	0.00	1.00	NULL
widow						
	516	0.07	0.26	0.00	1.00	NULL
divorce						
	516	0.82	0.39	0.00	1.00	NULL
health						

BASEII

a1	1276	7.06	1.00	3.56	8.79	0.52
age1	1276	0.77	0.37	0.00	2.40	NULL
c1	1275	7.71	1.00	3.36	9.10	0.55
e1	1275	6.41	1.00	3.36	8.28	0.66
n1	1276	4.49	1.00	2.42	7.03	0.68
o1	1276	6.63	1.00	3.30	8.32	0.66
a2	914	7.07	0.95	4.54	8.79	0.47
age2	914	0.98	0.35	0.20	2.70	NULL
c2	914	7.69	0.99	3.70	9.10	0.61
e2	914	6.39	1.01	3.07	8.28	0.67
n2	914	4.43	0.97	2.42	7.03	0.68
o2	914	6.69	0.97	3.30	8.32	0.68
a3	957	7.04	0.99	3.89	8.79	0.51
age3	957	1.08	0.35	0.30	2.80	NULL
c3	956	7.62	1.03	3.53	9.10	0.62
e3	956	6.44	1.01	3.07	8.28	0.69

n3	957	4.42	1.01	2.42	7.03	0.7
o3	957	6.65	0.97	3.58	8.32	0.63
a4	671	6.95	0.97	4.21	8.79	0.43
age4	671	1.22	0.35	0.50	2.90	NULL
c4	671	7.70	1.02	4.37	9.10	0.63
e4	671	6.39	1.02	3.36	8.28	0.68
n4	671	4.46	1.01	2.42	7.03	0.71
o4	671	6.68	1.02	3.30	8.32	0.7
sex	1276	0.50	0.50	0.00	1.00	NULL
	1276	0.90	0.30	0.00	1.00	NULL
retired						
mar-	1005	0.55	0.50	0.00	1.00	NULL
ried						
lung	1276	0.06	0.23	0.00	1.00	NULL
	1276	0.10	0.30	0.00	1.00	NULL
heart						
	1276	0.12	0.32	0.00	1.00	NULL
cancer						
	1276	0.01	0.08	0.00	1.00	NULL
stroke						
dia-	1276	0.09	0.28	0.00	1.00	NULL
betes						
hbp	1276	0.32	0.47	0.00	1.00	NULL
	1005	0.09	0.28	0.00	1.00	NULL
widow						
	1005	0.26	0.44	0.00	1.00	NULL
divorce						
	1276	0.50	0.50	0.00	1.00	NULL
health						

	1276	1.00	0.06	0.00	1.00	NULL
b.age						
EAS						
a1	342	7.62	1.00	3.76	9.41	0.65
age1	342	1.75	0.50	1.00	3.20	NULL
c1	342	7.19	1.00	3.63	9.03	0.64
e1	342	5.96	1.00	3.16	8.34	0.65
n1	342	2.76	1.00	0.99	6.12	0.74
o1	342	6.77	1.00	3.81	8.78	0.57
a2	250	7.61	0.94	4.14	9.41	0.64
age2	250	1.90	0.52	1.10	3.30	NULL
c2	250	7.21	0.96	4.29	9.03	0.58
e2	250	5.97	0.93	3.48	8.18	0.68
n2	250	2.75	1.02	0.99	6.60	0.71
o2	250	6.76	0.99	3.81	8.78	0.5
a3	214	7.63	0.99	5.08	9.41	0.48
age3	214	1.95	0.50	1.20	3.40	NULL
c3	214	7.22	1.00	4.45	9.03	0.62
e3	214	5.94	0.90	3.48	8.18	0.66
n3	214	2.63	1.01	0.99	6.76	0.76
o3	214	6.73	1.01	4.12	8.78	0.53
a4	179	7.67	0.92	5.08	9.41	0.65
age4	179	2.13	0.51	1.20	3.50	NULL
c4	179	7.16	1.05	3.96	9.03	0.57
e4	179	5.91	0.96	3.16	8.18	0.7
n4	179	2.67	1.05	0.99	6.76	0.7
o4	179	6.88	0.99	4.58	8.62	0.62
sex	713	0.60	0.49	0.00	1.00	NULL

mar-	712	0.38	0.49	0.00	1.00	NULL	
ried							
widow	712	0.33	0.47	0.00	1.00	NULL	
divorce	712	0.16	0.36	0.00	1.00	NULL	
stroke	709	0.04	0.19	0.00	1.00	NULL	
dia-	702	0.18	0.38	0.00	1.00	NULL	
betes							
cancer	702	0.17	0.38	0.00	1.00	NULL	
lung	702	0.07	0.26	0.00	1.00	NULL	
hbp	700	0.61	0.49	0.00	1.00	NULL	
	713	0.72	0.45	0.00	1.00	NULL	
health							
HRS							
a1	14558	8.41	1.00	3.18	9.40	0.78	
age1	16056	0.85	1.05	-3.50	4.50	NULL	
c1	14546	7.83	1.00	3.03	9.16	0.66	
e1	14554	7.31	1.00	3.38	8.76	0.74	
n1	14513	3.53	1.00	1.82	6.66	0.71	
o1	14519	6.43	1.00	3.01	8.33	0.79	
a2	11481	8.38	1.04	3.18	9.40	0.79	
age2	16056	1.25	1.05	-3.10	4.90	NULL	
c2	11558	7.84	1.04	3.03	9.16	0.67	
e2	11568	7.26	1.03	3.38	8.76	0.75	
n2	11468	3.43	0.98	1.82	6.66	0.71	
o2	11534	6.37	1.03	3.01	8.33	0.8	

a3	8876	8.35	1.06	3.18	9.40	0.79
age3	16056	1.65	1.05	-2.70	5.30	NULL
c3	8915	7.80	1.05	3.03	9.16	0.67
e3	8927	7.26	1.05	3.38	8.76	0.76
n3	8869	3.36	0.98	1.82	6.66	0.72
o3	8909	6.34	1.06	3.01	8.33	0.81
sex	16056	0.59	0.49	0.00	1.00	NULL
	13495	0.13	0.34	0.00	1.00	NULL
retired						
	16024	0.16	0.36	0.00	1.00	NULL
cancer						
dia- betes	16042	0.21	0.40	0.00	1.00	NULL
	16039	0.25	0.43	0.00	1.00	NULL
heart						
	hbp	16043	0.58	0.49	0.00	1.00
lung	16038	0.10	0.30	0.00	1.00	NULL
	16043	0.09	0.28	0.00	1.00	NULL
stroke						
	mar- ried	15429	0.66	0.47	0.00	1.00
divorce						
	15429	0.20	0.40	0.00	1.00	NULL
widow						
	15429	0.11	0.32	0.00	1.00	NULL
health						
	16055	0.74	0.44	0.00	1.00	NULL
b.age	16056	0.74	0.44	0.00	1.00	NULL

ILSE

a1	485	6.75	1.00	3.91	9.43	0.62
age1	488	0.25	0.10	0.00	0.40	NULL
c1	485	7.36	1.00	3.94	9.78	0.73
e1	485	5.52	1.00	1.89	8.62	0.7
n1	485	3.90	1.00	1.34	6.98	0.77
o1	485	5.41	1.00	2.84	9.28	0.48
a2	447	6.69	0.97	3.58	9.21	0.63
age2	488	0.65	0.10	0.40	0.80	NULL
c2	447	7.32	0.97	4.05	9.78	0.76
e2	447	5.48	0.95	2.07	8.44	0.69
n2	447	3.82	0.99	1.34	6.54	0.8
o2	447	5.36	0.94	2.20	8.63	0.53
a3	306	6.85	1.00	3.91	9.64	0.72
age3	488	1.45	0.10	1.20	1.60	NULL
c3	306	7.27	1.05	4.21	9.78	0.81
e3	306	5.37	1.04	1.54	8.62	0.77
n3	306	3.73	0.98	1.48	6.11	0.81
o3	306	5.41	1.00	2.42	7.99	0.6
sex	497	0.48	0.50	0.00	1.00	NULL
mar-	497	0.73	0.45	0.00	1.00	NULL
ried	497	0.10	0.30	0.00	1.00	NULL
divorce	497	0.11	0.31	0.00	1.00	NULL
widow	496	0.88	0.33	0.00	1.00	NULL
retired	495	0.42	0.49	0.00	1.00	NULL
hbp						

	497	0.06	0.23	0.00	1.00	NULL
heart	497	0.02	0.13	0.00	1.00	NULL
stroke	496	0.12	0.32	0.00	1.00	NULL
dia-	496	0.27	0.44	0.00	1.00	NULL
abetes	497	0.59	0.49	0.00	1.00	NULL
lung	411	0.99	0.09	0.00	1.00	NULL
health	488	0.99	0.09	0.00	1.00	NULL
b.age						
ILSE.Y						
a1	496	6.57	1.00	2.58	9.32	0.62
age1	500	-1.62	0.09	-1.80	-1.40	NULL
c1	496	7.32	1.00	2.71	9.68	0.77
e1	496	5.94	1.00	3.06	8.58	0.71
n1	496	3.71	1.00	1.60	7.01	0.8
o1	496	5.69	1.00	2.80	8.65	0.59
a2	442	6.61	1.02	2.98	9.73	0.69
age2	500	-1.22	0.09	-1.40	-1.00	NULL
c2	442	7.28	0.99	2.52	9.68	0.79
e2	442	5.89	0.97	3.06	8.81	0.72
n2	442	3.48	1.02	1.17	6.44	0.84
o2	442	5.66	1.04	2.42	8.47	0.66
a3	328	6.71	0.98	3.19	9.12	0.69
age3	500	-0.42	0.09	-0.60	-0.20	NULL
c3	328	7.29	1.01	0.87	9.50	0.71
e3	328	5.80	1.01	2.54	8.47	0.77
n3	328	3.59	1.06	1.32	7.01	0.86

o3	328	5.73	1.09	1.85	13.57	0.56
sex	500	0.48	0.50	0.00	1.00	NULL
	499	0.20	0.40	0.00	1.00	NULL
retired						
married	499	0.71	0.45	0.00	1.00	NULL
divorce	499	0.18	0.38	0.00	1.00	NULL
widow						
LASA						
age1	2627	0.98	0.86	-0.52	2.56	NULL
n1	2111	2.05	1.00	0.98	6.19	0.86
age2	2357	1.23	0.85	-0.21	2.87	NULL
n2	1988	1.98	1.01	0.98	6.19	0.87
age3	1990	1.45	0.83	0.08	3.17	NULL
n3	1662	2.01	0.98	0.98	6.19	0.87
age4	1643	1.62	0.79	0.39	3.43	NULL
n4	1267	1.92	0.94	0.98	6.19	0.86
sex	2627	0.52	0.50	0.00	1.00	NULL
	2534	0.87	0.34	0.00	1.00	NULL
retired						
lung	2621	0.11	0.31	0.00	1.00	NULL
	2621	0.19	0.39	0.00	1.00	NULL
heart						
diabetes	2621	0.06	0.25	0.00	1.00	NULL
	2620	0.09	0.29	0.00	1.00	NULL
cancer						

	2627	0.66	0.48	0.00	1.00	NULL
married	2627	0.24	0.43	0.00	1.00	NULL
widow	2627	0.05	0.22	0.00	1.00	NULL
divorce	2627	0.27	0.45	0.00	1.00	NULL
hbp	870	0.04	0.21	0.00	1.00	NULL
stroke	2621	0.44	0.50	0.00	1.00	NULL
health	2621	0.83	0.37	0.00	1.00	NULL
b.age	2627	0.83	0.37	0.00	1.00	NULL

LBC1936

a1	951	7.77	1.00	2.95	9.42	0.8
age1	1033	0.95	0.08	0.76	1.13	NULL
c1	951	7.06	1.00	3.85	9.02	0.78
e1	953	5.33	1.00	2.31	7.97	0.84
n1	950	4.10	1.00	2.09	7.18	0.87
o1	948	5.96	1.00	2.64	8.80	0.74
a2	854	7.72	1.03	3.88	9.42	0.83
age2	863	1.25	0.07	1.09	1.42	NULL
c2	854	6.97	1.02	3.19	9.02	0.79
e2	854	5.37	1.02	2.31	7.97	0.86
n2	853	4.05	1.01	2.09	7.05	0.87
o2	852	5.94	1.04	2.64	8.80	0.78
a3	680	7.69	1.01	3.69	9.42	0.81
age3	697	1.62	0.07	1.46	1.77	NULL
c3	680	7.00	1.02	3.19	9.02	0.79

e3	680	5.37	1.02	2.45	7.97	0.85
n3	680	4.03	0.93	2.09	7.18	0.86
o3	678	5.97	1.02	2.64	8.80	0.77
a4	529	7.71	1.02	2.58	9.42	0.82
age4	550	1.93	0.06	1.80	2.09	NULL
c4	529	6.94	1.02	2.69	9.02	0.8
e4	530	5.34	1.06	2.31	7.97	0.87
n4	528	4.00	0.97	2.09	7.31	0.87
o4	528	5.99	1.05	3.00	8.80	0.78
	1023	0.97	0.17	0.00	1.00	NULL
retired						
sex	1033	0.50	0.50	0.00	1.00	NULL
hbp	1033	0.39	0.49	0.00	1.00	NULL
dia-	1033	0.08	0.28	0.00	1.00	NULL
betes						
	1033	0.24	0.43	0.00	1.00	NULL
heart						
	1033	0.05	0.21	0.00	1.00	NULL
stroke						
	1033	0.12	0.33	0.00	1.00	NULL
cancer						
mar-	1033	0.71	0.45	0.00	1.00	NULL
ried						
	1033	0.13	0.34	0.00	1.00	NULL
widow						
	1033	0.07	0.26	0.00	1.00	NULL
divorce						
	1033	0.57	0.50	0.00	1.00	NULL
health						

MIDUS

a1	6265	8.30	1.00	3.21	9.34	0.81
age1	6409	-1.32	1.29	-4.00	1.50	NULL
c1	6267	8.07	1.00	2.60	9.38	0.56
e1	6267	7.33	1.00	3.41	8.76	0.78
n1	6265	4.13	1.00	2.26	6.79	0.75
o1	6263	6.72	1.00	2.89	8.59	0.78
a2	4010	8.21	1.03	3.21	9.34	0.8
age2	4783	-0.44	1.24	-3.00	2.40	NULL
c2	4010	8.16	1.02	2.60	9.38	0.58
e2	4010	7.16	1.02	3.41	8.76	0.76
n2	4009	3.87	0.95	2.26	6.79	0.74
o2	3974	6.51	1.02	2.89	8.59	0.77
a3	2719	8.18	1.02	4.44	9.34	0.77
age3	3241	0.37	1.13	-2.10	3.30	NULL
c3	2719	8.16	1.03	3.16	9.38	0.56
e3	2718	7.12	1.04	3.76	8.76	0.75
n3	2717	3.86	0.94	2.26	6.79	0.71
o3	2715	6.49	1.03	2.89	8.59	0.77
sex	6392	0.53	0.50	0.00	1.00	NULL
	6393	0.13	0.34	0.00	1.00	NULL
heart						
hbp	6253	0.18	0.38	0.00	1.00	NULL
dia-	6255	0.05	0.22	0.00	1.00	NULL
betes						
	6257	0.01	0.08	0.00	1.00	NULL
stroke						
	6370	0.15	0.35	0.00	1.00	NULL
retired						

	6406	0.07	0.26	0.00	1.00	NULL
cancer						
married	6408	0.67	0.47	0.00	1.00	NULL
widow	6408	0.05	0.22	0.00	1.00	NULL
divorce	6408	0.16	0.36	0.00	1.00	NULL
lung	6221	0.14	0.35	0.00	1.00	NULL
	6411	0.40	0.49	0.00	1.00	NULL
health						
b.age	6409	0.18	0.38	0.00	1.00	NULL
NAS						
age1	1645	-0.86	0.92	-3.00	2.70	NULL
e1	1645	5.90	1.00	3.48	7.58	0.73
n1	1645	3.51	1.00	2.17	5.98	0.66
age2	1645	0.35	0.80	-1.70	3.10	NULL
e2	1610	5.93	1.04	3.48	7.58	0.7
n2	1608	3.43	0.97	2.17	5.98	0.64
age3	1645	0.54	0.75	-1.30	3.20	NULL
e3	1422	5.95	1.04	3.48	7.58	0.7
n3	1423	3.52	0.98	2.17	5.98	0.63
age4	1645	0.58	0.74	-1.20	3.70	NULL
e4	1253	5.90	1.01	3.48	7.58	0.73
n4	1255	3.29	0.96	2.17	5.98	0.66
dia-	1644	0.01	0.07	0.00	1.00	NULL
betes						
hbp	1644	0.04	0.20	0.00	1.00	NULL

	1644	0.03	0.17	0.00	1.00	NULL
heart	1644	0.01	0.09	0.00	1.00	NULL
cancer	1644	0.00	0.05	0.00	1.00	NULL
stroke	1644	0.03	0.16	0.00	1.00	NULL
lung	1480	0.10	0.30	0.00	1.00	NULL
retired						
mar-	1479	0.92	0.27	0.00	1.00	NULL
ried						
divorce	1479	0.04	0.20	0.00	1.00	NULL
widow	1479	0.01	0.10	0.00	1.00	NULL
health	1644	0.10	0.30	0.00	1.00	NULL
b.age	1645	0.16	0.36	0.00	1.00	NULL
OCTO						
age1	496	2.32	0.29	1.94	3.79	NULL
e1	469	5.45	1.00	3.14	7.37	0.63
n1	469	2.68	1.00	1.59	5.66	0.75
age2	465	2.52	0.29	2.14	3.99	NULL
e2	316	5.41	0.97	3.14	7.37	0.59
n2	315	2.65	0.96	1.59	5.66	0.73
age3	349	2.70	0.26	2.35	3.70	NULL
e3	215	5.40	0.95	3.14	7.37	0.58
n3	213	2.57	0.94	1.59	5.21	0.72

age4	264	2.88	0.26	2.55	3.90	NULL
e4	122	5.43	0.94	3.14	7.37	0.58
n4	122	2.55	0.97	1.59	5.21	0.76
sex	496	0.64	0.48	0.00	1.00	NULL
dia-	496	0.08	0.28	0.00	1.00	NULL
betes						
hbp	495	0.30	0.46	0.00	1.00	NULL
	495	0.08	0.27	0.00	1.00	NULL
heart						
	496	0.11	0.32	0.00	1.00	NULL
cancer						
	496	0.08	0.28	0.00	1.00	NULL
stroke						
lung	495	0.13	0.34	0.00	1.00	NULL
mar-	496	0.34	0.47	0.00	1.00	NULL
ried						
	496	0.03	0.18	0.00	1.00	NULL
divorce						
	496	0.51	0.50	0.00	1.00	NULL
widow						
	496	0.58	0.49	0.00	1.00	NULL
health						
SATSA						
age1	1971	-0.02	1.40	-3.39	3.29	NULL
e1	1929	5.34	1.00	3.24	7.17	0.66
n1	1925	3.12	1.00	1.93	5.74	0.76
o1	1424	4.93	1.00	2.03	7.91	0.62
age2	1622	0.23	1.37	-3.09	3.59	NULL
e2	1573	5.46	0.98	3.24	7.17	0.66

n2	1575	2.96	0.94	1.93	5.74	0.74
o2	1486	4.92	1.05	2.03	7.91	0.65
age3	1488	0.37	1.30	-2.79	3.26	NULL
e3	1436	5.46	0.98	3.24	7.17	0.66
n3	1438	2.96	0.92	1.93	5.74	0.72
o3	1364	4.95	1.09	2.03	7.91	0.68
age4	1444	0.50	1.30	-2.49	3.35	NULL
e4	1410	5.46	0.98	3.24	7.17	0.67
n4	1407	2.90	0.92	1.93	5.74	0.74
o4	1351	4.94	1.08	2.03	7.91	0.67
sex	2149	0.58	0.49	0.00	1.00	NULL
lung	1870	0.13	0.34	0.00	1.00	NULL
	1937	0.04	0.19	0.00	1.00	NULL
cancer						
	1917	0.04	0.19	0.00	1.00	NULL
heart						
	1916	0.02	0.13	0.00	1.00	NULL
stroke						
dia-	1919	0.05	0.23	0.00	1.00	NULL
betes						
hbp	1948	0.89	0.31	0.00	1.00	NULL
	1845	0.55	0.50	0.00	1.00	NULL
retired						
	1905	0.16	0.37	0.00	1.00	NULL
widow						
	1905	0.08	0.28	0.00	1.00	NULL
divorce						
mar-	1905	0.71	0.45	0.00	1.00	NULL
ried						

	1965	0.90	0.30	0.00	1.00	NULL
health	1971	0.55	0.50	0.00	1.00	NULL
b.age						
SLS						
a1	1541	6.67	1.00	1.34	9.76	NULL
age1	1541	0.32	1.56	-3.50	3.90	NULL
c1	1541	6.27	1.00	2.82	9.11	NULL
e1	1541	5.62	1.00	2.17	8.77	NULL
n1	1541	3.98	1.00	1.36	7.90	NULL
o1	1541	6.02	1.00	2.38	9.54	NULL
a2	1058	6.80	1.00	2.85	10.28	NULL
age2	1058	0.63	1.43	-3.10	4.00	NULL
c2	1058	6.26	1.01	2.64	9.62	NULL
e2	1058	5.45	1.00	2.22	8.40	NULL
n2	1058	4.00	1.00	1.27	7.39	NULL
o2	1058	6.06	1.00	2.69	8.94	NULL
a3	785	6.85	0.99	3.31	9.50	NULL
age3	785	0.70	1.31	-2.60	4.10	NULL
c3	785	6.28	1.00	3.04	9.51	NULL
e3	785	5.44	1.01	2.12	8.56	NULL
n3	785	3.97	1.01	1.36	8.18	NULL
o3	785	6.06	0.98	3.09	8.99	NULL
a4	639	6.96	1.00	3.38	10.35	NULL
age4	639	1.03	1.22	-2.20	3.70	NULL
c4	639	6.32	1.02	2.70	9.28	NULL
e4	639	5.40	1.01	2.48	8.24	NULL
n4	639	3.91	0.96	0.62	7.58	NULL
o4	639	6.07	0.97	2.54	9.09	NULL

	1513	0.39	0.49	0.00	1.00	NULL
retired	1504	0.69	0.46	0.00	1.00	NULL
married	1504	0.12	0.33	0.00	1.00	NULL
widow	1504	0.13	0.33	0.00	1.00	NULL
divorce	1271	0.30	0.46	0.00	1.00	NULL
heart	1494	0.08	0.27	0.00	1.00	NULL
diabetes	1497	0.31	0.46	0.00	1.00	NULL
hbp	1541	0.56	0.50	0.00	1.00	NULL
sex	1535	0.46	0.50	0.00	1.00	NULL
health	1541	0.58	0.49	0.00	1.00	NULL
b.age						
SOEP						
a1	21036	7.42	1.00	2.89	9.00	0.51
age1	21040	-1.26	1.76	-4.40	3.60	NULL
c1	21024	8.16	1.00	2.99	9.33	0.62
e1	21030	6.38	1.00	3.03	8.28	0.66
n1	21030	4.93	1.00	2.52	7.42	0.6
o1	21011	5.83	1.00	2.96	7.88	0.63
a2	20713	7.31	1.00	2.89	9.00	0.5
age2	20718	-1.01	1.77	-4.30	4.00	NULL
c2	20706	8.08	1.01	2.99	9.33	0.59
e2	20707	6.33	1.00	3.03	8.28	0.66

n2	20713	4.83	1.00	2.52	7.42	0.62
o2	20699	5.75	1.00	2.96	7.88	0.62
a3	19076	7.36	0.98	2.89	9.00	0.48
age3	19079	-0.77	1.79	-4.20	4.30	NULL
c3	19068	8.09	0.98	2.99	9.33	0.58
e3	19072	6.40	0.97	3.03	8.28	0.66
n3	19076	4.77	1.00	2.52	7.42	0.62
o3	19070	5.89	0.97	2.96	7.88	0.6
a4	13231	7.35	0.97	3.23	9.00	0.5
age4	13245	-0.31	1.67	-3.80	4.20	NULL
c4	13228	8.01	0.97	2.99	9.33	0.59
e4	13231	6.38	0.98	3.03	8.28	0.66
n4	13229	4.78	1.00	2.52	7.42	0.62
o4	13224	5.90	0.96	2.96	7.88	0.62
married	20778	0.61	0.49	0.00	1.00	NULL
widow	20778	0.07	0.26	0.00	1.00	NULL
divorce	20778	0.08	0.27	0.00	1.00	NULL
retired	20779	0.26	0.44	0.00	1.00	NULL
sex	33619	0.52	0.50	0.00	1.00	NULL
diabetes	33620	0.04	0.21	0.00	1.00	NULL
heart	33620	0.06	0.23	0.00	1.00	NULL
cancer	33620	0.02	0.15	0.00	1.00	NULL

	33620	0.01	0.10	0.00	1.00	NULL
stroke						
hbp	33620	0.14	0.35	0.00	1.00	NULL
	33620	0.19	0.40	0.00	1.00	NULL
health						
	21040	0.26	0.44	0.00	1.00	NULL
b.age						
WLSG						
a1	6756	7.59	1.00	2.96	9.27	0.68
age1	7718	-0.68	0.06	-0.90	-0.40	NULL
c1	6761	7.81	1.00	2.67	9.46	0.64
e1	6732	5.81	1.00	2.64	8.23	0.76
n1	6720	3.57	1.00	1.32	6.40	0.78
o1	6719	5.44	1.00	2.14	8.38	0.61
a2	6692	7.63	0.97	2.50	9.27	0.68
age2	6906	0.43	0.07	0.30	0.70	NULL
c2	6696	7.70	1.01	3.40	9.46	0.66
e2	6688	5.76	0.97	2.64	8.23	0.76
n2	6691	3.38	0.93	1.32	6.40	0.75
o2	6682	5.33	0.96	2.14	8.38	0.62
a3	5170	7.65	0.97	3.41	9.27	0.67
age3	5759	1.13	0.09	1.00	1.40	NULL
c3	5172	7.63	1.04	3.40	9.46	0.67
e3	5176	5.76	0.98	2.64	8.23	0.75
n3	5154	3.38	0.94	1.32	6.40	0.74
o3	5157	5.20	0.95	2.14	8.38	0.61
sex	8018	0.53	0.50	0.00	1.00	NULL
	7300	0.12	0.33	0.00	1.00	NULL
retired						

	6840	0.02	0.14	0.00	1.00	NULL
cancer	6840	0.04	0.19	0.00	1.00	NULL
diabetes	6840	0.05	0.23	0.00	1.00	NULL
heart	6840	0.21	0.41	0.00	1.00	NULL
hbp	7719	0.83	0.38	0.00	1.00	NULL
married	7719	0.02	0.15	0.00	1.00	NULL
widow	7717	0.11	0.31	0.00	1.00	NULL
divorce	6840	0.28	0.45	0.00	1.00	NULL
health						
WLSS						
a1	3987	7.44	1.00	3.20	9.21	0.68
age1	4129	-0.67	0.73	-3.10	1.90	NULL
c1	3988	7.62	1.00	3.77	9.33	0.66
e1	3987	5.66	1.00	2.61	8.14	0.76
n1	3987	3.60	1.00	1.28	6.48	0.75
o1	3982	5.36	1.00	1.97	8.48	0.58
a2	3876	7.49	0.93	4.09	9.21	0.67
age2	3945	0.40	0.71	-2.60	2.80	NULL
c2	3880	7.54	0.95	3.77	9.33	0.66
e2	3878	5.62	0.94	2.61	8.14	0.75
n2	3871	3.47	0.91	1.28	6.48	0.72
o2	3875	5.27	0.94	1.97	8.26	0.59
a3	2859	7.58	0.95	2.54	9.21	0.66

age3	3207	0.93	0.68	-2.00	3.20	NULL
c3	2862	7.55	0.99	3.07	9.33	0.68
e3	2859	5.66	0.97	2.80	8.14	0.75
n3	2853	3.40	0.97	1.28	6.48	0.75
o3	2855	5.16	0.98	1.97	8.48	0.59
sex	4994	0.53	0.50	0.00	1.00	NULL
	3979	0.28	0.45	0.00	1.00	NULL
retired						
	3947	0.07	0.26	0.00	1.00	NULL
cancer						
dia- betes	3945	0.05	0.22	0.00	1.00	NULL
	3953	0.09	0.29	0.00	1.00	NULL
heart						
	3961	0.27	0.44	0.00	1.00	NULL
mar- ried	4688	0.80	0.40	0.00	1.00	NULL
	4688	0.04	0.19	0.00	1.00	NULL
widow						
divorce	4649	0.11	0.31	0.00	1.00	NULL
	3985	0.37	0.48	0.00	1.00	NULL
health						
b.age	4129	0.16	0.37	0.00	1.00	NULL

Histogram of age distributions (all observations)

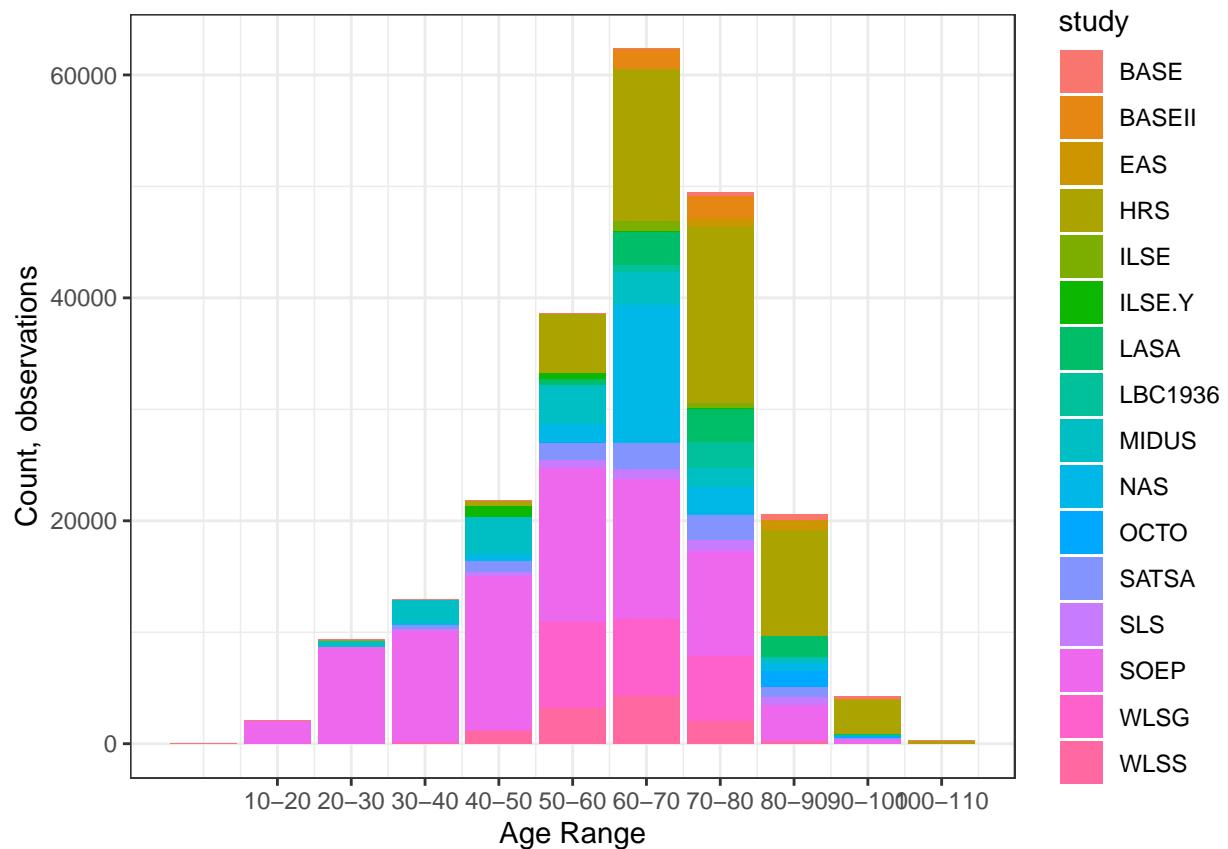


Figure S1: Histogram of age distributions (all observations).

Neuroticism

Intercept Only Models, Neuroticism

Table S2: Neuroticism-Intercept Only Model

coef	BASE	BASEII	EAS	HRS	ILSE	ILSE.Y	LASA	LBC1936	MIDUS	NAS	OCTO	SATSA	SLS	SOEP	WLSG	WLSS
Fixed Effects																
Intercept	3.46 0.04 p < .001	4.43 0.03 p < .001	2.81 0.04 p < .001	3.48 0.01 p < .001	3.85 0.04 p < .001	3.61 0.04 p < .001	2.02 0.02 p < .001	4.09 0.03 p < .001	4.03 0.01 p < .001	3.37 0.02 p < .001	2.70 0.04 p < .001	3.01 0.02 p < .001	3.99 0.02 p < .001	4.84 0 p < .001	3.46 0.01 p < .001	3.51 0.01 p < .001
Random Effects																
τ_{00}	0.69	0.72	0.72	0.63	0.69	0.65	0.70	0.71	0.60	0.59	0.68	0.60	0.82	0.57	0.62	0.62
σ^2	0.29	0.27	0.31	0.37	0.30	0.39	0.31	0.25	0.37	0.37	0.30	0.34	0.16	0.44	0.31	0.31
ICC	0.71	0.72	0.70	0.63	0.70	0.62	0.69	0.74	0.62	0.62	0.70	0.64	0.84	0.57	0.67	0.67
N_{people}	516	1,276	713	16,056	497	500	2,627	1,033	6,411	1,645	496	2,149	1,541	33,620	8,018	4,994
N_{obs}	983	3,818	1,667	34,850	1,238	1,266	7,028	3,011	12,991	8,654	1,119	8,290	4,023	74,048	18,565	10,711
LL	-1190	-4278	-1993	-44010	-1474	-1610	-8311	-3300	-16443	-9724	-1334	-9317	-3977	-95832	-22152	-12936

^a LL = Log Likelihood; ICC = Intra-Class Correlation

Intercept Only Meta Analysis of ICC's, Neuroticism

```
##  
## Random-Effects Model (k = 16; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##  20.1221 -40.2442 -36.2442 -34.8281 -35.2442  
##  
## tau^2 (estimated amount of total heterogeneity): 0.0040 (SE = 0.0015)  
## tau (square root of estimated tau^2 value):       0.0629  
## I^2 (total heterogeneity / total variability):   99.09%  
## H^2 (total variability / sampling variability): 109.38  
##  
## Test for Heterogeneity:  
## Q(df = 15) = 2855.3898, p-val < .0001  
##  
## Model Results:  
##  
## estimate      se     zval    pval   ci.lb   ci.ub  
##  0.6771  0.0159  42.5138 <.0001  0.6459  0.7083 ***  
##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 16; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##  20.6652 -41.3304 -35.3304 -33.4132 -32.9304  
##  
## tau^2 (estimated amount of residual heterogeneity):      0.0030 (SE = 0.0012)  
## tau (square root of estimated tau^2 value):            0.0549  
## I^2 (residual heterogeneity / unaccounted variability): 98.69%  
## H^2 (unaccounted variability / sampling variability):  76.28  
## R^2 (amount of heterogeneity accounted for):           23.70%  
##  
## Test for Residual Heterogeneity:  
## QE(df = 14) = 1891.3633, p-val < .0001  
##  
## Test of Moderators (coefficient 2):  
## QM(df = 1) = 5.5803, p-val = 0.0182  
##  
## Model Results:  
##  
##          estimate      se     zval    pval   ci.lb   ci.ub  
## intrcpt    0.5084  0.0728  6.9864 <.0001  0.3658  0.6510 ***  
## age        0.0027  0.0011  2.3623  0.0182  0.0005  0.0049   *  
##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 16; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc
```

```

## 11.8567 -23.7134 -9.7134 -7.5953 46.2866
##
## tau^2 (estimated amount of residual heterogeneity): 0.0054 (SE = 0.0025)
## tau (square root of estimated tau^2 value): 0.0736
## I^2 (residual heterogeneity / unaccounted variability): 99.19%
## H^2 (unaccounted variability / sampling variability): 122.88
## R^2 (amount of heterogeneity accounted for): 0.00%
##
## Test for Residual Heterogeneity:
## QE(df = 10) = 1968.6179, p-val < .0001
##
## Test of Moderators (coefficients 2:6):
## QM(df = 5) = 0.9438, p-val = 0.9670
##
## Model Results:
##
##          estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt       0.6703  0.0521  12.8550 <.0001   0.5681  0.7724 *** 
## countryGermany -0.0061  0.0619 -0.0992  0.9210 -0.1275  0.1152
## countryNetherlands  0.0231  0.0906  0.2552  0.7985 -0.1545  0.2008
## countrySweden    -0.0030  0.0743 -0.0401  0.9680 -0.1485  0.1426
## countryU.S.        0.0109  0.0618  0.1758  0.8605 -0.1102  0.1319
## countryUK         0.0678  0.0906  0.7489  0.4539 -0.1097  0.2453
##
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Mixed-Effects Model (k = 16; tau^2 estimator: REML)
##
## logLik deviance      AIC      BIC      AICc
## 10.4723 -20.9447 -0.9447 -1.4856 219.0553
##
## tau^2 (estimated amount of residual heterogeneity): 0.0028 (SE = 0.0016)
## tau (square root of estimated tau^2 value): 0.0532
## I^2 (residual heterogeneity / unaccounted variability): 98.29%
## H^2 (unaccounted variability / sampling variability): 58.38
## R^2 (amount of heterogeneity accounted for): 28.33%
##
## Test for Residual Heterogeneity:
## QE(df = 7) = 470.0046, p-val < .0001
##
## Test of Moderators (coefficients 2:9):
## QM(df = 8) = 13.5950, p-val = 0.0930
##
## Model Results:
##
##          estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt       0.6703  0.0378  17.7390 <.0001   0.5962
## scaleBFI-S     -0.0249  0.0535 -0.4661  0.6412 -0.1297
## scaleDPQ        0.0231  0.0659  0.3511  0.7255 -0.1060
## scaleEPI-Q     -0.0147  0.0541 -0.2712  0.7862 -0.1207
## scaleEPQ (NE) and NEO-PI (O) -0.0306  0.0657 -0.4657  0.6414 -0.1595
## scaleIPIP        0.0492  0.0539  0.9136  0.3609 -0.0564

```

```

## scaleMIDI           -0.0448  0.0534 -0.8385  0.4018 -0.1496
## scaleNEO-FFI        0.0071  0.0496  0.1421  0.8870 -0.0902
## scaleNEO-PI-R       0.1662  0.0654  2.5389  0.0111  0.0379
##
## ci.ub
## intrcpt          0.7443  *** 
## scaleBFI-S         0.0799
## scaleDPQ            0.1523
## scaleEPI-Q          0.0914
## scaleEPQ (NE) and NEO-PI (O) 0.0982
## scaleIPIP           0.1549
## scaleMIDI            0.0599
## scaleNEO-FFI         0.1043
## scaleNEO-PI-R        0.2944    *
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

```

Linear Growth for Neuroticism, Fixed Effects Only

Table S3: Neuroticism-Linear Growth Model with Fixed Effects Only

coef	BASE	BASEII	EAS	HRS	ILSE	ILSE.Y	LASA	LBC1936	MIDUS	NAS	OCTO	SATSA	SLS	SOEP	WLSG	WLSS
Fixed Effects																
Intercept	3.16	4.60	2.50	3.60	3.91	3.56	1.99	4.13	3.92	3.44	2.69	3.03	4.03	4.84	3.48	3.52
	0.11	0.05	0.11	0.01	0.05	0.06	0.03	0.05	0.01	0.02	0.2	0.02	0.02	0.01	0.01	0.01
	p < .001	p < .001	p < .001	p < .001	p < .001	p < .001										
Age	0.12	-0.18	0.15	-0.11	-0.10	-0.04	0.03	-0.03	-0.13	-0.14	0.00	-0.03	-0.06	.001	.001	.001
	0.04	0.04	0.05	0.01	0.03	0.04	0.02	0.03	0.01	0.01	0.08	0.01	0.01	0	0.01	0.01
	p = .002	p = .001	p = .002	p = .001	p = .002	p = .001	p = .001	p = .001	p < .001	p < .001	p = .0491	p = .001	p = .001	p = .039	p = .001	p = .001
Random Effects																
τ_{00}	0.68	0.73	0.72	0.63	0.69	0.65	0.70	0.71	0.58	0.60	0.68	0.60	0.79	0.57	0.63	0.62
σ^2	0.28	0.27	0.30	0.36	0.29	0.39	0.31	0.25	0.35	0.35	0.30	0.33	0.16	0.44	0.30	0.29
N_{people}	516	1,276	713	16,056	488	500	2,627	1,033	6,409	1,645	496	2,149	1,541	33,620	7,831	4,674
N_{obs}	983	3,818	1,667	34,850	1,223	1,266	7,023	3,010	12,989	8,654	1,119	8,289	4,023	74,048	17,967	9,659
LL	-1186	-4269	-1989	-43843	-1450	-1609	-8305	-3299	-16193	-9547	-1334	-9310	-3964	-95831	-21302	-11546

^a LL = Log Likelihood; Age = age (centered at 60).

Linear Growth for Neuroticism, Fixed and Random Slopes

Table S4: Neuroticism-Linear Growth Model with Fixed and Random Effects

coef	BASE	BASEII	EAS	HRS	ILSE	ILSE.Y	LASA	LBC1936	MIDUS	NAS	OCTO	SATSA	SLS	SOEP	WLSG	WLSS
Fixed Effects																
Intercept	3.13	4.60	2.51	3.59	3.92	3.56	1.98	4.14	3.92	3.42	2.69	3.01	4.00	4.84	3.48	3.52
	0.12	0.05	0.12	0.01	0.05	0.06	0.03	0.05	0.01	0.02	0.2	0.02	0.03	0.01	0.01	0.01
	p <	p <	p <	p <	p <	p <	p <	p <	p <	p <	p <	p <	p <	p <	p <	p <
Age	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001
	0.12	-.018	0.14	-.011	-.010	-.004	0.03	-.003	-.013	-.013	0.00	-.003	-.005	0.00	-.010	-.011
	0.05	0.04	0.06	0.01	0.04	0.04	0.02	0.03	0.01	0.01	0.08	0.01	0.01	0	0.01	0.01
	p = 0	p <	p =	p <	p = 0	p =	p =	p <	p <	p =	p = 0	p <	p =	p <	p <	p <
	.001	0.01	.001		0.14	0.05	0.12	.001	.001	0.48		.001	0.04	.001	.001	.001
Random Effects																
τ_{00}	1.57	0.96	2.14	0.68	0.81	0.78	0.72	1.08	0.54	0.59	0.58	0.58	0.81	0.58	0.65	0.63
τ_{01}	-0.45	-0.29	-0.70	-0.05	-0.13	0.08	-0.08	-0.22	-0.02	0.00	0.02	-0.01	-0.09	0.01	-0.04	-0.02
τ_{11}	0.20	0.33	0.34	0.03	0.13	0.05	0.09	0.12	0.00	0.03	0.00	0.05	0.05	0.00	0.04	0.04
σ^2	0.25	0.25	0.28	0.36	0.25	0.38	0.30	0.23	0.35	0.32	0.30	0.29	0.15	0.44	0.26	0.26
N_{people}	516	1,276	713	16,056	488	500	2,627	1,033	6,409	1,645	496	2,149	1,541	33,620	7,831	4,674
N_{obs}	983	3,818	1,667	34,850	1,223	1,266	7,023	3,010	12,989	8,654	1,119	8,289	4,023	74,048	17,967	9,659
LL	-1178	-4262	-1981	-43821	-1445	-1609	-8292	-3291	-16173	-9498	-1333	-9217	-3931	-95826	-21253	-11526

^a LL = Log Likelihood; Age = age (centered at 60).

Linear Trajectory Plot for Neuroticism

Linear change in neuroticism as a function of age (in years) across 16 studies. Black line indicates average trajectory weighted by N. At the individual study level, most showed evidence of decline, although the meta-analytic average was not significant ($p = .011$).

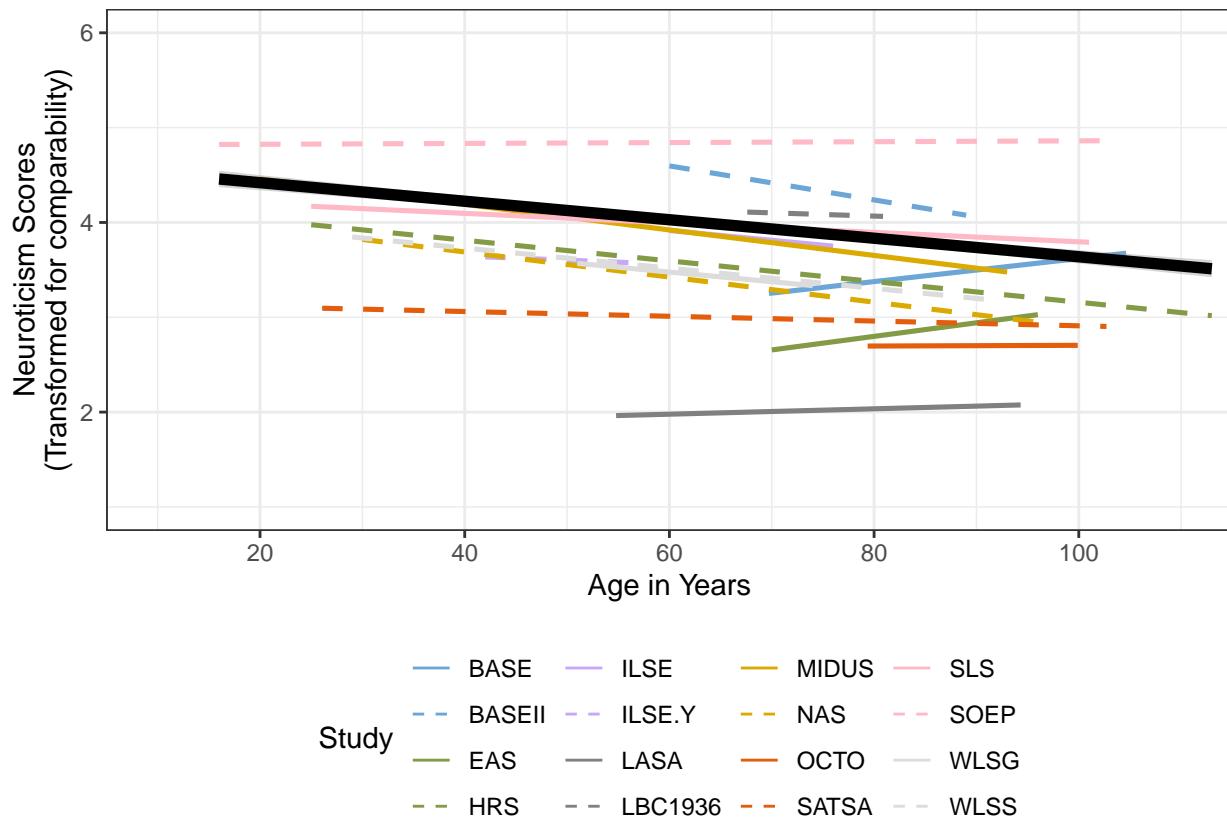


Figure S2: Linear Trajectory Plot for Neuroticism (Linear change in neuroticism as a function of age (in years) across 16 studies. Black line indicates average trajectory weighted by N. At the individual study level, most showed evidence of decline, although the meta-analytic average was not significant ($p = .011$))

Linear Trajectory Plot for Neuroticism, unweighted average.

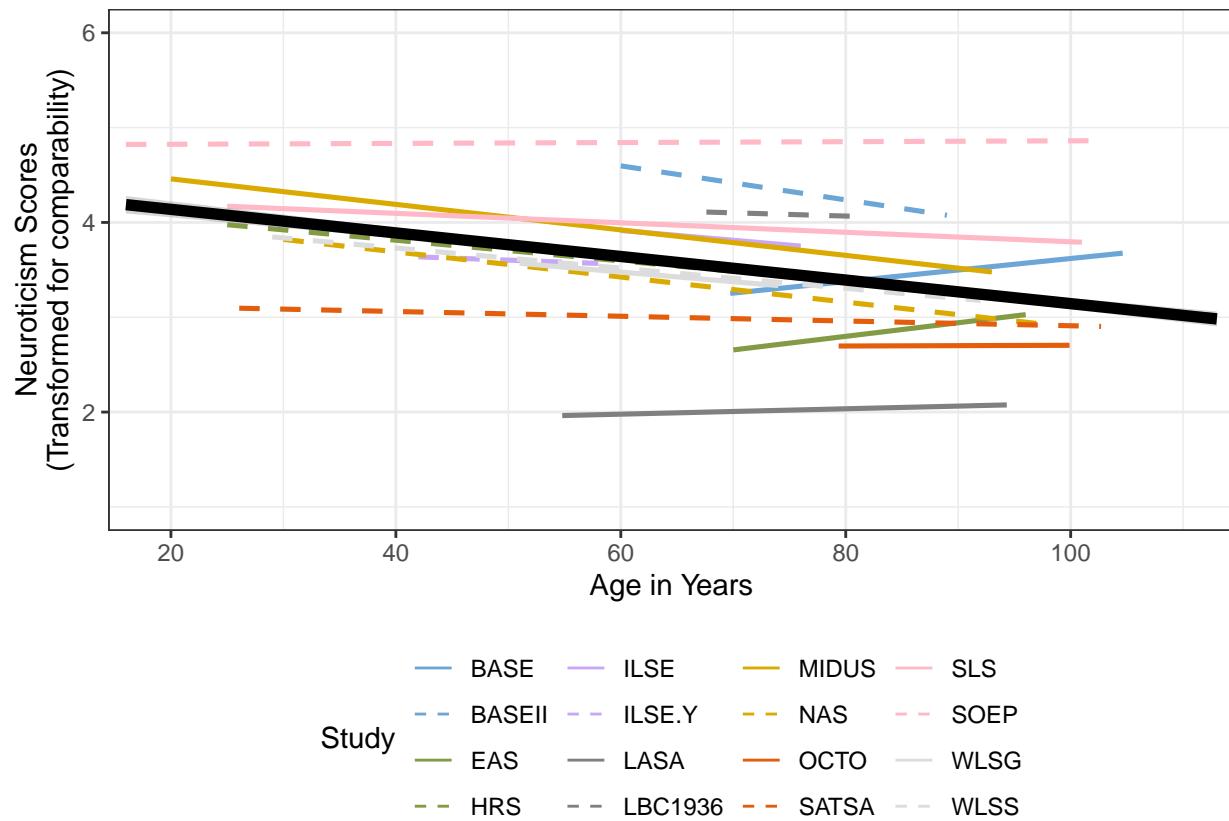


Figure S3: Linear Trajectory Plot for Neuroticism, unweighted average.

Linear Meta Analysis, Neuroticism

```
##  
## Random-Effects Model (k = 16; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##  15.5131 -31.0261 -27.0261 -25.6100 -26.0261  
##  
## tau^2 (estimated amount of total heterogeneity): 0.0057 (SE = 0.0024)  
## tau (square root of estimated tau^2 value):       0.0758  
## I^2 (total heterogeneity / total variability):   98.67%  
## H^2 (total variability / sampling variability): 75.12  
##  
## Test for Heterogeneity:  
## Q(df = 15) = 1013.3086, p-val < .0001  
##  
## Model Results:  
##  
## estimate      se     zval    pval    ci.lb    ci.ub  
## -0.0516  0.0203 -2.5410  0.0111 -0.0915 -0.0118  *##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 16; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##  16.5628 -33.1256 -27.1256 -25.2085 -24.7256  
##  
## tau^2 (estimated amount of residual heterogeneity):      0.0042 (SE = 0.0019)  
## tau (square root of estimated tau^2 value):            0.0651  
## I^2 (residual heterogeneity / unaccounted variability): 97.85%  
## H^2 (unaccounted variability / sampling variability): 46.53  
## R^2 (amount of heterogeneity accounted for):          26.25%  
##  
## Test for Residual Heterogeneity:  
## QE(df = 14) = 892.5207, p-val < .0001  
##  
## Test of Moderators (coefficient 2):  
## QM(df = 1) = 5.8642, p-val = 0.0155  
##  
## Model Results:  
##  
##           estimate      se     zval    pval    ci.lb    ci.ub  
## intrcpt   -0.2812  0.0958 -2.9342  0.0033 -0.4690 -0.0934  **  
## age        0.0037  0.0015  2.4216  0.0155  0.0007  0.0068  *##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 16; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc
```

```

##   9.0566 -18.1132 -4.1132 -1.9951  51.8868
##
## tau^2 (estimated amount of residual heterogeneity):      0.0074 (SE = 0.0037)
## tau (square root of estimated tau^2 value):             0.0858
## I^2 (residual heterogeneity / unaccounted variability): 98.19%
## H^2 (unaccounted variability / sampling variability):  55.25
## R^2 (amount of heterogeneity accounted for):          0.00%
##
## Test for Residual Heterogeneity:
## QE(df = 10) = 93.3198, p-val < .0001
##
## Test of Moderators (coefficients 2:6):
## QM(df = 5) = 2.1928, p-val = 0.8219
##
## Model Results:
##
##           estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt      -0.1041  0.0609 -1.7099  0.0873 -0.2235  0.0152 .
## countryGermany  0.0654  0.0738  0.8856  0.3758 -0.0793  0.2100
## countryNetherlands  0.1325  0.1066  1.2434  0.2137 -0.0764  0.3414
## countrySweden    0.0892  0.0924  0.9657  0.3342 -0.0918  0.2702
## countryU.S.       0.0346  0.0727  0.4751  0.6347 -0.1080  0.1771
## countryUK         0.0700  0.1092  0.6407  0.5217 -0.1441  0.2840
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Mixed-Effects Model (k = 16; tau^2 estimator: REML)
##
## logLik deviance      AIC      BIC      AICC
## 6.3967 -12.7935  7.2065  6.6656  227.2065
##
## tau^2 (estimated amount of residual heterogeneity):      0.0076 (SE = 0.0047)
## tau (square root of estimated tau^2 value):             0.0870
## I^2 (residual heterogeneity / unaccounted variability): 98.11%
## H^2 (unaccounted variability / sampling variability):  52.99
## R^2 (amount of heterogeneity accounted for):          0.00%
##
## Test for Residual Heterogeneity:
## QE(df = 7) = 51.4213, p-val < .0001
##
## Test of Moderators (coefficients 2:9):
## QM(df = 8) = 5.7117, p-val = 0.6795
##
## Model Results:
##
##           estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt      -0.1041  0.0618 -1.6853  0.0919 -0.2252
## scaleBFI-S      0.0272  0.0897  0.3035  0.7615 -0.1486
## scaleDPQ        0.1325  0.1081  1.2259  0.2202 -0.0793
## scaleEPI-Q       0.0201  0.0936  0.2148  0.8299 -0.1633
## scaleEPQ (NE) and NEO-PI (O)  0.0791  0.1072  0.7376  0.4607 -0.1310
## scaleIPIP        0.1474  0.0926  1.5924  0.1113 -0.0340

```

```

## scaleMIDI           -0.0176  0.0873 -0.2018  0.8400 -0.1888
## scaleNEO-FFI        0.0931  0.0831  1.1211  0.2623 -0.0697
## scaleNEO-PI-R       0.0542  0.1076  0.5036  0.6146 -0.1566
##
## ci.ub
## intrcpt            0.0170 .
## scaleBFI-S          0.2030
## scaleDPQ             0.3444
## scaleEPI-Q           0.2035
## scaleEPQ (NE) and NEO-PI (O) 0.2891
## scaleIPIP            0.3288
## scaleMIDI            0.1535
## scaleNEO-FFI          0.2559
## scaleNEO-PI-R         0.2650
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

##
## Mixed-Effects Model (k = 16; tau^2 estimator: REML)
##
##   logLik  deviance      AIC      BIC      AICc
## 15.2062 -30.4124 -24.4124 -22.4953 -22.0124
##
## tau^2 (estimated amount of residual heterogeneity): 0.0055 (SE = 0.0024)
## tau (square root of estimated tau^2 value):        0.0744
## I^2 (residual heterogeneity / unaccounted variability): 98.61%
## H^2 (unaccounted variability / sampling variability): 71.80
## R^2 (amount of heterogeneity accounted for):       3.66%
##
## Test for Residual Heterogeneity:
## QE(df = 14) = 1013.2092, p-val < .0001
##
## Test of Moderators (coefficient 2):
## QM(df = 1) = 2.4579, p-val = 0.1169
##
## Model Results:
##
##   estimate     se    zval   pval   ci.lb   ci.ub
## intrcpt -0.0998 0.0365 -2.7302 0.0063 -0.1714 -0.0281  **
## mo       0.0098 0.0062  1.5678 0.1169 -0.0024  0.0220
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

```

Quadratic Table, Neuroticism

Table S5: Neuroticism-Quadratic Growth Models

coef	BASE	BASEII	EAS	LASA	LBC1936	NAS	OCTO	SATSA	SLS	SOEP
Fixed Effects										
Intercept	3.53	4.69	3.12	2.03	4.26	3.42	2.90	2.97	3.95	4.85
Age	0.28 p < .001	0.07 p < .001	0.34 p < .001	0.03 p < .001	0.16 p < .001	0.02 p < .001	1.16 p = 0.006	0.02 p < .001	0.03 p < .001	0.01 p < .001
Age ²	-0.23 p = 0.158	-0.41 p = 0.002	-0.46 p = 0.076	-0.13 p < .001	-0.22 p = 0.175	-0.13 p < .001	-0.17 p = 0.428	-0.05 p < .001	-0.08 p < .001	0.00 p = 0.425
	0.23 p = 0.07	0.14 0.12	0.32 0.14	0.04 0.07	0.24 0.07	0.01 0.00	0.92 0.03	0.01 0.04	0.01 0.03	0 0.00
	0.05 p = 0.058	0.07 p = 0.04	0.08 p = 0.028	0.01 p < .001	0.08 p = 0.213	0 p = 0.297	0.18 p = 0.426	0 p < .001	0.01 p < .001	0 p = 0.013
Random Effects										
τ_{00}	1.56	0.96	2.09	0.73	1.08	0.59	0.58	0.59	0.80	0.58
τ_{01}	-0.44	-0.28	-0.68	-0.09	-0.22	0.00	0.02	-0.02	-0.08	0.01
τ_{11}	0.20	0.32	0.33	0.09	0.12	0.03	0.00	0.05	0.04	0.00
σ^2	0.25	0.25	0.28	0.30	0.23	0.32	0.30	0.29	0.15	0.44
N_{people}	516	1,276	713	2,627	1,033	1,645	496	2,149	1,541	33,620
N_{obs}	983	3,818	1,667	7,023	3,010	8,654	1,119	8,289	4,023	74,048
LL	-1177	-4260	-1980	-8281	-3291	-9497	-1333	-9180	-3920	-95824

^a LL = Log Likelihood; Age = age (centered at 60); Age2 = age (centered at 60) squared

Quadratic Grey Plot, Neuroticism (In the main manuscript, this is Figure 1, in color).

Quadratic Trajectories of Neuroticism. Black line indicates average trajectory weighted by N. At the individual study level, several showed evidence of a u-shaped curve, and the meta-analytic average was significant ($p < .001$).

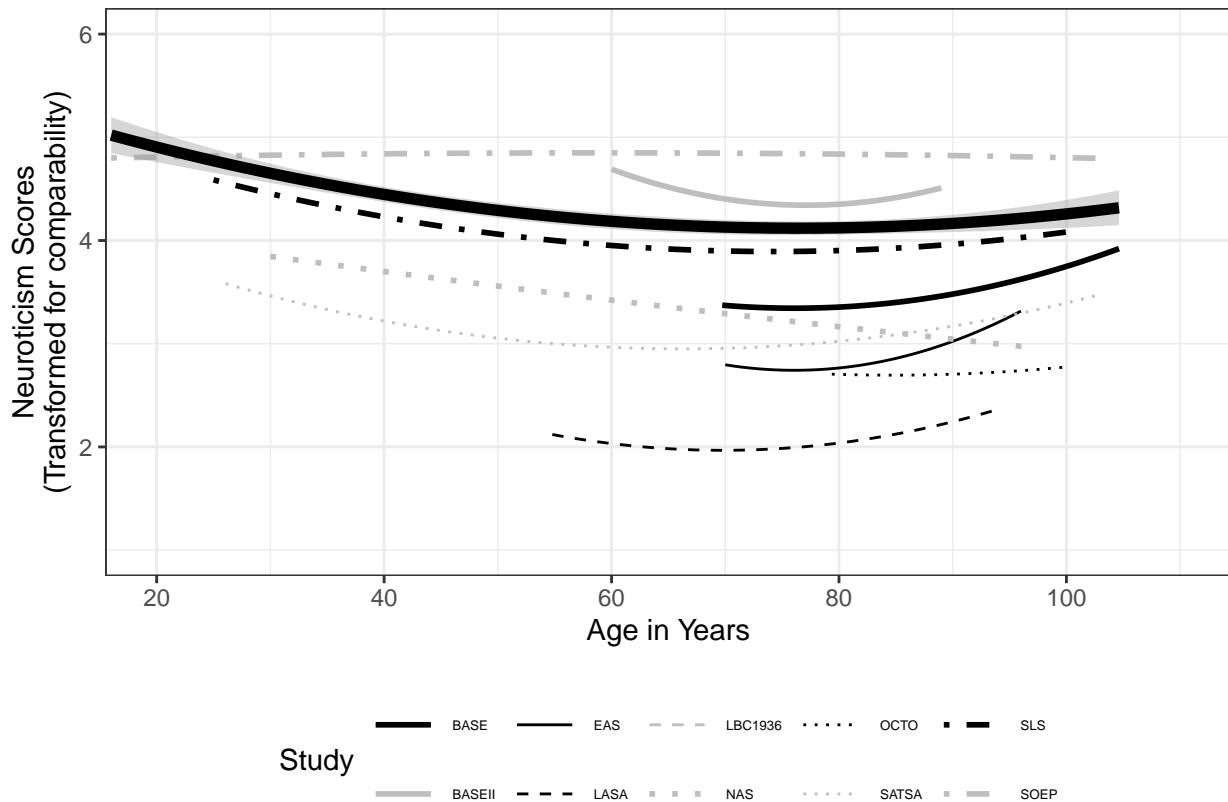


Figure S4: Quadratic Plot, Neuroticism (Main Manuscript Figure 1.). Quadratic Trajectories of Neuroticism. Black line indicates average trajectory weighted by N. At the individual study level, several showed evidence of a u-shaped curve, and the meta-analytic average was significant ($p < .001$).

Quadratic Plot, Neuroticism, unweighted average.

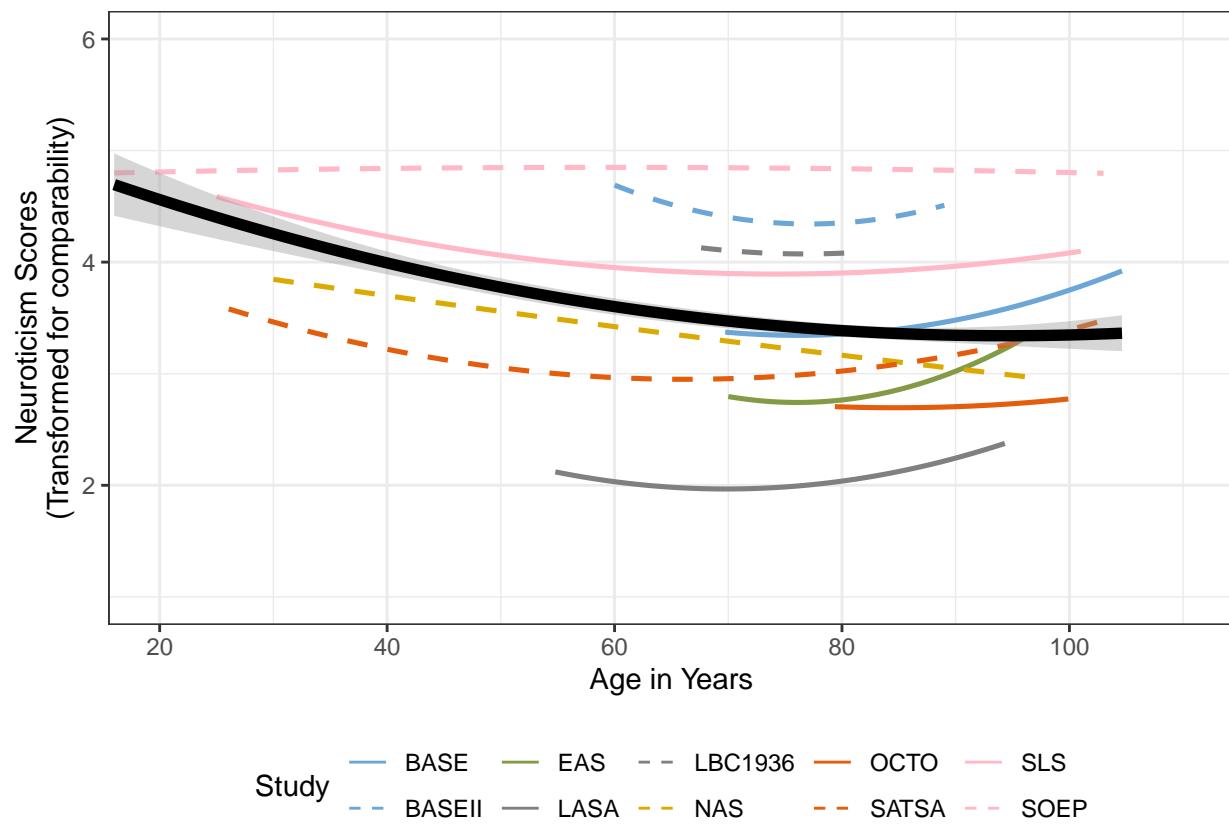


Figure S5: Quadratic Plot, Neuroticism, unweighted average.

Quadratic Meta Analysis, Neuroticism

```
##  
## Random-Effects Model (k = 10; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##    4.0945   -8.1890   -4.1890   -3.7945   -2.1890  
##  
## tau^2 (estimated amount of total heterogeneity): 0.0041 (SE = 0.0031)  
## tau (square root of estimated tau^2 value):       0.0636  
## I^2 (total heterogeneity / total variability): 95.50%  
## H^2 (total variability / sampling variability): 22.22  
##  
## Test for Heterogeneity:  
## Q(df = 9) = 239.3182, p-val < .0001  
##  
## Model Results:  
##  
## estimate      se     zval    pval    ci.lb    ci.ub  
## -0.0953  0.0285  -3.3479  0.0008  -0.1511  -0.0395  ***  
##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 10; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##    4.3519   -8.7037   -2.7037   -2.4654   3.2963  
##  
## tau^2 (estimated amount of residual heterogeneity):      0.0039 (SE = 0.0033)  
## tau (square root of estimated tau^2 value):            0.0627  
## I^2 (residual heterogeneity / unaccounted variability): 92.88%  
## H^2 (unaccounted variability / sampling variability): 14.04  
## R^2 (amount of heterogeneity accounted for):          2.98%  
##  
## Test for Residual Heterogeneity:  
## QE(df = 8) = 152.8874, p-val < .0001  
##  
## Test of Moderators (coefficient 2):  
## QM(df = 1) = 2.8994, p-val = 0.0886  
##  
## Model Results:  
##  
##           estimate      se     zval    pval    ci.lb    ci.ub  
## intrcpt    0.2288  0.1921   1.1909  0.2337  -0.1477  0.6052  
## age        -0.0055  0.0032  -1.7028  0.0886  -0.0119  0.0008 .  
##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 10; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc
```

```

##   0.2014   -0.4027   11.5973    9.2539   95.5973
##
## tau^2 (estimated amount of residual heterogeneity):      0.0200 (SE = 0.0221)
## tau (square root of estimated tau^2 value):             0.1415
## I^2 (residual heterogeneity / unaccounted variability): 96.55%
## H^2 (unaccounted variability / sampling variability):  28.98
## R^2 (amount of heterogeneity accounted for):          0.00%
##
## Test for Residual Heterogeneity:
## QE(df = 5) = 20.0280, p-val = 0.0012
##
## Test of Moderators (coefficients 2:5):
## QM(df = 4) = 0.4687, p-val = 0.9765
##
## Model Results:
##
##                                estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt                  -0.1527  0.1057  -1.4438  0.1488  -0.3599  0.0546
## countryNetherlands        0.0194  0.1807   0.1072  0.9146  -0.3348  0.3736
## countrySweden              0.1010  0.1757   0.5752  0.5651  -0.2432  0.4453
## countryU.S.                0.0184  0.1432   0.1287  0.8976  -0.2623  0.2992
## countryUK                 -0.0677  0.2945  -0.2300  0.8181  -0.6450  0.5095
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Mixed-Effects Model (k = 10; tau^2 estimator: REML)
##
## logLik  deviance      AIC      BIC      AICc
## -0.7633  1.5266  17.5266  10.3155  161.5266
##
## tau^2 (estimated amount of residual heterogeneity):      0.0471 (SE = 0.0727)
## tau (square root of estimated tau^2 value):             0.2170
## I^2 (residual heterogeneity / unaccounted variability): 65.35%
## H^2 (unaccounted variability / sampling variability):  2.89
## R^2 (amount of heterogeneity accounted for):          0.00%
##
## Test for Residual Heterogeneity:
## QE(df = 3) = 9.0767, p-val = 0.0283
##
## Test of Moderators (coefficients 2:7):
## QM(df = 6) = 0.8657, p-val = 0.9902
##
## Model Results:
##
##                                estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt                  -0.1699  0.1658  -1.0243  0.3057  -0.4949
## scaleDPQ                   0.0366  0.2758   0.1326  0.8945  -0.5039
## scaleEPI-Q                  0.0346  0.2689   0.1287  0.8976  -0.4925
## scaleEPQ (NE) and NEO-PI (O)  0.1209  0.2733   0.4425  0.6581  -0.4148
## scaleIPIP                  -0.1486  0.2980  -0.4985  0.6182  -0.7327
## scaleNEO-FFI                 -0.0591  0.3558  -0.1660  0.8681  -0.7564
## scaleNEO-PI-R                  0.0882  0.2735   0.3225  0.7471  -0.4479

```

```

## ci.ub
## intrcpt 0.1552
## scaleDPQ 0.5771
## scaleEPI-Q 0.5617
## scaleEPQ (NE) and NEO-PI (0) 0.6567
## scaleIPIP 0.4356
## scaleNEO-FFI 0.6382
## scaleNEO-PI-R 0.6243
##
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

##
## Mixed-Effects Model (k = 10; tau^2 estimator: REML)
##
## logLik deviance AIC BIC AICc
## 3.1876 -6.3753 -0.3753 -0.1370 5.6247
##
## tau^2 (estimated amount of residual heterogeneity): 0.0047 (SE = 0.0040)
## tau (square root of estimated tau^2 value): 0.0683
## I^2 (residual heterogeneity / unaccounted variability): 93.10%
## H^2 (unaccounted variability / sampling variability): 14.50
## R^2 (amount of heterogeneity accounted for): 0.00%
##
## Test for Residual Heterogeneity:
## QE(df = 8) = 52.3074, p-val < .0001
##
## Test of Moderators (coefficient 2):
## QM(df = 1) = 0.4639, p-val = 0.4958
##
## Model Results:
##
## estimate se zval pval ci.lb ci.ub
## intrcpt -0.0542 0.0707 -0.7670 0.4431 -0.1927 0.0843
## mo -0.0072 0.0106 -0.6811 0.4958 -0.0279 0.0135
##
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

```

Sex, Table (Neuroticism)

Table S6: Linear Trajectories of Neuroticism, Moderated by Sex

coef	BASE	BASEII	EAS	HRS	ILSE	ILSE.Y	LASA	LBC1936	MIDUS	OCTO	SATSA	SLS	SOEP	WLSG	WLSS
Fixed Effects															
Intercept	2.77	4.41	2.24	3.49	3.65	3.31	1.86	3.97	3.82	2.45	2.87	3.89	4.63	3.36	3.52
Age	0.17	0.07	0.19	0.02	0.06	0.09	0.04	0.07	0.02	0.34	0.03	0.04	0.01	0.01	0.02
Sex	p < .001														
x Sex	0.19	-0.17	0.22	-0.11	-0.03	-0.03	0.03	0.03	-0.12	0.06	-0.04	-0.04	0.01	-0.10	-0.11
Age x Sex	0.06	0.06	0.09	0.01	0.05	0.05	0.02	0.04	0.01	0.14	0.01	0.02	0	0.01	0.01
Random Effects															
τ_{00}	1.34	0.92	2.05	0.68	0.74	0.71	0.70	1.05	0.53	0.56	0.56	0.80	0.54	0.64	0.63
τ_{01}	-0.38	-0.28	-0.67	-0.05	-0.10	0.08	-0.08	-0.21	-0.02	0.02	-0.01	-0.09	0.01	-0.04	-0.02
τ_{11}	0.18	0.32	0.32	0.03	0.13	0.04	0.09	0.11	0.00	0.00	0.05	0.05	0.00	0.04	0.04
σ^2	0.25	0.25	0.28	0.36	0.25	0.38	0.30	0.23	0.35	0.30	0.30	0.15	0.44	0.26	0.26
N _{people}	516	1,276	713	16,056	488	500	2,627	1,033	6,390	496	2,149	1,541	33,619	7,831	4,674
N _{obs}	983	3,818	1,667	34,850	1,223	1,266	7,023	3,010	12,960	1,119	8,289	4,023	74,047	17,967	9,659
LL	-1166	-4239	-1977	-43750	-1428	-1584	-8272	-3286	-16093	-1331	-9192	-3923	-94923	-21188	-11526

^a LL = Log Likelihood; Age = age (centered at 60)

Sex, Plot (Neuroticism). In the main manuscript, this is Figure 6, in color

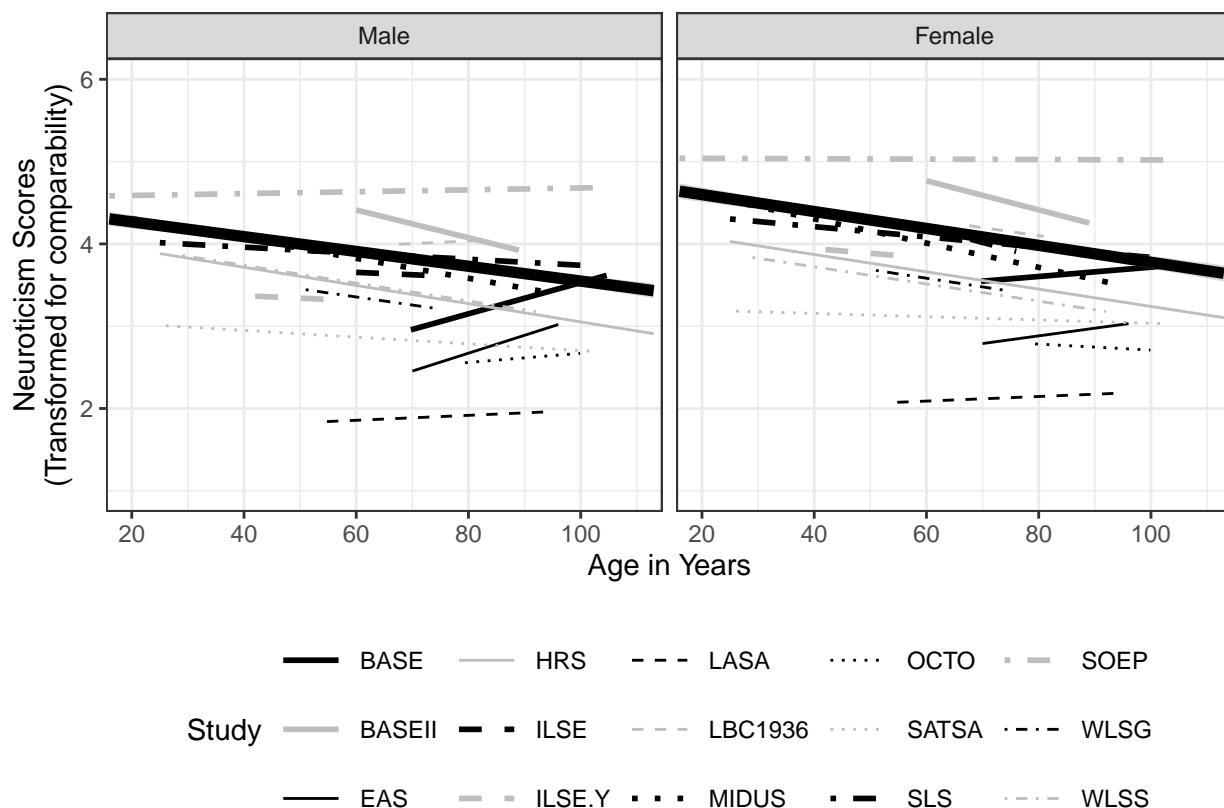


Figure S6: Sex, Plot (Neuroticism). Linear Trajectories of Neuroticism, moderated by sex. Black line indicates average trajectory weighted by N. At the individual study level, some showed evidence that being female was associated with greater declines in neuroticism, and the meta-analytic average was significant ($p = .002$)

Sex, Plot, unweighted (Neuroticism).

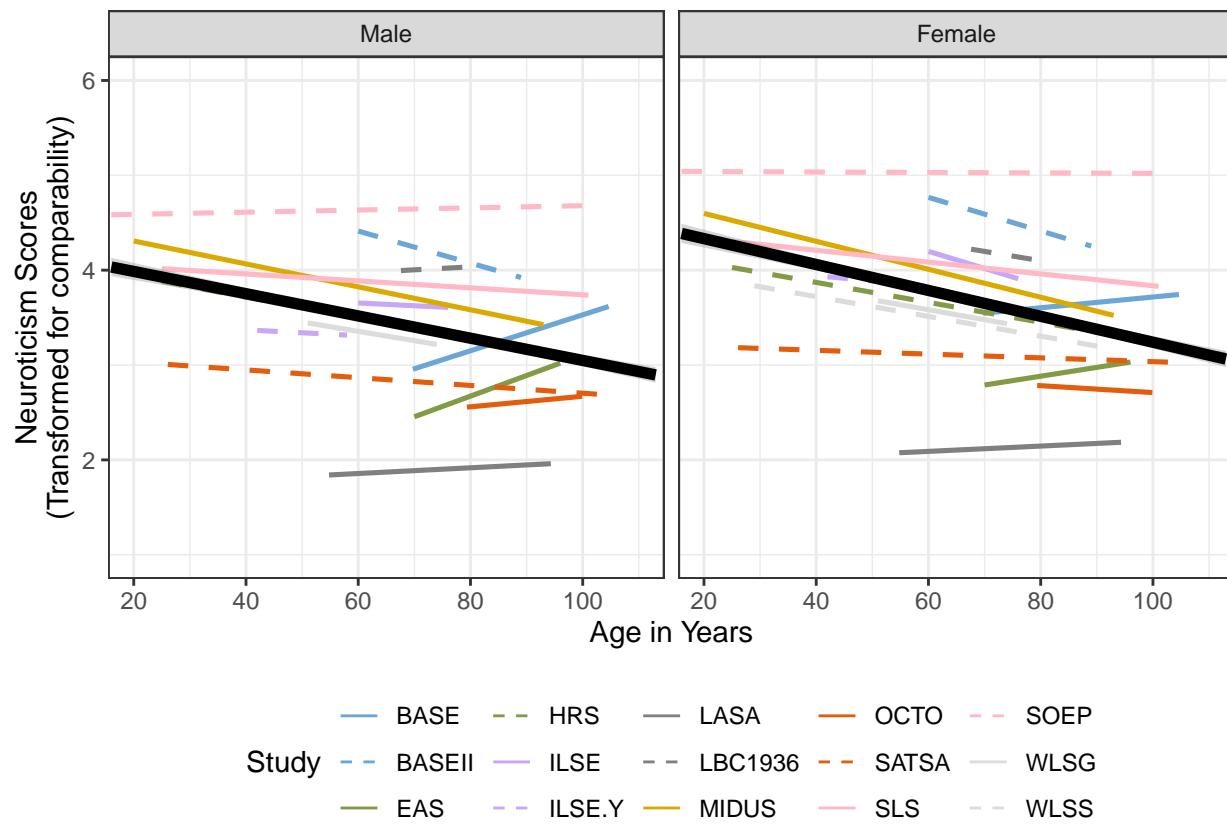


Figure S7: Sex, Plot, unweighted (Neuroticism).

Sex, Meta Analysis (Neuroticism)

```
##  
## Random-Effects Model (k = 15; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##  24.0009  -48.0018  -44.0018  -42.7236  -42.9108  
##  
## tau^2 (estimated amount of total heterogeneity): 0 (SE = 0.0001)  
## tau (square root of estimated tau^2 value): 0  
## I^2 (total heterogeneity / total variability): 0.00%  
## H^2 (total variability / sampling variability): 1.00  
##  
## Test for Heterogeneity:  
## Q(df = 14) = 18.3495, p-val = 0.1913  
##  
## Model Results:  
##  
## estimate      se     zval    pval    ci.lb    ci.ub  
## -0.0119  0.0038  -3.1377  0.0017  -0.0193  -0.0045  **  
##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 15; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##  21.6310  -43.2620  -37.2620  -35.5671  -34.5953  
##  
## tau^2 (estimated amount of residual heterogeneity): 0 (SE = 0.0001)  
## tau (square root of estimated tau^2 value): 0  
## I^2 (residual heterogeneity / unaccounted variability): 0.00%  
## H^2 (unaccounted variability / sampling variability): 1.00  
## R^2 (amount of heterogeneity accounted for): 0.00%  
##  
## Test for Residual Heterogeneity:  
## QE(df = 13) = 17.5561, p-val = 0.1751  
##  
## Test of Moderators (coefficient 2):  
## QM(df = 1) = 0.7934, p-val = 0.3731  
##  
## Model Results:  
##  
##          estimate      se     zval    pval    ci.lb    ci.ub  
## intrcpt  -0.0357  0.0271  -1.3210  0.1865  -0.0888  0.0173  
## age       0.0005  0.0005   0.8907  0.3731  -0.0006  0.0015  
##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 15; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc
```

```

## 14.3663 -28.7325 -14.7325 -13.3520 97.2675
##
## tau^2 (estimated amount of residual heterogeneity): 0.0001 (SE = 0.0003)
## tau (square root of estimated tau^2 value): 0.0117
## I^2 (residual heterogeneity / unaccounted variability): 17.94%
## H^2 (unaccounted variability / sampling variability): 1.22
## R^2 (amount of heterogeneity accounted for): 0.00%
##
## Test for Residual Heterogeneity:
## QE(df = 9) = 10.3792, p-val = 0.3207
##
## Test of Moderators (coefficients 2:6):
## QM(df = 5) = 6.8361, p-val = 0.2331
##
## Model Results:
##
##          estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt      -0.0024  0.0132 -0.1809  0.8564 -0.0282  0.0234
## countryGermany -0.0173  0.0179 -0.9666  0.3338 -0.0525  0.0178
## countryNetherlands  0.0002  0.0382  0.0051  0.9960 -0.0748  0.0752
## countrySweden      0.0214  0.0261  0.8221  0.4110 -0.0297  0.0725
## countryU.S.        -0.0119  0.0172 -0.6906  0.4898 -0.0456  0.0218
## countryUK         -0.1273  0.0610 -2.0854  0.0370 -0.2469 -0.0077 *
##
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Mixed-Effects Model (k = 15; tau^2 estimator: REML)
##
## logLik deviance      AIC      BIC      AICc
## 10.9712 -21.9423 -1.9423 -4.0247 218.0577
##
## tau^2 (estimated amount of residual heterogeneity): 0.0001 (SE = 0.0003)
## tau (square root of estimated tau^2 value): 0.0115
## I^2 (residual heterogeneity / unaccounted variability): 20.40%
## H^2 (unaccounted variability / sampling variability): 1.26
## R^2 (amount of heterogeneity accounted for): 0.00%
##
## Test for Residual Heterogeneity:
## QE(df = 6) = 5.1036, p-val = 0.5306
##
## Test of Moderators (coefficients 2:9):
## QM(df = 8) = 11.8285, p-val = 0.1590
##
## Model Results:
##
##          estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt      -0.0024  0.0130 -0.1841  0.8539 -0.0280
## scaleBFI-S     -0.0113  0.0180 -0.6280  0.5300 -0.0465
## scaleDPQ       0.0002  0.0381  0.0056  0.9955 -0.0745
## scaleEPI-Q      -0.0895  0.1685 -0.5314  0.5952 -0.4197
## scaleEPQ (NE) and NEO-PI (O)  0.0235  0.0261  0.9008  0.3677 -0.0276
## scaleIPIP      -0.1262  0.0546 -2.3100  0.0209 -0.2332

```

```

## scaleMIDI           -0.0088  0.0177 -0.4958  0.6201 -0.0434
## scaleNEO-FFI        -0.1007  0.0486 -2.0704  0.0384 -0.1959
## scaleNEO-PI-R       -0.0233  0.0318 -0.7317  0.4644 -0.0856
##
## ci.ub
## intrcpt            0.0232
## scaleBFI-S          0.0239
## scaleDPQ             0.0749
## scaleEPI-Q           0.2407
## scaleEPQ (NE) and NEO-PI (O) 0.0746
## scaleIPIP            -0.0191 *
## scaleMIDI            0.0259
## scaleNEO-FFI          -0.0054 *
## scaleNEO-PI-R         0.0391
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

##
## Mixed-Effects Model (k = 15; tau^2 estimator: REML)
##
##   logLik  deviance      AIC      BIC      AICc
## 22.0520 -44.1041 -38.1041 -36.4092 -35.4374
##
## tau^2 (estimated amount of residual heterogeneity): 0.0000 (SE = 0.0001)
## tau (square root of estimated tau^2 value): 0.0029
## I^2 (residual heterogeneity / unaccounted variability): 2.49%
## H^2 (unaccounted variability / sampling variability): 1.03
## R^2 (amount of heterogeneity accounted for): 0.00%
##
## Test for Residual Heterogeneity:
## QE(df = 13) = 18.2226, p-val = 0.1492
##
## Test of Moderators (coefficient 2):
## QM(df = 1) = 0.1329, p-val = 0.7155
##
## Model Results:
##
##   estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt  -0.0176  0.0168 -1.0425  0.2972 -0.0506  0.0154
## mo        0.0016  0.0043  0.3645  0.7155 -0.0069  0.0101
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

```

Retirement Status, Table (Neuroticism)

Table S7: Neuroticism-Linear Growth Model, Moderated by Retirement Status

coef	BASEII	HRS	ILSE	ILSE.Y	LASA	MIDUS	NAS	SATSA	SLS	SOEP	WLSG	WLSS
Fixed Effects												
Intercept	4.54	3.57	3.40	3.49	1.76	3.90	3.41	2.86	4.05	4.78	3.45	3.47
Age	0.12 p < .001	0.01 p < .001	0.13 p < .001	0.07 p < .001	0.06 p < .001	0.01 p < .001	0.02 p < .001	0.03 p < .001	0.03 p < .001	0.01 p < .001	0.01 p < .001	0.02 p < .001
retired	-0.50 p = 0.005	-0.10 0.09	0.06 0.59	-0.02 0.321	0.00 0.493	-0.14 0.04	-0.15 0.01	-0.06 0.01	-0.08 0.02	-0.02 0	-0.10 0.01	-0.13 0.01
Age x retired	0.19 p = 0.005	0.01 0.277	0.1 0.38	0.04 0.26	0.05 0.04	0.01 0.05	0.01 0.23	0.02 -0.29	0.01 0.27	0.01 0.11	0.01 0.13	0.01 0.13
Random Effects	0.13 p = 0.247	0.03 0.30	0.14 -0.08	0.17 -0.19	0.06 -0.11	0.04 0.00	0.08 0.04	0.04 0.23	0.07 -0.29	0.02 0.27	0.03 0.11	0.03 0.13
τ_{00}	0.94	0.66	0.77	0.76	0.70	0.53	0.59	0.55	0.80	0.56	0.64	0.62
τ_{01}	-0.28	-0.05	-0.11	0.09	-0.10	-0.03	-0.01	-0.02	-0.08	0.01	-0.04	-0.02
τ_{11}	0.32	0.03	0.13	0.05	0.10	0.00	0.03	0.05	0.05	0.00	0.04	0.05
σ^2	0.25	0.35	0.25	0.38	0.30	0.35	0.32	0.29	0.15	0.43	0.26	0.25
N_{people}	1,276	13,495	488	499	2,534	6,368	1,480	1,845	1,513	20,779	7,250	3,921
N_{obs}	3,818	30,317	1,223	1,265	6,854	12,914	8,007	7,729	3,967	56,503	16,895	8,412
LL	-4257	-37583	-1437	-1594	-8021	-16064	-8750	-8454	-3861	-71617	-19851	-9958

^a LL = Log Likelihood; Age = age (centered at 60)

Retirement Status, Plot (Neuroticism).

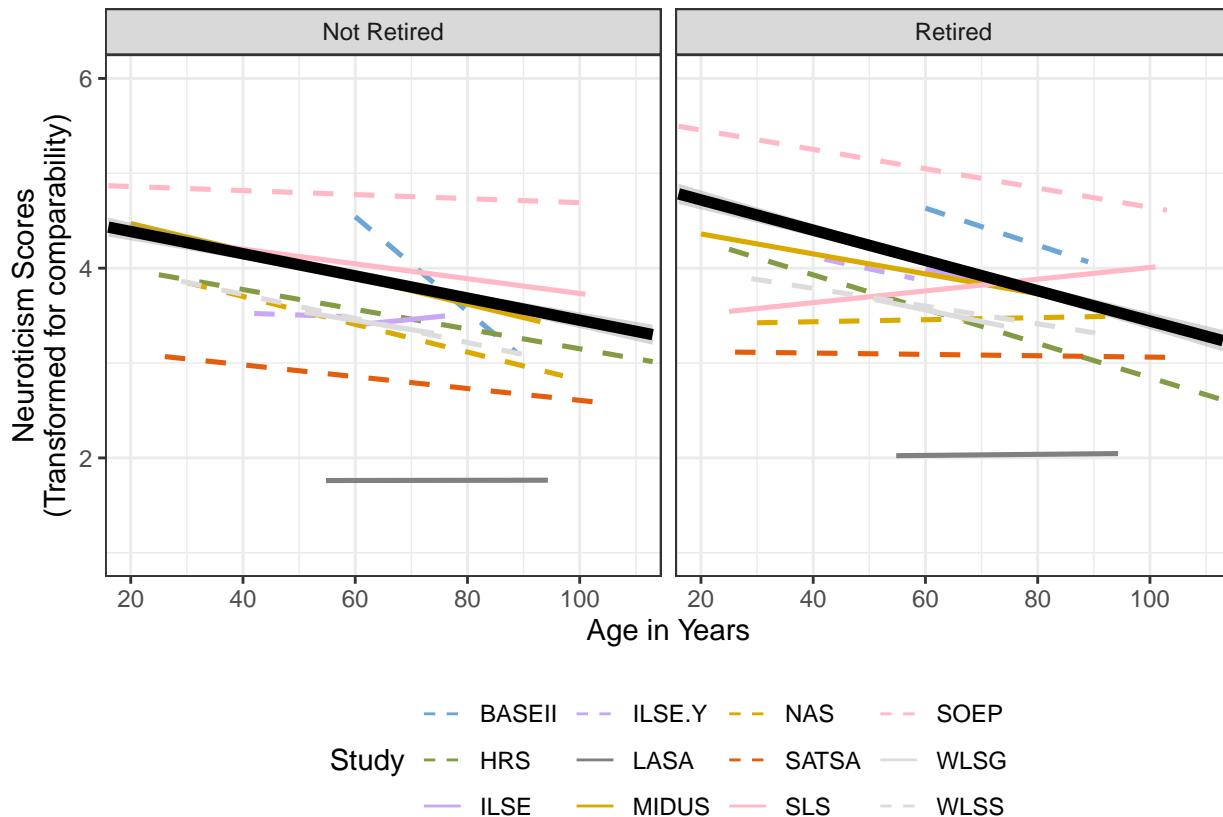


Figure S8: Retirement Status, Plot (Neuroticism). Linear Trajectories of Neuroticism, moderated by retirement status. Black line indicates average trajectory weighted by N. At the individual study level, some showed evidence that being retired was associated with greater declines in neuroticism, and the meta-analytic average was not significant ($p = .584$)

Retirement Status, Plot, unweighted (Neuroticism)

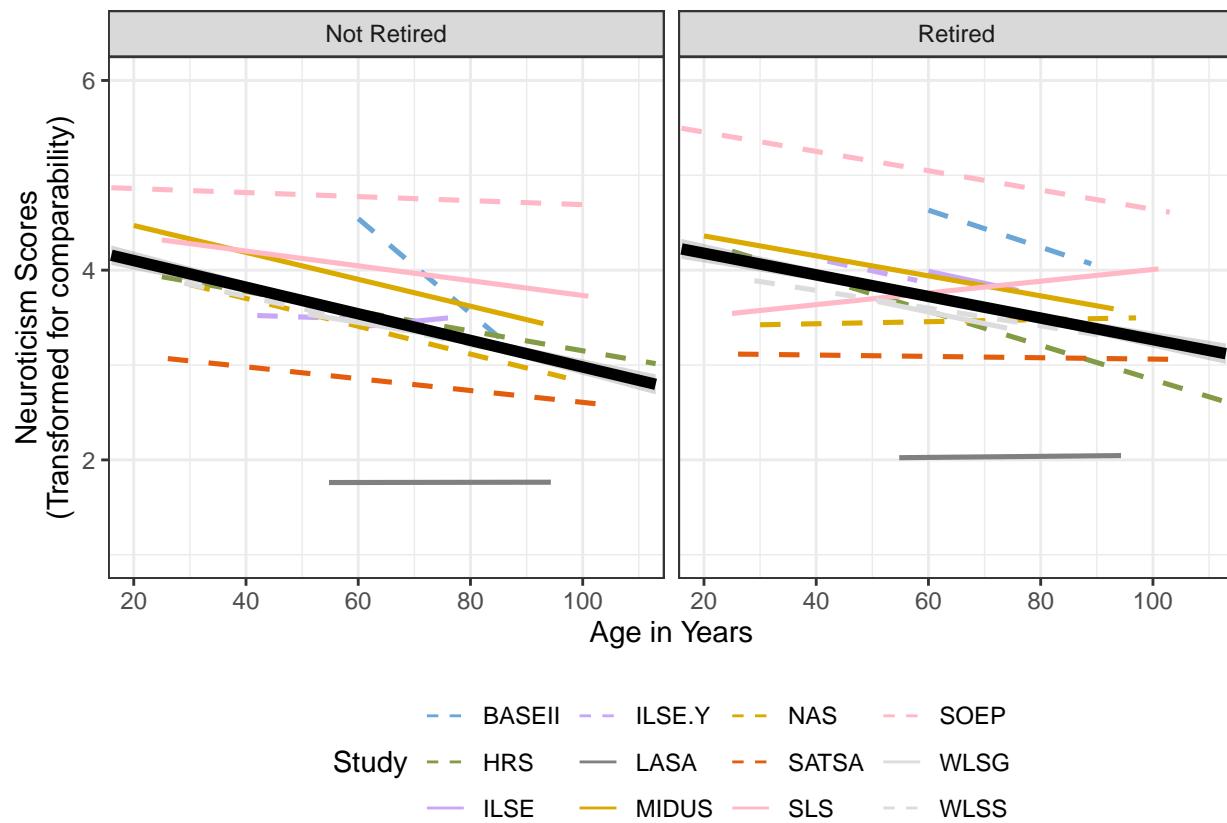


Figure S9: Retirement Status, Plot, unweighted (Neuroticism)

Retirement Status, Meta Analysis (Neuroticism)

```
##  
## Random-Effects Model (k = 12; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##    8.8690 -17.7380 -13.7380 -12.9422 -12.2380  
##  
## tau^2 (estimated amount of total heterogeneity): 0.0068 (SE = 0.0037)  
## tau (square root of estimated tau^2 value):       0.0822  
## I^2 (total heterogeneity / total variability):   91.19%  
## H^2 (total variability / sampling variability): 11.35  
##  
## Test for Heterogeneity:  
## Q(df = 11) = 112.6006, p-val < .0001  
##  
## Model Results:  
##  
## estimate      se     zval     pval    ci.lb    ci.ub  
##  0.0151  0.0275  0.5483  0.5835 -0.0388  0.0689  
##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 12; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##    7.5442 -15.0883 -9.0883 -8.1805 -5.0883  
##  
## tau^2 (estimated amount of residual heterogeneity):      0.0078 (SE = 0.0044)  
## tau (square root of estimated tau^2 value):            0.0882  
## I^2 (residual heterogeneity / unaccounted variability): 91.45%  
## H^2 (unaccounted variability / sampling variability): 11.69  
## R^2 (amount of heterogeneity accounted for):          0.00%  
##  
## Test for Residual Heterogeneity:  
## QE(df = 10) = 107.0549, p-val < .0001  
##  
## Test of Moderators (coefficient 2):  
## QM(df = 1) = 0.0530, p-val = 0.8180  
##  
## Model Results:  
##  
##           estimate      se     zval     pval    ci.lb    ci.ub  
## intrcpt  -0.0309  0.2011 -0.1538  0.8777 -0.4251  0.3633  
## age       0.0008  0.0035  0.2302  0.8180 -0.0061  0.0077  
##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 12; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc
```

```

##    3.1332   -6.2664   11.7336    6.2103  191.7336
##
## tau^2 (estimated amount of residual heterogeneity):      0.0039 (SE = 0.0043)
## tau (square root of estimated tau^2 value):             0.0626
## I^2 (residual heterogeneity / unaccounted variability): 82.01%
## H^2 (unaccounted variability / sampling variability):   5.56
## R^2 (amount of heterogeneity accounted for):           41.98%
##
## Test for Residual Heterogeneity:
## QE(df = 4) = 21.3712, p-val = 0.0003
##
## Test of Moderators (coefficients 2:8):
## QM(df = 7) = 12.4282, p-val = 0.0873
##
## Model Results:
##
##                                estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt                      0.0038  0.0465  0.0820  0.9346 -0.0874
## scaleBFI-S                   -0.0516  0.0766 -0.6736  0.5006 -0.2018
## scaleDPQ                      0.0009  0.0936  0.0100  0.9920 -0.1826
## scaleEPI-Q                    0.1537  0.0857  1.7940  0.0728 -0.0142
## scaleEPQ (NE) and NEO-PI (O)  0.0514  0.0813  0.6326  0.5270 -0.1079
## scaleMIDI                     -0.0239  0.0661 -0.3622  0.7172 -0.1535
## scaleNEO-FFI                  -0.1500  0.0996 -1.5060  0.1321 -0.3452
## scaleNEO-PI-R                 0.1360  0.0849  1.6025  0.1090 -0.0303
##                                ci.lb    ci.ub
## intrcpt                      0.0950
## scaleBFI-S                   0.0986
## scaleDPQ                      0.1845
## scaleEPI-Q                    0.3217  .
## scaleEPQ (NE) and NEO-PI (O)  0.2108
## scaleMIDI                     0.1056
## scaleNEO-FFI                  0.0452
## scaleNEO-PI-R                 0.3024
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Mixed-Effects Model (k = 12; tau^2 estimator: REML)
##
## logLik  deviance      AIC      BIC      AICc
## 4.9146   -9.8291    2.1709   1.8464   86.1709
##
## tau^2 (estimated amount of residual heterogeneity):      0.0073 (SE = 0.0052)
## tau (square root of estimated tau^2 value):             0.0855
## I^2 (residual heterogeneity / unaccounted variability): 87.88%
## H^2 (unaccounted variability / sampling variability):   8.25
## R^2 (amount of heterogeneity accounted for):           0.00%
##
## Test for Residual Heterogeneity:
## QE(df = 7) = 56.7124, p-val < .0001
##
## Test of Moderators (coefficients 2:5):

```

```

## QM(df = 4) = 3.4342, p-val = 0.4880
##
## Model Results:
##
##              estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt       0.0039  0.0621   0.0627  0.9500 -0.1178  0.1256
## countryGermany -0.0797  0.0876  -0.9097  0.3630 -0.2514  0.0920
## countryNetherlands  0.0009  0.1176   0.0073  0.9942 -0.2297  0.2314
## countrySweden      0.0514  0.1081   0.4752  0.6347 -0.1605  0.2632
## countryU.S.        0.0568  0.0767   0.7398  0.4594 -0.0936  0.2071
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Mixed-Effects Model (k = 12; tau^2 estimator: REML)
##
##      logLik  deviance      AIC      BIC      AICc
##  9.5073 -19.0146 -13.0146 -12.1068 -9.0146
##
## tau^2 (estimated amount of residual heterogeneity): 0.0044 (SE = 0.0027)
## tau (square root of estimated tau^2 value): 0.0664
## I^2 (residual heterogeneity / unaccounted variability): 87.25%
## H^2 (unaccounted variability / sampling variability): 7.84
## R^2 (amount of heterogeneity accounted for): 34.78%
##
## Test for Residual Heterogeneity:
## QE(df = 10) = 85.3838, p-val < .0001
##
## Test of Moderators (coefficient 2):
## QM(df = 1) = 5.2086, p-val = 0.0225
##
## Model Results:
##
##              estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt     -0.0819  0.0484  -1.6901  0.0910 -0.1768  0.0131 .
## mo          0.0218  0.0095   2.2822  0.0225  0.0031  0.0404 *
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

```

Married, Table (Neuroticism)

Table S8: Linear Trajectories of Neuroticism, Moderated by Marriage

coef	BASE	BASEII	EAS	HRS	ILSE	ILSE.Y	LASA	LBC1936	MIDUS	NAS	OCTO	SATSA	SLS	SOEP	WLSG	WLSS
Fixed Effects																
Intercept	3.37	4.68	2.73	3.60	4.00	3.94	2.10	4.09	3.98	3.40	2.76	3.17	4.10	4.82	3.44	3.54
Age	0.15	0.08	0.16	0.02	0.09	0.12	0.06	0.09	0.02	0.08	0.25	0.04	0.05	0.01	0.02	0.03
	p < .001	p < .001	p < .001	p < .001	p < .001	p < .001	p < .001	p < .001	p < .001							
	0.06	-0.24	0.05	-0.09	-0.17	0.07	0.03	-0.01	-0.14	-0.17	0.00	-0.04	-0.07	0.01	-0.11	-0.08
married	0.06	0.07	0.07	0.01	0.07	0.08	0.03	0.06	0.01	0.03	0.1	0.02	0.02	0	0.02	0.02
	p = .0123	p < .001	p = .0252	p < .001	p = .0008	p = .0197	p = .0141	p = .0421	p < .001	p < .001	p = .0484	p = .004	p = .0002	p = .111	p < .001	p < .001
	-0.55	-0.04	-0.53	-0.01	-0.12	-0.51	-0.15	0.06	-0.09	0.03	-0.12	-0.23	-0.14	0.03	0.04	-0.04
Age x married	0.25	0.11	0.25	0.02	0.11	0.14	0.06	0.11	0.03	0.08	0.42	0.05	0.06	0.01	0.03	0.03
	p = .0115	p = .0359	p = .0017	p = .0335	p = .0143	p < .001	p = .008	p = .0279	p < .001	p = .0372	p = .0384	p = .001	p = .01	p = .029	p = .065	p = .136
	0.11	0.05	0.24	-0.03	0.09	-0.15	-0.03	-0.03	0.01	0.04	-0.01	0.01	0.02	-0.02	0.01	-0.03
Random Effects	0.1	0.09	0.12	0.01	0.08	0.09	0.04	0.07	0.01	0.03	0.17	0.02	0.03	0.01	0.02	0.02
	p = .143	p = .304	p = .022	p = .021	p = .133	p = .054	p = .201	p = .31	p = .177	p = .125	p = .484	p = .305	p = .25	p = .001	p = .239	p = .069
τ_{00}	1.53	0.96	2.07	0.68	0.81	0.74	0.72	1.08	0.54	0.59	0.57	0.56	0.80	0.56	0.65	0.62
τ_{01}	-0.44	-0.31	-0.67	-0.05	-0.12	0.08	-0.08	-0.22	-0.02	0.00	0.02	-0.01	-0.08	0.01	-0.04	-0.02
τ_{11}	0.20	0.37	0.32	0.03	0.13	0.05	0.09	0.12	0.00	0.04	0.00	0.05	0.05	0.00	0.04	0.05
σ^2	0.25	0.25	0.28	0.36	0.25	0.37	0.30	0.23	0.35	0.32	0.30	0.29	0.15	0.44	0.26	0.25
N_{people}	516	1,005	712	15,429	488	499	2,627	1,033	6,406	1,479	496	1,905	1,504	20,778	7,644	4,456
N_{obs}	983	3,546	1,664	34,103	1,223	1,265	7,023	3,010	12,985	8,003	1,119	7,831	3,954	56,501	17,690	9,351
LL	-1172	-3872	-1977	-	-1444	-1598	-8279	-3291	-	-8759	-1332	-8609	-3855	-	-	-
				42744					16158					71697	20896	11103

^a LL = Log Likelihood; Age = Age (centered at 60)

Married, Plot (Neuroticism).

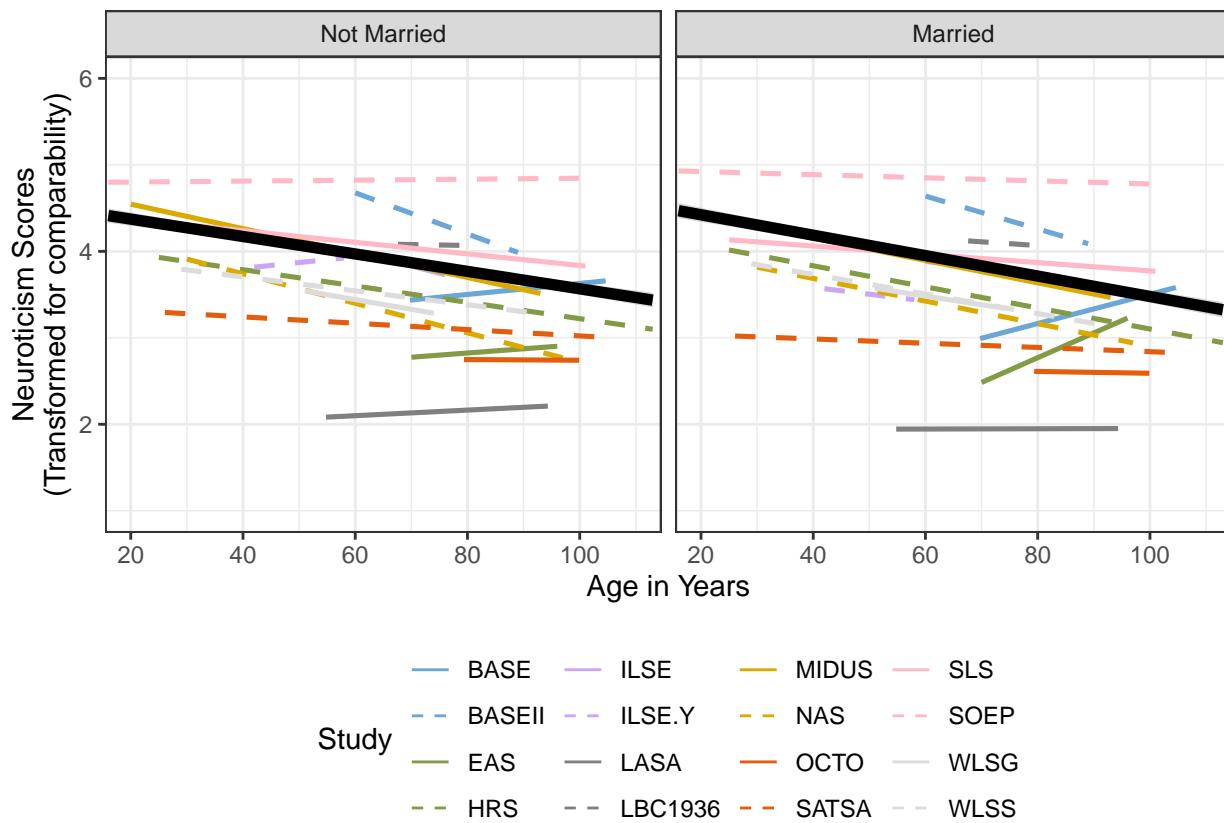


Figure S10: Married, Plot (Neuroticism). Linear Trajectories of Neuroticism, moderated by marriage Black line indicates average trajectory weighted by N. At the individual study level, few showed evidence that being married was associated with greater declines in neuroticism, and the meta-analytic average was not significant ($p = .56$).

Married, Plot, unweighted (Neuroticism)

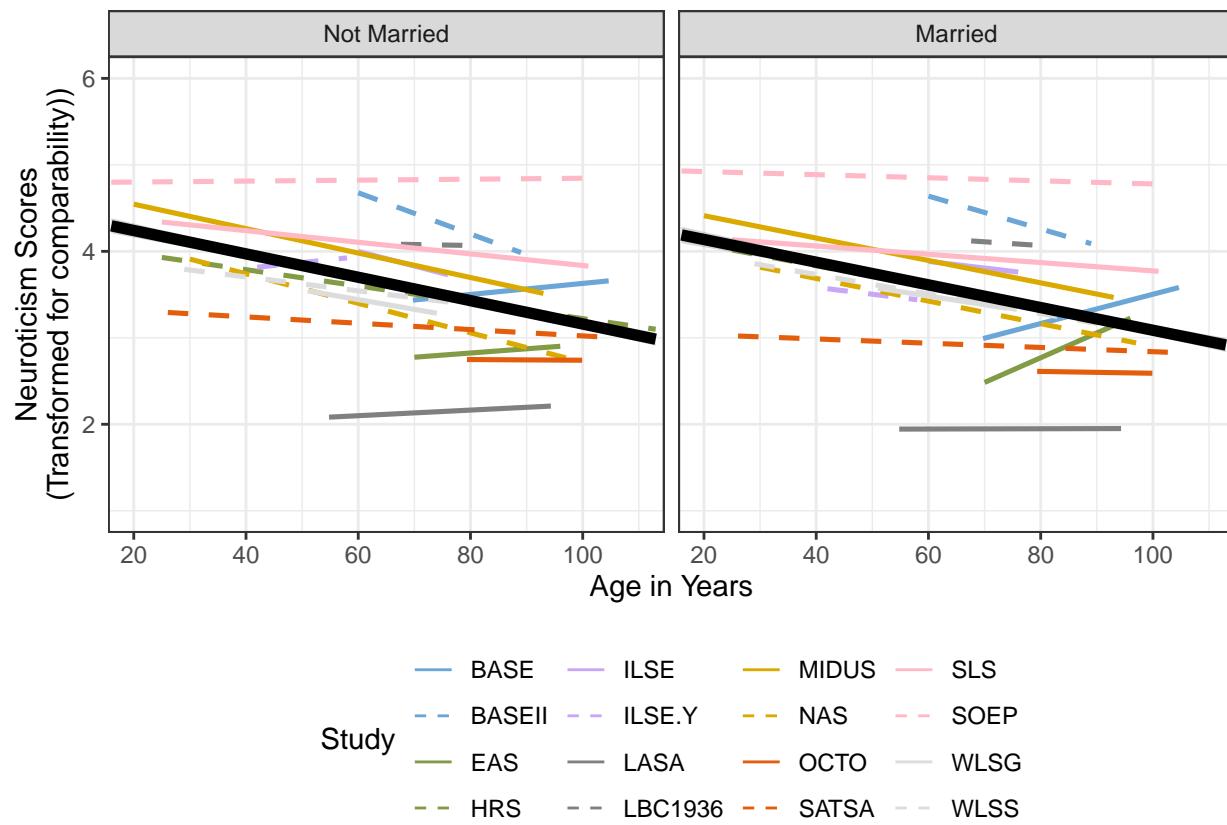


Figure S11: Married, Plot, unweighted (Neuroticism)

Married, Meta Analysis (Neuroticism)

```
##  
## Random-Effects Model (k = 16; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##  23.1586  -46.3172  -42.3172  -40.9011  -41.3172  
##  
## tau^2 (estimated amount of total heterogeneity): 0.0003 (SE = 0.0003)  
## tau (square root of estimated tau^2 value):       0.0162  
## I^2 (total heterogeneity / total variability):   35.88%  
## H^2 (total variability / sampling variability):  1.56  
##  
## Test for Heterogeneity:  
## Q(df = 15) = 25.5861, p-val = 0.0426  
##  
## Model Results:  
##  
## estimate      se     zval    pval    ci.lb    ci.ub  
## -0.0046  0.0081  -0.5750  0.5653  -0.0205  0.0112  
##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 16; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##  21.0784  -42.1568  -36.1568  -34.2396  -33.7568  
##  
## tau^2 (estimated amount of residual heterogeneity):      0.0004 (SE = 0.0004)  
## tau (square root of estimated tau^2 value):            0.0193  
## I^2 (residual heterogeneity / unaccounted variability): 39.50%  
## H^2 (unaccounted variability / sampling variability):  1.65  
## R^2 (amount of heterogeneity accounted for):          0.00%  
##  
## Test for Residual Heterogeneity:  
## QE(df = 14) = 25.3816, p-val = 0.0310  
##  
## Test of Moderators (coefficient 2):  
## QM(df = 1) = 0.1782, p-val = 0.6729  
##  
## Model Results:  
##  
##           estimate      se     zval    pval    ci.lb    ci.ub  
## intrcpt   -0.0269  0.0558  -0.4820  0.6298  -0.1362  0.0824  
## age        0.0004  0.0010   0.4222  0.6729  -0.0015  0.0023  
##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 16; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc
```

```

## 12.7023 -25.4045 -11.4045 -9.2864 44.5955
##
## tau^2 (estimated amount of residual heterogeneity): 0.0006 (SE = 0.0007)
## tau (square root of estimated tau^2 value): 0.0240
## I^2 (residual heterogeneity / unaccounted variability): 41.58%
## H^2 (unaccounted variability / sampling variability): 1.71
## R^2 (amount of heterogeneity accounted for): 0.00%
##
## Test for Residual Heterogeneity:
## QE(df = 10) = 19.4636, p-val = 0.0348
##
## Test of Moderators (coefficients 2:6):
## QM(df = 5) = 1.5127, p-val = 0.9116
##
## Model Results:
##
##          estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt      -0.0080  0.0218 -0.3673  0.7134 -0.0508  0.0347
## countryGermany -0.0049  0.0310 -0.1577  0.8747 -0.0657  0.0559
## countryNetherlands -0.0229  0.0491 -0.4659  0.6413 -0.1192  0.0734
## countrySweden      0.0194  0.0397  0.4892  0.6247 -0.0584  0.0972
## countryU.S.        0.0161  0.0269  0.5978  0.5500 -0.0367  0.0688
## countryUK         -0.0243  0.0727 -0.3338  0.7386 -0.1668  0.1182
##
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Mixed-Effects Model (k = 16; tau^2 estimator: REML)
##
## logLik deviance      AIC      BIC      AICc
## 6.9721 -13.9442  6.0558  5.5149 226.0558
##
## tau^2 (estimated amount of residual heterogeneity): 0.0008 (SE = 0.0011)
## tau (square root of estimated tau^2 value): 0.0289
## I^2 (residual heterogeneity / unaccounted variability): 51.85%
## H^2 (unaccounted variability / sampling variability): 2.08
## R^2 (amount of heterogeneity accounted for): 0.00%
##
## Test for Residual Heterogeneity:
## QE(df = 7) = 16.5674, p-val = 0.0204
##
## Test of Moderators (coefficients 2:9):
## QM(df = 8) = 2.5331, p-val = 0.9602
##
## Model Results:
##
##          estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt      -0.0085  0.0246 -0.3456  0.7297 -0.0567
## scaleBFI-S     -0.0089  0.0375 -0.2384  0.8116 -0.0825
## scaleDPQ       -0.0224  0.0529 -0.4235  0.6719 -0.1261
## scaleEPI-Q       0.0453  0.0500  0.9063  0.3648 -0.0527
## scaleEPQ (NE) and NEO-PI (O)  0.0206  0.0448  0.4605  0.6451 -0.0671
## scaleIPIP       0.0450  0.0662  0.6803  0.4963 -0.0847

```

```

## scaleMIDI          0.0009  0.0333  0.0263  0.9790 -0.0643
## scaleNEO-FFI      0.0258  0.0600  0.4302  0.6670 -0.0918
## scaleNEO-PI-R     0.0276  0.0474  0.5832  0.5597 -0.0652
##                   ci.ub
## intrcpt          0.0397
## scaleBFI-S        0.0646
## scaleDPQ           0.0813
## scaleEPI-Q         0.1433
## scaleEPQ (NE) and NEO-PI (O) 0.1083
## scaleIPIP          0.1747
## scaleMIDI          0.0661
## scaleNEO-FFI       0.1435
## scaleNEO-PI-R      0.1204
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

##
## Mixed-Effects Model (k = 16; tau^2 estimator: REML)
##
##   logLik  deviance      AIC      BIC      AICc
## 23.2766 -46.5532 -40.5532 -38.6360 -38.1532
##
## tau^2 (estimated amount of residual heterogeneity): 0.0003 (SE = 0.0003)
## tau (square root of estimated tau^2 value):        0.0163
## I^2 (residual heterogeneity / unaccounted variability): 36.57%
## H^2 (unaccounted variability / sampling variability): 1.58
## R^2 (amount of heterogeneity accounted for):       0.00%
##
## Test for Residual Heterogeneity:
## QE(df = 14) = 21.9315, p-val = 0.0800
##
## Test of Moderators (coefficient 2):
## QM(df = 1) = 4.1900, p-val = 0.0407
##
## Model Results:
##
##   estimate      se    zval   pval    ci.lb    ci.ub
## intrcpt -0.0381  0.0183 -2.0863  0.0369 -0.0739 -0.0023 *
## mo       0.0082  0.0040  2.0469  0.0407  0.0003  0.0160 *
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

```

Divorce, Table (Neuroticism)

Table S9: Linear Trajectories of Neuroticism, Moderated by Divorce

coef	BASE	BASEII	EAS	HRS	ILSE	ILSE.Y	LBC1936	MIDUS	SATSA	SLS	SOEP	WLSG	WLSS
Fixed Effects													
Intercept	3.13	4.67	2.46	3.59	3.90	3.50	4.14	3.91	2.98	4.01	4.84	3.49	3.51
Age	0.13 p < .001 .012 0.05 p = .007 -0.09	0.06 p < .001 .023 0.05 p < .001 -0.05	0.13 p < .001 .017 0.06 p < .004 0.35	0.01 .001 -0.12 0.01 p < .001 -0.01	0.05 .001 .001 0.04 0.15	0.07 .001 .001 0.04 0.34	0.05 .001 -0.03 0.03 -0.05	0.01 .001 -0.13 0.01 0.06	0.02 .001 .001 0.01 0.18	0.03 .001 -0.05 0.01 -0.03	0.01 .001 0.00 0.01 -0.03	0.01 .001 -.10 0.01 -0.10	0.01 .001 .001 0.01 0.00
divorce	0.43 p = .415 0.14	0.12 p = .325 0.05	0.33 p = .146 -0.18	0.03 0.386 0.04	0.17 p = .191 -0.06	0.17 p = .025 0.07	0.2 p = .39 0.00	0.03 0.041 -0.07	0.07 0.005 -0.04	0.08 0.355 -0.03	0.02 0.089 -0.09	0.03 0.002 -0.01	0.04 0.468 -0.02
Age x divorce	0.17 p = .216	0.11 p = .321	0.17 0.139	0.02 0.005	0.13 0.318	0.11 0.265	0.12 0.491	0.02 .001	0.03 0.094	0.04 0.274	0.02 .001	0.02 0.397	0.03 0.289
Random Effects													
τ_{00}	1.56	0.96	2.15	0.68	0.81	0.77	1.08	0.54	0.57	0.81	0.56	0.65	0.62
τ_{01}	-0.44	-0.31	-0.71	-0.05	-0.12	0.08	-0.22	-0.02	-0.01	-0.09	0.01	-0.04	-0.02
τ_{11}	0.20	0.36	0.34	0.03	0.13	0.05	0.12	0.00	0.05	0.05	0.00	0.04	0.05
σ^2	0.25	0.25	0.28	0.36	0.25	0.38	0.23	0.35	0.29	0.15	0.44	0.26	0.25
N_{people}	516	1,005	712	15,429	488	499	1,033	6,406	1,905	1,504	20,778	7,642	4,426
N_{obs}	983	3,546	1,664	34,103	1,223	1,265	3,010	12,985	7,831	3,954	56,501	17,687	9,300
LL	-1177	-3872	-1978	-42741	-1445	-1603	-3291	-16154	-8618	-3858	-71693	-20890	-11026

^a LL = Log Likelihood; Age = age (centered at 60)

Divorce, Plot (Neuroticism).

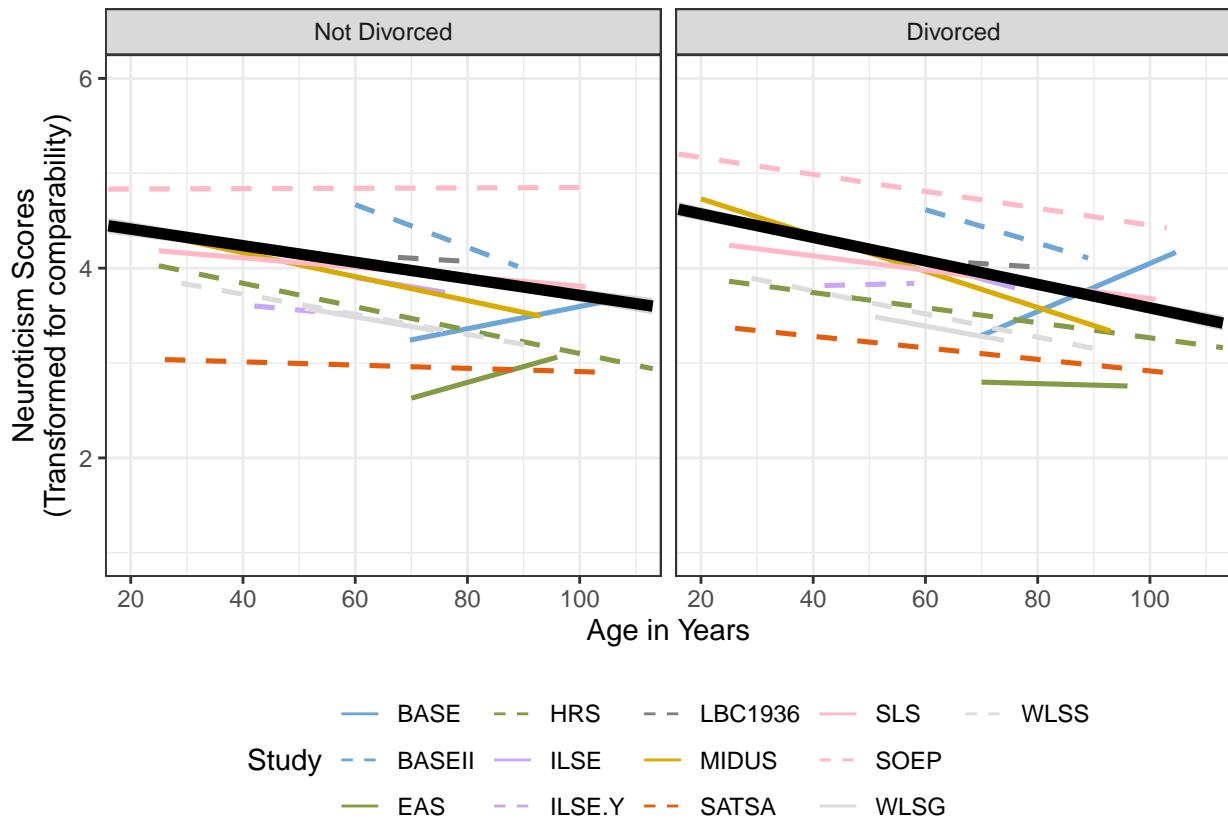


Figure S12: Divorce, Plot (Neuroticism). Linear Trajectories of Neuroticism, moderated by divorce. Black line indicates average trajectory weighted by N. At the individual study level, some showed evidence that being divorced was associated with greater declines in neuroticism, and the meta-analytic average was not significant ($p = .15$).

Divorce, Plot, unweighted (Neuroticism)

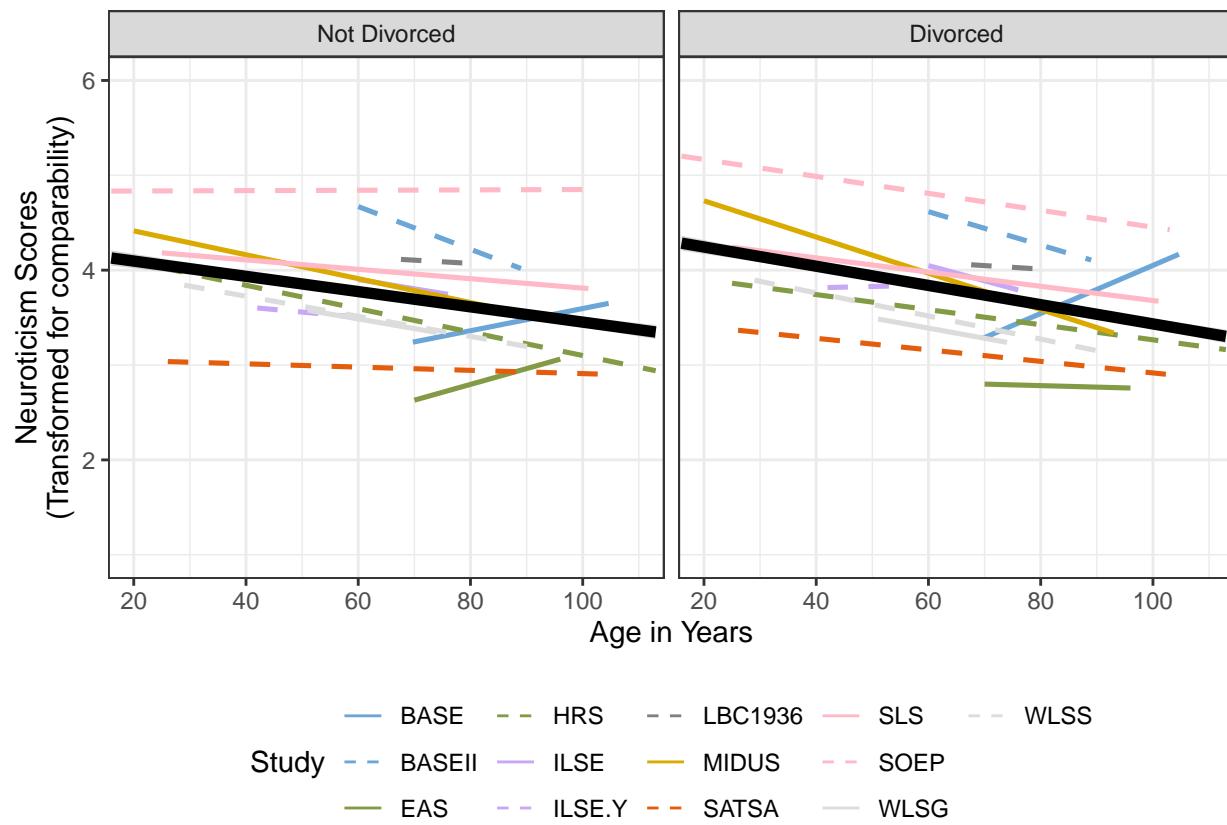


Figure S13: Divorce, Plot, unweighted (Neuroticism)

Divorce, Meta Analysis (Neuroticism)

```
##  
## Random-Effects Model (k = 13; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##  14.9164  -29.8328  -25.8328  -24.8630  -24.4995  
##  
## tau^2 (estimated amount of total heterogeneity): 0.0018 (SE = 0.0013)  
## tau (square root of estimated tau^2 value):       0.0419  
## I^2 (total heterogeneity / total variability):   66.14%  
## H^2 (total variability / sampling variability): 2.95  
##  
## Test for Heterogeneity:  
## Q(df = 12) = 43.7428, p-val < .0001  
##  
## Model Results:  
##  
## estimate      se     zval    pval    ci.lb    ci.ub  
## -0.0253  0.0175  -1.4489  0.1474  -0.0595  0.0089  
##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 13; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##  15.6008  -31.2017  -25.2017  -24.0080  -21.7731  
##  
## tau^2 (estimated amount of residual heterogeneity):      0.0004 (SE = 0.0006)  
## tau (square root of estimated tau^2 value):            0.0192  
## I^2 (residual heterogeneity / unaccounted variability): 25.42%  
## H^2 (unaccounted variability / sampling variability):  1.34  
## R^2 (amount of heterogeneity accounted for):          79.06%  
##  
## Test for Residual Heterogeneity:  
## QE(df = 11) = 12.8469, p-val = 0.3034  
##  
## Test of Moderators (coefficient 2):  
## QM(df = 1) = 11.4982, p-val = 0.0007  
##  
## Model Results:  
##  
##           estimate      se     zval    pval    ci.lb    ci.ub  
## intrcpt   -0.2683  0.0716  -3.7499  0.0002  -0.4086  -0.1281 ***  
## age        0.0043  0.0013   3.3909  0.0007   0.0018   0.0068 ***  
##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 13; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc
```

```

##    8.4280 -16.8560 -4.8560 -4.3793 79.1440
##
## tau^2 (estimated amount of residual heterogeneity):      0.0024 (SE = 0.0024)
## tau (square root of estimated tau^2 value):             0.0491
## I^2 (residual heterogeneity / unaccounted variability): 65.36%
## H^2 (unaccounted variability / sampling variability):   2.89
## R^2 (amount of heterogeneity accounted for):           0.00%
##
## Test for Residual Heterogeneity:
## QE(df = 8) = 26.2452, p-val = 0.0010
##
## Test of Moderators (coefficients 2:5):
## QM(df = 4) = 0.4660, p-val = 0.9767
##
## Model Results:
##
##          estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt     -0.0102  0.0388  -0.2640  0.7918  -0.0863  0.0658
## countryGermany -0.0311  0.0563  -0.5535  0.5799  -0.1415  0.0792
## countrySweden  -0.0334  0.0708  -0.4722  0.6368  -0.1723  0.1054
## countryU.S.    -0.0091  0.0500  -0.1827  0.8550  -0.1071  0.0889
## countryUK       0.0075  0.1353   0.0551  0.9561  -0.2578  0.2727
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Mixed-Effects Model (k = 13; tau^2 estimator: REML)
##
##          logLik  deviance      AIC      BIC     AICC
##          5.9749 -11.9498  4.0502  2.3843 148.0502
##
## tau^2 (estimated amount of residual heterogeneity):      0.0026 (SE = 0.0029)
## tau (square root of estimated tau^2 value):             0.0512
## I^2 (residual heterogeneity / unaccounted variability): 69.61%
## H^2 (unaccounted variability / sampling variability):   3.29
## R^2 (amount of heterogeneity accounted for):           0.00%
##
## Test for Residual Heterogeneity:
## QE(df = 6) = 23.0627, p-val = 0.0008
##
## Test of Moderators (coefficients 2:7):
## QM(df = 6) = 1.8945, p-val = 0.9291
##
## Model Results:
##
##          estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt     -0.0103  0.0401  -0.2559  0.7981  -0.0889
## scaleBFI-S    -0.0569  0.0631  -0.9025  0.3668  -0.1806
## scaleEPQ (NE) and NEO-PI (O) -0.0334  0.0730  -0.4579  0.6470  -0.1765
## scaleIPIP     -0.0563  0.1122  -0.5015  0.6160  -0.2761
## scaleMIDI      -0.0000  0.0554  -0.0001  0.9999  -0.1086
## scaleNEO-FFI     0.0491  0.0910   0.5392  0.5898  -0.1293
## scaleNEO-PI-R    -0.0150  0.0775  -0.1941  0.8461  -0.1669

```

```

## ci.ub
## intrcpt 0.0684
## scaleBFI-S 0.0667
## scaleEPQ (NE) and NEO-PI (O) 0.1096
## scaleIPIP 0.1636
## scaleMIDI 0.1086
## scaleNEO-FFI 0.2274
## scaleNEO-PI-R 0.1368
##
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

##
## Mixed-Effects Model (k = 13; tau^2 estimator: REML)
##
## logLik deviance AIC BIC AICc
## 14.3598 -28.7197 -22.7197 -21.5260 -19.2911
##
## tau^2 (estimated amount of residual heterogeneity): 0.0017 (SE = 0.0014)
## tau (square root of estimated tau^2 value): 0.0415
## I^2 (residual heterogeneity / unaccounted variability): 65.68%
## H^2 (unaccounted variability / sampling variability): 2.91
## R^2 (amount of heterogeneity accounted for): 2.08%
##
## Test for Residual Heterogeneity:
## QE(df = 11) = 38.1154, p-val < .0001
##
## Test of Moderators (coefficient 2):
## QM(df = 1) = 1.2271, p-val = 0.2680
##
## Model Results:
##
## estimate se zval pval ci.lb ci.ub
## intrcpt 0.0175 0.0424 0.4134 0.6793 -0.0656 0.1006
## mo -0.0111 0.0100 -1.1078 0.2680 -0.0308 0.0086
##
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

```

Widow, Table (Neuroticism)

Table S10: Linear Trajectories of Neuroticism, Moderated by Widowhood

coef	BASE	BASEII	EAS	HRS	ILSE	LASA	LBC1936	OCTO	SATSA	SLS	SOEP
Fixed Effects											
Intercept	3.00	4.64	2.47	3.59	3.90	1.96	4.14	2.67	2.97	4.00	4.83
Age	0.17 p < .001	0.06 p < .001	0.15 p < .001	0.01 p < .001	0.05 p < .001	0.03 p < .001	0.05 p < .001	0.28 p < .001	0.02 p < .001	0.03 p < .001	0.01 p < .001
widow	0.15 p = 0.012	-0.19 p < .001	0.17 p = 0.01	-0.11 p < .001	-0.10 p = 0.006	0.01 p = 0.379	-0.03 p = 0.144	0.00 p = 0.492	-0.04 p < .001	-0.07 p < .001	0.00 p = 0.129
Age x widow	0.07 p = 0.095	0.05 p = 0.257	0.07 p = 0.324	0.01 p = 0.145	0.04 p = 0.184	0.02 p = 0.012	0.03 p = 0.332	0.11 p = 0.434	0.01 p = 0.054	0.01 p = 0.123	0 p < .001
	0.32 0.25	0.12 0.19	0.12 0.27	0.03 0.03	0.14 0.15	0.18 0.08	-0.06 0.14	0.07 0.4	0.12 0.07	-0.16 0.14	0.18 0.03
	-0.08 0.09	-0.19 0.16	-0.07 0.12	-0.02 0.02	-0.03 0.11	0.02 0.04	0.00 0.09	0.00 0.16	0.08 0.04	0.13 0.06	-0.06 0.02
	p = 0.189 p = 0.189	p = 0.12 p = 0.12	p = 0.288 p = 0.288	p = 0.154 p = 0.154	p = 0.411 p = 0.411	p = 0.326 p = 0.326	p = 0.481 p = 0.481	p = 0.493 p = 0.493	p = 0.018 p = 0.018	p = 0.011 p = 0.011	p < .001 p < .001
Random Effects											
τ_{00}	1.58	0.96	2.12	0.68	0.81	0.71	1.08	0.57	0.57	0.80	0.56
τ_{01}	-0.45	-0.31	-0.70	-0.05	-0.13	-0.08	-0.22	0.02	-0.01	-0.08	0.01
τ_{11}	0.20	0.36	0.33	0.03	0.13	0.09	0.12	0.00	0.05	0.05	0.00
σ^2	0.25	0.25	0.28	0.36	0.25	0.30	0.23	0.30	0.29	0.15	0.44
N_{people}	516	1,005	712	15,429	488	2,627	1,033	496	1,905	1,504	20,778
N_{obs}	983	3,546	1,664	34,103	1,223	7,023	3,010	1,119	7,831	3,954	56,501
LL	-1177	-3871	-1979	-42750	-1445	-8281	-3291	-1333	-8611	-3854	-71697

^a LL = Log Likelihood; Age = age (centered at 60)

Widow, Plot (Neuroticism)

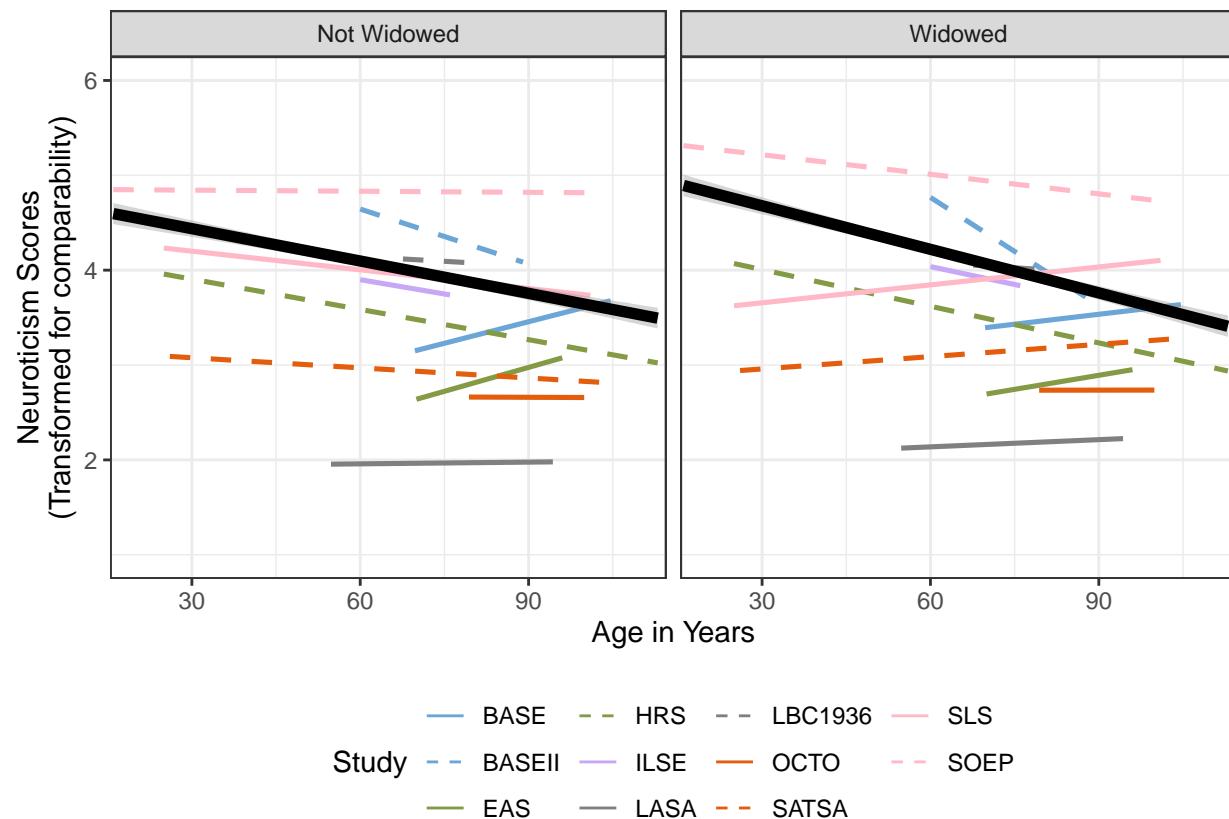


Figure S14: Widow, Plot (Neuroticism). Linear Trajectories of Neuroticism, moderated by widowhood. Black line indicates average trajectory weighted by N. At the individual study level, few showed evidence that being widowed was associated with greater declines in neuroticism, and the meta-analytic average was not significant ($p = .95$)

Widow, Plot, unweighted (Neuroticism)

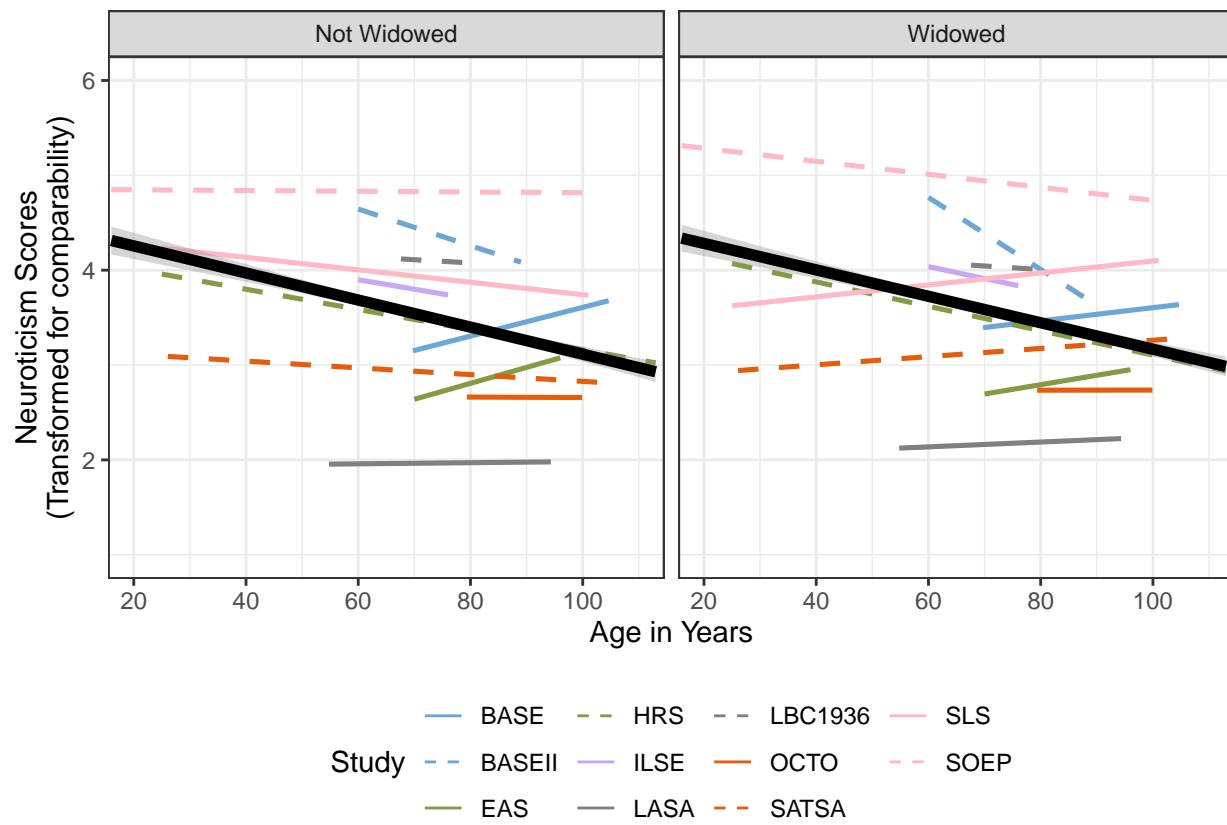


Figure S15: Widow, Plot, unweighted (Neuroticism)

Widow, Meta Analysis (Neuroticism)

```
##  
## Random-Effects Model (k = 11; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##  10.2497 -20.4994 -16.4994 -15.8942 -14.7851  
##  
## tau^2 (estimated amount of total heterogeneity): 0.0029 (SE = 0.0027)  
## tau (square root of estimated tau^2 value):       0.0534  
## I^2 (total heterogeneity / total variability):   59.72%  
## H^2 (total variability / sampling variability):  2.48  
##  
## Test for Heterogeneity:  
## Q(df = 10) = 22.8336, p-val = 0.0114  
##  
## Model Results:  
##  
## estimate      se     zval    pval    ci.lb    ci.ub  
## -0.0016  0.0250 -0.0651  0.9481 -0.0505  0.0473  
##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 11; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##  8.7115 -17.4230 -11.4230 -10.8313 -6.6230  
##  
## tau^2 (estimated amount of residual heterogeneity):      0.0036 (SE = 0.0035)  
## tau (square root of estimated tau^2 value):            0.0602  
## I^2 (residual heterogeneity / unaccounted variability): 55.35%  
## H^2 (unaccounted variability / sampling variability):  2.24  
## R^2 (amount of heterogeneity accounted for):          0.00%  
##  
## Test for Residual Heterogeneity:  
## QE(df = 9) = 18.8542, p-val = 0.0265  
##  
## Test of Moderators (coefficient 2):  
## QM(df = 1) = 0.0033, p-val = 0.9543  
##  
## Model Results:  
##  
##           estimate      se     zval    pval    ci.lb    ci.ub  
## intrcpt    0.0080  0.1710  0.0467  0.9627 -0.3271  0.3431  
## age       -0.0002  0.0026 -0.0573  0.9543 -0.0053  0.0050  
##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 11; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc
```

```

##    3.4745   -6.9490   11.0510    2.9385  191.0510
##
## tau^2 (estimated amount of residual heterogeneity):      0 (SE = 0.0094)
## tau (square root of estimated tau^2 value):             0
## I^2 (residual heterogeneity / unaccounted variability): 0.00%
## H^2 (unaccounted variability / sampling variability):  1.00
## R^2 (amount of heterogeneity accounted for):          100.00%
##
## Test for Residual Heterogeneity:
## QE(df = 3) = 0.9194, p-val = 0.8207
##
## Test of Moderators (coefficients 2:8):
## QM(df = 7) = 21.9141, p-val = 0.0026
##
## Model Results:
##
##                                estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt                  -0.0664  0.0177  -3.7415  0.0002  -0.1012
## scaleDPQ                   0.0857  0.0463   1.8511  0.0642  -0.0050
## scaleEPI-Q                  0.0693  0.1605   0.4320  0.6657  -0.2452
## scaleEPQ (NE) and NEO-PI (O)  0.1452  0.0415   3.4982  0.0005  0.0638
## scaleIPIP                   0.0413  0.0725   0.5700  0.5687  -0.1008
## scaleMIDI                   0.0440  0.0282   1.5614  0.1184  -0.0112
## scaleNEO-FFI                  0.0074  0.0738   0.0998  0.9205  -0.1373
## scaleNEO-PI-R                 0.1950  0.0588   3.3160  0.0009  0.0797
##                                ci.lb    ci.ub
## intrcpt                  -0.0316  ***
## scaleDPQ                   0.1764  .
## scaleEPI-Q                  0.3838
## scaleEPQ (NE) and NEO-PI (O)  0.2266  ***
## scaleIPIP                   0.1834
## scaleMIDI                   0.0993
## scaleNEO-FFI                  0.1520
## scaleNEO-PI-R                 0.3102  ***
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Mixed-Effects Model (k = 11; tau^2 estimator: REML)
##
## logLik  deviance      AIC      BIC      AICc
## 6.0743  -12.1486  -0.1486  -1.3980  83.8514
##
## tau^2 (estimated amount of residual heterogeneity):      0.0024 (SE = 0.0043)
## tau (square root of estimated tau^2 value):             0.0487
## I^2 (residual heterogeneity / unaccounted variability): 31.89%
## H^2 (unaccounted variability / sampling variability):  1.47
## R^2 (amount of heterogeneity accounted for):          17.03%
##
## Test for Residual Heterogeneity:
## QE(df = 6) = 7.5299, p-val = 0.2746
##
## Test of Moderators (coefficients 2:5):

```

```

## QM(df = 4) = 4.6068, p-val = 0.3301
##
## Model Results:
##
##           estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt      -0.0708  0.0420  -1.6830  0.0924  -0.1532  0.0116 .
## countryNetherlands  0.0901  0.0772   1.1661  0.2436  -0.0613  0.2414 *
## countrySweden      0.1405  0.0714   1.9687  0.0490   0.0006  0.2804 *
## countryU.S.        0.0904  0.0589   1.5358  0.1246  -0.0250  0.2058
## countryUK          0.0667  0.1069   0.6242  0.5325  -0.1427  0.2761
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Mixed-Effects Model (k = 11; tau^2 estimator: REML)
##
## logLik  deviance      AIC      BIC      AICC
## 9.0547 -18.1095 -12.1095 -11.5178 -7.3095
##
## tau^2 (estimated amount of residual heterogeneity): 0.0031 (SE = 0.0030)
## tau (square root of estimated tau^2 value): 0.0559
## I^2 (residual heterogeneity / unaccounted variability): 61.55%
## H^2 (unaccounted variability / sampling variability): 2.60
## R^2 (amount of heterogeneity accounted for): 0.00%
##
## Test for Residual Heterogeneity:
## QE(df = 9) = 21.1721, p-val = 0.0119
##
## Test of Moderators (coefficient 2):
## QM(df = 1) = 0.0099, p-val = 0.9209
##
## Model Results:
##
##           estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt     -0.0064  0.0547  -0.1170  0.9069  -0.1135  0.1007
## mo          0.0010  0.0103   0.0993  0.9209  -0.0191  0.0212
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

```

Health, Table (Neuroticism)

Table S11: Linear Trajectories of Neuroticism, Moderated by Health Conditions

coef	BASE	BASEII	EAS	HRS	ILSE	LASA	LBC1936	MIDUS	NAS	OCTO	SATSA	SLS	SOEP	WLSG	WLSS
Fixed Effects															
	3.02	4.49	2.60	3.49	3.80	1.91	4.03	3.84	3.41	2.52	2.86	3.95	4.80	3.41	3.44
Intercept															
Age	0.25 .001	0.07 .001	0.23 .001	0.02 .001	0.07 .001	0.03 .001	0.07 .001	0.02 .001	0.29 .001	0.06 .001	0.03 .001	0.01 .001	0.01 .001	0.01 .001	0.02 .001
health	0.07 0.243	-0.18 0.004	0.10 0.174	-0.12 .001	-0.11 0.022	0.01 0.317	-0.02 0.343	-0.13 .001	-0.14 .001	0.04 .001	-0.08 .001	-0.09 .001	0.00 .001	-0.09 .001	-0.10 .001
Age	0.09 0.16	0.07 0.22	0.1 -0.12	0.01 0.16	0.06 0.20	0.02 0.18	0.04 0.18	0.01 0.19	0.01 0.17	0.12 0.28	0.03 0.17	0.02 0.09	0 .21	0.01 .23	0.01 .19
x health	0.28 0.29	0.1 0.012	0.27 0.326	0.02 .001	0.1 0.021	0.06 .001	0.1 0.033	0.02 .001	0.07 0.007	0.4 0.243	0.07 0.005	0.06 0.054	0.01 .001	0.02 .001	0.03 .001
Age	0.06 0.06	-0.02 0.07	0.00 0.00	0.02 0.02	0.02 0.02	-0.03 -0.03	-0.03 0.04	-0.03 -0.05	0.04 0.06	-0.05 0.06	-0.05 0.06	-0.05 -0.05	-0.03 -0.03	-0.03 -0.03	-0.03 -0.03
Random Effects															
τ_{00}	1.57	0.94	2.14	0.67	0.80	0.71	1.07	0.53	0.59	0.55	0.58	0.81	0.57	0.64	0.62
τ_{01}	-0.45	-0.28	-0.71	-0.05	-0.12	-0.09	-0.21	-0.02	0.00	0.02	-0.01	-0.09	0.01	-0.04	-0.02
τ_{11}	0.20	0.32	0.34	0.03	0.13	0.09	0.12	0.01	0.03	0.00	0.05	0.05	0.00	0.04	0.04
σ^2	0.25	0.25	0.28	0.36	0.25	0.30	0.23	0.35	0.32	0.30	0.30	0.15	0.43	0.26	0.26
N_{people}	516	1,276	713	16,055	488	2,621	1,033	6,409	1,644	496	1,965	1,535	33,620	6,836	3,819
N_{obs}	983	3,818	1,667	34,848	1,223	7,014	3,010	12,989	8,651	1,119	7,857	4,000	74,048	16,530	8,419
LL	-1174	-4254	-1981	-43773	-1442	-8264	-3288	-16132	-9488	-1332	-8699	-3908	-95676	-19377	-9926

^a LL = Log Likelihood; Age = age (centered at 60)

Health, Plot (Neuroticism).

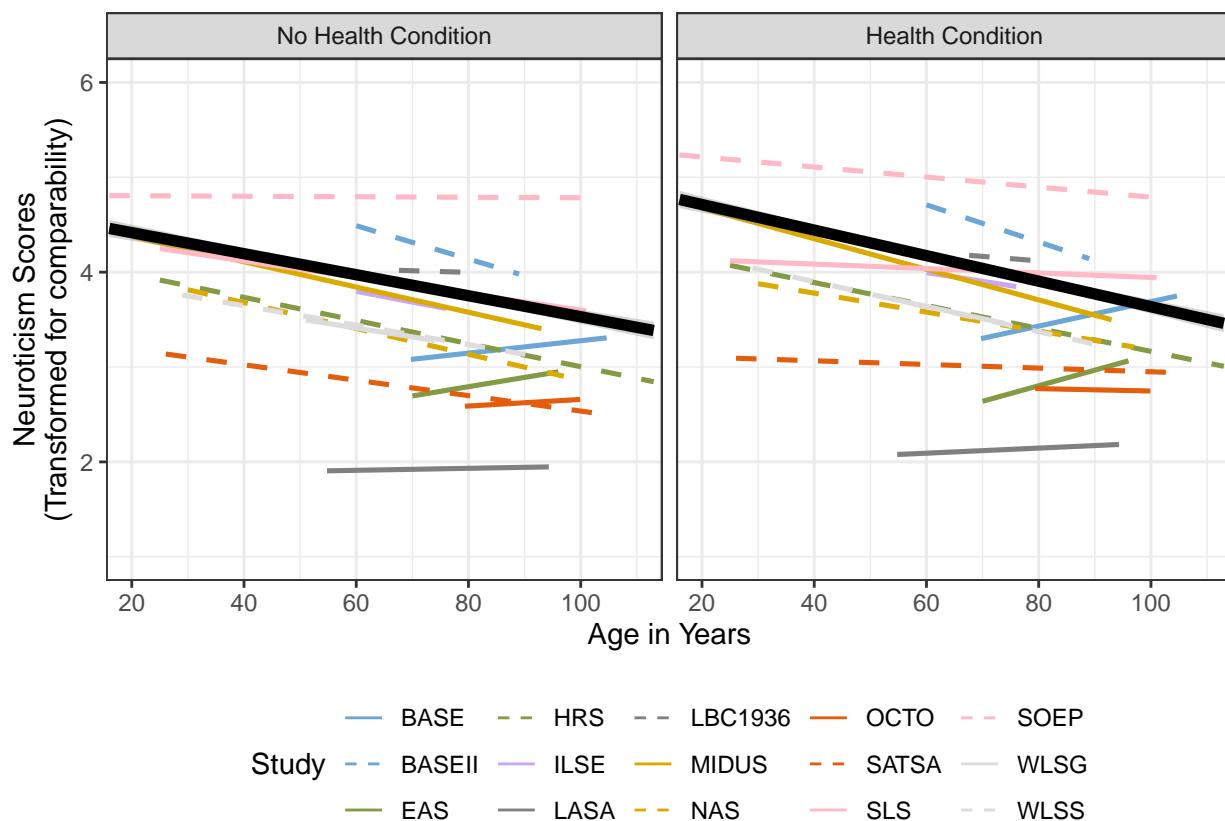


Figure S16: Health, Plot (Neuroticism). Linear Trajectories of Neuroticism, moderated by health. Black line indicates average trajectory weighted by N. At the individual study level, few showed evidence that having a health condition was associated with greater declines in neuroticism, and the meta-analytic average was not significant ($p = .76$).

Health, Plot, unweighted (Neuroticism)

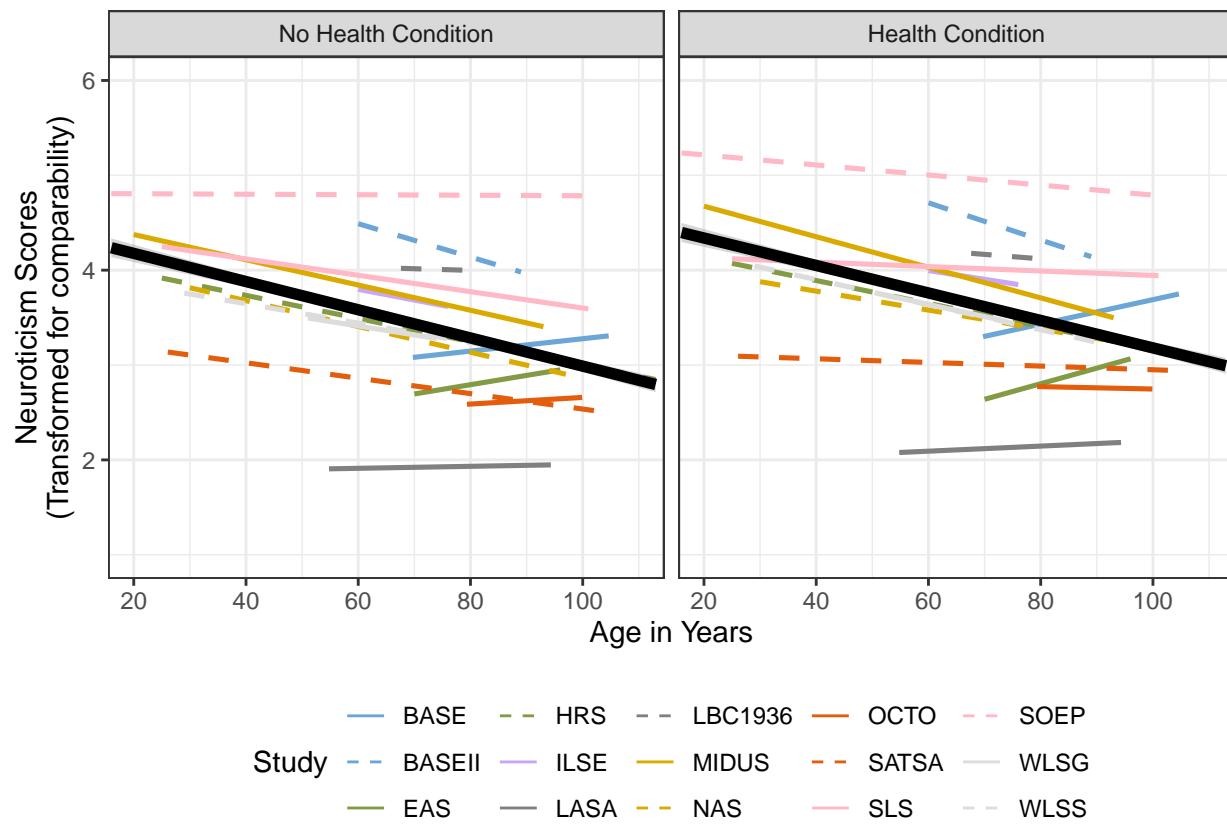


Figure S17: Health, Plot, unweighted (Neuroticism)

Health, Meta Analysis (Neuroticism)

```
##  
## Random-Effects Model (k = 15; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##  21.7186 -43.4373 -39.4373 -38.1592 -38.3464  
##  
## tau^2 (estimated amount of total heterogeneity): 0.0011 (SE = 0.0007)  
## tau (square root of estimated tau^2 value):       0.0325  
## I^2 (total heterogeneity / total variability):   70.77%  
## H^2 (total variability / sampling variability):  3.42  
##  
## Test for Heterogeneity:  
## Q(df = 14) = 39.4627, p-val = 0.0003  
##  
## Model Results:  
##  
## estimate      se     zval    pval    ci.lb    ci.ub  
## -0.0038  0.0123 -0.3112  0.7557 -0.0279  0.0202  
##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 15; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##  21.5226 -43.0452 -37.0452 -35.3503 -34.3785  
##  
## tau^2 (estimated amount of residual heterogeneity):      0.0005 (SE = 0.0004)  
## tau (square root of estimated tau^2 value):            0.0216  
## I^2 (residual heterogeneity / unaccounted variability): 48.15%  
## H^2 (unaccounted variability / sampling variability):  1.93  
## R^2 (amount of heterogeneity accounted for):          55.69%  
##  
## Test for Residual Heterogeneity:  
## QE(df = 13) = 19.9315, p-val = 0.0969  
##  
## Test of Moderators (coefficient 2):  
## QM(df = 1) = 5.1769, p-val = 0.0229  
##  
## Model Results:  
##  
##           estimate      se     zval    pval    ci.lb    ci.ub  
## intrcpt  -0.1437  0.0600 -2.3948  0.0166 -0.2613 -0.0261 *  
## age       0.0024  0.0011  2.2753  0.0229  0.0003  0.0045 *  
##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 15; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc
```

```

## 14.0913 -28.1825 -14.1825 -12.8019 97.8175
##
## tau^2 (estimated amount of residual heterogeneity): 0.0006 (SE = 0.0007)
## tau (square root of estimated tau^2 value): 0.0254
## I^2 (residual heterogeneity / unaccounted variability): 48.76%
## H^2 (unaccounted variability / sampling variability): 1.95
## R^2 (amount of heterogeneity accounted for): 38.91%
##
## Test for Residual Heterogeneity:
## QE(df = 9) = 14.1714, p-val = 0.1164
##
## Test of Moderators (coefficients 2:6):
## QM(df = 5) = 6.9352, p-val = 0.2255
##
## Model Results:
##
##          estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt -0.0321  0.0214 -1.4995  0.1337 -0.0740  0.0098
## countryGermany -0.0047  0.0319 -0.1479  0.8824 -0.0672  0.0578
## countryNetherlands 0.0484  0.0484  1.0001  0.3173 -0.0464  0.1431
## countrySweden 0.0876  0.0447  1.9604  0.0500  0.0000  0.1752 *
## countryU.S. 0.0415  0.0268  1.5461  0.1221 -0.0111  0.0941
## countryUK 0.0025  0.0675  0.0374  0.9702 -0.1297  0.1347
##
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Mixed-Effects Model (k = 15; tau^2 estimator: REML)
##
## logLik deviance      AIC      BIC      AICC
## 10.8963 -21.7925 -1.7925 -3.8749 218.2075
##
## tau^2 (estimated amount of residual heterogeneity): 0.0001 (SE = 0.0003)
## tau (square root of estimated tau^2 value): 0.0075
## I^2 (residual heterogeneity / unaccounted variability): 8.44%
## H^2 (unaccounted variability / sampling variability): 1.09
## R^2 (amount of heterogeneity accounted for): 94.68%
##
## Test for Residual Heterogeneity:
## QE(df = 6) = 3.3751, p-val = 0.7605
##
## Test of Moderators (coefficients 2:9):
## QM(df = 8) = 28.4555, p-val = 0.0004
##
## Model Results:
##
##          estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt -0.0324  0.0126 -2.5779  0.0099 -0.0570
## scaleBFI-S -0.0175  0.0164 -1.0709  0.2842 -0.0496
## scaleDPQ 0.0487  0.0381  1.2782  0.2012 -0.0260
## scaleEPI-Q 0.0654  0.0345  1.8960  0.0580 -0.0022
## scaleEPQ (NE) and NEO-PI (O) 0.0944  0.0347  2.7196  0.0065  0.0264
## scaleIPIP 0.0203  0.0550  0.3690  0.7121 -0.0875

```

```

## scaleMIDI          0.0172  0.0165  1.0430  0.2970 -0.0151
## scaleNEO-FFI      0.0674  0.0632  1.0665  0.2862 -0.0565
## scaleNEO-PI-R     0.0953  0.0315  3.0215  0.0025  0.0335
##
## ci.ub
## intrcpt          -0.0078  **
## scaleBFI-S        0.0145
## scaleDPQ           0.1233
## scaleEPI-Q         0.1330  .
## scaleEPQ (NE) and NEO-PI (O) 0.1624  **
## scaleIPIP          0.1281
## scaleMIDI          0.0496
## scaleNEO-FFI       0.1913
## scaleNEO-PI-R      0.1572  **
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

##
## Mixed-Effects Model (k = 15; tau^2 estimator: REML)
##
##   logLik  deviance      AIC      BIC      AICc
## 21.5933 -43.1866 -37.1866 -35.4917 -34.5199
##
## tau^2 (estimated amount of residual heterogeneity): 0.0007 (SE = 0.0006)
## tau (square root of estimated tau^2 value): 0.0270
## I^2 (residual heterogeneity / unaccounted variability): 63.08%
## H^2 (unaccounted variability / sampling variability): 2.71
## R^2 (amount of heterogeneity accounted for): 30.93%
##
## Test for Residual Heterogeneity:
## QE(df = 13) = 33.8715, p-val = 0.0013
##
## Test of Moderators (coefficient 2):
## QM(df = 1) = 3.7104, p-val = 0.0541
##
## Model Results:
##
##   estimate      se    zval   pval   ci.lb   ci.ub
## intrcpt -0.0443  0.0226 -1.9563  0.0504 -0.0887  0.0001 .
## mo       0.0090  0.0047  1.9262  0.0541 -0.0002  0.0181 .
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

```

Heart, Table (Neuroticism)

Table S12: Linear Trajectories of Neuroticism, Moderated by Heart Conditions

coef	BASE	BASEII	HRS	ILSE	LASA	LBC1936	MIDUS	OCTO	SLS	SOEP	WLSG	WLSS
Fixed Effects												
Intercept	3.16	4.55	3.56	3.90	1.96	4.08	3.89	2.75	3.99	4.82	3.46	3.50
Age	0.14 p < .001	0.05 p < .001	0.01 p < .001	0.05 p < .001	0.03 p < .001	0.06 p < .001	0.01 p < .001	0.21 p < .001	0.03 p < .001	0.01 p < .001	0.01 p < .001	0.02 p < .001
heart	0.09 p = .049	-0.16 p = .049	-0.12 p = .049	-0.10 p = .049	0.02 p = .049	-0.01 p = .049	-0.14 p = .049	-0.02 p = .049	-0.07 p = .049	0.00 p = .049	-0.10 p = .049	-0.11 p = .049
Age x heart	0.05 p = .483	0.05 p = .002	0.01 p < .001	0.04 p = .002	0.02 p < .001	0.03 p = .002	0.01 p < .001	0.08 p = .002	0.02 p = .002	0 p < .001	0.01 p < .001	0.01 p < .001
Random Effects												
τ_{00}	1.56	0.95	0.67	0.81	0.72	1.06	0.53	0.56	0.78	0.57	0.65	0.62
τ_{01}	-0.44	-0.29	-0.05	-0.12	-0.08	-0.21	-0.02	0.02	-0.07	0.01	-0.04	-0.02
σ^2	0.19 0.25 516	0.33 0.25 1,276	0.03 0.36 16,039	0.13 0.25 488	0.09 0.30 2,621	0.11 0.23 1,033	0.01 0.35 6,391	0.00 0.30 495	0.04 0.15 1,271	0.00 0.43 33,620	0.00 0.26 6,836	0.04 0.26 3,790
N_{people}												
N_{obs}	983	3,818	34,816	1,223	7,014	3,010	12,953	1,117	3,185	74,048	16,530	8,365
LL	-1174	-4257	-43716	-1443	-8276	-3289	-16106	-1330	-3118	-95740	-19414	-9872

^a LL = Log Likelihood; Age = age (centered at 60)

Heart, Plot (Neuroticism).

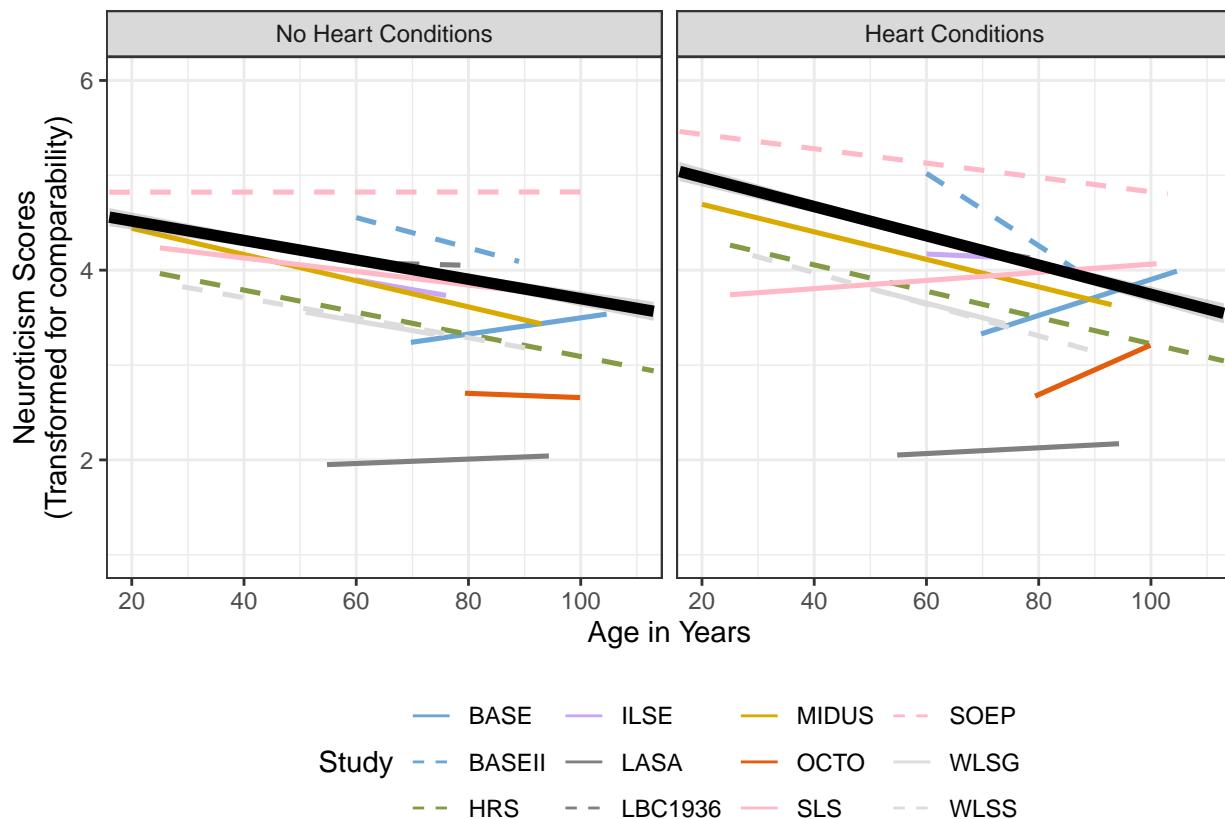


Figure S18: Heart, Plot (Neuroticism). Linear Trajectories of Neuroticism, moderated by heart conditions. Black line indicates average trajectory weighted by N. At the individual study level, some showed evidence that having a heart condition was associated with greater declines in neuroticism, and the meta-analytic average was not significant ($p = .30$).

Heart, Plot, unweighted (Neuroticism)

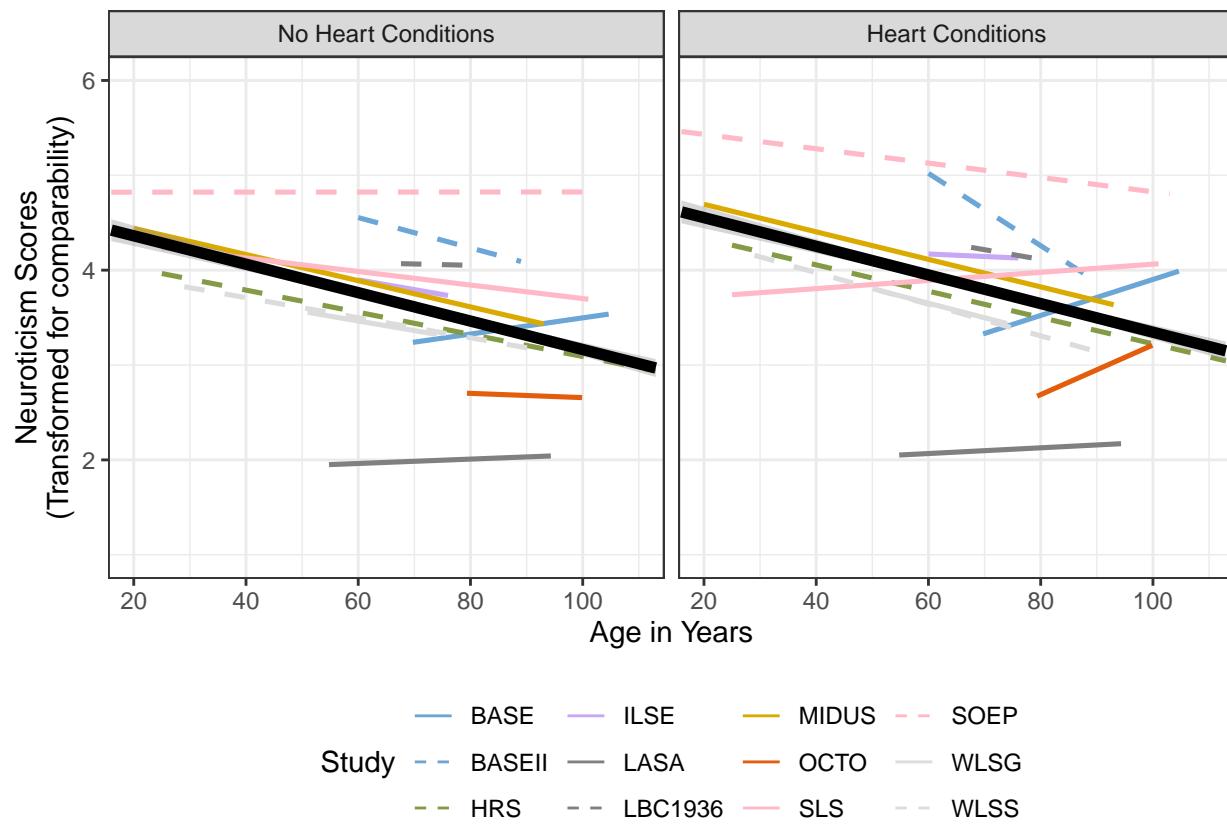


Figure S19: Heart, Plot, unweighted (Neuroticism)

Heart, Meta Analysis (Neuroticism)

```
##  
## Random-Effects Model (k = 12; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##  10.4797 -20.9595 -16.9595 -16.1637 -15.4595  
##  
## tau^2 (estimated amount of total heterogeneity): 0.0025 (SE = 0.0018)  
## tau (square root of estimated tau^2 value):       0.0504  
## I^2 (total heterogeneity / total variability):   74.41%  
## H^2 (total variability / sampling variability): 3.91  
##  
## Test for Heterogeneity:  
## Q(df = 11) = 35.1185, p-val = 0.0002  
##  
## Model Results:  
##  
## estimate      se     zval    pval    ci.lb    ci.ub  
## -0.0212  0.0205 -1.0356  0.3004 -0.0613  0.0189  
##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 12; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##  9.6920 -19.3840 -13.3840 -12.4762 -9.3840  
##  
## tau^2 (estimated amount of residual heterogeneity):      0.0024 (SE = 0.0019)  
## tau (square root of estimated tau^2 value):            0.0485  
## I^2 (residual heterogeneity / unaccounted variability): 67.68%  
## H^2 (unaccounted variability / sampling variability): 3.09  
## R^2 (amount of heterogeneity accounted for):        7.36%  
##  
## Test for Residual Heterogeneity:  
## QE(df = 10) = 28.4619, p-val = 0.0015  
##  
## Test of Moderators (coefficient 2):  
## QM(df = 1) = 1.6435, p-val = 0.1998  
##  
## Model Results:  
##  
##          estimate      se     zval    pval    ci.lb    ci.ub  
## intrcpt  -0.1669  0.1152 -1.4485  0.1475 -0.3926  0.0589  
## age       0.0025  0.0019  1.2820  0.1998 -0.0013  0.0063  
##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 12; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc
```

```

##    5.6759 -11.3517    2.6483    1.1906   114.6483
##
## tau^2 (estimated amount of residual heterogeneity):      0.0025 (SE = 0.0025)
## tau (square root of estimated tau^2 value):             0.0498
## I^2 (residual heterogeneity / unaccounted variability): 70.25%
## H^2 (unaccounted variability / sampling variability):   3.36
## R^2 (amount of heterogeneity accounted for):           2.56%
##
## Test for Residual Heterogeneity:
## QE(df = 6) = 15.6498, p-val = 0.0158
##
## Test of Moderators (coefficients 2:6):
## QM(df = 5) = 4.8787, p-val = 0.4309
##
## Model Results:
##
##              estimate     se     zval    pval    ci.lb    ci.ub
## intrcpt       -0.0563  0.0415 -1.3556  0.1752 -0.1377  0.0251
## countryGermany -0.0036  0.0608 -0.0594  0.9526 -0.1227  0.1155
## countryNetherlands  0.0634  0.0796  0.7965  0.4257 -0.0926  0.2193
## countrySweden    0.3404  0.3057  1.1135  0.2655 -0.2588  0.9395
## countryU.S.        0.0755  0.0524  1.4404  0.1497 -0.0272  0.1782
## countryUK         -0.0321  0.0952 -0.3373  0.7359 -0.2187  0.1545
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Mixed-Effects Model (k = 12; tau^2 estimator: REML)
##
## logLik deviance      AIC      BIC      AICc
## 7.0371 -14.0741  3.9259 -1.5975 183.9259
##
## tau^2 (estimated amount of residual heterogeneity):      0 (SE = 0.0004)
## tau (square root of estimated tau^2 value):                 0
## I^2 (residual heterogeneity / unaccounted variability): 0.00%
## H^2 (unaccounted variability / sampling variability):   1.00
## R^2 (amount of heterogeneity accounted for):            100.00%
##
## Test for Residual Heterogeneity:
## QE(df = 4) = 1.5472, p-val = 0.8183
##
## Test of Moderators (coefficients 2:8):
## QM(df = 7) = 33.5714, p-val < .0001
##
## Model Results:
##
##              estimate     se     zval    pval    ci.lb    ci.ub
## intrcpt       -0.0559  0.0219 -2.5495  0.0108 -0.0989 -0.0129 *
## scaleBFI-S     -0.0214  0.0257 -0.8308  0.4061 -0.0718  0.0291
## scaleDPQ        0.0630  0.0511  1.2333  0.2174 -0.0371  0.1631
## scaleEPI-Q      0.3400  0.2995  1.1350  0.2564 -0.2471  0.9270
## scaleIPIP      -0.0325  0.0731 -0.4448  0.6564 -0.1758  0.1107
## scaleMIDI       0.0398  0.0249  1.5967  0.1103 -0.0091  0.0886

```

```

## scaleNEO-FFI      0.1560  0.1020   1.5296  0.1261 -0.0439  0.3559
## scaleNEO-PI-R     0.1701  0.0434   3.9164 <.0001   0.0850  0.2553 ***

##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

##
## Mixed-Effects Model (k = 12; tau^2 estimator: REML)
##
##   logLik  deviance      AIC      BIC      AICc
##   9.2388 -18.4776 -12.4776 -11.5699 -8.4776

##
## tau^2 (estimated amount of residual heterogeneity): 0.0029 (SE = 0.0022)
## tau (square root of estimated tau^2 value):          0.0543
## I^2 (residual heterogeneity / unaccounted variability): 72.44%
## H^2 (unaccounted variability / sampling variability): 3.63
## R^2 (amount of heterogeneity accounted for):        0.00%
##

## Test for Residual Heterogeneity:
## QE(df = 10) = 33.3056, p-val = 0.0002
##
## Test of Moderators (coefficient 2):
## QM(df = 1) = 0.6845, p-val = 0.4080
##
## Model Results:
##
##           estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt -0.1325  0.1367 -0.9693  0.3324 -0.4004  0.1354
## mo       0.0319  0.0386  0.8274  0.4080 -0.0437  0.1075

##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

```

Lung, Table (Neuroticism)

Table S13: Linear Trajectories of Neuroticism, Moderated by Lung Conditions

coef	BASE	BASEII	EAS	HRS	ILSE	LASA	MIDUS	OCTO	SATSA
Fixed Effects									
Intercept	3.17	4.58	2.50	3.56	3.92	1.96	3.89	2.85	2.97
	0.14	0.05	0.13	0.01	0.06	0.03	0.01	0.21	0.02
	p < .001	p < .001	p < .001	p < .001	p < .001	p < .001	p < .001	p < .001	p < .001
Age	0.10	-0.17	0.14	-0.11	-0.10	0.03	-0.13	-0.07	-0.02
	0.05	0.05	0.06	0.01	0.05	0.02	0.01	0.08	0.01
	p = 0.028	p < .001	p = 0.009	p < .001	p = 0.019	p = 0.08	p < .001	p = 0.192	p = 0.026
lung	-0.13	0.31	0.24	0.39	0.12	0.21	0.19	-1.46	0.24
	0.27	0.21	0.51	0.04	0.12	0.1	0.03	0.61	0.06
	p = 0.316	p = 0.064	p = 0.317	p < .001	p = 0.149	p = 0.019	p < .001	p = 0.008	p < .001
Age x lung	0.06	-0.13	-0.01	-0.07	-0.03	0.01	-0.03	0.66	-0.04
	0.1	0.19	0.25	0.02	0.09	0.06	0.02	0.24	0.03
	p = 0.27	p = 0.255	p = 0.479	p < .001	p = 0.384	p = 0.46	p = 0.049	p = 0.003	p = 0.12
Random Effects									
τ_{00}	1.56	0.96	2.18	0.67	0.78	0.72	0.53	0.61	0.56
τ_{01}	-0.44	-0.29	-0.73	-0.05	-0.16	-0.08	-0.02	0.01	-0.01
τ_{11}	0.20	0.34	0.36	0.03	0.14	0.09	0.01	0.00	0.05
σ^2	0.25	0.25	0.28	0.36	0.25	0.30	0.35	0.29	0.29
N_{people}	516	1,276	702	16,038	404	2,621	6,219	495	1,870
N_{obs}	983	3,818	1,632	34,817	1,006	7,014	12,709	1,118	7,555
LL	-1178	-4260	-1940	-43693	-1173	-8272	-15759	-1327	-8325

^a LL = Log Likelihood; Age = age (centered at 60)

Lung, Plot (Neuroticism).

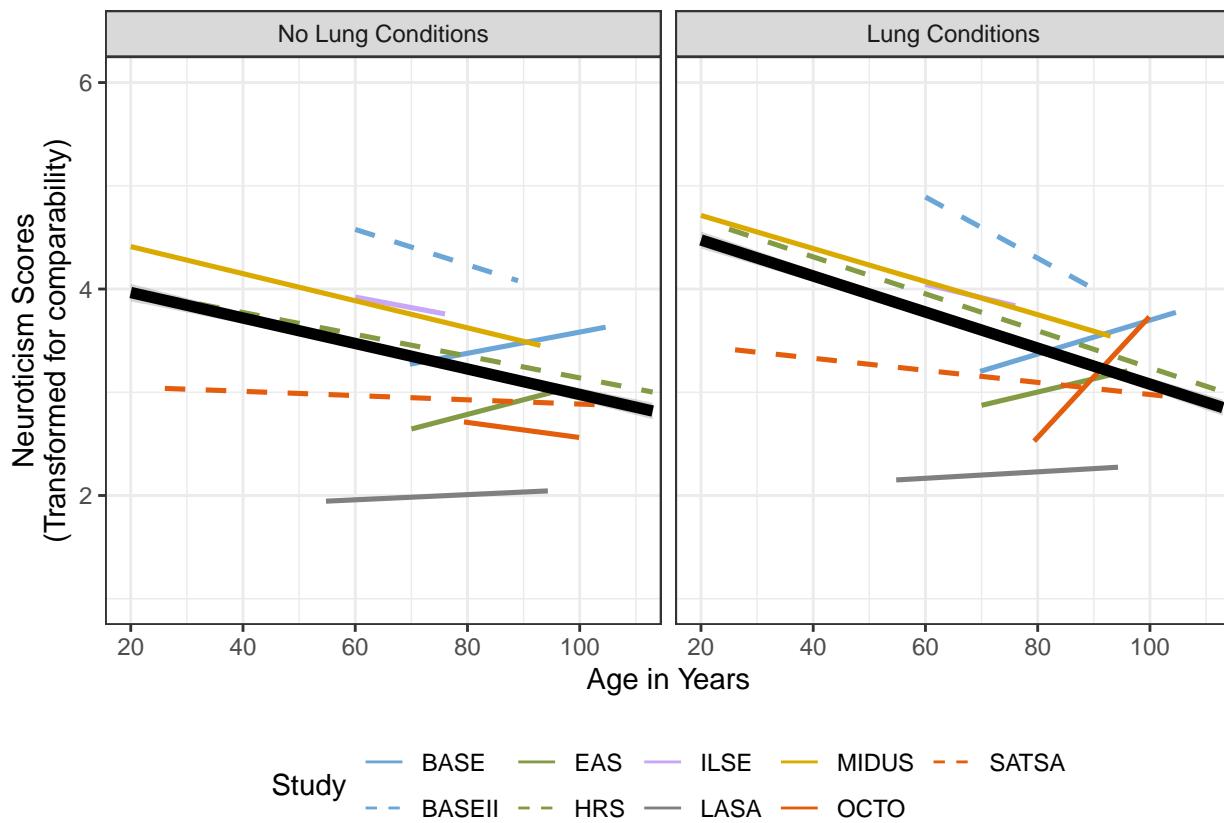


Figure S20: Lung, Plot (Neuroticism). Linear Trajectories of Neuroticism, moderated by lung conditions. Black line indicates average trajectory weighted by N. At the individual study level, some showed evidence that having a lung condition was associated with greater declines in neuroticism, and the meta-analytic average was significant ($p = .007$).

Lung, Plot, unweighted (Neuroticism)

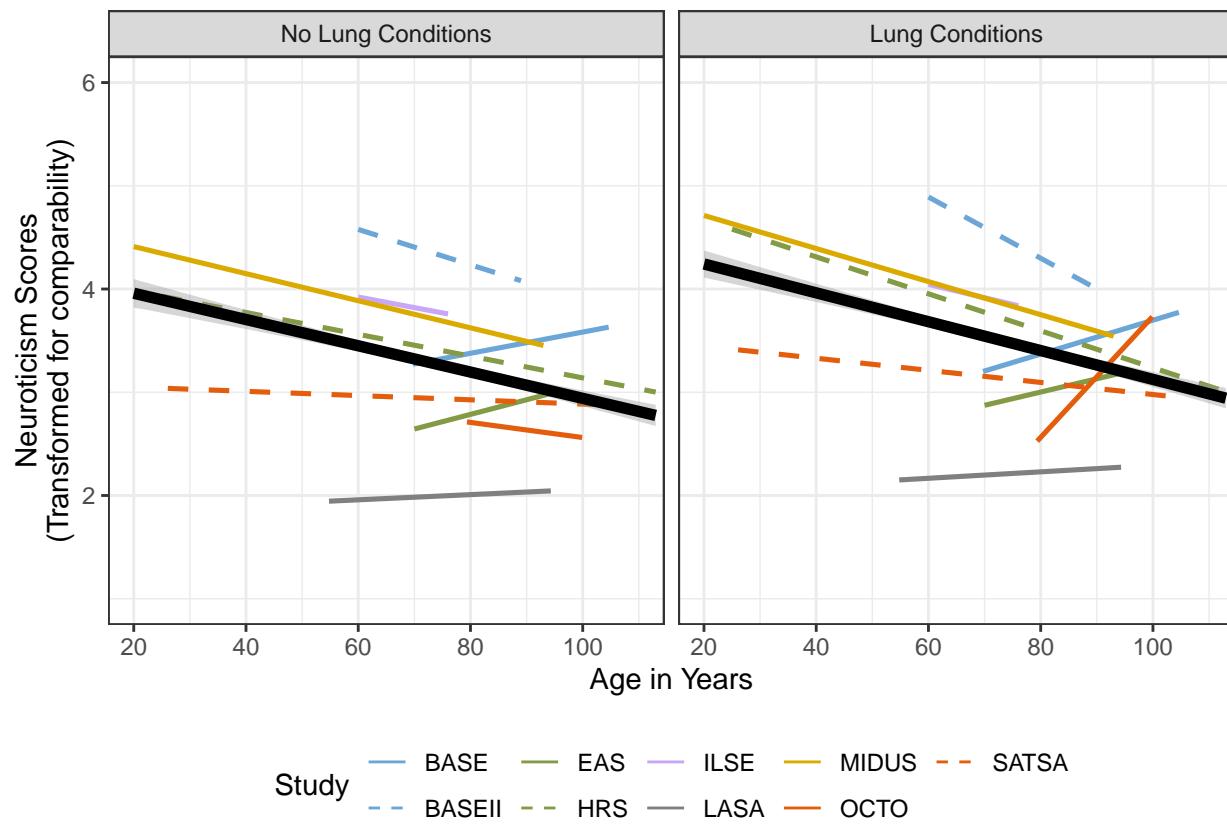


Figure S21: Lung, Plot, unweighted (Neuroticism)

Lung, Meta Analysis (Neuroticism)

```
##  
## Random-Effects Model (k = 9; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##    6.2992 -12.5983 -8.5983 -8.4394 -6.1983  
##  
## tau^2 (estimated amount of total heterogeneity): 0.0002 (SE = 0.0007)  
## tau (square root of estimated tau^2 value):       0.0127  
## I^2 (total heterogeneity / total variability):   8.12%  
## H^2 (total variability / sampling variability): 1.09  
##  
## Test for Heterogeneity:  
## Q(df = 8) = 12.6394, p-val = 0.1249  
##  
## Model Results:  
##  
## estimate      se     zval    pval    ci.lb    ci.ub  
## -0.0381  0.0142 -2.6924  0.0071 -0.0659 -0.0104  **  
##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 9; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##    4.3631 -8.7262 -2.7262 -2.8884  5.2738  
##  
## tau^2 (estimated amount of residual heterogeneity):      0.0014 (SE = 0.0024)  
## tau (square root of estimated tau^2 value):            0.0370  
## I^2 (residual heterogeneity / unaccounted variability): 30.48%  
## H^2 (unaccounted variability / sampling variability):  1.44  
## R^2 (amount of heterogeneity accounted for):          0.00%  
##  
## Test for Residual Heterogeneity:  
## QE(df = 7) = 12.4696, p-val = 0.0861  
##  
## Test of Moderators (coefficient 2):  
## QM(df = 1) = 0.4381, p-val = 0.5080  
##  
## Model Results:  
##  
##           estimate      se     zval    pval    ci.lb    ci.ub  
## intrcpt  -0.1145  0.1287 -0.8894  0.3738 -0.3667  0.1378  
## age       0.0014  0.0021  0.6619  0.5080 -0.0027  0.0055  
##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 9; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc
```

```

##    1.4138   -2.8275    7.1725    5.2197   67.1725
##
## tau^2 (estimated amount of residual heterogeneity):      0.0007 (SE = 0.0016)
## tau (square root of estimated tau^2 value):             0.0269
## I^2 (residual heterogeneity / unaccounted variability): 27.54%
## H^2 (unaccounted variability / sampling variability):   1.38
## R^2 (amount of heterogeneity accounted for):           0.00%
##
## Test for Residual Heterogeneity:
## QE(df = 5) = 11.3612, p-val = 0.0447
##
## Test of Moderators (coefficients 2:4):
## QM(df = 3) = 1.1377, p-val = 0.7680
##
## Model Results:
##
##          estimate     se     zval    pval    ci.lb    ci.ub
## intrcpt      -0.0026  0.0659  -0.0400  0.9681  -0.1318  0.1266
## countryNetherlands  0.0087  0.0932   0.0931  0.9258  -0.1740  0.1914
## countrySweden     -0.0155  0.0779  -0.1986  0.8426  -0.1681  0.1372
## countryU.S.        -0.0462  0.0700  -0.6599  0.5093  -0.1834  0.0910
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Mixed-Effects Model (k = 9; tau^2 estimator: REML)
##
##          logLik  deviance      AIC      BIC      AICc
##          3.2389   -6.4777  9.5223  -0.9325 153.5223
##
## tau^2 (estimated amount of residual heterogeneity):      0.0005 (SE = 0.0013)
## tau (square root of estimated tau^2 value):             0.0229
## I^2 (residual heterogeneity / unaccounted variability): 39.86%
## H^2 (unaccounted variability / sampling variability):   1.66
## R^2 (amount of heterogeneity accounted for):           0.00%
##
## Test for Residual Heterogeneity:
## QE(df = 2) = 2.8213, p-val = 0.2440
##
## Test of Moderators (coefficients 2:7):
## QM(df = 6) = 9.5901, p-val = 0.1430
##
## Model Results:
##
##          estimate     se     zval    pval    ci.lb    ci.ub
## intrcpt      -0.1253  0.1913  -0.6552  0.5124  -0.5002
## scaleDPQ       0.1314  0.2018   0.6509  0.5151  -0.2642
## scaleEPI-Q      0.7854  0.3108   2.5268  0.0115  0.1762
## scaleEPQ (NE) and NEO-PI (O)  0.0873  0.1953   0.4468  0.6550  -0.2956
## scaleIPIP       0.1120  0.3141   0.3567  0.7213  -0.5036
## scaleMIDI        0.0766  0.1925   0.3980  0.6907  -0.3006
## scaleNEO-FFI      0.1390  0.2035   0.6833  0.4944  -0.2598
## ci.ub

```

```

## intrcpt          0.2496
## scaleDPQ         0.5269
## scaleEPI-Q       1.3945  *
## scaleEPQ (NE) and NEO-PI (O) 0.4701
## scaleIPIP        0.7277
## scaleMIDI         0.4538
## scaleNEO-FFI      0.5379
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Mixed-Effects Model (k = 9; tau^2 estimator: REML)
##
##   logLik  deviance      AIC      BIC      AICc
##   5.0430 -10.0860 -4.0860 -4.2483  3.9140
##
## tau^2 (estimated amount of residual heterogeneity): 0.0004 (SE = 0.0010)
## tau (square root of estimated tau^2 value):        0.0192
## I^2 (residual heterogeneity / unaccounted variability): 14.96%
## H^2 (unaccounted variability / sampling variability): 1.18
## R^2 (amount of heterogeneity accounted for):        0.00%
##
## Test for Residual Heterogeneity:
## QE(df = 7) = 12.4754, p-val = 0.0860
##
## Test of Moderators (coefficient 2):
## QM(df = 1) = 0.1409, p-val = 0.7073
##
## Model Results:
##
##           estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt   -0.0505  0.0400  -1.2624  0.2068  -0.1288  0.0279
## mo        0.0035  0.0093   0.3754  0.7073  -0.0148  0.0218
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

```

Cancer, Table (Neuroticism)

Table S14: Linear Trajectories of Neuroticism, Moderated by Cancer

coef	BASEII	EAS	HRS	LASA	LBC1936	MIDUS	OCTO	WLSS
Fixed Effects								
Intercept	4.58	2.57	3.59	1.95	4.15	3.91	2.61	3.51
	0.05	0.14	0.01	0.03	0.05	0.01	0.21	0.01
	p < .001							
Age	-0.17	0.11	-0.11	0.03	-0.04	-0.14	0.03	-0.11
	0.05	0.06	0.01	0.02	0.03	0.01	0.08	0.01
	p < .001	p = 0.041	p < .001	p = 0.061	p = 0.092	p < .001	p = 0.352	p < .001
cancer	0.17	-0.31	0.04	0.35	-0.12	0.14	0.62	0.02
	0.16	0.33	0.03	0.11	0.16	0.04	0.6	0.06
	p = 0.141	p = 0.176	p = 0.092	p < .001	p = 0.215	p < .001	p = 0.151	p = 0.333
Age x cancer	-0.07	0.18	0.01	-0.02	0.07	0.00	-0.22	0.02
	0.15	0.16	0.02	0.07	0.1	0.02	0.24	0.04
	p = 0.32	p = 0.129	p = 0.346	p = 0.366	p = 0.248	p = 0.447	p = 0.179	p = 0.256
Random Effects								
τ_{00}	0.95	2.16	0.68	0.72	1.08	0.54	0.57	0.63
τ_{01}	-0.29	-0.72	-0.05	-0.09	-0.22	-0.02	0.02	-0.02
τ_{11}	0.33	0.35	0.03	0.10	0.12	0.00	0.00	0.04
σ^2	0.25	0.28	0.36	0.30	0.23	0.35	0.30	0.25
N_{people}	1,276	702	16,024	2,620	1,033	6,404	496	3,784
N_{obs}	3,818	1,634	34,785	7,013	3,010	12,981	1,119	8,348
LL	-4261	-1942	-43716	-8259	-3291	-16158	-1333	-9854

^a LL = Log Likelihood; Age = Age (centered at 60)

Cancer, Plot (Neuroticism).

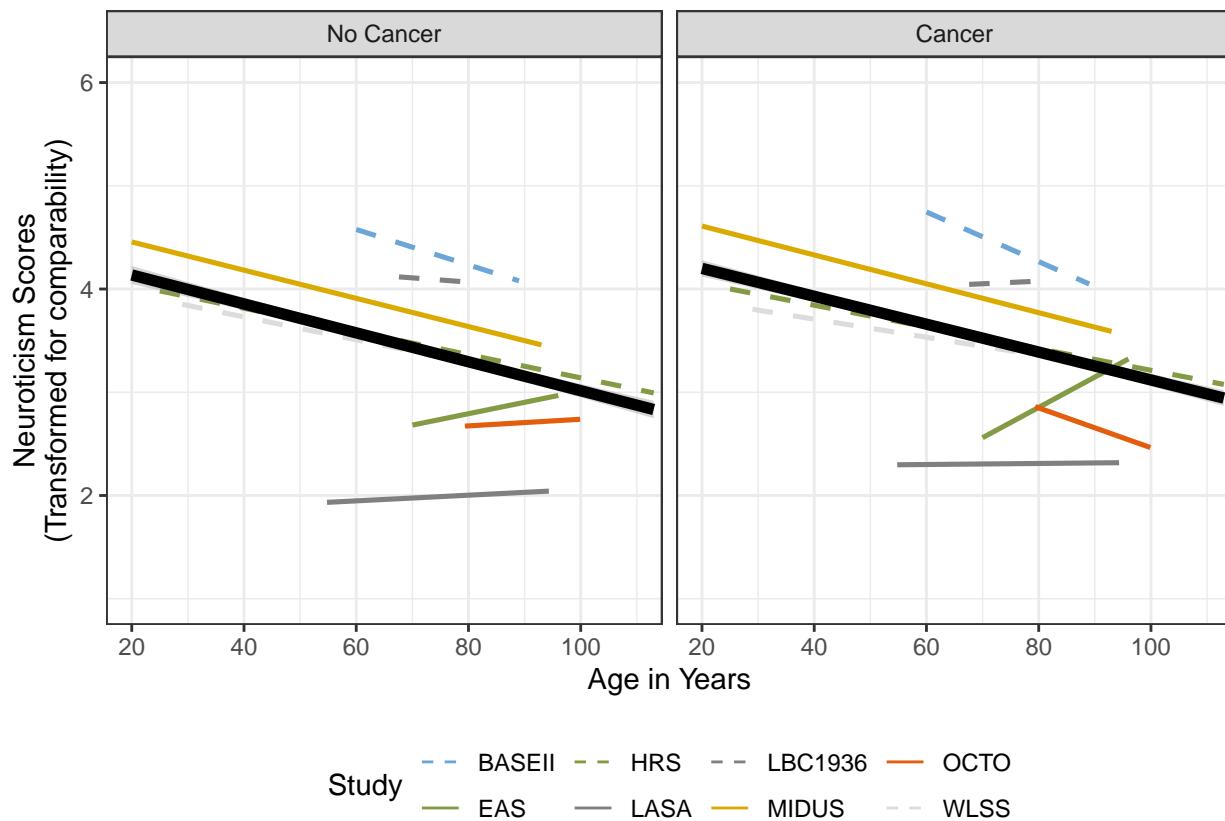


Figure S22: Cancer, Plot (Neuroticism). Linear Trajectories of Neuroticism, moderated by cancer. Black line indicates average trajectory weighted by N. At the individual study level, none showed evidence that having cancer was associated with greater declines in neuroticism, and the meta-analytic average was not significant ($p = .63$).

Cancer, Plot, unweighted (Neuroticism)

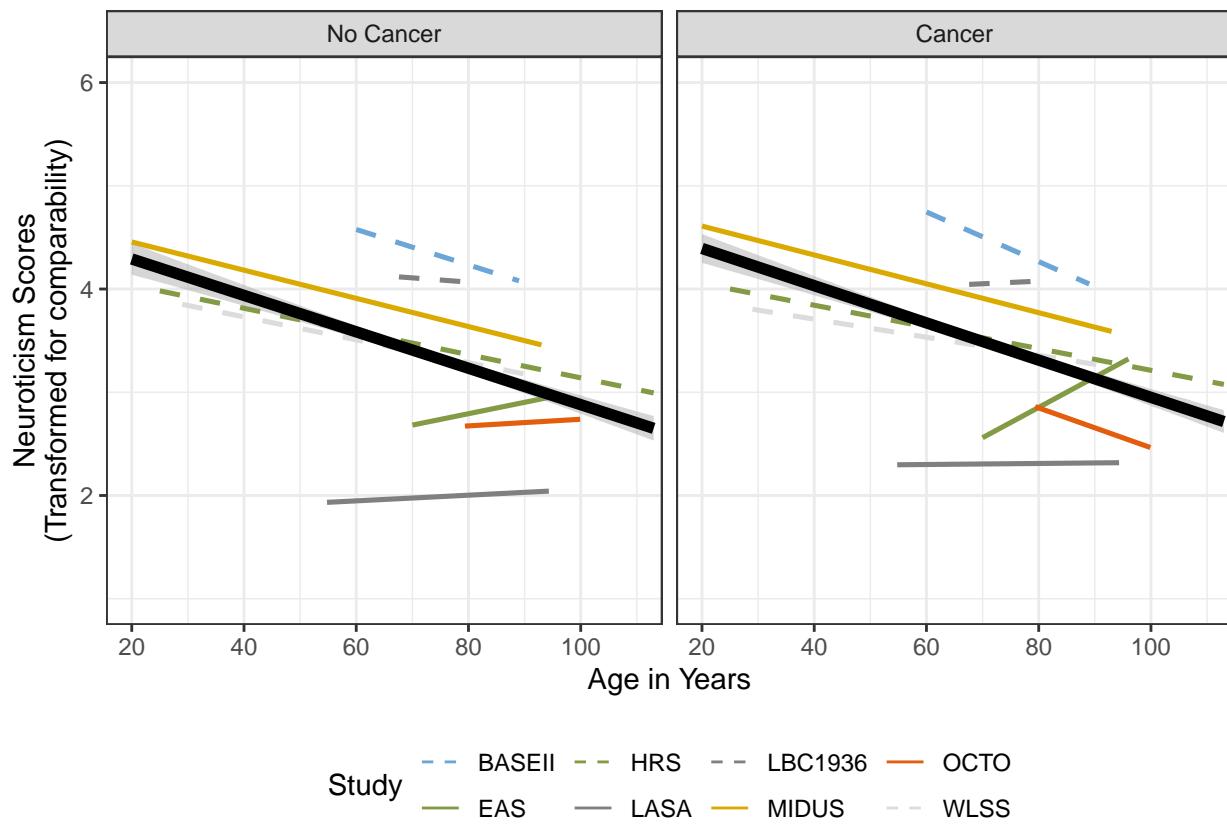


Figure S23: Cancer, Plot, unweighted (Neuroticism)

Cancer, Meta Analysis (Neuroticism)

```
##  
## Random-Effects Model (k = 8; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##    9.8614 -19.7228 -15.7228 -15.8310 -12.7228  
##  
## tau^2 (estimated amount of total heterogeneity): 0 (SE = 0.0006)  
## tau (square root of estimated tau^2 value): 0  
## I^2 (total heterogeneity / total variability): 0.00%  
## H^2 (total variability / sampling variability): 1.00  
##  
## Test for Heterogeneity:  
## Q(df = 7) = 3.3076, p-val = 0.8552  
##  
## Model Results:  
##  
## estimate      se     zval     pval    ci.lb    ci.ub  
## 0.0062  0.0130  0.4752  0.6346 -0.0193  0.0317  
##  
## ---  
## Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 8; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##    7.5898 -15.1797 -9.1797 -9.8044  2.8203  
##  
## tau^2 (estimated amount of residual heterogeneity): 0.0000 (SE = 0.0012)  
## tau (square root of estimated tau^2 value): 0.0018  
## I^2 (residual heterogeneity / unaccounted variability): 0.10%  
## H^2 (unaccounted variability / sampling variability): 1.00  
## R^2 (amount of heterogeneity accounted for): 0.00%  
##  
## Test for Residual Heterogeneity:  
## QE(df = 6) = 3.2727, p-val = 0.7739  
##  
## Test of Moderators (coefficient 2):  
## QM(df = 1) = 0.0346, p-val = 0.8525  
##  
## Model Results:  
##  
##          estimate      se     zval     pval    ci.lb    ci.ub  
## intrcpt  -0.0084  0.0793 -0.1054  0.9161 -0.1637  0.1470  
## age       0.0002  0.0013  0.1860  0.8525 -0.0023  0.0028  
##  
## ---  
## Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 8; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc
```

```

##    3.3483   -6.6966    7.3034   -1.8446  119.3034
##
## tau^2 (estimated amount of residual heterogeneity):      0.0000 (SE = 0.0007)
## tau (square root of estimated tau^2 value):             0.0012
## I^2 (residual heterogeneity / unaccounted variability): 0.16%
## H^2 (unaccounted variability / sampling variability):  1.00
## R^2 (amount of heterogeneity accounted for):           0.00%
##
## Test for Residual Heterogeneity:
## QE(df = 2) = 1.3454, p-val = 0.5103
##
## Test of Moderators (coefficients 2:6):
## QM(df = 5) = 1.9617, p-val = 0.8544
##
## Model Results:
##
##          estimate     se     zval    pval    ci.lb    ci.ub
## intrcpt       0.0233  0.0355  0.6553  0.5123 -0.0463  0.0928
## countryGermany -0.0922  0.1517 -0.6076  0.5434 -0.3895  0.2051
## countryNetherlands -0.0457  0.0747 -0.6116  0.5408 -0.1922  0.1008
## countrySweden    -0.2482  0.2471 -1.0043  0.3152 -0.7325  0.2361
## countryU.S.        -0.0183  0.0384 -0.4779  0.6327 -0.0936  0.0569
## countryUK         0.0432  0.1039  0.4156  0.6777 -0.1604  0.2468
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Mixed-Effects Model (k = 8; tau^2 estimator: REML)
##
##      logLik  deviance      AIC      BIC      AICc
##      3.7642   -7.5285   6.4715  -2.6765  118.4715
##
## tau^2 (estimated amount of residual heterogeneity):      0 (SE = 0.0007)
## tau (square root of estimated tau^2 value):             0
## I^2 (residual heterogeneity / unaccounted variability): 0.00%
## H^2 (unaccounted variability / sampling variability):  1.00
## R^2 (amount of heterogeneity accounted for):           0.00%
##
## Test for Residual Heterogeneity:
## QE(df = 2) = 0.5010, p-val = 0.7784
##
## Test of Moderators (coefficients 2:6):
## QM(df = 5) = 2.8066, p-val = 0.7298
##
## Model Results:
##
##          estimate     se     zval    pval    ci.lb    ci.ub
## intrcpt       0.0233  0.0355  0.6557  0.5120 -0.0463  0.0928
## scaleBFI-S    -0.0922  0.1517 -0.6077  0.5434 -0.3894  0.2051
## scaleDPQ      -0.0457  0.0747 -0.6118  0.5407 -0.1921  0.1007
## scaleEPI-Q     -0.2482  0.2471 -1.0043  0.3152 -0.7325  0.2361
## scaleIPIP       0.0744  0.0908  0.8194  0.4125 -0.1035  0.2523
## scaleMIDI      -0.0198  0.0384 -0.5161  0.6058 -0.0950  0.0554

```

```

##
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Mixed-Effects Model (k = 8; tau^2 estimator: REML)
##
##   logLik  deviance      AIC      BIC      AICc
##   9.3131 -18.6262 -12.6262 -13.2509 -0.6262
##
##   tau^2 (estimated amount of residual heterogeneity):      0 (SE = 0.0006)
##   tau (square root of estimated tau^2 value):               0
##   I^2 (residual heterogeneity / unaccounted variability): 0.00%
##   H^2 (unaccounted variability / sampling variability):   1.00
##   R^2 (amount of heterogeneity accounted for):            0.00%
##
## Test for Residual Heterogeneity:
## QE(df = 6) = 2.3456, p-val = 0.8853
##
## Test of Moderators (coefficient 2):
## QM(df = 1) = 0.9620, p-val = 0.3267
##
## Model Results:
##
##           estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt   -0.0315  0.0405 -0.7764  0.4375 -0.1109  0.0480
## mo        0.0119  0.0122  0.9808  0.3267 -0.0119  0.0358
##
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

```

Diabetes, Table (Neuroticism)

Table S15: Table. Trajectories of Neuroticism, Moderated by Diabetes

coef	BASE	BASEII	EAS	HRS	ILSE	LASA	LBC1936	MIDUS	OCTO	SATSA	SLS	WLSS
Fixed Effects												
Intercept	3.07	4.59	2.51	3.57	3.91	1.96	4.12	3.91	2.61	2.99	3.99	3.51
Age	0.13 p < .001	0.05 p < .001	0.14 p < .001	0.01 p < .001	0.05 p < .001	0.03 p < .001	0.05 p < .001	0.01 p < .001	0.21 p < .001	0.02 p < .001	0.03 p < .001	0.01 p < .001
diabetes	0.13 p = 0.004	-0.19 0.014	0.14 0.06	-0.11 0.01	-0.10 0.04	0.03 0.02	-0.04 0.03	-0.13 0.01	0.04 0.08	-0.03 0.01	-0.06 0.01	-0.11 0.01
Age x diabetes	0.05 p = 0.30	0.05 0.01	0.06 0.06	0.01 0.13	0.04 0.05	0.02 0.35	0.02 0.14	0.03 0.17	0.08 1.21	0.01 0.51	0.01 0.18	0.01 0.08
Random Effects	0.32 p = 0.168	0.18 0.476	0.33 0.423	0.03 -0.01	0.15 p < .001	0.14 p =	0.18 p =	0.05 p < .001	0.84 p =	0.12 p < .001	0.12 p =	0.07 p =
τ_{00}	-0.06 0.12	-0.06 0.12	-0.01 -0.01	-0.03 -0.03	-0.02 -0.02	-0.06 -0.06	0.228 0.08	-0.06 -0.06	0.073 -0.54	-0.10 -0.10	0.065 0.07	0.104 -0.02
τ_{01}	0.12 0.222	0.16 0.222	0.16 0.483	0.02 0.039	0.13 0.431	0.08 0.235	0.12 0.245	0.03 0.031	0.33 0.047	0.07 0.078	0.06 0.102	0.05 p = 0.32
σ^2	0.20 0.25	0.33 0.25	0.34 0.28	0.03 0.36	0.14 0.25	0.09 0.30	0.12 0.23	0.00 0.35	0.00 0.30	0.05 0.29	0.05 0.15	0.05 0.25
N _{people}	516	1,276	702	16,042	487	2,621	1,033	6,253	496	1,919	1,494	3,780
N _{obs}	983	3,818	1,639	34,822	1,221	7,014	3,010	12,773	1,119	7,723	3,932	8,343
LL	-1177	-4260	-1950	-43766	-1440	-8273	-3288	-15859	-1332	-8525	-3831	-9847

^a LL = Log Likelihood; Age = age (centered at 60)

Diabetes, Plot (Neuroticism).

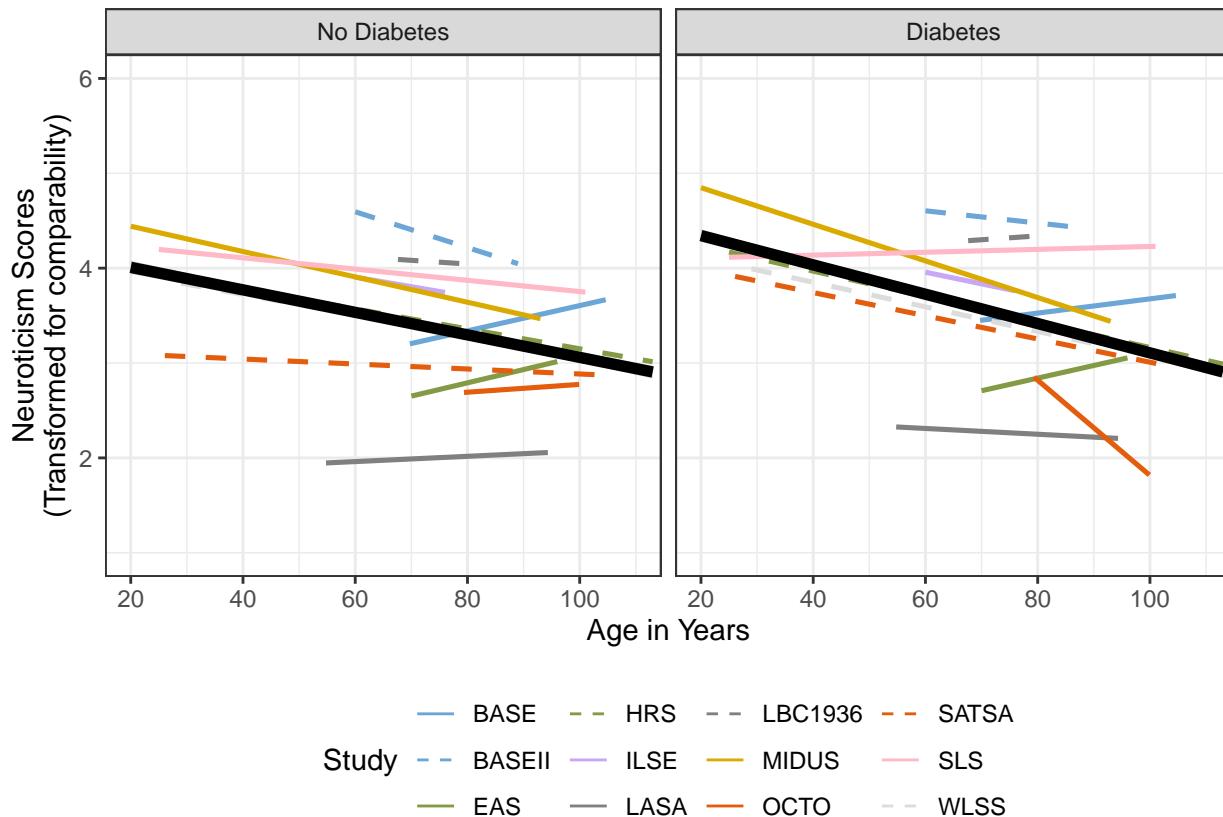


Figure S24: Diabetes, Plot (Neuroticism). Linear Trajectories of Neuroticism, moderated by diabetes. Black line indicates average trajectory weighted by N. At the individual study level, some showed evidence that having diabetes was associated with greater declines in neuroticism, and the meta-analytic average was not significant ($p = .02$).

Diabetes, Plot, unweighted (Neuroticism)

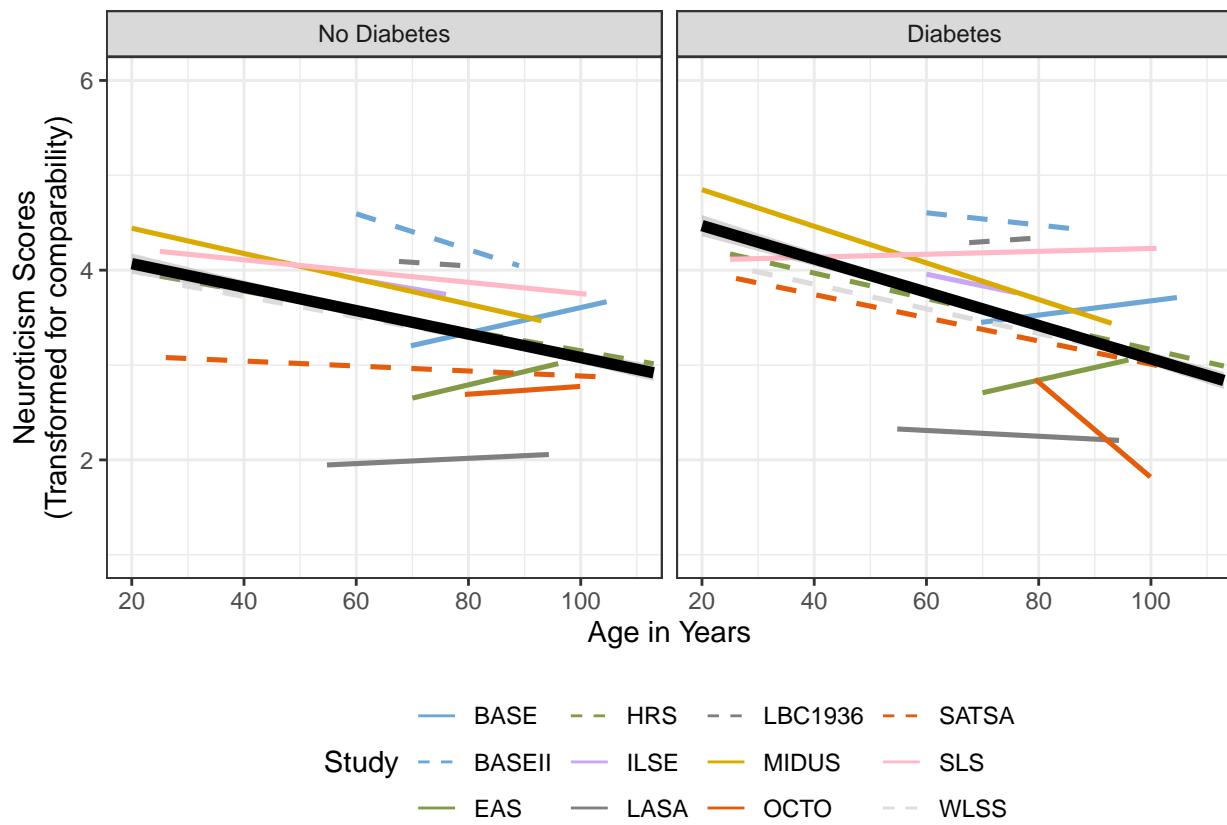


Figure S25: Diabetes, Plot, unweighted (Neuroticism)

Diabetes, Meta Analysis (Neuroticism)

```
##  
## Random-Effects Model (k = 12; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##  11.7842 -23.5684 -19.5684 -18.7726 -18.0684  
##  
## tau^2 (estimated amount of total heterogeneity): 0.0000 (SE = 0.0007)  
## tau (square root of estimated tau^2 value):       0.0013  
## I^2 (total heterogeneity / total variability):   0.05%  
## H^2 (total variability / sampling variability):  1.00  
##  
## Test for Heterogeneity:  
## Q(df = 11) = 9.5356, p-val = 0.5726  
##  
## Model Results:  
##  
## estimate      se     zval    pval    ci.lb    ci.ub  
## -0.0303  0.0129 -2.3486  0.0188 -0.0556 -0.0050  *##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 12; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##  9.9875 -19.9750 -13.9750 -13.0673 -9.9750  
##  
## tau^2 (estimated amount of residual heterogeneity):      0.0000 (SE = 0.0013)  
## tau (square root of estimated tau^2 value):            0.0002  
## I^2 (residual heterogeneity / unaccounted variability): 0.00%  
## H^2 (unaccounted variability / sampling variability):  1.00  
## R^2 (amount of heterogeneity accounted for):          96.47%  
##  
## Test for Residual Heterogeneity:  
## QE(df = 10) = 9.1524, p-val = 0.5177  
##  
## Test of Moderators (coefficient 2):  
## QM(df = 1) = 0.3833, p-val = 0.5359  
##  
## Model Results:  
##  
##           estimate      se     zval    pval    ci.lb    ci.ub  
## intrcpt  -0.0878  0.0937 -0.9367  0.3489 -0.2715  0.0959  
## age       0.0009  0.0015  0.6191  0.5359 -0.0020  0.0038  
##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 12; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc
```

```

##    5.2043 -10.4086    3.5914    2.1337  115.5914
##
## tau^2 (estimated amount of residual heterogeneity):      0.0000 (SE = 0.0009)
## tau (square root of estimated tau^2 value):             0.0002
## I^2 (residual heterogeneity / unaccounted variability): 0.00%
## H^2 (unaccounted variability / sampling variability):   1.00
## R^2 (amount of heterogeneity accounted for):           97.49%
##
## Test for Residual Heterogeneity:
## QE(df = 6) = 6.7283, p-val = 0.3467
##
## Test of Moderators (coefficients 2:6):
## QM(df = 5) = 2.8073, p-val = 0.7297
##
## Model Results:
##
##                                estimate     se     zval    pval    ci.lb    ci.ub
## intrcpt                  -0.0217  0.0465 -0.4667  0.6407 -0.1128  0.0694
## countryGermany            0.0175  0.0897  0.1949  0.8454 -0.1584  0.1933
## countryNetherlands        -0.0366  0.0931 -0.3930  0.6943 -0.2192  0.1460
## countrySweden              -0.0930  0.0810 -1.1485  0.2507 -0.2517  0.0657
## countryU.S.                -0.0072  0.0486 -0.1491  0.8815 -0.1025  0.0880
## countryUK                  0.1013  0.1244  0.8146  0.4153 -0.1425  0.3452
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Mixed-Effects Model (k = 12; tau^2 estimator: REML)
##
## logLik  deviance      AIC      BIC      AICc
## 4.4982 -8.9965  11.0035  1.9897 231.0035
##
## tau^2 (estimated amount of residual heterogeneity):      0 (SE = 0.0009)
## tau (square root of estimated tau^2 value):             0
## I^2 (residual heterogeneity / unaccounted variability): 0.00%
## H^2 (unaccounted variability / sampling variability):   1.00
## R^2 (amount of heterogeneity accounted for):           100.00%
##
## Test for Residual Heterogeneity:
## QE(df = 3) = 0.9422, p-val = 0.8152
##
## Test of Moderators (coefficients 2:9):
## QM(df = 8) = 8.5935, p-val = 0.3777
##
## Model Results:
##
##                                estimate     se     zval    pval    ci.lb    ci.ub
## intrcpt                  -0.0217  0.0465 -0.4667  0.6407 -0.1128
## scaleBFI-S                 0.1457  0.1685  0.8647  0.3872 -0.1846
## scaleDPQ                   -0.0366  0.0931 -0.3930  0.6943 -0.2192
## scaleEPI-Q                 -0.5216  0.3283 -1.5888  0.1121 -1.1651
## scaleEPQ (NE) and NEO-PI (O) -0.0744  0.0821 -0.9056  0.3652 -0.2354
## scaleIPIP                  0.0721  0.1047  0.6882  0.4913 -0.1332

```

```

## scaleMIDI           -0.0140  0.0488 -0.2870  0.7741 -0.1096
## scaleNEO-FFI        -0.0196  0.0988 -0.1986  0.8426 -0.2132
## scaleNEO-PI-R        0.0961  0.0747  1.2868  0.1982 -0.0503
##
## ci.ub
## intrcpt            0.0694
## scaleBFI-S          0.4761
## scaleDPQ             0.1460
## scaleEPI-Q           0.1219
## scaleEPQ (NE) and NEO-PI (O) 0.0866
## scaleIPIP            0.2774
## scaleMIDI            0.0816
## scaleNEO-FFI          0.1739
## scaleNEO-PI-R         0.2426
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

##
## Mixed-Effects Model (k = 12; tau^2 estimator: REML)
##
##   logLik  deviance      AIC      BIC      AICc
## 10.5949 -21.1897 -15.1897 -14.2820 -11.1897
##
## tau^2 (estimated amount of residual heterogeneity): 0.0000 (SE = 0.0007)
## tau (square root of estimated tau^2 value): 0.0005
## I^2 (residual heterogeneity / unaccounted variability): 0.01%
## H^2 (unaccounted variability / sampling variability): 1.00
## R^2 (amount of heterogeneity accounted for): 87.12%
##
## Test for Residual Heterogeneity:
## QE(df = 10) = 9.5166, p-val = 0.4839
##
## Test of Moderators (coefficient 2):
## QM(df = 1) = 0.0191, p-val = 0.8902
##
## Model Results:
##
##   estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt  -0.0257  0.0357 -0.7210  0.4709 -0.0957  0.0442
## mo       -0.0014  0.0099 -0.1381  0.8902 -0.0209  0.0181
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

```

Hypertension, Table (Neuroticism)

Table S16: Table. Trajectories of Neuroticism, Moderated by Hypertension

coef	BASE	BASEII	EAS	HRS	ILSE	LASA	LBC1936	MIDUS	OCTO	SATSA	SLS	SOEP	WLSG	WLSS
Fixed Effects														
In-tercept	3.07	4.52	2.45	3.52	3.85	2.16	4.03	3.89	2.46	2.86	3.98	4.81	3.42	3.45
Age	0.17	0.06	0.19	0.01	0.06	0.06	0.06	0.01	0.24	0.06	0.03	0.01	0.01	0.02
hbp	p < .001	p < .001	p < .001	p < .001	p < .001	p < .001	p < .001	p < .001						
Age x hbp	0.12	-0.15	0.17	-0.11	-0.10	0.02	-0.01	-0.13	0.09	-0.06	-0.06	0.00	-0.10	-0.10
	0.06	0.06	0.09	0.01	0.05	0.04	0.04	0.01	0.09	0.03	0.02	0	0.01	0.01
	p = 0.034	p = 0.005	p = 0.026	p = .001	p = 0.022	p = 0.321	p = 0.437	p = .001	p = 0.16	p = 0.026	p = .001	p = 0.314	p = .001	p = .001
	0.12	0.24	0.07	0.14	0.16	-0.15	0.28	0.17	0.78	0.17	0.09	0.20	0.25	0.24
	0.24	0.1	0.25	0.02	0.1	0.12	0.1	0.03	0.44	0.06	0.06	0.01	0.03	0.03
	p = 0.313	p = 0.01	p = 0.382	p = .001	p = 0.048	p = 0.103	p = 0.003	p = .001	p = 0.039	p = 0.004	p = 0.084	p = .001	p = .001	p = .001
	0.01	-0.10	-0.04	-0.01	-0.01	0.01	-0.07	-0.08	-0.31	0.04	0.02	-0.04	-0.04	-0.04
	0.09	0.09	0.12	0.01	0.08	0.07	0.06	0.02	0.18	0.03	0.03	0.01	0.02	0.02
	p = 0.461	p = 0.146	p = 0.37	p = 0.217	p = 0.452	p = 0.43	p = 0.111	p < .001	p = 0.039	p = 0.12	p = 0.231	p < .001	p = 0.013	p = 0.023
Random Effects														
τ_{00}	1.57	0.95	2.06	0.68	0.81	0.78	1.06	0.53	0.58	0.58	0.81	0.57	0.64	0.61
τ_{01}	-0.45	-0.28	-0.67	-0.05	-0.13	-0.09	-0.21	-0.02	0.02	-0.01	-0.09	0.01	-0.04	-0.02
τ_{11}	0.20	0.33	0.33	0.03	0.13	0.13	0.12	0.01	0.00	0.05	0.05	0.00	0.04	0.04
σ^2	0.25	0.25	0.28	0.36	0.25	0.31	0.23	0.35	0.30	0.29	0.15	0.43	0.26	0.25
N_{people}	516	1,276	700	16,043	486	870	1,033	6,251	495	1,948	1,497	33,620	6,836	3,796
N_{obs}	983	3,818	1,632	34,829	1,218	2,320	3,010	12,761	1,118	7,804	3,935	74,048	16,530	8,373
LL	-1177	-4258	-1936	-43754	-1440	-2827	-3286	-15829	-1330	-8627	-3840	-95716	-19377	-9852

^a LL = Log Likelihood; Age = age (centered at 60)

Hypertension, Plot (Neuroticism).

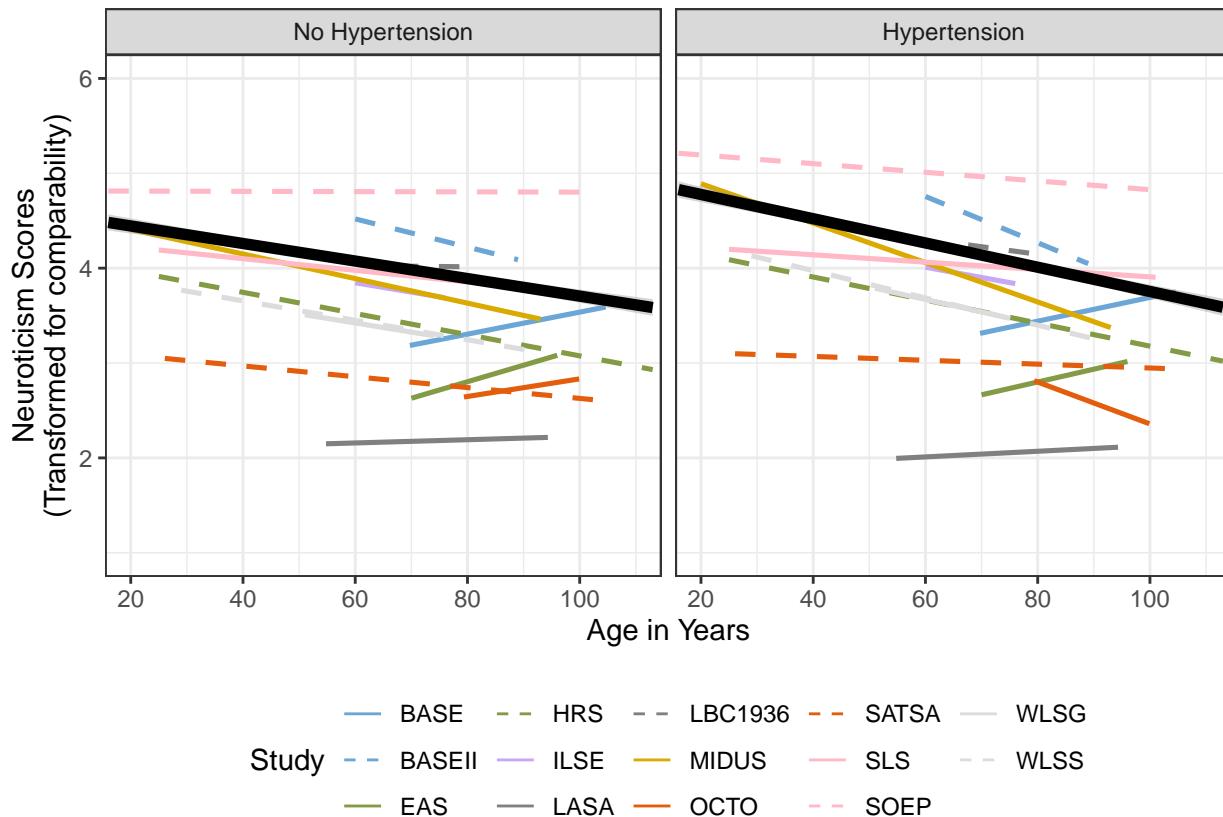


Figure S26: Hypertension, Plot (Neuroticism). Linear Trajectories of Neuroticism, moderated by hypertension. Black line indicates average trajectory weighted by N. At the individual study level, some showed evidence that having hypertension was associated with greater declines in neuroticism, and the meta-analytic average was significant ($p = .007$).

Hypertension, Plot, unweighted (Neuroticism)

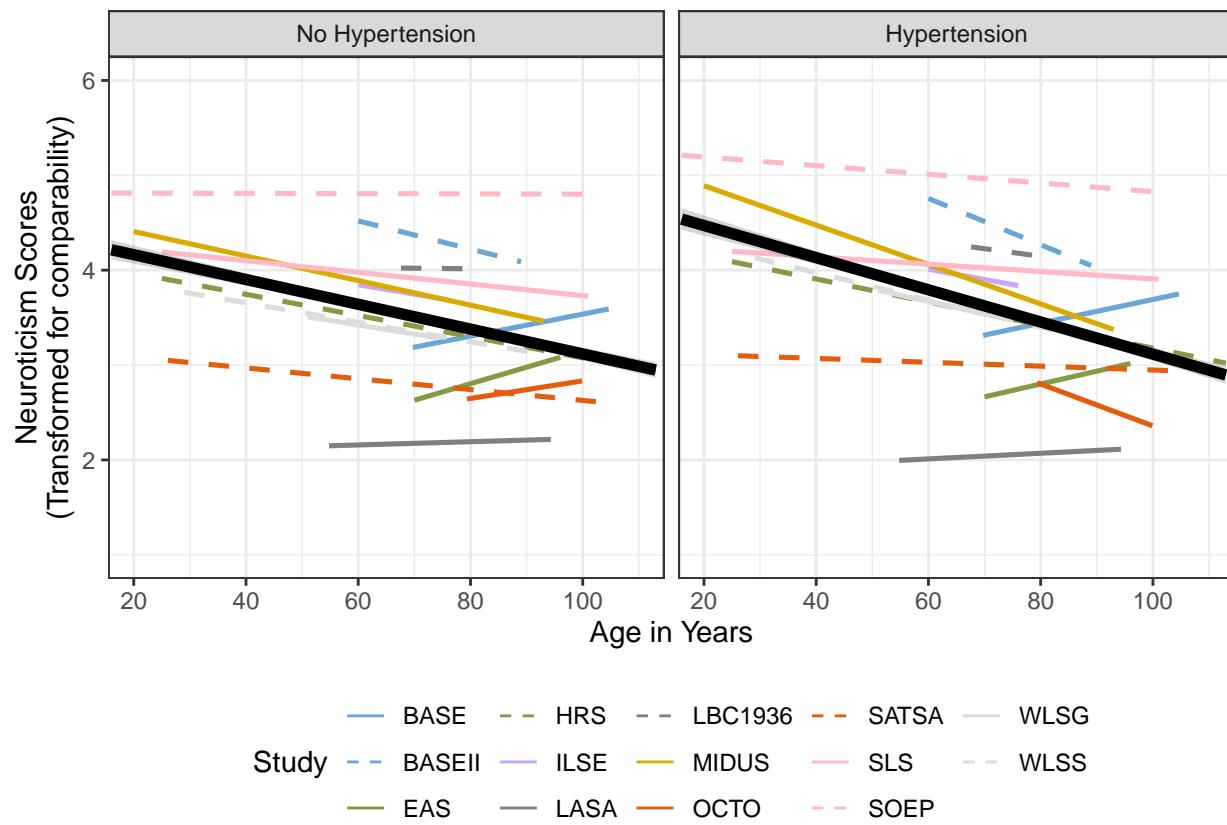


Figure S27: Hypertension, Plot, unweighted (Neuroticism)

Hypertension, Meta Analysis (Neuroticism)

```
##  
## Random-Effects Model (k = 14; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##  19.3364  -38.6727  -34.6727  -33.5428  -33.4727  
##  
## tau^2 (estimated amount of total heterogeneity): 0.0006 (SE = 0.0006)  
## tau (square root of estimated tau^2 value):       0.0255  
## I^2 (total heterogeneity / total variability):   55.34%  
## H^2 (total variability / sampling variability):  2.24  
##  
## Test for Heterogeneity:  
## Q(df = 13) = 24.5670, p-val = 0.0263  
##  
## Model Results:  
##  
## estimate      se     zval    pval    ci.lb    ci.ub  
## -0.0301  0.0113  -2.6640  0.0077  -0.0522  -0.0079  **  
##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 14; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##  18.9998  -37.9997  -31.9997  -30.5449  -28.9997  
##  
## tau^2 (estimated amount of residual heterogeneity):      0.0000 (SE = 0.0002)  
## tau (square root of estimated tau^2 value):            0.0056  
## I^2 (residual heterogeneity / unaccounted variability): 4.51%  
## H^2 (unaccounted variability / sampling variability):  1.05  
## R^2 (amount of heterogeneity accounted for):          95.16%  
##  
## Test for Residual Heterogeneity:  
## QE(df = 12) = 14.7128, p-val = 0.2575  
##  
## Test of Moderators (coefficient 2):  
## QM(df = 1) = 8.4715, p-val = 0.0036  
##  
## Model Results:  
##  
##           estimate      se     zval    pval    ci.lb    ci.ub  
## intrcpt   -0.1438  0.0381  -3.7748  0.0002  -0.2185  -0.0691  ***  
## age        0.0020  0.0007   2.9106  0.0036   0.0007  0.0033   **  
##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 14; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc
```

```

## 10.5227 -21.0454 -7.0454 -6.4893 104.9546
##
## tau^2 (estimated amount of residual heterogeneity): 0.0009 (SE = 0.0010)
## tau (square root of estimated tau^2 value): 0.0306
## I^2 (residual heterogeneity / unaccounted variability): 53.65%
## H^2 (unaccounted variability / sampling variability): 2.16
## R^2 (amount of heterogeneity accounted for): 0.00%
##
## Test for Residual Heterogeneity:
## QE(df = 8) = 18.1616, p-val = 0.0200
##
## Test of Moderators (coefficients 2:6):
## QM(df = 5) = 2.2146, p-val = 0.8187
##
## Model Results:
##
##          estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt      -0.0379  0.0252 -1.5056  0.1322 -0.0872  0.0114
## countryGermany -0.0025  0.0371 -0.0672  0.9464 -0.0751  0.0701
## countryNetherlands  0.0506  0.0823  0.6156  0.5382 -0.1106  0.2119
## countrySweden      0.0552  0.0494  1.1174  0.2638 -0.0416  0.1520
## countryU.S.        0.0106  0.0326  0.3249  0.7453 -0.0533  0.0745
## countryUK         -0.0361  0.0725 -0.4981  0.6184 -0.1782  0.1059
##
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Mixed-Effects Model (k = 14; tau^2 estimator: REML)
##
## logLik deviance      AIC      BIC      AICC
## 8.3110 -16.6220  3.3780 -0.5276 223.3780
##
## tau^2 (estimated amount of residual heterogeneity): 0.0008 (SE = 0.0011)
## tau (square root of estimated tau^2 value): 0.0284
## I^2 (residual heterogeneity / unaccounted variability): 56.06%
## H^2 (unaccounted variability / sampling variability): 2.28
## R^2 (amount of heterogeneity accounted for): 0.00%
##
## Test for Residual Heterogeneity:
## QE(df = 5) = 10.8644, p-val = 0.0541
##
## Test of Moderators (coefficients 2:9):
## QM(df = 8) = 8.2824, p-val = 0.4064
##
## Model Results:
##
##          estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt      -0.0379  0.0238 -1.5911  0.1116 -0.0845
## scaleBFI-S     -0.0110  0.0370 -0.2984  0.7654 -0.0835
## scaleDPQ        0.0506  0.0810  0.6246  0.5323 -0.1082
## scaleEPI-Q      -0.2759  0.1817 -1.5180  0.1290 -0.6320
## scaleEPQ (NE) and NEO-PI (O)  0.0746  0.0484  1.5401  0.1235 -0.0203
## scaleIPIP      -0.0279  0.0632 -0.4412  0.6591 -0.1518

```

```

## scaleMIDI           -0.0041  0.0329 -0.1239  0.9014 -0.0685
## scaleNEO-FFI        0.0364  0.0664  0.5479  0.5838 -0.0938
## scaleNEO-PI-R       0.0605  0.0482  1.2560  0.2091 -0.0339
##
## ci.ub
## intrcpt            0.0088
## scaleBFI-S          0.0614
## scaleDPQ             0.2095
## scaleEPI-Q           0.0803
## scaleEPQ (NE) and NEO-PI (O) 0.1695
## scaleIPIP            0.0960
## scaleMIDI            0.0603
## scaleNEO-FFI          0.1665
## scaleNEO-PI-R         0.1549
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

##
## Mixed-Effects Model (k = 14; tau^2 estimator: REML)
##
##   logLik  deviance      AIC      BIC      AICc
## 18.4985 -36.9971 -30.9971 -29.5423 -27.9971
##
## tau^2 (estimated amount of residual heterogeneity): 0.0005 (SE = 0.0005)
## tau (square root of estimated tau^2 value): 0.0224
## I^2 (residual heterogeneity / unaccounted variability): 48.76%
## H^2 (unaccounted variability / sampling variability): 1.95
## R^2 (amount of heterogeneity accounted for): 22.44%
##
## Test for Residual Heterogeneity:
## QE(df = 12) = 22.9966, p-val = 0.0278
##
## Test of Moderators (coefficient 2):
## QM(df = 1) = 1.4974, p-val = 0.2211
##
## Model Results:
##
##   estimate     se    zval   pval    ci.lb    ci.ub
## intrcpt -0.0621  0.0279 -2.2306  0.0257 -0.1168 -0.0075 *
## mo       0.0084  0.0069  1.2237  0.2211 -0.0051  0.0220
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

```

Baseline Age, Table (Neuroticism)

Table S17: Table. Trajectories of Neuroticism, Moderated by Baseline Age

coef	HRS	LASA	MIDUS	NAS	SATSA	SLS	SOEP	WLSS
Fixed Effects								
Intercept	3.58	1.96	3.88	3.41	2.91	4.06	4.81	3.49
0.01	0.04	0.01	0.02	0.03	0.04	0.01	0.01	0.02
p < .001	p < .001	p < .001	p < .001	p < .001	p < .001	p < .001	p < .001	p < .001
Age	-0.28	-0.15	-0.15	-0.15	-0.07	-0.10	-0.02	-0.13
0.02	0.05	0.01	0.01	0.01	0.01	0.02	0	0.01
p < .001	p < .001	p < .001	p < .001	p < .001	p < .001	p < .001	p < .001	p < .001
b.age	-0.04	0.01	0.11	-0.10	0.11	-0.32	0.24	0.12
0.02	0.06	0.04	0.07	0.05	0.06	0.02	0.05	
p = 0.022	p = 0.438	p = 0.002	p = 0.078	p = 0.008	p < .001	p < .001	p < .001	p = 0.003
Age x b.age	0.21	0.20	0.03	0.18	0.10	0.17	-0.05	0.07
0.02	0.05	0.02	0.03	0.02	0.03	0.01	0.03	
p < .001	p < .001	p = 0.063	p < .001	p < .001	p < .001	p < .001	p < .001	p = 0.007
Random Effects								
τ_{00}	0.68	0.72	0.54	0.59	0.58	0.79	0.55	0.63
τ_{01}	-0.05	-0.09	-0.03	0.00	-0.02	-0.08	0.01	-0.02
τ_{11}	0.03	0.09	0.00	0.03	0.05	0.05	0.00	0.05
σ^2	0.36	0.30	0.35	0.32	0.30	0.15	0.44	0.25
N_{people}	16,056	2,627	6,409	1,645	1,971	1,541	21,040	4,065
N_{obs}	34,850	7,023	12,989	8,654	7,866	4,023	53,427	8,701
LL	-43762	-8284	-16161	-9482	-8695	-3911	-67988	-10294

^a LL = Log Likelihood; ICC = Intra-Class Correlation; Age = age (centered at 60)

Baseline Age, Plot (Neuroticism) (In the main manuscript, this is Figure 7, in color).

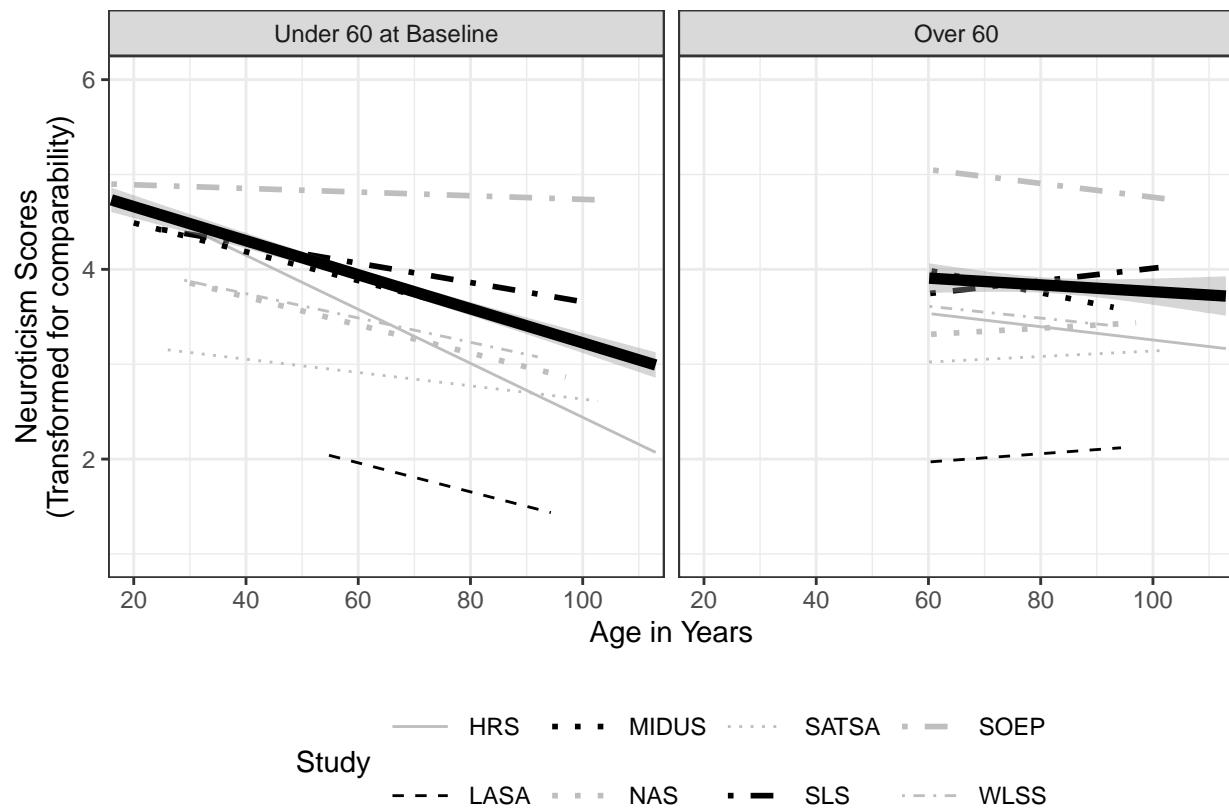


Figure S28: Baseline Age, Plot (Neuroticism). Linear Trajectories of Neuroticism, moderated by baseline age. Black line indicates average trajectory weighted by N. At the individual study level, most showed evidence that being under 60 at baseline was associated with greater declines in neuroticism, and the meta-analytic average was significant ($p = .001$).

Baseline Age Plot, unweighted (Neuroticism)

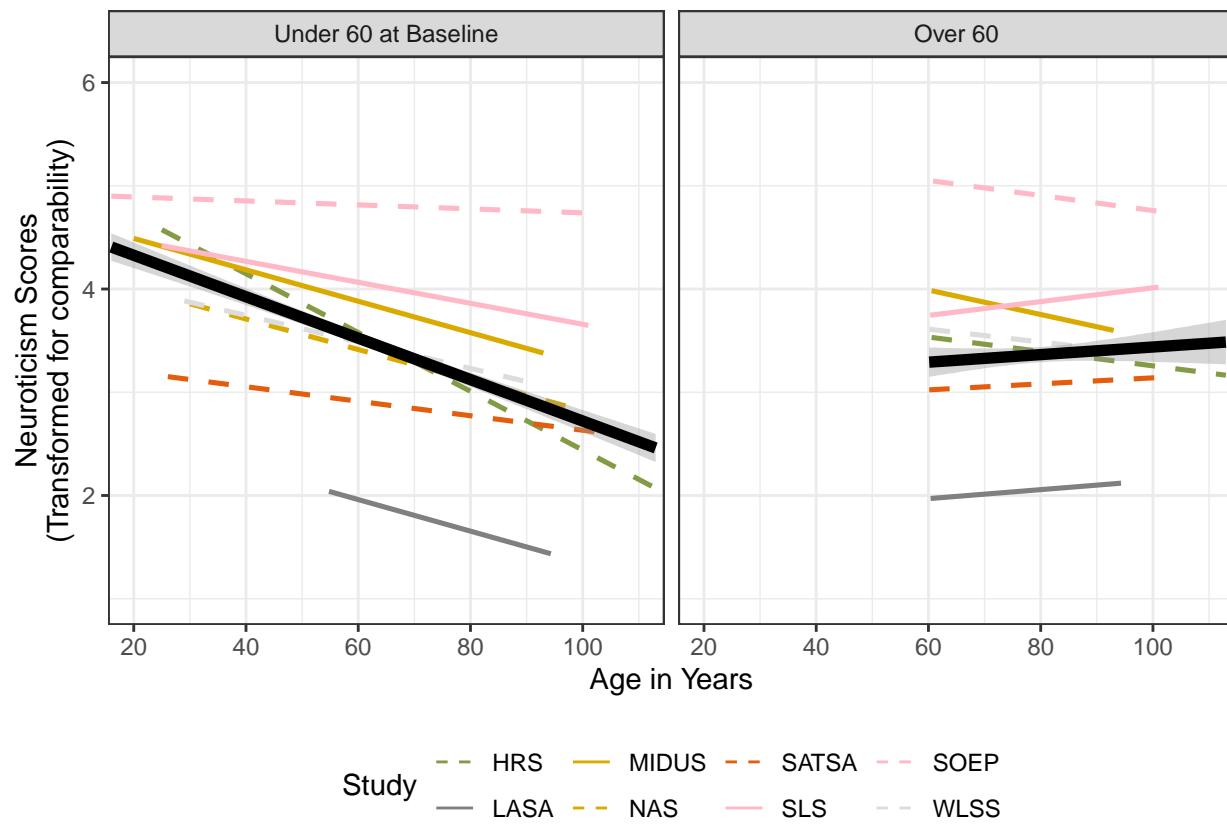


Figure S29: Baseline Age Plot, unweighted (Neuroticism)

Baseline Age, Meta Analysis (Neuroticism)

```
##  
## Random-Effects Model (k = 8; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##    6.5368 -13.0737 -9.0737 -9.1818 -6.0737  
##  
## tau^2 (estimated amount of total heterogeneity): 0.0084 (SE = 0.0050)  
## tau (square root of estimated tau^2 value):       0.0918  
## I^2 (total heterogeneity / total variability):   93.84%  
## H^2 (total variability / sampling variability): 16.22  
##  
## Test for Heterogeneity:  
## Q(df = 7) = 173.5483, p-val < .0001  
##  
## Model Results:  
##  
## estimate      se     zval    pval    ci.lb    ci.ub  
##  0.1095  0.0341  3.2144  0.0013  0.0427  0.1763  **  
##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 8; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##    8.1671 -16.3342 -10.3342 -10.9589  1.6658  
##  
## tau^2 (estimated amount of residual heterogeneity):      0.0031 (SE = 0.0022)  
## tau (square root of estimated tau^2 value):            0.0554  
## I^2 (residual heterogeneity / unaccounted variability): 83.10%  
## H^2 (unaccounted variability / sampling variability):  5.92  
## R^2 (amount of heterogeneity accounted for):          63.59%  
##  
## Test for Residual Heterogeneity:  
## QE(df = 6) = 37.4968, p-val < .0001  
##  
## Test of Moderators (coefficient 2):  
## QM(df = 1) = 10.9919, p-val = 0.0009  
##  
## Model Results:  
##  
##           estimate      se     zval    pval    ci.lb    ci.ub  
## intrcpt   -0.3875  0.1502 -2.5806  0.0099 -0.6819 -0.0932  **  
## age        0.0087  0.0026  3.3154  0.0009  0.0035  0.0138 ***  
##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 8; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc
```

```

##    3.2763   -6.5526    5.4474    0.0391   89.4474
##
## tau^2 (estimated amount of residual heterogeneity):      0.0061 (SE = 0.0056)
## tau (square root of estimated tau^2 value):             0.0780
## I^2 (residual heterogeneity / unaccounted variability): 90.21%
## H^2 (unaccounted variability / sampling variability): 10.21
## R^2 (amount of heterogeneity accounted for):          27.92%
##
## Test for Residual Heterogeneity:
## QE(df = 3) = 39.7717, p-val < .0001
##
## Test of Moderators (coefficients 2:5):
## QM(df = 4) = 6.3053, p-val = 0.1775
##
## Model Results:
##
##                                estimate     se     zval    pval    ci.lb    ci.ub
## intrcpt                  0.0660  0.0825  0.7994  0.4240 -0.0958  0.2277
## countryGermany            -0.1197  0.1143 -1.0473  0.2949 -0.3436  0.1043
## countryNetherlands         0.1306  0.1252  1.0436  0.2967 -0.1147  0.3759
## countrySweden              0.0334  0.1160  0.2880  0.7734 -0.1939  0.2606
## countryU.S.                0.0826  0.0923  0.8950  0.3708 -0.0983  0.2634
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Mixed-Effects Model (k = 8; tau^2 estimator: REML)
##
## logLik  deviance      AIC      BIC      AICc
## 0.6357 -1.2714  14.7286 -1.2714  158.7286
##
## tau^2 (estimated amount of residual heterogeneity):      0.0160 (SE = 0.0232)
## tau (square root of estimated tau^2 value):             0.1264
## I^2 (residual heterogeneity / unaccounted variability): 97.34%
## H^2 (unaccounted variability / sampling variability): 37.53
## R^2 (amount of heterogeneity accounted for):          0.00%
##
## Test for Residual Heterogeneity:
## QE(df = 1) = 37.5346, p-val < .0001
##
## Test of Moderators (coefficients 2:7):
## QM(df = 6) = 2.7006, p-val = 0.8454
##
## Model Results:
##
##                                estimate     se     zval    pval    ci.lb    ci.ub
## intrcpt                  0.0660  0.1293  0.5103  0.6098 -0.1874
## scaleBFI-S               -0.1197  0.1813 -0.6602  0.5091 -0.4750
## scaleDPQ                  0.1306  0.1883  0.6935  0.4880 -0.2385
## scaleEPI-Q                0.1148  0.1839  0.6243  0.5324 -0.2456
## scaleEPQ (NE) and NEO-PI (O) 0.0334  0.1823  0.1831  0.8547 -0.3240
## scaleMIDI                 0.0585  0.1579  0.3706  0.7110 -0.2509
## scaleNEO-PI-R              0.1025  0.1837  0.5581  0.5768 -0.2575

```

```

## ci.ub
## intrcpt 0.3193
## scaleBFI-S 0.2356
## scaleDPQ 0.4997
## scaleEPI-Q 0.4752
## scaleEPQ (NE) and NEO-PI (O) 0.3908
## scaleMIDI 0.3679
## scaleNEO-PI-R 0.4625
##
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

##
## Mixed-Effects Model (k = 8; tau^2 estimator: REML)
##
## logLik deviance AIC BIC AICc
## 5.3479 -10.6958 -4.6958 -5.3205 7.3042
##
## tau^2 (estimated amount of residual heterogeneity): 0.0092 (SE = 0.0058)
## tau (square root of estimated tau^2 value): 0.0961
## I^2 (residual heterogeneity / unaccounted variability): 94.55%
## H^2 (unaccounted variability / sampling variability): 18.36
## R^2 (amount of heterogeneity accounted for): 0.00%
##
## Test for Residual Heterogeneity:
## QE(df = 6) = 167.6315, p-val < .0001
##
## Test of Moderators (coefficient 2):
## QM(df = 1) = 0.3952, p-val = 0.5296
##
## Model Results:
##
## estimate se zval pval ci.lb ci.ub
## intrcpt 0.0682 0.0750 0.9096 0.3630 -0.0788 0.2153
## mo 0.0086 0.0136 0.6286 0.5296 -0.0181 0.0353
##
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

```

Extraversion

Intercept Only Model, Extraversion

Table S18: Extraversion, Intercept Only Models

coef	BASE	BASEII	EAS	HRS	ILSE	ILSE.Y	LBC1936MIDUS	NAS	OCTO	SATSA	SLS	SOEP	WLSG	WLSS	
Fixed Effects															
	5.77	6.43	5.89	7.27	5.47	5.89	5.35	7.26	5.94	5.40	5.42	5.51	6.38	5.77	5.64
Intercept	0.04	0.03	0.04	0.01	0.04	0.04	0.03	0.01	0.02	0.04	0.02	0.02	0	0.01	0.01
	p < .001	p < .001	p < .001	p < .001	p < .001	p < .001	p < .001	p < .001	p < .001						
Random Effects															
τ_{00}	0.70	0.74	0.74	0.70	0.71	0.67	0.84	0.71	0.70	0.64	0.64	0.85	0.61	0.71	0.70
σ^2	0.31	0.26	0.23	0.35	0.28	0.32	0.20	0.33	0.34	0.32	0.32	0.14	0.38	0.25	0.24
ICC	0.69	0.74	0.77	0.67	0.72	0.68	0.81	0.68	0.68	0.67	0.67	0.86	0.62	0.74	0.75
N_{people}	516	1,276	713	16,053	497	500	1,032	6,411	1,645	495	2,142	1,541	33,612	8,011	4,992
N_{obs}	983	3,816	1,667	35,049	1,238	1,266	3,017	12,995	8,677	1,122	8,297	4,023	74,040	18,596	10,724
LL	-1213	-4250	-1840	-44301	-1449	-1528	-3138	-16386	-9551	-1351	-9199	-3847	-93178	-21345	-12297

^a LL = Log Likelihood; ICC = Intra-Class Correlation

Intercept Only Meta Analysis of ICC's, Extraversion

```
##  
## Random-Effects Model (k = 15; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##  19.0343 -38.0686 -34.0686 -32.7905 -32.9777  
##  
## tau^2 (estimated amount of total heterogeneity): 0.0038 (SE = 0.0015)  
## tau (square root of estimated tau^2 value):       0.0618  
## I^2 (total heterogeneity / total variability):   99.40%  
## H^2 (total variability / sampling variability): 167.91  
##  
## Test for Heterogeneity:  
## Q(df = 14) = 3782.3258, p-val < .0001  
##  
## Model Results:  
##  
## estimate      se     zval    pval    ci.lb    ci.ub  
##  0.7160  0.0161  44.3684 <.0001  0.6843  0.7476 ***  
##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 15; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##  17.5684 -35.1368 -29.1368 -27.4420 -26.4702  
##  
## tau^2 (estimated amount of residual heterogeneity):      0.0039 (SE = 0.0016)  
## tau (square root of estimated tau^2 value):            0.0623  
## I^2 (residual heterogeneity / unaccounted variability): 99.37%  
## H^2 (unaccounted variability / sampling variability): 159.41  
## R^2 (amount of heterogeneity accounted for):          0.00%  
##  
## Test for Residual Heterogeneity:  
## QE(df = 13) = 2847.1529, p-val < .0001  
##  
## Test of Moderators (coefficient 2):  
## QM(df = 1) = 0.7468, p-val = 0.3875  
##  
## Model Results:  
##  
##           estimate      se     zval    pval    ci.lb    ci.ub  
## intrcpt    0.6464  0.0821  7.8701 <.0001   0.4854  0.8074 ***  
## age        0.0011  0.0013  0.8642  0.3875 -0.0014  0.0037  
##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 15; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc
```

```

## 14.0269 -28.0539 -16.0539 -14.2384 11.9461
##
## tau^2 (estimated amount of residual heterogeneity): 0.0035 (SE = 0.0016)
## tau (square root of estimated tau^2 value): 0.0593
## I^2 (residual heterogeneity / unaccounted variability): 99.13%
## H^2 (unaccounted variability / sampling variability): 115.59
## R^2 (amount of heterogeneity accounted for): 8.08%
##
## Test for Residual Heterogeneity:
## QE(df = 10) = 1809.7189, p-val < .0001
##
## Test of Moderators (coefficients 2:5):
## QM(df = 4) = 5.2127, p-val = 0.2662
##
## Model Results:
##
##          estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt      0.7445  0.0420  17.7372 <.0001   0.6623   0.8268 *** 
## countryGermany -0.0552  0.0500  -1.1039  0.2696  -0.1531   0.0428
## countrySweden  -0.0747  0.0598  -1.2491  0.2116  -0.1918   0.0425
## countryU.S.    -0.0144  0.0497  -0.2902  0.7716  -0.1119   0.0830
## countryUK       0.0624  0.0729   0.8566  0.3917  -0.0804   0.2053
##
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Mixed-Effects Model (k = 15; tau^2 estimator: REML)
##
##          logLik  deviance      AIC      BIC      AICc
## 13.2004 -26.4009 -8.4009 -8.8877 171.5991
##
## tau^2 (estimated amount of residual heterogeneity): 0.0013 (SE = 0.0007)
## tau (square root of estimated tau^2 value): 0.0359
## I^2 (residual heterogeneity / unaccounted variability): 97.44%
## H^2 (unaccounted variability / sampling variability): 39.12
## R^2 (amount of heterogeneity accounted for): 66.34%
##
## Test for Residual Heterogeneity:
## QE(df = 7) = 218.8350, p-val < .0001
##
## Test of Moderators (coefficients 2:8):
## QM(df = 7) = 33.5641, p-val < .0001
##
## Model Results:
##
##          estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt      0.7445  0.0255  29.2261 <.0001   0.6946
## scaleBFI-S    -0.0681  0.0362  -1.8806  0.0600  -0.1390
## scaleEPI-Q    -0.0714  0.0366  -1.9471  0.0515  -0.1432
## scaleEPQ (NE) and NEO-PI (O) -0.0750  0.0444  -1.6909  0.0909  -0.1620
## scaleIPIP      0.0421  0.0364   1.1544  0.2483  -0.0293
## scaleMIDI     -0.0680  0.0360  -1.8854  0.0594  -0.1386
## scaleNEO-FFI   -0.0464  0.0341  -1.3592  0.1741  -0.1133

```

```

## scaleNEO-PI-R          0.1126  0.0442  2.5505  0.0108  0.0261
## ci.ub
## intrcpt            0.7944  *** 
## scaleBFI-S           0.0029  .
## scaleEPI-Q           0.0005  .
## scaleEPQ (NE) and NEO-PI (O) 0.0119  .
## scaleIPIP             0.1135
## scaleMIDI             0.0027  .
## scaleNEO-FFI           0.0205
## scaleNEO-PI-R          0.1992  *
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Mixed-Effects Model (k = 15; tau^2 estimator: REML)
##
##   logLik  deviance      AIC      BIC      AICc
##  17.2217 -34.4434 -28.4434 -26.7486 -25.7768
##
## tau^2 (estimated amount of residual heterogeneity): 0.0041 (SE = 0.0016)
## tau (square root of estimated tau^2 value):        0.0640
## I^2 (residual heterogeneity / unaccounted variability): 99.45%
## H^2 (unaccounted variability / sampling variability): 183.37
## R^2 (amount of heterogeneity accounted for):       0.00%
##
## Test for Residual Heterogeneity:
## QE(df = 13) = 3772.6851, p-val < .0001
##
## Test of Moderators (coefficient 2):
## QM(df = 1) = 0.0465, p-val = 0.8293
##
## Model Results:
##
##   estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt    0.7108  0.0293  24.2181 <.0001   0.6532  0.7683  ***
## mo         0.0010  0.0047   0.2156  0.8293 -0.0082  0.0102
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Mixed-Effects Model (k = 15; tau^2 estimator: REML)
##
##   logLik  deviance      AIC      BIC      AICc
##  17.3753 -34.7506 -28.7506 -27.0558 -26.0840
##
## tau^2 (estimated amount of residual heterogeneity): 0.0040 (SE = 0.0016)
## tau (square root of estimated tau^2 value):        0.0633
## I^2 (residual heterogeneity / unaccounted variability): 99.40%
## H^2 (unaccounted variability / sampling variability): 165.66
## R^2 (amount of heterogeneity accounted for):       0.00%
##
## Test for Residual Heterogeneity:
## QE(df = 13) = 3782.3104, p-val < .0001

```

```
##  
## Test of Moderators (coefficient 2):  
## QM(df = 1) = 0.3648, p-val = 0.5458  
##  
## Model Results:  
##  
##           estimate      se     zval   pval    ci.lb    ci.ub  
## intrcpt    0.7305  0.0292  25.0557 <.0001  0.6733  0.7876 ***  
## interval   -0.0034  0.0056  -0.6040  0.5458  -0.0143  0.0076  
##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

Linear Growth, Fixed Effects Only, Extraversion

Table S19: Extraversion, Linear Growth Model, Fixed Effects Only

coef	BASE	BASEII	EAS	HRS	ILSE	ILSE.Y	LBC1936	MIDUS	NAS	OCTO	SATSA	SLS	SOEP	WLSG	WLSS
Fixed Effects															
Intercept	6.54	6.44	6.29	7.37	5.57	5.71	5.35	7.19	5.93	5.78	5.41	5.63	6.32	5.78	5.64
Age	0.11 .001	0.05 .001	0.1 .001	0.01 .001	0.05 .001	0.06 .001	0.04 .001	0.01 .001	0.02 .001	0.2 .001	0.02 .001	0.03 .001	0.01 .001	0.01 .001	0.01 .001
	-0.29 0.04	-0.01 0.04	-0.20 0.05	-0.09 0.01	-0.13 0.03	-0.15 0.03	0.00 0.02	-0.08 0.01	0.02 0.01	-0.16 0.08	0.02 0.01	-0.20 0.01	-0.06 0.01	-0.04 0.01	-0.01 0.01
	p < .001	p < .001	p < .001	p < .001	p < .001	p < .001	p < .001								
	.391 .001	.001 .001	.001 .001	.001 .001	.001 .001	.001 .001	.448 .0448	.001 .001	.002 .002	.025 .025	.019 .019	.001 .001	.001 .001	.001 .001	.059 .059
Random Effects															
τ_{00}	0.69	0.74	0.73	0.70	0.71	0.68	0.84	0.73	0.70	0.65	0.64	0.86	0.60	0.71	0.71
σ^2	0.28	0.26	0.22	0.34	0.27	0.31	0.20	0.32	0.34	0.31	0.32	0.13	0.38	0.25	0.23
N_{people}	516	1,276	713	16,053	488	500	1,032	6,409	1,645	495	2,142	1,541	33,612	7,827	4,675
N_{obs}	983	3,816	1,667	35,049	1,223	1,266	3,016	12,993	8,677	1,122	8,296	4,023	74,040	18,000	9,671
LL	-1188	-4250	-1831	-44191	-1424	-1519	-3137	-16298	-9547	-1349	-9197	-3708	-92903	-20671	-11092

^a LL = Log Likelihood; Age = age (centered at 60).

Linear Growth, Fixed and Random Effects, Extraversion

Table S20: Extraversion, Linear Growth Models with Fixed and Random Effects

coef	BASE	BASEII	EAS	HRS	ILSE	ILSE.Y	LBC1936MIDUS	NAS	OCTO	SATSA	SLS	SOEP	WLSG	WLSS	
Fixed Effects															
Intercept	6.54	6.44	6.30	7.37	5.57	5.71	5.35	7.19	5.93	5.78	5.42	5.65	6.32	5.78	5.65
Age	0.11 .001	0.05 .001	0.11 .001	0.01 .001	0.05 .001	0.06 .001	0.04 .001	0.01 .001	0.02 .001	0.2 .001	0.02 .001	0.03 .001	0.01 .001	0.01 .001	0.01 .001
	-0.30 0.04	-0.01 0.04	-0.20 0.05	-0.09 0.01	-0.13 0.04	-0.15 0.04	-0.01 0.03	-0.08 0.01	0.02 0.01	-0.16 0.08	0.02 0.01	-0.20 0.01	-0.06 0.01	-0.04 0.01	-0.01 0.01
	p < .001														
	.001 0.44	.001 .001	.001 .001	.001 .001	.001 .001	.001 .001	.0416 .001	.001 .016	.025 0.016	.052 0.025	.001 0.052	.001 0.001	.001 .001	.001 .001	.076 0.076
Random Effects															
τ_{00}	0.49	0.89	1.66	0.68	0.74	0.94	0.98	0.75	0.69	1.02	0.66	0.90	0.58	0.73	0.71
τ_{01}	0.01	-0.17	-0.40	-0.01	-0.06	0.21	-0.14	0.02	0.01	-0.08	-0.04	-0.05	-0.01	-0.02	-0.03
τ_{11}	0.02	0.18	0.17	0.03	0.12	0.18	0.13	0.00	0.03	0.01	0.04	0.00	0.00	0.05	0.04
σ^2	0.28	0.26	0.21	0.34	0.23	0.25	0.18	0.32	0.31	0.31	0.28	0.13	0.38	0.21	0.20
N_{people}	516	1,276	713	16,053	488	500	1,032	6,409	1,645	495	2,142	1,541	33,612	7,827	4,675
N_{obs}	983	3,816	1,667	35,049	1,223	1,266	3,016	12,993	8,677	1,122	8,296	4,023	74,040	18,000	9,671
LL	-1186	-4248	-1828	-44179	-1419	-1511	-3126	-16293	-9493	-1349	-9115	-3696	-92884	-20611	-11065

^a LL = Log Likelihood; Age = age (centered at 60).

Linear Trajectory Plot, Extraversion. In the main manuscript, this is Figure 2, in color.

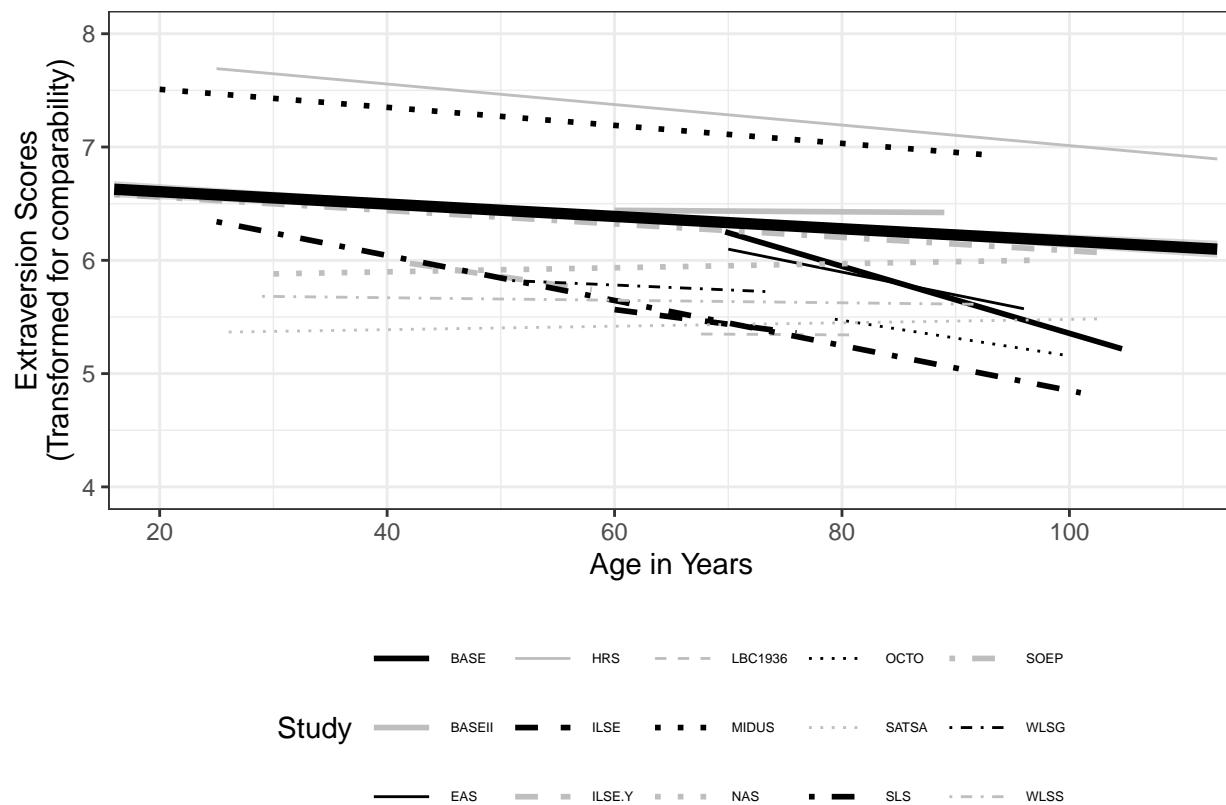


Figure S30: Linear Trajectory Plot, Extraversion. Linear Trajectories of Extraversion. Black line indicates average trajectory weighted by N. At the individual study level, many showed evidence of decline, and the meta-analytic average was significant ($p < .001$).

Linear Trajectory Plot, unweighted, Extraversion

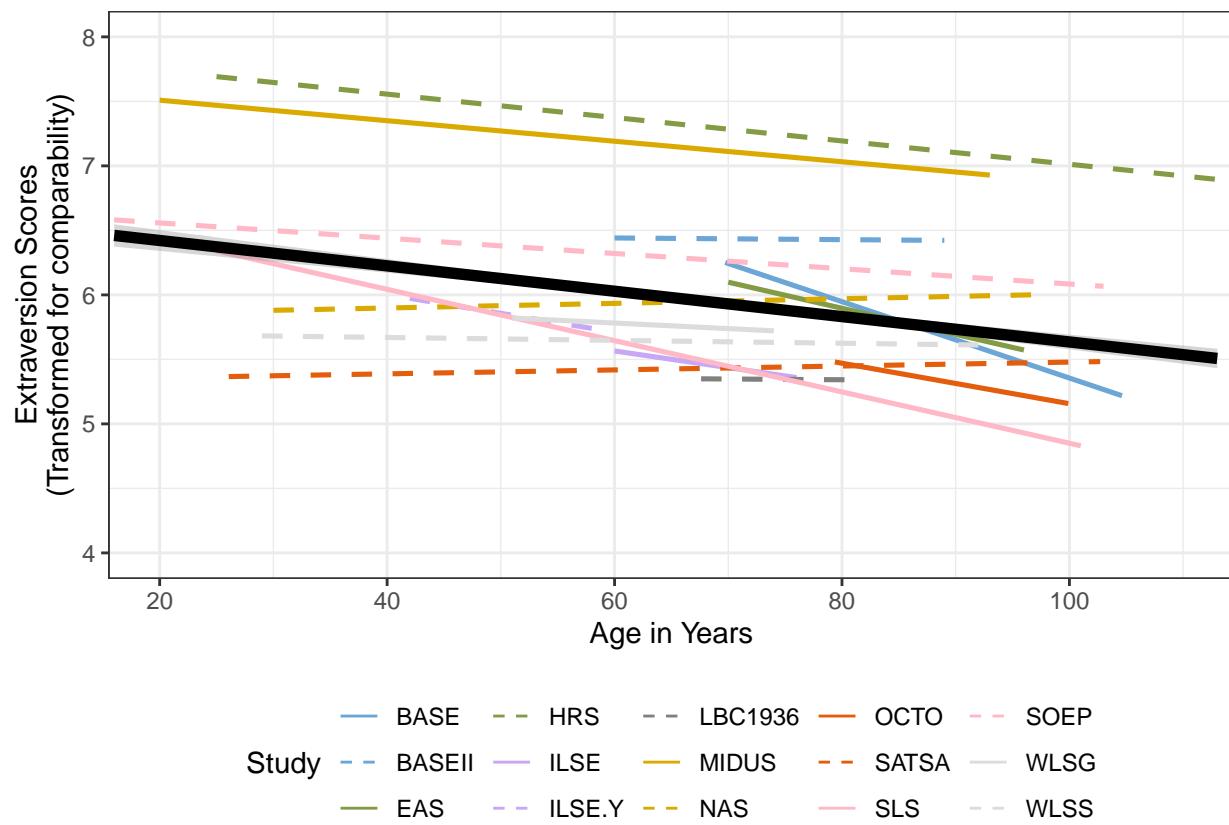


Figure S31: Linear Trajectory Plot, unweighted, Extraversion

Linear Meta Analysis, Extraversion

```
##  
## Random-Effects Model (k = 15; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##  13.4648 -26.9295 -22.9295 -21.6514 -21.8386  
##  
## tau^2 (estimated amount of total heterogeneity): 0.0074 (SE = 0.0031)  
## tau (square root of estimated tau^2 value):       0.0861  
## I^2 (total heterogeneity / total variability):   99.07%  
## H^2 (total variability / sampling variability): 107.28  
##  
## Test for Heterogeneity:  
## Q(df = 14) = 431.1520, p-val < .0001  
##  
## Model Results:  
##  
## estimate      se     zval    pval    ci.lb    ci.ub  
## -0.0866  0.0235 -3.6876  0.0002 -0.1326 -0.0406 ***  
##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 15; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##  14.0055 -28.0109 -22.0109 -20.3161 -19.3443  
##  
## tau^2 (estimated amount of residual heterogeneity):      0.0059 (SE = 0.0026)  
## tau (square root of estimated tau^2 value):            0.0765  
## I^2 (residual heterogeneity / unaccounted variability): 98.60%  
## H^2 (unaccounted variability / sampling variability): 71.54  
## R^2 (amount of heterogeneity accounted for):          20.91%  
##  
## Test for Residual Heterogeneity:  
## QE(df = 13) = 406.4703, p-val < .0001  
##  
## Test of Moderators (coefficient 2):  
## QM(df = 1) = 4.4439, p-val = 0.0350  
##  
## Model Results:  
##  
##           estimate      se     zval    pval    ci.lb    ci.ub  
## intrcpt    0.1415  0.1097  1.2900  0.1971 -0.0735  0.3565  
## age        -0.0037  0.0018 -2.1081  0.0350 -0.0072 -0.0003 *  
##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 15; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc
```

```

##    7.5237 -15.0475    2.9525    2.4657  182.9525
##
## tau^2 (estimated amount of residual heterogeneity):      0.0048 (SE = 0.0031)
## tau (square root of estimated tau^2 value):             0.0693
## I^2 (residual heterogeneity / unaccounted variability): 97.23%
## H^2 (unaccounted variability / sampling variability):   36.07
## R^2 (amount of heterogeneity accounted for):            35.13%
##
## Test for Residual Heterogeneity:
## QE(df = 7) = 41.3851, p-val < .0001
##
## Test of Moderators (coefficients 2:8):
## QM(df = 7) = 12.7599, p-val = 0.0782
##
## Model Results:
##
##                                estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt                  -0.0273  0.0493  -0.5533  0.5800  -0.1238
## scaleBFI-S                -0.0098  0.0722  -0.1351  0.8925  -0.1513
## scaleEPI-Q                -0.0079  0.0763  -0.1030  0.9180  -0.1574
## scaleEPQ (NE) and NEO-PI (O) 0.0424  0.0856  0.4958  0.6201  -0.1253
## scaleIPIP                 -0.0628  0.0748  -0.8393  0.4013  -0.2094
## scaleMIDI                  -0.0578  0.0696  -0.8301  0.4065  -0.1943
## scaleNEO-FFI                -0.1615  0.0672  -2.4031  0.0163  -0.2933
## scaleNEO-PI-R               -0.1716  0.0858  -1.9989  0.0456  -0.3398
##                                ci.lb    ci.ub
## intrcpt                   0.0693
## scaleBFI-S                 0.1318
## scaleEPI-Q                 0.1417
## scaleEPQ (NE) and NEO-PI (O) 0.2101
## scaleIPIP                  0.0838
## scaleMIDI                   0.0787
## scaleNEO-FFI                -0.0298  *
## scaleNEO-PI-R               -0.0033  *
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Mixed-Effects Model (k = 15; tau^2 estimator: REML)
##
## logLik  deviance      AIC      BIC      AICc
## 9.1685 -18.3371 -6.3371 -4.5216  21.6629
##
## tau^2 (estimated amount of residual heterogeneity):      0.0080 (SE = 0.0040)
## tau (square root of estimated tau^2 value):             0.0896
## I^2 (residual heterogeneity / unaccounted variability): 98.46%
## H^2 (unaccounted variability / sampling variability):   64.80
## R^2 (amount of heterogeneity accounted for):            0.00%
##
## Test for Residual Heterogeneity:
## QE(df = 10) = 308.2785, p-val < .0001
##
## Test of Moderators (coefficients 2:5):

```

```

## QM(df = 4) = 2.9451, p-val = 0.5671
##
## Model Results:
##
##           estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt     -0.0272  0.0635  -0.4286  0.6682  -0.1518  0.0973
## countryGermany -0.0979  0.0767  -1.2762  0.2019  -0.2482  0.0524
## countrySweden   -0.0196  0.0961  -0.2041  0.8383  -0.2079  0.1687
## countryU.S.     -0.0787  0.0757  -1.0385  0.2991  -0.2271  0.0698
## countryUK        0.0215  0.1132   0.1896  0.8497  -0.2004  0.2433
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Mixed-Effects Model (k = 15; tau^2 estimator: REML)
##
##   logLik  deviance      AIC      BIC      AICc
## 12.0653 -24.1306 -18.1306 -16.4358 -15.4640
##
## tau^2 (estimated amount of residual heterogeneity): 0.0080 (SE = 0.0035)
## tau (square root of estimated tau^2 value): 0.0897
## I^2 (residual heterogeneity / unaccounted variability): 99.14%
## H^2 (unaccounted variability / sampling variability): 116.09
## R^2 (amount of heterogeneity accounted for): 0.00%
##
## Test for Residual Heterogeneity:
## QE(df = 13) = 336.2254, p-val < .0001
##
## Test of Moderators (coefficient 2):
## QM(df = 1) = 0.0402, p-val = 0.8411
##
## Model Results:
##
##           estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt     -0.0798  0.0435  -1.8350  0.0665  -0.1650  0.0054 .
## mo        -0.0014  0.0071  -0.2005  0.8411  -0.0154  0.0125
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

```

Quadratic Table, Extraversion

Table S21: Quadratic Trajectories of Extraversion

coef	BASE	BASEII	EAS	LBC1936	NAS	OCTO	SATSA	SLS	SOEP
Fixed Effects									
Intercept	6.75	6.34	5.67	4.95	5.95	4.67	5.44	5.67	6.33
	0.25	0.07	0.3	0.14	0.02	1.16	0.02	0.03	0.01
	p < .001								
Age	-0.49	0.25	0.43	0.61	0.02	0.74	0.03	-0.19	-0.06
	0.21	0.13	0.28	0.21	0.01	0.92	0.01	0.01	0
	p = 0.01	p = 0.031	p = 0.067	p = 0.002	p = 0.003	p = 0.21	p = 0.002	p < .001	p < .001
Age ²	0.04	-0.13	-0.15	-0.22	-0.01	-0.18	-0.02	-0.01	0.00
	0.04	0.06	0.07	0.07	0	0.18	0	0.01	0
	p = 0.175	p = 0.021	p = 0.012	p = 0.002	p = 0.004	p = 0.164	p < .001	p = 0.018	p = 0.013
Random Effects									
τ_{00}	0.48	0.89	1.62	0.98	0.69	1.04	0.67	0.90	0.58
τ_{01}	0.02	-0.16	-0.38	-0.14	0.00	-0.09	-0.04	-0.04	-0.01
τ_{11}	0.02	0.16	0.16	0.13	0.03	0.01	0.04	0.00	0.00
σ^2	0.28	0.26	0.21	0.18	0.31	0.31	0.28	0.13	0.38
N_{people}	516	1,276	713	1,032	1,645	495	2,142	1,541	33,612
N_{obs}	983	3,816	1,667	3,016	8,677	1,122	8,296	4,023	74,040
LL	-1185	-4246	-1825	-3121	-9490	-1348	-9104	-3694	-92882

^a LL = Log Likelihood; Age = age (centered at 60); Age2 = age (centered at 60) squared.

Quadratic Plot, Extraversion.

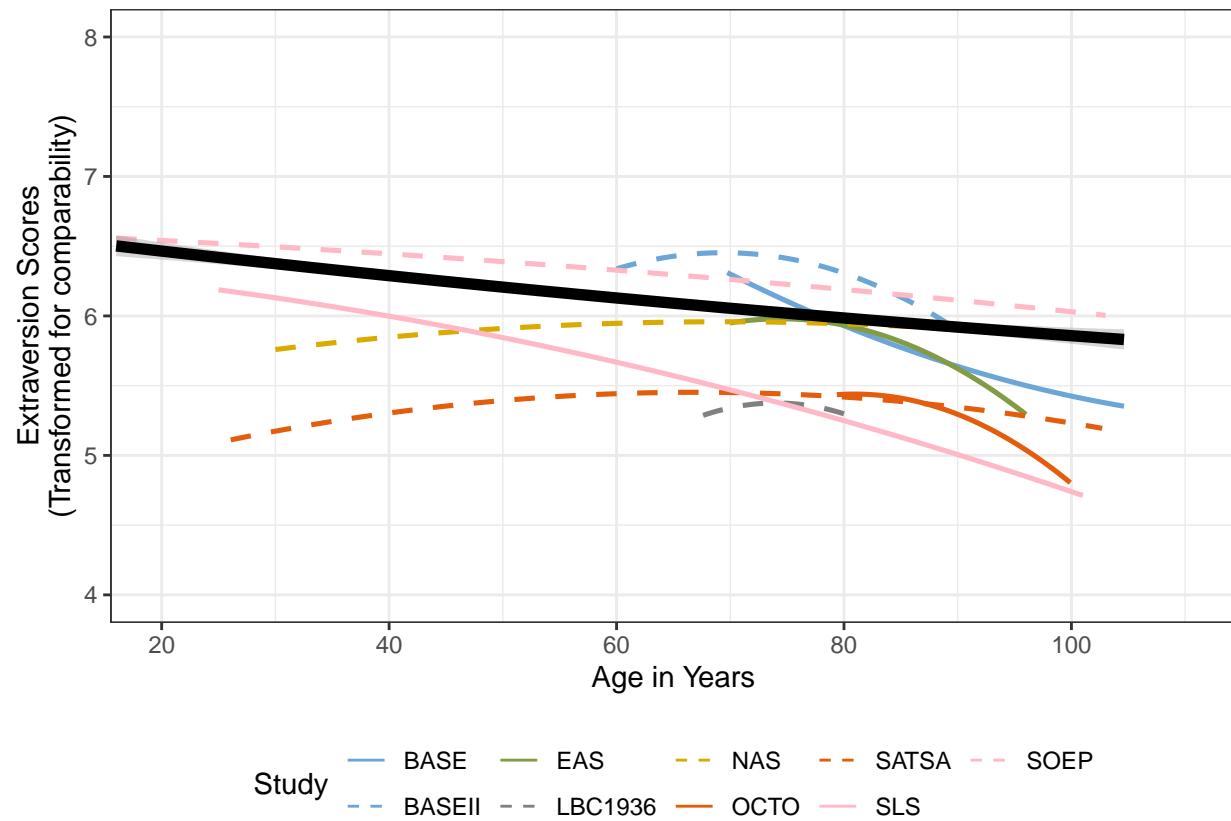


Figure S32: Quadratic Plot, Extraversion. Quadratic Trajectories of Extraversion. Black line indicates average trajectory weighted by N. At the individual study level, some showed evidence of an inverse-u, although the meta-analytic average was not significant ($p = .64$).

Quadratic Plot, unweighted, Extraversion

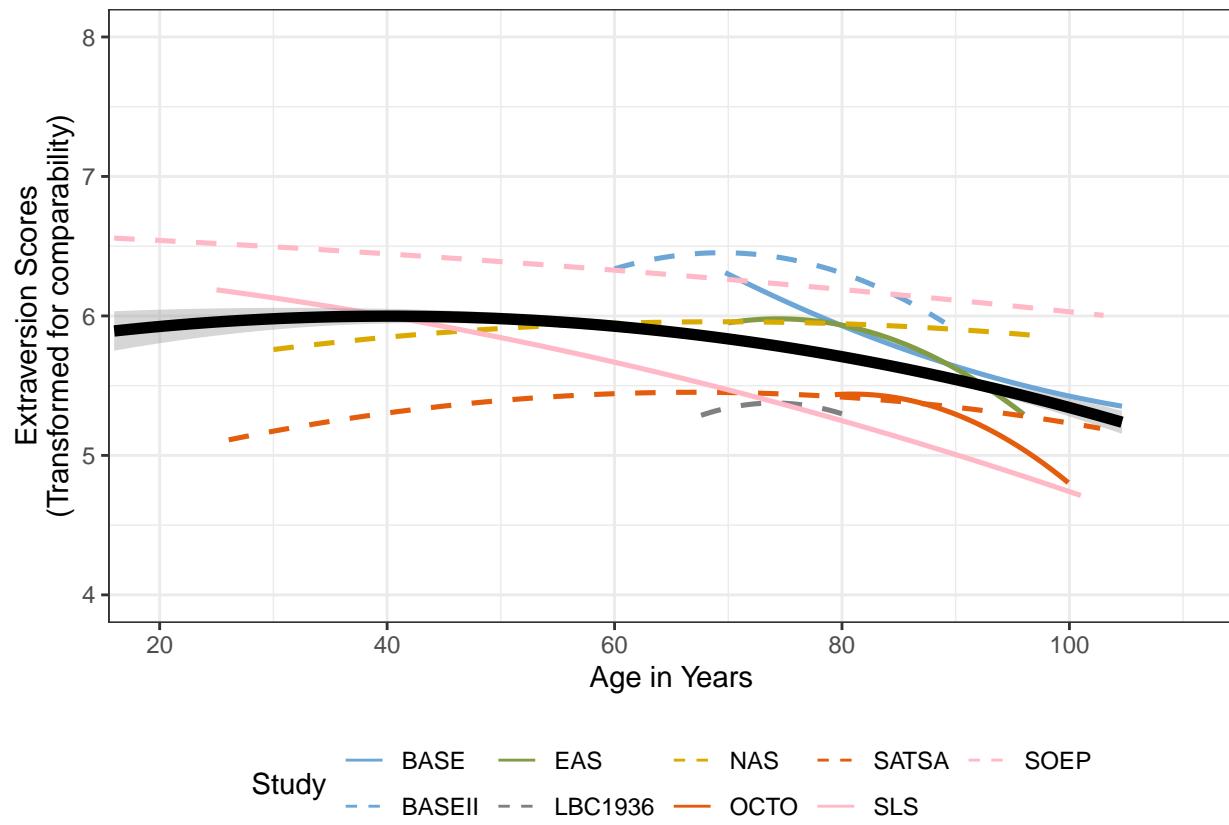


Figure S33: Quadratic Plot, unweighted, Extraversion

Quadratic Meta, Extraversion

```
##  
## Random-Effects Model (k = 9; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##   -2.8640    5.7280    9.7280   9.8869   12.1280  
##  
## tau^2 (estimated amount of total heterogeneity): 0.0545 (SE = 0.0362)  
## tau (square root of estimated tau^2 value):       0.2335  
## I^2 (total heterogeneity / total variability): 99.71%  
## H^2 (total variability / sampling variability): 341.84  
##  
## Test for Heterogeneity:  
## Q(df = 8) = 293.4781, p-val < .0001  
##  
## Model Results:  
##  
## estimate      se     zval     pval    ci.lb    ci.ub  
##  0.0428  0.0928  0.4610  0.6448  -0.1391  0.2247  
##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 9; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##   -3.0538    6.1076   12.1076   11.9454   20.1076  
##  
## tau^2 (estimated amount of residual heterogeneity):      0.0728 (SE = 0.0502)  
## tau (square root of estimated tau^2 value):            0.2698  
## I^2 (residual heterogeneity / unaccounted variability): 99.64%  
## H^2 (unaccounted variability / sampling variability): 281.03  
## R^2 (amount of heterogeneity accounted for):          0.00%  
##  
## Test for Residual Heterogeneity:  
## QE(df = 7) = 292.1161, p-val < .0001  
##  
## Test of Moderators (coefficient 2):  
## QM(df = 1) = 0.0323, p-val = 0.8575  
##  
## Model Results:  
##  
##           estimate      se     zval     pval    ci.lb    ci.ub  
## intrcpt   -0.0530  0.5871  -0.0903  0.9280  -1.2036  1.0976  
## age        0.0016  0.0092   0.1796  0.8575  -0.0163  0.0196  
##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 9; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc
```

```

## -0.5281    1.0561   15.0561    8.7464  127.0561
##
## tau^2 (estimated amount of residual heterogeneity):      0.0266 (SE = 0.0463)
## tau (square root of estimated tau^2 value):             0.1630
## I^2 (residual heterogeneity / unaccounted variability): 54.13%
## H^2 (unaccounted variability / sampling variability):  2.18
## R^2 (amount of heterogeneity accounted for):          51.26%
##
## Test for Residual Heterogeneity:
## QE(df = 3) = 6.3730, p-val = 0.0948
##
## Test of Moderators (coefficients 2:6):
## QM(df = 5) = 11.6219, p-val = 0.0404
##
## Model Results:
##
##                               estimate     se     zval    pval    ci.lb    ci.ub
## intrcpt                  0.0528  0.1288  0.4100  0.6818 -0.1996  0.3051
## scaleEPI-Q                -0.0075  0.2060 -0.0363  0.9711 -0.4113  0.3963
## scaleEPQ (NE) and NEO-PI (O) -0.0242  0.2080 -0.1161  0.9075 -0.4318  0.3835
## scaleIPIP                  0.4818  0.2428  1.9844  0.0472  0.0059  *
## scaleNEO-FFI                -0.5399  0.2943 -1.8347  0.0665 -1.1167  0.0369
## scaleNEO-PI-R                -0.2401  0.2081 -1.1538  0.2486 -0.6481  0.1678
##                               ci.ub
## intrcpt
## scaleEPI-Q
## scaleEPQ (NE) and NEO-PI (O)
## scaleIPIP
## scaleNEO-FFI
## scaleNEO-PI-R
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Mixed-Effects Model (k = 9; tau^2 estimator: REML)
##
## logLik  deviance      AIC      BIC      AICc
## -1.8892    3.7783  13.7783  11.8255  73.7783
##
## tau^2 (estimated amount of residual heterogeneity):      0.0606 (SE = 0.0542)
## tau (square root of estimated tau^2 value):             0.2461
## I^2 (residual heterogeneity / unaccounted variability): 99.05%
## H^2 (unaccounted variability / sampling variability): 105.13
## R^2 (amount of heterogeneity accounted for):          0.00%
##
## Test for Residual Heterogeneity:
## QE(df = 5) = 200.8607, p-val < .0001
##
## Test of Moderators (coefficients 2:4):
## QM(df = 3) = 3.5735, p-val = 0.3114
##
## Model Results:
##

```

```

##          estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt   -0.0664  0.1603  -0.4143  0.6786  -0.3805  0.2477
## countrySweden  0.1398  0.2873   0.4866  0.6266  -0.4233  0.7029
## countryU.S.   0.0745  0.2251   0.3311  0.7406  -0.3666  0.5157
## countryUK     0.6721  0.3601   1.8660  0.0620  -0.0338  1.3779 .
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Mixed-Effects Model (k = 9; tau^2 estimator: REML)
##
##   logLik  deviance      AIC      BIC      AICc
## -2.8570    5.7141   11.7141   11.5518   19.7141
##
## tau^2 (estimated amount of residual heterogeneity):      0.0655 (SE = 0.0457)
## tau (square root of estimated tau^2 value):             0.2560
## I^2 (residual heterogeneity / unaccounted variability): 99.57%
## H^2 (unaccounted variability / sampling variability): 233.57
## R^2 (amount of heterogeneity accounted for):           0.00%
##
## Test for Residual Heterogeneity:
## QE(df = 7) = 141.5645, p-val < .0001
##
## Test of Moderators (coefficient 2):
## QM(df = 1) = 0.4017, p-val = 0.5262
##
## Model Results:
##
##          estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt   -0.0665  0.2064  -0.3219  0.7475  -0.4710  0.3381
## mo        0.0177  0.0280   0.6338  0.5262  -0.0371  0.0725
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

```

Sex, Table, Extraversion

Table S22: Linear Trajectories of Extraversion, Moderated by Sex

coef	BASE	BASEII	EAS	HRS	ILSE	ILSE.Y	LBC1936	MIDUS	OCTO	SATSA	SLS	SOEP	WLSG	WLSS
Fixed Effects														
Intercept	6.44	6.27	6.49	7.29	5.59	5.73	5.33	7.11	5.98	5.56	5.57	6.23	5.72	5.64
Age	0.16	0.07	0.17	0.02	0.06	0.09	0.06	0.02	0.34	0.03	0.04	0.01	0.02	0.02
Sex	p < .001													
Age x Sex	-0.26	0.05	-0.30	-0.10	-0.16	-0.12	-0.03	-0.09	-0.20	0.03	-0.18	-0.05	-0.04	0.01
	0.06	0.06	0.08	0.01	0.05	0.05	0.04	0.01	0.14	0.01	0.02	0	0.01	0.01
	p < .001	p = .227	p < .001	p < .001	p = .001	p = .001	p < .001	p < .001	p = .072	p = .032	p < .001	p < .001	p < .001	p = .318
	0.19	0.32	-0.32	0.15	-0.06	-0.03	0.04	0.15	-0.32	-0.24	0.14	0.17	0.11	0.02
	0.22	0.1	0.22	0.02	0.09	0.12	0.09	0.03	0.43	0.04	0.05	0.01	0.02	0.03
	p = .193	p < .001	p = .078	p < .001	p = .269	p = .391	p = .318	p < .001	p = .224	p = .001	p = .003	p < .001	p < .001	p = .272
	-0.07	-0.10	0.17	0.02	0.05	-0.06	0.05	0.01	0.08	-0.01	-0.03	-0.01	0.00	-0.03
	0.08	0.09	0.1	0.01	0.07	0.08	0.05	0.01	0.17	0.02	0.02	0.01	0.01	0.02
	p = .207	p = .129	p = .045	p = .074	p = .23	p = .227	p = .192	p = .117	p = .324	p = .22	p = .127	p = .003	p = .431	p = .022
Random Effects														
τ_{00}	0.49	0.86	1.59	0.68	0.74	0.93	0.98	0.75	0.98	0.65	0.90	0.57	0.73	0.71
τ_{01}	0.01	-0.16	-0.37	-0.02	-0.06	0.21	-0.14	0.02	-0.08	-0.04	-0.04	-0.01	-0.02	-0.03
τ_{11}	0.02	0.17	0.15	0.03	0.12	0.18	0.13	0.00	0.01	0.04	0.00	0.00	0.05	0.04
σ^2	0.28	0.26	0.21	0.34	0.23	0.25	0.18	0.31	0.31	0.28	0.13	0.38	0.21	0.20
N_{people}	516	1,276	713	16,053	488	500	1,032	6,390	495	2,142	1,541	33,611	7,827	4,675
N_{obs}	983	3,816	1,667	35,049	1,223	1,266	3,016	12,964	1,122	8,296	4,023	74,039	18,000	9,671
LL	-1185	-4237	-1826	-44117	-1419	-1511	-3124	-16213	-1348	-9093	-3692	-92708	-20597	-11063

^a LL = Log Likelihood; Age = age (centered at 60)

Sex, Plot, Extraversion. Linear Trajectories of Extraversion, Moderated by sex.

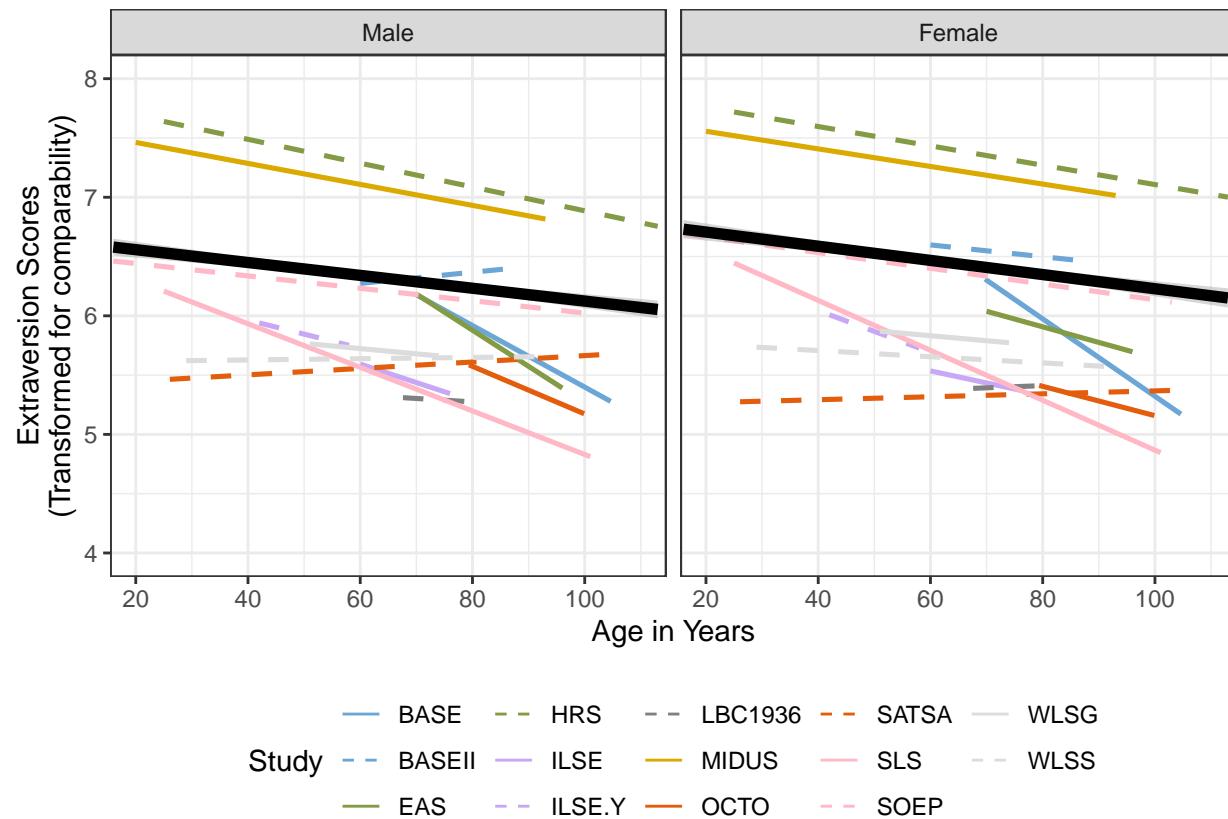


Figure S34: Sex, Plot, Extraversion. Linear Trajectories of Extraversion, Moderated by sex. Black line indicates average trajectory weighted by N. At the individual study level, few showed evidence that being female was associated with greater declines in extraversion, and the meta-analytic average was not significant ($p = .52$)

Sex, Plot, unweighted, Extraversion

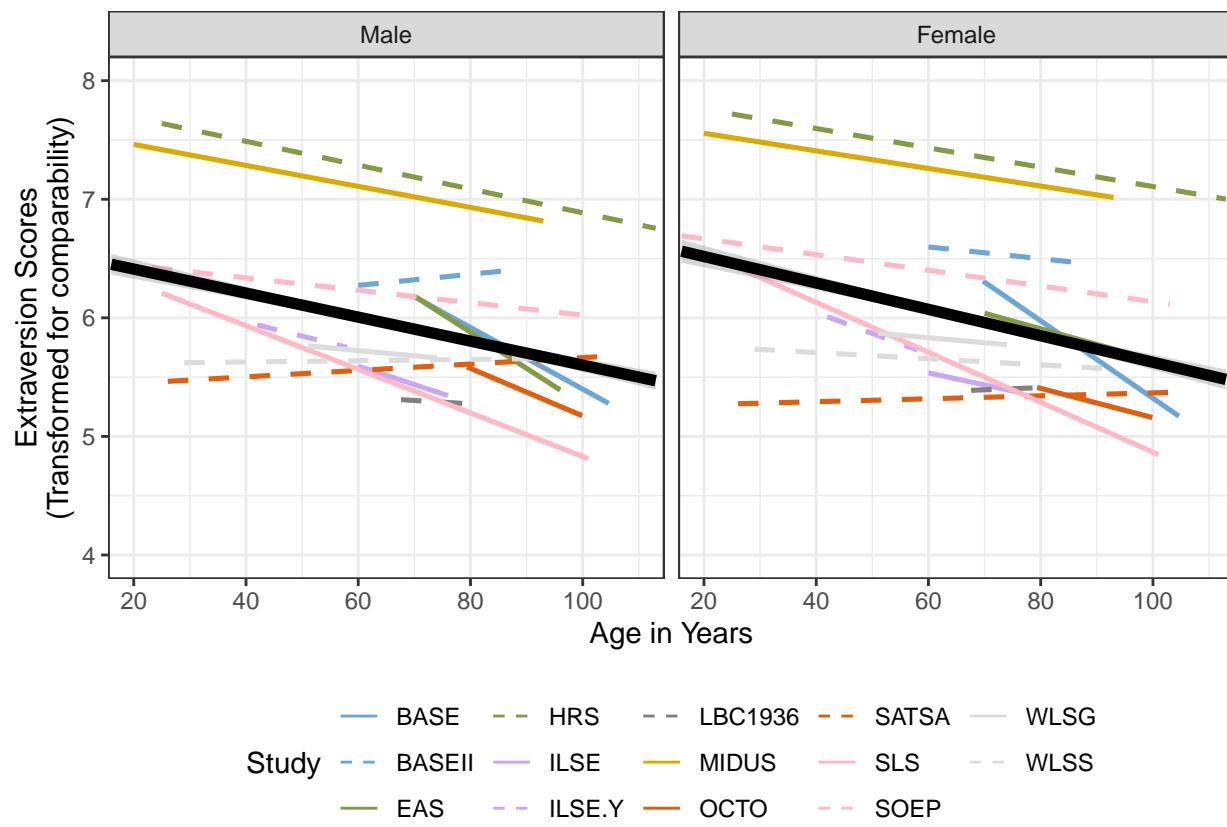


Figure S35: Sex, Plot, unweighted, Extraversion

Sex, Meta Analysis, Extraversion

```
##  
## Random-Effects Model (k = 14; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##  22.6505  -45.3010  -41.3010  -40.1711  -40.1010  
##  
## tau^2 (estimated amount of total heterogeneity): 0.0002 (SE = 0.0002)  
## tau (square root of estimated tau^2 value):       0.0127  
## I^2 (total heterogeneity / total variability):   35.72%  
## H^2 (total variability / sampling variability): 1.56  
##  
## Test for Heterogeneity:  
## Q(df = 13) = 20.0379, p-val = 0.0943  
##  
## Model Results:  
##  
## estimate      se     zval     pval    ci.lb    ci.ub  
## -0.0044  0.0067 -0.6484  0.5167 -0.0176  0.0088  
##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 14; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##  20.6263  -41.2526  -35.2526  -33.7979  -32.2526  
##  
## tau^2 (estimated amount of residual heterogeneity):      0.0002 (SE = 0.0002)  
## tau (square root of estimated tau^2 value):            0.0133  
## I^2 (residual heterogeneity / unaccounted variability): 33.53%  
## H^2 (unaccounted variability / sampling variability):  1.50  
## R^2 (amount of heterogeneity accounted for):          0.00%  
##  
## Test for Residual Heterogeneity:  
## QE(df = 12) = 17.5425, p-val = 0.1303  
##  
## Test of Moderators (coefficient 2):  
## QM(df = 1) = 0.6150, p-val = 0.4329  
##  
## Model Results:  
##  
##           estimate      se     zval     pval    ci.lb    ci.ub  
## intrcpt  -0.0395  0.0454 -0.8709  0.3838 -0.1285  0.0494  
## age       0.0006  0.0008  0.7842  0.4329 -0.0010  0.0022  
##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 14; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc
```

```

## 14.3233 -28.6466 -16.6466 -15.4633 25.3534
##
## tau^2 (estimated amount of residual heterogeneity): 0.0001 (SE = 0.0003)
## tau (square root of estimated tau^2 value): 0.0122
## I^2 (residual heterogeneity / unaccounted variability): 20.45%
## H^2 (unaccounted variability / sampling variability): 1.26
## R^2 (amount of heterogeneity accounted for): 7.45%
##
## Test for Residual Heterogeneity:
## QE(df = 9) = 11.3279, p-val = 0.2539
##
## Test of Moderators (coefficients 2:5):
## QM(df = 4) = 4.0694, p-val = 0.3967
##
## Model Results:
##
##          estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt -0.0120 0.0128 -0.9356 0.3495 -0.0371 0.0131
## countryGermany -0.0041 0.0179 -0.2295 0.8185 -0.0392 0.0310
## countrySweden -0.0011 0.0257 -0.0409 0.9674 -0.0515 0.0494
## countryU.S. 0.0226 0.0170 1.3348 0.1819 -0.0106 0.0559
## countryUK 0.0594 0.0572 1.0384 0.2991 -0.0527 0.1715
##
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Mixed-Effects Model (k = 14; tau^2 estimator: REML)
##
## logLik deviance      AIC      BIC      AICc
## 10.2889 -20.5777 -2.5777 -4.4519 177.4223
##
## tau^2 (estimated amount of residual heterogeneity): 0.0001 (SE = 0.0002)
## tau (square root of estimated tau^2 value): 0.0089
## I^2 (residual heterogeneity / unaccounted variability): 14.00%
## H^2 (unaccounted variability / sampling variability): 1.16
## R^2 (amount of heterogeneity accounted for): 51.12%
##
## Test for Residual Heterogeneity:
## QE(df = 6) = 6.7431, p-val = 0.3453
##
## Test of Moderators (coefficients 2:8):
## QM(df = 7) = 9.2755, p-val = 0.2335
##
## Model Results:
##
##          estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt -0.0113 0.0113 -0.9966 0.3190 -0.0334
## scaleBFI-S -0.0038 0.0152 -0.2523 0.8008 -0.0335
## scaleEPI-Q 0.0885 0.1695 0.5221 0.6016 -0.2437
## scaleEPQ (NE) and NEO-PI (O) -0.0034 0.0238 -0.1418 0.8873 -0.0500
## scaleIPIP 0.0868 0.0499 1.7388 0.0821 -0.0110
## scaleMIDI 0.0277 0.0157 1.7719 0.0764 -0.0029
## scaleNEO-FFI -0.0079 0.0460 -0.1711 0.8641 -0.0980

```

```

## scaleNEO-PI-R           -0.0155  0.0275 -0.5634  0.5732 -0.0694
## ci.ub
## intrcpt                0.0109
## scaleBFI-S              0.0259
## scaleEPI-Q              0.4208
## scaleEPQ (NE) and NEO-PI (O) 0.0432
## scaleIPIP                0.1845 .
## scaleMIDI                0.0584 .
## scaleNEO-FFI              0.0822
## scaleNEO-PI-R             0.0384
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Mixed-Effects Model (k = 14; tau^2 estimator: REML)
##
##   logLik  deviance      AIC      BIC      AICc
## 20.8169 -41.6337 -35.6337 -34.1790 -32.6337
##
## tau^2 (estimated amount of residual heterogeneity): 0.0002 (SE = 0.0002)
## tau (square root of estimated tau^2 value):        0.0149
## I^2 (residual heterogeneity / unaccounted variability): 43.11%
## H^2 (unaccounted variability / sampling variability): 1.76
## R^2 (amount of heterogeneity accounted for):       0.00%
##
## Test for Residual Heterogeneity:
## QE(df = 12) = 19.6782, p-val = 0.0734
##
## Test of Moderators (coefficient 2):
## QM(df = 1) = 0.1094, p-val = 0.7409
##
## Model Results:
##
##   estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt   -0.0107  0.0206 -0.5188  0.6039 -0.0510  0.0296
## mo         0.0017  0.0051  0.3307  0.7409 -0.0083  0.0117
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

```

Retirement Status, Table, Extraversion

Table S23: Linear Trajectories of Extraversion, Moderated by Retirement Status

coef	BASEII	HRS	ILSE	ILSE.Y	MIDUS	NAS	SATSA	SLS	SOEP	WLSG	WLSS
Fixed Effects											
Intercept	6.51	7.37	5.55	5.74	7.17	5.94	5.50	5.60	6.32	5.79	5.66
Age	0.12 p < .001	0.01 p < .001	0.13 p < .001	0.07 p < .001	0.02 p < .001	0.02 p < .001	0.03 p < .001	0.03 p < .001	0.01 p < .001	0.01 p < .001	0.02 p < .001
retired	0.03 p = 0.438	-0.10 p < .001	-0.18 p = 0.036	-0.18 p < .001	-0.08 p < .001	0.02 p = 0.012	0.04 p = 0.001	-0.20 p < .001	-0.05 p < .001	-0.04 p < .001	0.01 p = 0.194
Age x retired	0.19 p = 0.255	0.01 p < .001	0.1 p = 0.455	0.04 p = 0.281	0.01 p < .001	0.01 p = 0.103	0.01 p = 0.003	0.01 p = 0.002	0.01 p = 0.09	0.01 p = 0.458	0.01 p = 0.216
retired	-0.09 p = -0.02	0.16 0.01	0.02 0.06	-0.10 0.17	0.23 -0.10	-0.11 -0.07	-0.13 -0.04	0.21 -0.07	-0.03 0.00	0.00 -0.01	-0.03 -0.06
Age x retired	0.13 p = 0.451	0.03 p = 0.387	0.14 p = 0.299	0.16 p = 0.046	0.04 p < .001	0.09 p = 0.029	0.05 p = 0.056	0.07 p = 0.029	0.02 p = 0.425	0.03 p = 0.257	0.01 p < .001
Random Effects											
τ_{00}	0.88	0.67	0.74	0.93	0.75	0.70	0.66	0.91	0.57	0.73	0.72
τ_{01}	-0.17	0.00	-0.06	0.21	0.02	0.00	-0.04	-0.05	-0.01	-0.02	-0.03
τ_{11}	0.18	0.02	0.12	0.18	0.00	0.03	0.04	0.00	0.00	0.05	0.04
σ^2	0.26	0.33	0.23	0.25	0.32	0.30	0.28	0.13	0.38	0.20	0.20
N_{people}	1,276	13,493	488	499	6,368	1,480	1,842	1,513	20,777	7,246	3,921
N_{obs}	3,816	30,483	1,223	1,265	12,918	8,027	7,741	3,967	56,503	16,925	8,421
LL	-4247	-37853	-1419	-1501	-16176	-8754	-8439	-3638	-69257	-19301	-9554

^a LL = Log Likelihood; Age = age (centered at 60)

Retirement Status, Plot, Extraversion.

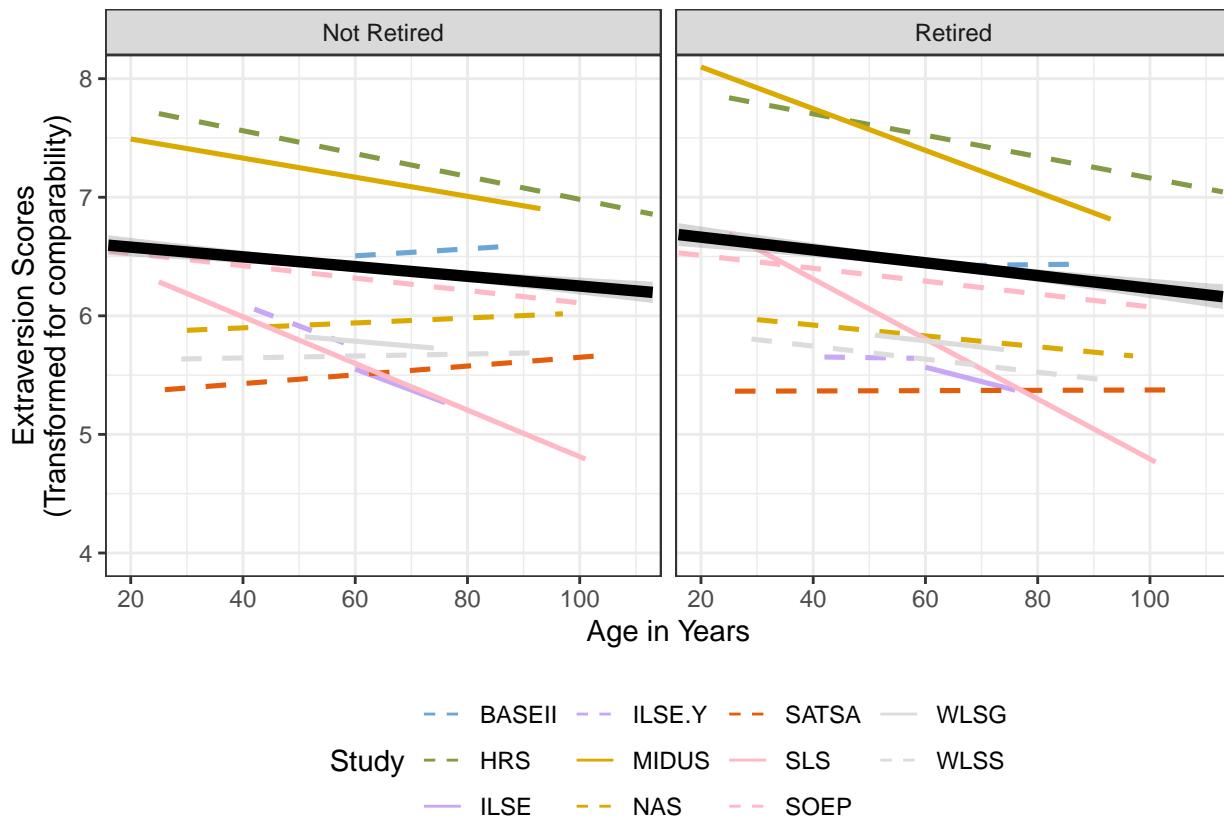


Figure S36: Retirement Status, Plot, Extraversion. Linear Trajectories of Extraversion, moderated by retirement status. Black line indicates average trajectory weighted by N. At the individual study level, few showed evidence that being retired was associated with greater declines in extraversion, and the meta-analytic average was significant ($p = .013$)

Retirement Status, Plot, unweighted, Extraversion

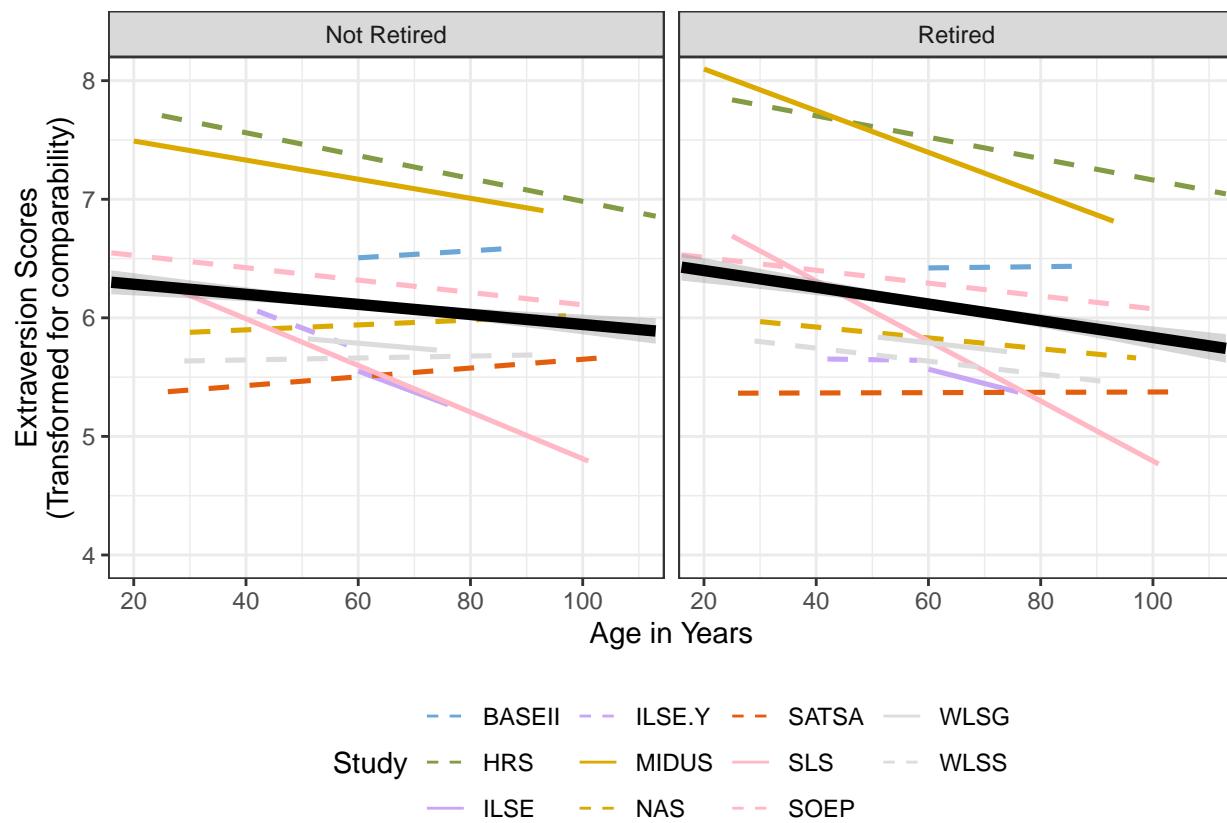


Figure S37: Retirement Status, Plot, unweighted, Extraversion

Retirement Status, Meta Analysis, Extraversion

```
##  
## Random-Effects Model (k = 11; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##  14.4133  -28.8267  -24.8267  -24.2215  -23.1124  
##  
## tau^2 (estimated amount of total heterogeneity): 0.0009 (SE = 0.0008)  
## tau (square root of estimated tau^2 value):       0.0307  
## I^2 (total heterogeneity / total variability):   62.96%  
## H^2 (total variability / sampling variability):  2.70  
##  
## Test for Heterogeneity:  
## Q(df = 10) = 28.1859, p-val = 0.0017  
##  
## Model Results:  
##  
## estimate      se     zval    pval    ci.lb    ci.ub  
## -0.0326  0.0131  -2.4817  0.0131  -0.0584  -0.0069  *  
##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 11; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##  12.4814  -24.9628  -18.9628  -18.3711  -14.1628  
##  
## tau^2 (estimated amount of residual heterogeneity):      0.0011 (SE = 0.0009)  
## tau (square root of estimated tau^2 value):            0.0326  
## I^2 (residual heterogeneity / unaccounted variability): 63.24%  
## H^2 (unaccounted variability / sampling variability):  2.72  
## R^2 (amount of heterogeneity accounted for):          0.00%  
##  
## Test for Residual Heterogeneity:  
## QE(df = 9) = 28.1371, p-val = 0.0009  
##  
## Test of Moderators (coefficient 2):  
## QM(df = 1) = 0.2818, p-val = 0.5955  
##  
## Model Results:  
##  
##           estimate      se     zval    pval    ci.lb    ci.ub  
## intrcpt   -0.0869  0.1033  -0.8412  0.4002  -0.2893  0.1155  
## age        0.0010  0.0019   0.5308  0.5955  -0.0027  0.0046  
##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 11; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc
```

```

##   9.5146 -19.0292 -9.0292 -9.2996 50.9708
##
## tau^2 (estimated amount of residual heterogeneity):      0.0014 (SE = 0.0014)
## tau (square root of estimated tau^2 value):             0.0379
## I^2 (residual heterogeneity / unaccounted variability): 61.18%
## H^2 (unaccounted variability / sampling variability):  2.58
## R^2 (amount of heterogeneity accounted for):          0.00%
##
## Test for Residual Heterogeneity:
## QE(df = 7) = 18.0308, p-val = 0.0118
##
## Test of Moderators (coefficients 2:4):
## QM(df = 3) = 3.0413, p-val = 0.3853
##
## Model Results:
##
##           estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt      -0.0373  0.0298 -1.2517  0.2107 -0.0958  0.0211
## countryGermany  0.0577  0.0457  1.2632  0.2065 -0.0319  0.1473
## countrySweden   0.0017  0.0532  0.0315  0.9749 -0.1026  0.1059
## countryU.S.     -0.0143  0.0378 -0.3788  0.7048 -0.0884  0.0598
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Mixed-Effects Model (k = 11; tau^2 estimator: REML)
##
## logLik  deviance      AIC      BIC      AICc
## 4.8892 -9.7785  6.2215  1.3119 150.2215
##
## tau^2 (estimated amount of residual heterogeneity):      0.0024 (SE = 0.0028)
## tau (square root of estimated tau^2 value):             0.0490
## I^2 (residual heterogeneity / unaccounted variability): 75.43%
## H^2 (unaccounted variability / sampling variability):  4.07
## R^2 (amount of heterogeneity accounted for):          0.00%
##
## Test for Residual Heterogeneity:
## QE(df = 4) = 15.0733, p-val = 0.0046
##
## Test of Moderators (coefficients 2:7):
## QM(df = 6) = 4.2874, p-val = 0.6378
##
## Model Results:
##
##           estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt      -0.0374  0.0370 -1.0093  0.3128 -0.1099
## scaleBFI-S       0.0340  0.0612  0.5560  0.5782 -0.0859
## scaleEPI-Q      -0.0291  0.0706 -0.4120  0.6803 -0.1676
## scaleEPQ (NE) and NEO-PI (O)  0.0017  0.0654  0.0263  0.9790 -0.1264
## scaleMIDI        -0.0070  0.0530 -0.1325  0.8946 -0.1110
## scaleNEO-FFI      0.1529  0.0892  1.7140  0.0865 -0.0219
## scaleNEO-PI-R     -0.0190  0.0682 -0.2785  0.7807 -0.1526
## ci.ub

```

```

## intrcpt          0.0352
## scaleBFI-S      0.1539
## scaleEPI-Q      0.1094
## scaleEPQ (NE) and NEO-PI (O) 0.1298
## scaleMIDI        0.0969
## scaleNEO-FFI     0.3277 .
## scaleNEO-PI-R    0.1147
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Mixed-Effects Model (k = 11; tau^2 estimator: REML)
##
##   logLik  deviance      AIC      BIC      AICc
##  12.4671 -24.9343 -18.9343 -18.3426 -14.1343
##
## tau^2 (estimated amount of residual heterogeneity): 0.0011 (SE = 0.0009)
## tau (square root of estimated tau^2 value):       0.0333
## I^2 (residual heterogeneity / unaccounted variability): 67.09%
## H^2 (unaccounted variability / sampling variability): 3.04
## R^2 (amount of heterogeneity accounted for):       0.00%
##
## Test for Residual Heterogeneity:
## QE(df = 9) = 27.7067, p-val = 0.0011
##
## Test of Moderators (coefficient 2):
## QM(df = 1) = 0.4352, p-val = 0.5094
##
## Model Results:
##
##           estimate      se      zval     pval    ci.lb    ci.ub
## intrcpt   -0.0154  0.0295 -0.5212  0.6022 -0.0731  0.0424
## mo        -0.0039  0.0059 -0.6597  0.5094 -0.0155  0.0077
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

```

Married, Table, Extraversion

Table S24: Linear Trajectories of Extraversion, Moderated by Marriage

coef	BASE	BASEII	EAS	HRS	ILSE	ILSE.Y	LBC1936MIDUS	NAS	OCTO	SATSA	SLS	SOEP	WLSG	WLSS		
Fixed Effects																
Intercept	6.61	6.39	6.18	7.36	5.51	5.41	5.39	7.16	5.90	5.46	5.38	5.56	6.32	5.69	5.56	
Age	0.14 .001	0.08 .001	0.14 .001	0.02 .001	0.09 .001	0.12 .001	0.08 .001	0.02 .001	0.08 .001	0.25 .001	0.04 .001	0.05 .001	0.01 .001	0.03 .001	0.03 .001	
Age	-0.32 .001	-0.02 .361	-0.13 .021	-0.09 .001	-0.12 .034	-0.27 .001	-0.01 .441	-0.09 .001	0.02 .261	-0.05 .323	-0.02 .171	-0.18 .001	-0.05 .001	-0.02 .05	-0.02 .11	-0.04 .11
Age	0.05 .001	0.07 .361	0.06 .021	0.01 .001	0.07 .034	0.08 .001	0.05 .441	0.01 .001	0.03 .261	0.1 .323	0.02 .171	0.02 .001	0 .001	0.01 .05	0.01 .022	
Age	-0.21 .21	-0.04 .04	0.30 .30	0.01 .01	0.07 .07	0.41 .41	-0.05 .04	0.04 .03	0.88 .08	0.05 .05	0.12 .12	-0.02 .02	0 .02	0.01 .11	0.02 .11	
married	0.23	0.11	0.23	0.02	0.1	0.14	0.1	0.03	0.09	0.43	0.05	0.06	0.01	0.03	0.03	
Age	0.18 0.09	0.357 0.09	0.094 -0.18	0.276 -0.01	0.254 -0.01	0.002 0.17	0.299 0.00	0.066 0.01	0.351 -0.01	0.019 -0.31	0.139 0.05	0.023 -0.03	0.042 -0.01	p < .001 -0.02	p < .001 0.03	
x married	0.09	0.09	0.1	0.01	0.08	0.09	0.06	0.01	0.03	0.17	0.02	0.03	0.01	0.02	0.02	
x married	0.17	0.17	0.041	0.321	0.47	0.026	0.483	0.251	0.426	0.035	0.022	0.15	0.059	0.073	0.055	
Random Effects																
τ_{00}	0.47	0.94	1.61	0.68	0.74	0.91	0.98	0.75	0.70	0.93	0.67	0.90	0.57	0.73	0.71	
τ_{01}	0.02	-0.19	-0.38	-0.01	-0.06	0.20	-0.14	0.02	0.00	-0.06	-0.04	-0.04	-0.01	-0.02	-0.03	
τ_{11}	0.02	0.17	0.15	0.03	0.12	0.18	0.13	0.00	0.03	0.00	0.04	0.00	0.00	0.05	0.04	
σ^2	0.28	0.26	0.21	0.34	0.23	0.25	0.18	0.32	0.30	0.31	0.28	0.13	0.38	0.20	0.20	
N_{people}	516	1,005	712	15,426	488	499	1,032	6,406	1,479	495	1,901	1,504	20,776	7,640	4,457	
N_{obs}	983	3,544	1,664	34,298	1,223	1,265	3,016	12,989	8,023	1,122	7,842	3,954	56,501	17,723	9,362	
LL	-1185	-3864	-1820	-43130	-1419	-1505	-3125	-16287	-8754	-1346	-8559	-3628	-69253	-20248	-10681	

^a LL = Log Likelihood; Age = age (centered at 60)

Married, Plot, Extraversion. Linear Trajectories of Extraversion, moderated by marriage.

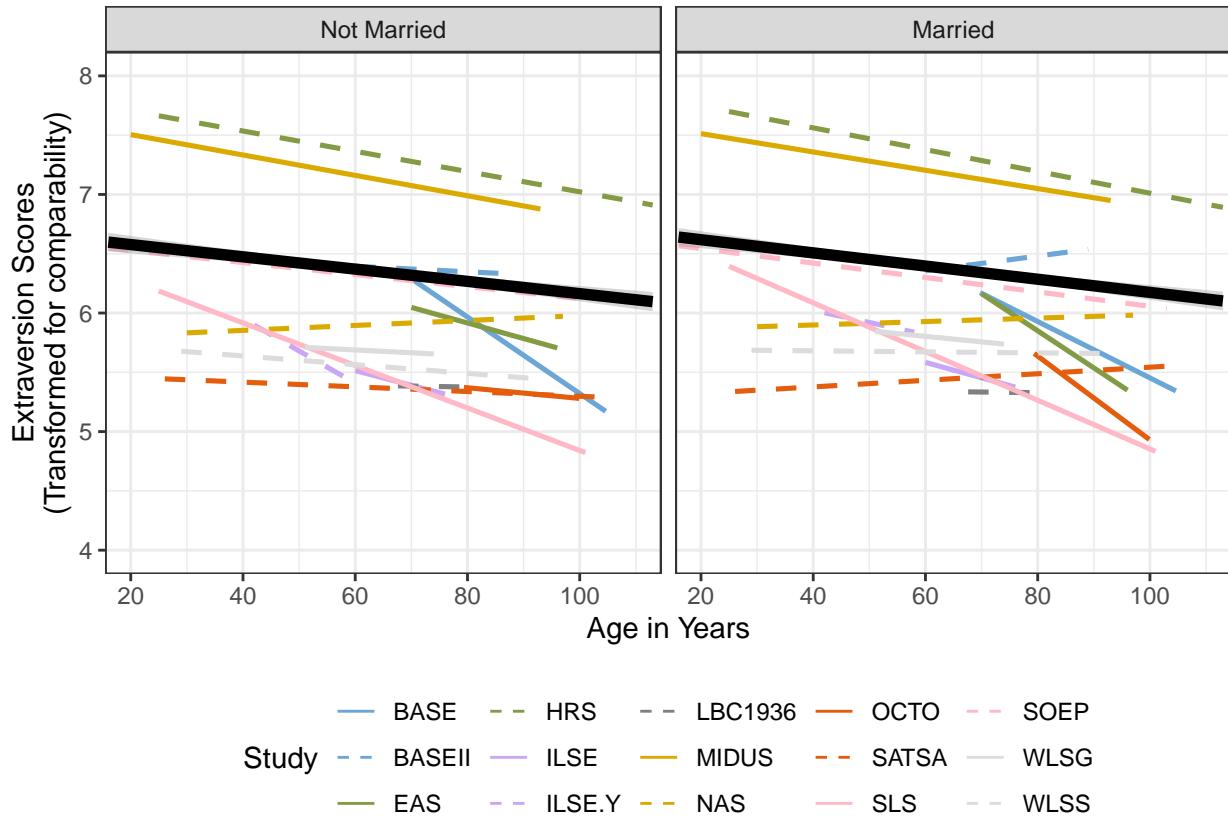


Figure S38: Married, Plot, Extraversion. Linear Trajectories of Extraversion, moderated by marriage. Black line indicates average trajectory weighted by N. At the individual study level, none showed evidence that being married was associated with greater declines in extraversion, and the meta-analytic average was not significant ($p = .98$).

Married, Plot, unweighted, Extraversion

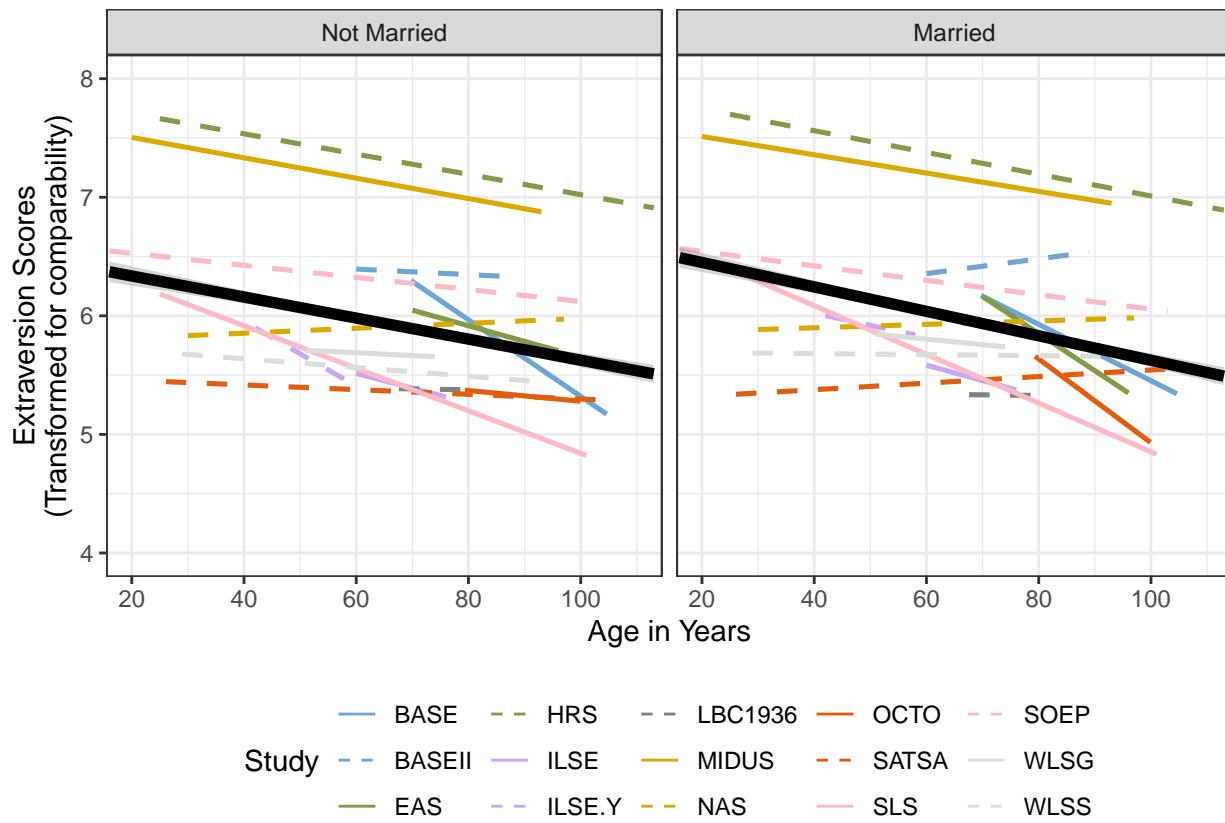


Figure S39: Married, Plot, unweighted, Extraversion

Married, Meta Analysis, Extraversion

```
##  
## Random-Effects Model (k = 15; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##  20.6190 -41.2379 -37.2379 -35.9598 -36.1470  
##  
## tau^2 (estimated amount of total heterogeneity): 0.0002 (SE = 0.0002)  
## tau (square root of estimated tau^2 value):       0.0127  
## I^2 (total heterogeneity / total variability):   27.40%  
## H^2 (total variability / sampling variability):  1.38  
##  
## Test for Heterogeneity:  
## Q(df = 14) = 24.1673, p-val = 0.0437  
##  
## Model Results:  
##  
## estimate      se     zval    pval    ci.lb    ci.ub  
##  0.0002  0.0072  0.0251  0.9800 -0.0139  0.0142  
##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 15; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##  18.5245 -37.0490 -31.0490 -29.3541 -28.3823  
##  
## tau^2 (estimated amount of residual heterogeneity):      0.0003 (SE = 0.0004)  
## tau (square root of estimated tau^2 value):            0.0176  
## I^2 (residual heterogeneity / unaccounted variability): 37.50%  
## H^2 (unaccounted variability / sampling variability):  1.60  
## R^2 (amount of heterogeneity accounted for):          0.00%  
##  
## Test for Residual Heterogeneity:  
## QE(df = 13) = 24.1661, p-val = 0.0296  
##  
## Test of Moderators (coefficient 2):  
## QM(df = 1) = 0.2676, p-val = 0.6050  
##  
## Model Results:  
##  
##           estimate      se     zval    pval    ci.lb    ci.ub  
## intrcpt    0.0292  0.0545  0.5357  0.5922 -0.0776  0.1359  
## age       -0.0005  0.0010 -0.5173  0.6050 -0.0024  0.0014  
##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 15; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc
```

```

## 12.2114 -24.4229 -12.4229 -10.6074 15.5771
##
## tau^2 (estimated amount of residual heterogeneity): 0.0005 (SE = 0.0006)
## tau (square root of estimated tau^2 value): 0.0224
## I^2 (residual heterogeneity / unaccounted variability): 39.82%
## H^2 (unaccounted variability / sampling variability): 1.66
## R^2 (amount of heterogeneity accounted for): 0.00%
##
## Test for Residual Heterogeneity:
## QE(df = 10) = 20.0378, p-val = 0.0289
##
## Test of Moderators (coefficients 2:5):
## QM(df = 4) = 1.7094, p-val = 0.7890
##
## Model Results:
##
##          estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt      0.0021  0.0203   0.1023  0.9185 -0.0377  0.0418
## countryGermany 0.0072  0.0289   0.2493  0.8031 -0.0495  0.0639
## countrySweden  0.0331  0.0379   0.8734  0.3825 -0.0411  0.1073
## countryU.S.   -0.0107  0.0251  -0.4259  0.6702 -0.0600  0.0386
## countryUK       0.0004  0.0677   0.0065  0.9948 -0.1322  0.1331
##
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Mixed-Effects Model (k = 15; tau^2 estimator: REML)
##
##          logLik  deviance      AIC      BIC      AICc
##          7.7278 -15.4555  2.5445  2.0577 182.5445
##
## tau^2 (estimated amount of residual heterogeneity): 0.0005 (SE = 0.0008)
## tau (square root of estimated tau^2 value): 0.0231
## I^2 (residual heterogeneity / unaccounted variability): 41.74%
## H^2 (unaccounted variability / sampling variability): 1.72
## R^2 (amount of heterogeneity accounted for): 0.00%
##
## Test for Residual Heterogeneity:
## QE(df = 7) = 13.9807, p-val = 0.0515
##
## Test of Moderators (coefficients 2:8):
## QM(df = 7) = 6.0480, p-val = 0.5342
##
## Model Results:
##
##          estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt      0.0022  0.0207   0.1050  0.9163 -0.0383
## scaleBFI-S    -0.0062  0.0311  -0.1984  0.8427 -0.0670
## scaleEPI-Q    -0.0247  0.0448  -0.5519  0.5810 -0.1126
## scaleEPQ (NE) and NEO-PI (O)  0.0454  0.0389   1.1651  0.2440 -0.0310
## scaleIPIP     -0.0492  0.0591  -0.8328  0.4049 -0.1651
## scaleMIDI     -0.0009  0.0280  -0.0316  0.9748 -0.0557
## scaleNEO-FFI    0.0763  0.0551   1.3835  0.1665 -0.0318

```

```

## scaleNEO-PI-R           -0.0282  0.0398 -0.7074  0.4793 -0.1063
##                               ci.ub
## intrcpt                  0.0426
## scaleBFI-S                0.0547
## scaleEPI-Q                0.0631
## scaleEPQ (NE) and NEO-PI (O) 0.1217
## scaleIPIP                 0.0666
## scaleMIDI                  0.0539
## scaleNEO-FFI                0.1843
## scaleNEO-PI-R                0.0499
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Mixed-Effects Model (k = 15; tau^2 estimator: REML)
##
##   logLik  deviance      AIC      BIC      AICc
## 18.5958 -37.1916 -31.1916 -29.4968 -28.5250
##
## tau^2 (estimated amount of residual heterogeneity): 0.0002 (SE = 0.0003)
## tau (square root of estimated tau^2 value):        0.0154
## I^2 (residual heterogeneity / unaccounted variability): 36.29%
## H^2 (unaccounted variability / sampling variability): 1.57
## R^2 (amount of heterogeneity accounted for):       0.00%
##
## Test for Residual Heterogeneity:
## QE(df = 13) = 24.1632, p-val = 0.0297
##
## Test of Moderators (coefficient 2):
## QM(df = 1) = 0.0707, p-val = 0.7903
##
## Model Results:
##
##             estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt    0.0050  0.0175  0.2872  0.7740 -0.0292  0.0393
## mo        -0.0010  0.0038 -0.2660  0.7903 -0.0085  0.0065
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

```

Divorce, Table, Extraversion

Table S25: Linear Trajectories of Extraversion, Moderated by Divorce

coef	BASE	BASEII	EAS	HRS	ILSE	ILSE.Y	LBC1936	MIDUS	SATSA	SLS	SOEP	WLSG	WLSS
Fixed Effects													
Intercept	6.56	6.37	6.27	7.36	5.57	5.76	5.34	7.18	5.40	5.65	6.30	5.78	5.65
Age	0.11	0.06	0.12	0.01	0.05	0.07	0.05	0.01	0.02	0.03	0.01	0.01	0.01
	p < .001	p < .001	p < .001	p < .001	p < .001	p < .001	p < .001	p < .001	p < .001	p < .001	p < .001	p < .001	p < .001
	-0.30	0.03	-0.20	-0.08	-0.12	-0.12	0.00	-0.08	0.02	-0.20	-0.06	-0.04	0.00
	0.04	0.05	0.05	0.01	0.04	0.04	0.03	0.01	0.01	0.01	0	0.01	0.01
	p < .001	p = .001	p < .001	p < .001	p = .001	p = .002	0.444	.001	0.05	.001	.001	.001	0.289
	-0.08	0.00	0.03	0.14	-0.04	-0.31	0.15	0.06	0.09	-0.07	0.12	0.03	-0.04
divorce	0.37	0.12	0.3	0.03	0.16	0.17	0.18	0.04	0.07	0.08	0.02	0.03	0.04
	p = .416	p = .49	p = 0.465	p < .001	p = .395	p = 0.03	p = 0.2	p = .063	p = 0.116	p = 0.187	p < .001	p = 0.19	p = 0.211
	-0.09	-0.02	0.05	-0.06	-0.08	-0.17	-0.03	0.00	-0.01	-0.03	-0.01	0.00	-0.05
Age x divorce	0.15	0.1	0.15	0.02	0.13	0.1	0.11	0.02	0.03	0.04	0.01	0.02	0.03
	p = .275	p = 0.407	p = 0.369	p < .001	p = 0.266	p = 0.046	p = 0.398	p = 0.43	p = 0.356	p = 0.178	p = 0.162	p = 0.495	p = 0.019
Random Effects													
τ_{00}	0.47	0.94	1.63	0.69	0.74	0.93	0.98	0.75	0.67	0.91	0.56	0.73	0.71
τ_{01}	0.02	-0.20	-0.39	-0.02	-0.06	0.20	-0.14	0.02	-0.04	-0.05	-0.01	-0.02	-0.03
τ_{11}	0.02	0.18	0.16	0.03	0.12	0.18	0.13	0.00	0.04	0.00	0.00	0.05	0.04
σ^2	0.28	0.26	0.21	0.34	0.23	0.25	0.18	0.32	0.28	0.13	0.38	0.20	0.20
N_{people}	516	1,005	712	15,426	488	499	1,032	6,406	1,901	1,504	20,776	7,638	4,427
N_{obs}	983	3,544	1,664	34,298	1,223	1,265	3,016	12,989	7,842	3,954	56,501	17,720	9,311
LL	-1184	-3865	-1821	-43122	-1419	-1507	-3125	-16287	-8563	-3628	-69237	-20255	-10623

^a LL = Log Likelihood; Age = age (centered at 60)

Divorce, Plot, Extraversion. Linear Trajectories of Extraversion, moderated by divorce.

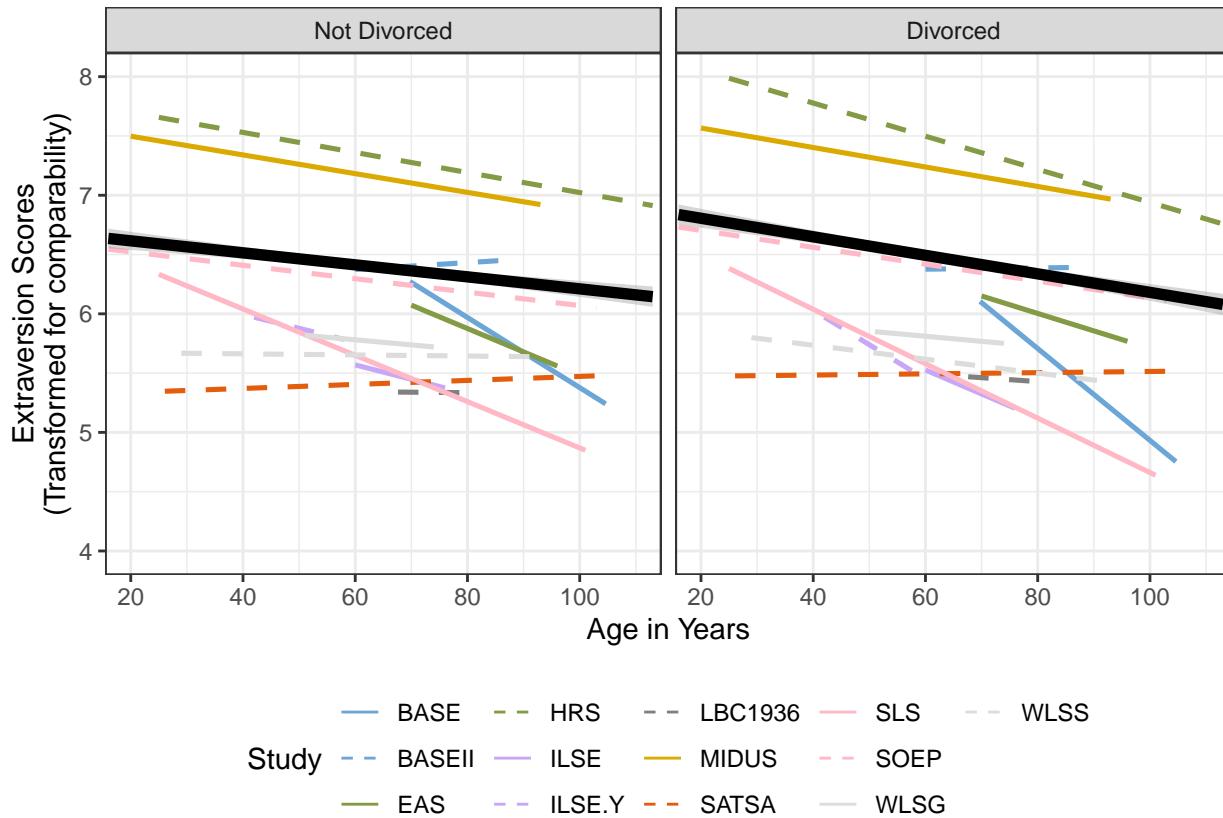


Figure S40: Divorce, Plot, Extraversion. Linear Trajectories of Extraversion, moderated by divorce. Black line indicates average trajectory weighted by N. At the individual study level, few showed evidence that being divorced was associated with greater declines in extraversion, and the meta-analytic average was significant ($p = .009$)

Divorce, Plot, unweighted, Extraversion

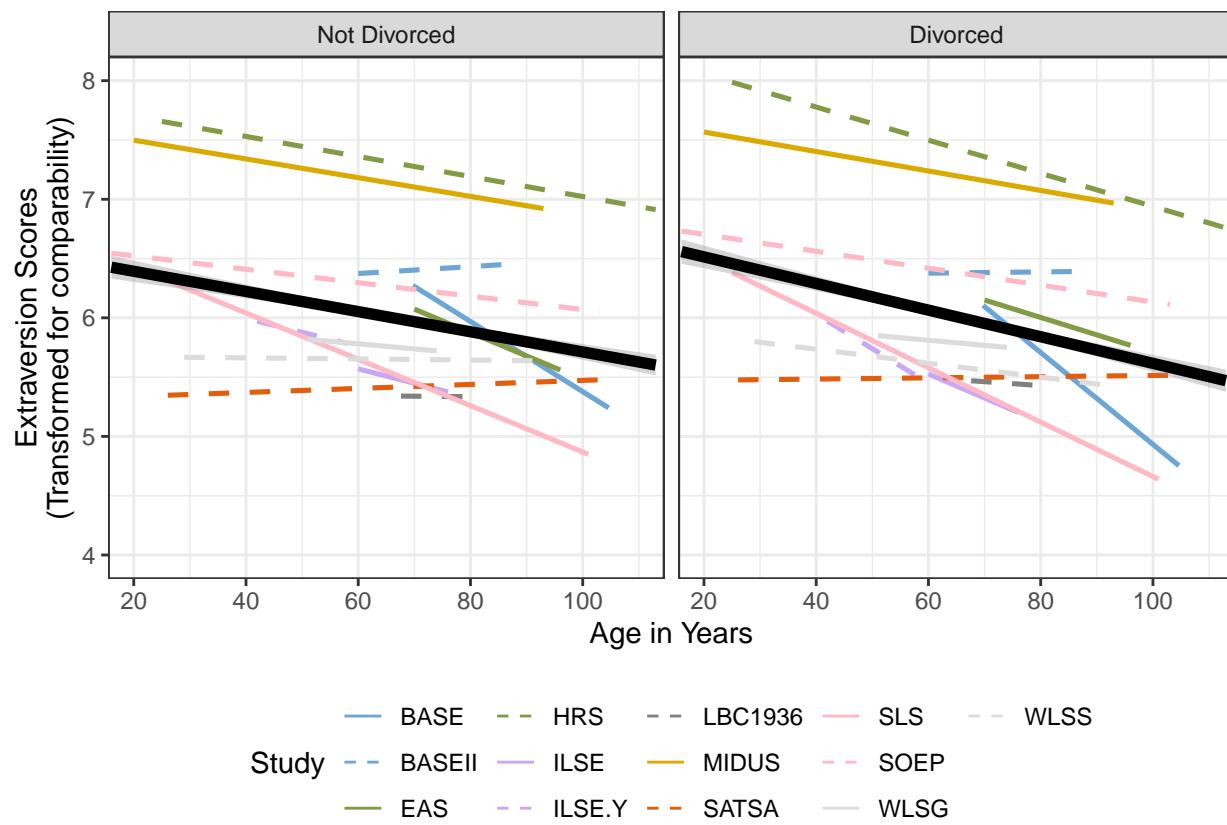


Figure S41: Divorce, Plot, unweighted, Extraversion

Divorce, Meta Analysis, Extraversion

```
##  
## Random-Effects Model (k = 13; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##  19.4755 -38.9510 -34.9510 -33.9811 -33.6176  
##  
## tau^2 (estimated amount of total heterogeneity): 0.0002 (SE = 0.0004)  
## tau (square root of estimated tau^2 value):       0.0141  
## I^2 (total heterogeneity / total variability):   19.11%  
## H^2 (total variability / sampling variability): 1.24  
##  
## Test for Heterogeneity:  
## Q(df = 12) = 10.8075, p-val = 0.5455  
##  
## Model Results:  
##  
## estimate      se     zval    pval    ci.lb    ci.ub  
## -0.0246  0.0095 -2.5882  0.0096 -0.0433 -0.0060  **  
##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 13; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##  18.6703 -37.3406 -31.3406 -30.1470 -27.9121  
##  
## tau^2 (estimated amount of residual heterogeneity):      0 (SE = 0.0003)  
## tau (square root of estimated tau^2 value):             0  
## I^2 (residual heterogeneity / unaccounted variability): 0.00%  
## H^2 (unaccounted variability / sampling variability):  1.00  
## R^2 (amount of heterogeneity accounted for):          100.00%  
##  
## Test for Residual Heterogeneity:  
## QE(df = 11) = 7.0740, p-val = 0.7931  
##  
## Test of Moderators (coefficient 2):  
## QM(df = 1) = 3.7335, p-val = 0.0533  
##  
## Model Results:  
##  
##           estimate      se     zval    pval    ci.lb    ci.ub  
## intrcpt    0.0703  0.0491  1.4311  0.1524 -0.0260  0.1665  
## age        -0.0017  0.0009 -1.9322  0.0533 -0.0035  0.0000 .  
##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 13; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc
```

```

##  11.1287 -22.2574 -10.2574 -9.7807  73.7426
##
## tau^2 (estimated amount of residual heterogeneity):      0.0006 (SE = 0.0009)
## tau (square root of estimated tau^2 value):             0.0254
## I^2 (residual heterogeneity / unaccounted variability): 35.19%
## H^2 (unaccounted variability / sampling variability):   1.54
## R^2 (amount of heterogeneity accounted for):           0.00%
##
## Test for Residual Heterogeneity:
## QE(df = 8) = 10.1998, p-val = 0.2513
##
## Test of Moderators (coefficients 2:5):
## QM(df = 4) = 0.1749, p-val = 0.9964
##
## Model Results:
##
##          estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt     -0.0236  0.0239  -0.9871  0.3236  -0.0705  0.0233
## countryGermany -0.0063  0.0356  -0.1769  0.8596  -0.0762  0.0636
## countrySweden    0.0117  0.0476   0.2464  0.8054  -0.0815  0.1049
## countryU.S.     -0.0055  0.0309  -0.1767  0.8597  -0.0660  0.0551
## countryUK       -0.0054  0.1178  -0.0457  0.9636  -0.2362  0.2255
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Mixed-Effects Model (k = 13; tau^2 estimator: REML)
##
##          logLik  deviance      AIC      BIC      AICc
##          8.3802 -16.7603  -0.7603  -2.4263  143.2397
##
## tau^2 (estimated amount of residual heterogeneity):      0.0008 (SE = 0.0012)
## tau (square root of estimated tau^2 value):             0.0280
## I^2 (residual heterogeneity / unaccounted variability): 41.76%
## H^2 (unaccounted variability / sampling variability):   1.72
## R^2 (amount of heterogeneity accounted for):           0.00%
##
## Test for Residual Heterogeneity:
## QE(df = 6) = 7.6864, p-val = 0.2620
##
## Test of Moderators (coefficients 2:7):
## QM(df = 6) = 2.2592, p-val = 0.8944
##
## Model Results:
##
##          estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt     -0.0240  0.0254  -0.9467  0.3438  -0.0737
## scaleBFI-S      0.0086  0.0395   0.2175  0.8278  -0.0689
## scaleEPQ (NE) and NEO-PI (O)  0.0121  0.0497   0.2434  0.8077  -0.0853
## scaleIPIP       0.0240  0.0957   0.2512  0.8017  -0.1636
## scaleMIDI      -0.0055  0.0345  -0.1584  0.8741  -0.0731
## scaleNEO-FFI     -0.1029  0.0776  -1.3256  0.1850  -0.2550
## scaleNEO-PI-R     -0.0102  0.0529  -0.1929  0.8471  -0.1140

```

```

## ci.ub
## intrcpt 0.0257
## scaleBFI-S 0.0861
## scaleEPQ (NE) and NEO-PI (O) 0.1095
## scaleIPIP 0.2116
## scaleMIDI 0.0622
## scaleNEO-FFI 0.0492
## scaleNEO-PI-R 0.0936
##
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

##
## Mixed-Effects Model (k = 13; tau^2 estimator: REML)
##
## logLik deviance AIC BIC AICc
## 18.2189 -36.4378 -30.4378 -29.2441 -27.0092
##
## tau^2 (estimated amount of residual heterogeneity): 0.0002 (SE = 0.0004)
## tau (square root of estimated tau^2 value): 0.0151
## I^2 (residual heterogeneity / unaccounted variability): 21.49%
## H^2 (unaccounted variability / sampling variability): 1.27
## R^2 (amount of heterogeneity accounted for): 0.00%
##
## Test for Residual Heterogeneity:
## QE(df = 11) = 10.2472, p-val = 0.5083
##
## Test of Moderators (coefficient 2):
## QM(df = 1) = 0.4713, p-val = 0.4924
##
## Model Results:
##
## estimate se zval pval ci.lb ci.ub
## intrcpt -0.0430 0.0284 -1.5178 0.1291 -0.0986 0.0125
## mo 0.0050 0.0073 0.6865 0.4924 -0.0093 0.0193
##
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

```

Widow, Table, Extraversion

Table S26: Linear Trajectories of Extraversion, Moderated by Widowhood

coef	BASE	BASEII	EAS	HRS	ILSE	LBC1936	OCTO	SATSA	SLS	SOEP
Fixed Effects										
Intercept	6.53	6.36	6.32	7.38	5.55	5.34	6.37	5.42	5.62	6.30
Age	0.15 p < .001	0.05 p < .001	0.13 p < .001	0.01 p < .001	0.05 p < .001	0.05 p < .001	0.29 p < .001	0.02 p < .001	0.03 p < .001	0.01 p < .001
widow	-0.32 0.06 p < .001	0.04 0.05 p = 0.212	-0.23 0.06 p < .001	-0.09 0.01 p < .001	-0.13 0.04 p < .001	0.00 0.03 p = 0.442	-0.40 0.11 p < .001	0.02 0.01 p = 0.033	-0.20 0.01 p < .001	-0.06 0 p < .001
Age x widow	0.07 0.22 p = 0.38	0.22 0.19 p = 0.126	-0.06 0.25 p = 0.397	-0.05 0.03 p = 0.059	0.14 0.15 p = 0.169	0.08 0.13 p = 0.259	-1.14 0.41 p = 0.002	-0.06 0.08 p = 0.221	0.36 0.13 p = 0.003	0.04 0.03 p = 0.101
widow	0.22 0.02 0.08 p = 0.381	0.19 -0.16 0.15 p = 0.145	0.25 0.06 0.11 p = 0.298	0.03 0.03 0.02 p = 0.09	0.15 0.03 0.11 p = 0.375	0.13 -0.01 0.08 p = 0.444	0.41 0.47 0.16 p = 0.002	0.08 -0.02 0.04 p = 0.312	0.13 -0.09 0.05 p = 0.039	0.03 0.00 0.02 p = 0.458
Random Effects										
τ_{00}	0.46	0.94	1.61	0.69	0.74	0.98	0.94	0.67	0.91	0.57
τ_{01}	0.02	-0.19	-0.38	-0.01	-0.06	-0.14	-0.07	-0.04	-0.05	-0.01
τ_{11}	0.02	0.18	0.16	0.03	0.12	0.13	0.01	0.04	0.00	0.00
σ^2	0.28	0.26	0.21	0.34	0.23	0.18	0.31	0.28	0.13	0.38
N_{people}	516	1,005	712	15,426	488	1,032	495	1,901	1,504	20,776
N_{obs}	983	3,544	1,664	34,298	1,223	3,016	1,122	7,842	3,954	56,501
LL	-1185	-3864	-1821	-43128	-1418	-3125	-1345	-8563	-3625	-69254

^a LL = Log Likelihood; Age = age (centered at 60)

Widow, Plot, Extraversion. Linear Trajectories of Extraversion, moderated by widowhood.

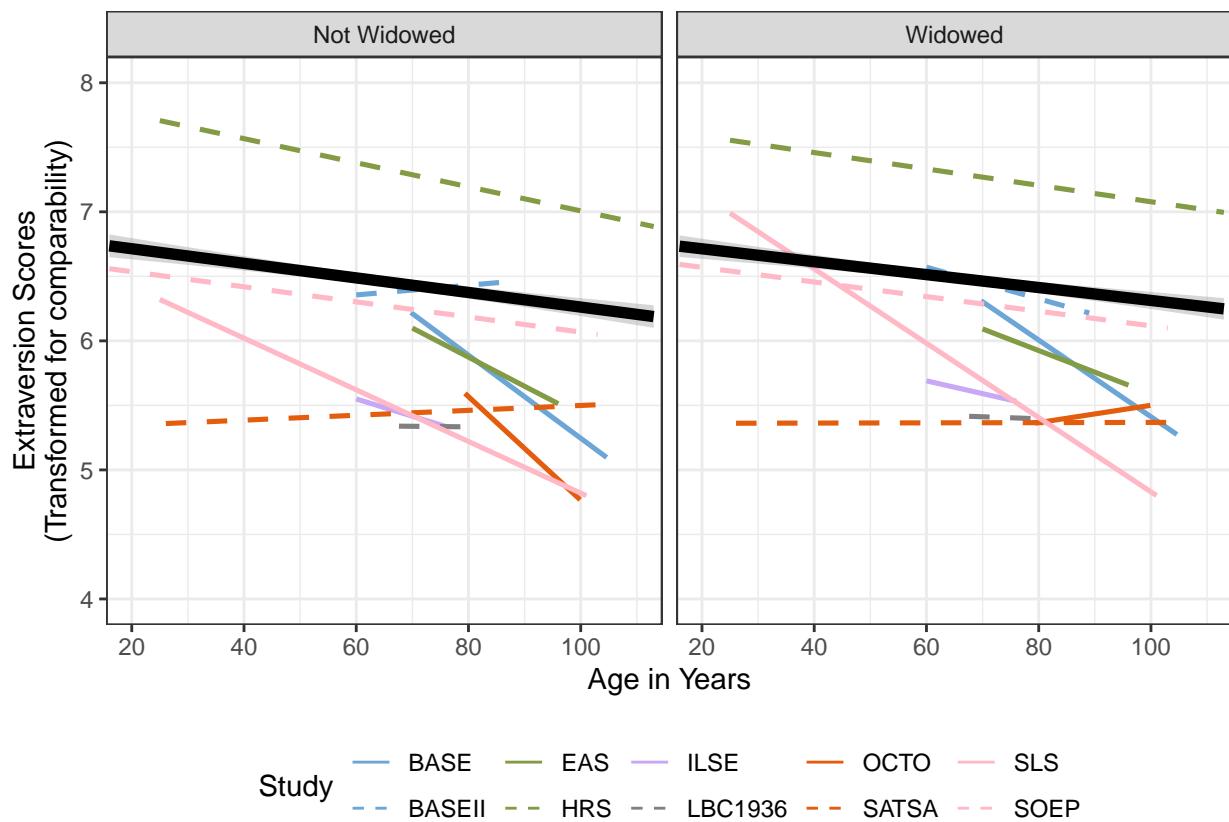


Figure S42: Widow, Plot, Extraversion. Linear Trajectories of Extraversion, moderated by widowhood. Black line indicates average trajectory weighted by N. At the individual study level, few showed evidence that being widowed was associated with greater declines in extraversion, and the meta-analytic average was not significant ($p = .65$)

Widow, Plot, unweighted, Extraversion

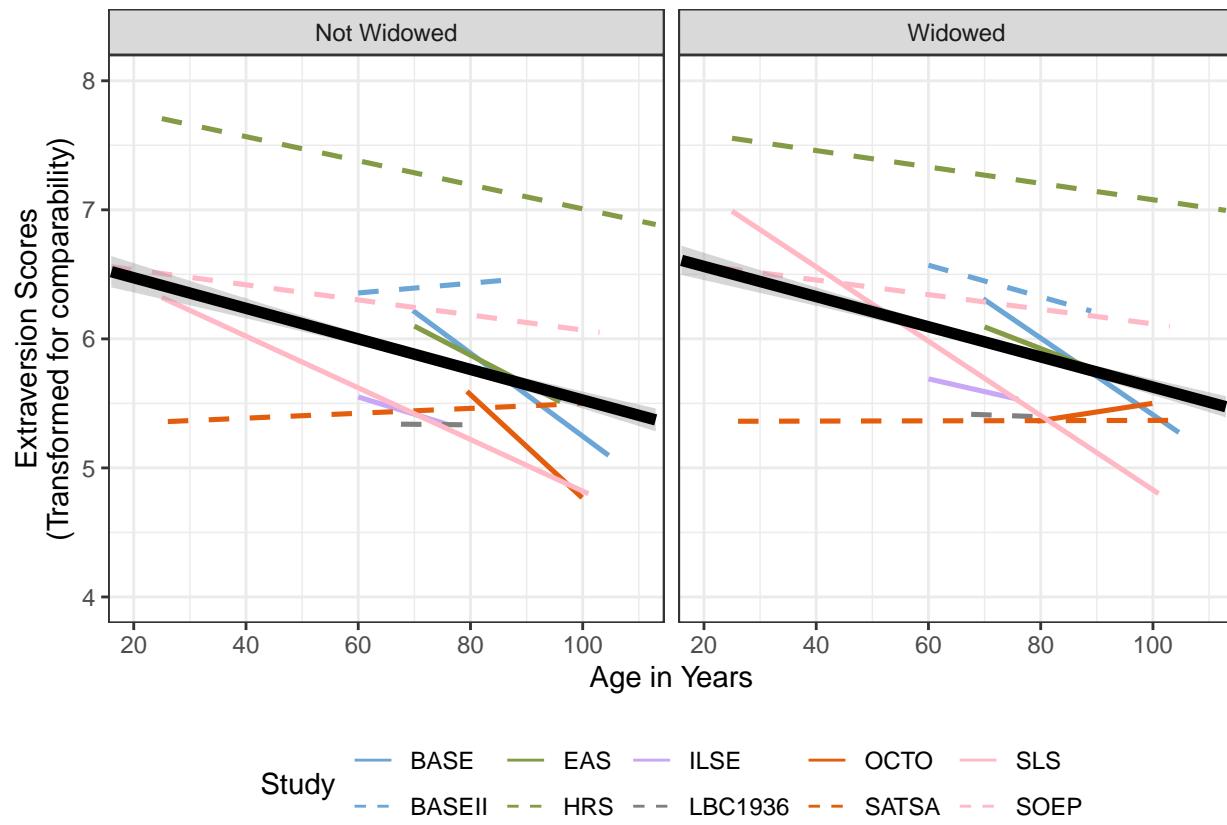


Figure S43: Widow, Plot, unweighted, Extraversion

Widow, Meta Analysis, Extraversion

```
##  
## Random-Effects Model (k = 10; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##    8.2196 -16.4392 -12.4392 -12.0447 -10.4392  
##  
## tau^2 (estimated amount of total heterogeneity): 0.0000 (SE = 0.0005)  
## tau (square root of estimated tau^2 value):       0.0019  
## I^2 (total heterogeneity / total variability):   0.19%  
## H^2 (total variability / sampling variability): 1.00  
##  
## Test for Heterogeneity:  
## Q(df = 9) = 15.1610, p-val = 0.0866  
##  
## Model Results:  
##  
## estimate      se     zval     pval    ci.lb    ci.ub  
##  0.0055  0.0119  0.4599  0.6456 -0.0178  0.0287  
##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 10; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##    6.5781 -13.1563 -7.1563 -6.9179 -1.1563  
##  
## tau^2 (estimated amount of residual heterogeneity):      0.0009 (SE = 0.0018)  
## tau (square root of estimated tau^2 value):             0.0292  
## I^2 (residual heterogeneity / unaccounted variability): 22.13%  
## H^2 (unaccounted variability / sampling variability):  1.28  
## R^2 (amount of heterogeneity accounted for):          0.00%  
##  
## Test for Residual Heterogeneity:  
## QE(df = 8) = 14.0348, p-val = 0.0809  
##  
## Test of Moderators (coefficient 2):  
## QM(df = 1) = 1.0358, p-val = 0.3088  
##  
## Model Results:  
##  
##           estimate      se     zval     pval    ci.lb    ci.ub  
## intrcpt  -0.1049  0.1078 -0.9727  0.3307 -0.3163  0.1065  
## age       0.0018  0.0017  1.0178  0.3088 -0.0016  0.0052  
##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 10; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc
```

```

##    3.4570   -6.9140    9.0860    1.8749  153.0860
##
## tau^2 (estimated amount of residual heterogeneity):      0 (SE = 0.0080)
## tau (square root of estimated tau^2 value):              0
## I^2 (residual heterogeneity / unaccounted variability): 0.00%
## H^2 (unaccounted variability / sampling variability):  1.00
## R^2 (amount of heterogeneity accounted for):           100.00%
##
## Test for Residual Heterogeneity:
## QE(df = 3) = 1.4007, p-val = 0.7054
##
## Test of Moderators (coefficients 2:7):
## QM(df = 6) = 13.7603, p-val = 0.0324
##
## Model Results:
##
##                                estimate     se     zval    pval    ci.lb    ci.ub
## intrcpt                  -0.0003  0.0170  -0.0152  0.9879  -0.0335
## scaleEPI-Q                  0.4689  0.1606   2.9203  0.0035   0.1542
## scaleEPQ (NE) and NEO-PI (O) -0.0178  0.0406  -0.4389  0.6608  -0.0975
## scaleIPIP                   0.0129  0.0664   0.1943  0.8459  -0.1172
## scaleMIDI                   0.0300  0.0279   1.0740  0.2828  -0.0247
## scaleNEO-FFI                 0.0287  0.0680   0.4227  0.6725  -0.1045
## scaleNEO-PI-R                -0.0877  0.0528  -1.6610  0.0967  -0.1911
##                                ci.ub
## intrcpt                     0.0330
## scaleEPI-Q                  0.7836  **
## scaleEPQ (NE) and NEO-PI (O) 0.0618
## scaleIPIP                   0.1430
## scaleMIDI                   0.0847
## scaleNEO-FFI                 0.1619
## scaleNEO-PI-R                0.0158  .
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Mixed-Effects Model (k = 10; tau^2 estimator: REML)
##
## logLik  deviance      AIC      BIC      AICc
## 3.1663   -6.3325    3.6675   2.6263   63.6675
##
## tau^2 (estimated amount of residual heterogeneity):      0.0068 (SE = 0.0073)
## tau (square root of estimated tau^2 value):              0.0823
## I^2 (residual heterogeneity / unaccounted variability): 61.33%
## H^2 (unaccounted variability / sampling variability):  2.59
## R^2 (amount of heterogeneity accounted for):           0.00%
##
## Test for Residual Heterogeneity:
## QE(df = 6) = 14.9521, p-val = 0.0206
##
## Test of Moderators (coefficients 2:4):
## QM(df = 3) = 0.9469, p-val = 0.8141
##

```

```

## Model Results:
##
##          estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt     -0.0048  0.0575  -0.0842  0.9329  -0.1176  0.1079
## countrySweden   0.0848  0.0990   0.8562  0.3919  -0.1093  0.2789
## countryU.S.    -0.0028  0.0816  -0.0349  0.9722  -0.1627  0.1570
## countryUK      -0.0064  0.1280  -0.0496  0.9604  -0.2571  0.2444
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Mixed-Effects Model (k = 10; tau^2 estimator: REML)
##
##          logLik  deviance      AIC      BIC      AICc
##        6.6823  -13.3647  -7.3647  -7.1264  -1.3647
##
## tau^2 (estimated amount of residual heterogeneity):      0.0000 (SE = 0.0005)
## tau (square root of estimated tau^2 value):             0.0007
## I^2 (residual heterogeneity / unaccounted variability): 0.02%
## H^2 (unaccounted variability / sampling variability):  1.00
## R^2 (amount of heterogeneity accounted for):           86.86%
##
## Test for Residual Heterogeneity:
## QE(df = 8) = 15.0494, p-val = 0.0582
##
## Test of Moderators (coefficient 2):
## QM(df = 1) = 0.1113, p-val = 0.7386
##
## Model Results:
##
##          estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt     0.0151  0.0313   0.4837  0.6286  -0.0462  0.0765
## mo        -0.0023  0.0069  -0.3337  0.7386  -0.0159  0.0113
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

```

Health, Table, Extraversion

Table S27: Linear Trajectories of Extraversion, Moderated by Health Conditions

coef	BASE	BASEII	EAS	HRS	ILSE	LBC1936	MIDUS	NAS	OCTO	SATSA	SLS	SOEP	WLSG	WLSS
Fixed Effects														
In-tercept	6.44	6.46	6.42	7.43	5.59	5.31	7.21	5.94	5.47	5.39	5.62	6.34	5.80	5.69
Age	0.21	0.07	0.21	0.02	0.07	0.07	0.02	0.02	0.3	0.06	0.03	0.01	0.01	0.02
	p < .001	p < .001	p < .001	p < .001	p < .001	p < .001	p < .001	p < .001	p < .001	p < .001	p < .001	p < .001	p < .001	p < .001
health	-0.27	0.05	-0.27	-0.05	-0.10	0.03	-0.08	0.02	-0.02	0.05	-0.19	-0.05	-0.04	0.01
	0.08	0.06	0.09	0.01	0.05	0.04	0.01	0.01	0.12	0.03	0.02	0	0.01	0.01
Age	p < .001	p = 0.209	p = 0.002	p < .001	p = 0.031	p = 0.216	p < .001	p = 0.006	p = 0.427	p = 0.037	p = 0.001	p = 0.001	p = 0.001	p = 0.146
	0.14	-0.06	-0.17	-0.08	-0.05	0.08	-0.03	-0.09	0.61	0.03	0.10	-0.06	-0.06	-0.08
x health	0.25	0.1	0.25	0.02	0.09	0.09	0.03	0.07	0.41	0.07	0.06	0.01	0.02	0.03
	p = 0.293	p = 0.268	p = 0.247	p < .001	p = 0.309	p = 0.182	p = 0.11	p = 0.102	p = 0.069	p = 0.331	p = 0.047	p = 0.001	p = 0.008	p = 0.003
Age	-0.03	-0.10	0.10	-0.05	-0.05	-0.07	0.00	-0.05	-0.26	-0.04	-0.04	-0.01	-0.02	-0.06
Random Effects														
τ_{00}	0.48	0.89	1.65	0.68	0.74	0.97	0.75	0.69	1.03	0.66	0.91	0.58	0.74	0.71
τ_{01}	0.01	-0.18	-0.40	-0.02	-0.06	-0.13	0.02	0.01	-0.09	-0.04	-0.05	-0.01	-0.02	-0.03
τ_{11}	0.02	0.18	0.16	0.03	0.12	0.13	0.00	0.03	0.01	0.04	0.00	0.00	0.05	0.04
σ^2	0.28	0.26	0.21	0.34	0.23	0.18	0.32	0.31	0.31	0.28	0.13	0.38	0.20	0.20
N_{people}	516	1,276	713	16,052	488	1,032	6,409	1,644	495	1,960	1,535	33,612	6,834	3,820
N_{obs}	983	3,816	1,667	35,047	1,223	3,016	12,993	8,674	1,122	7,866	4,000	74,040	16,564	8,429
LL	-1186	-4243	-1827	-44148	-1418	-3125	-16292	-9487	-1347	-8599	-3682	-92874	-18842	-9524

^a LL = Log Likelihood; Age = age (centered at 60)

Health, Plot, Extraversion.

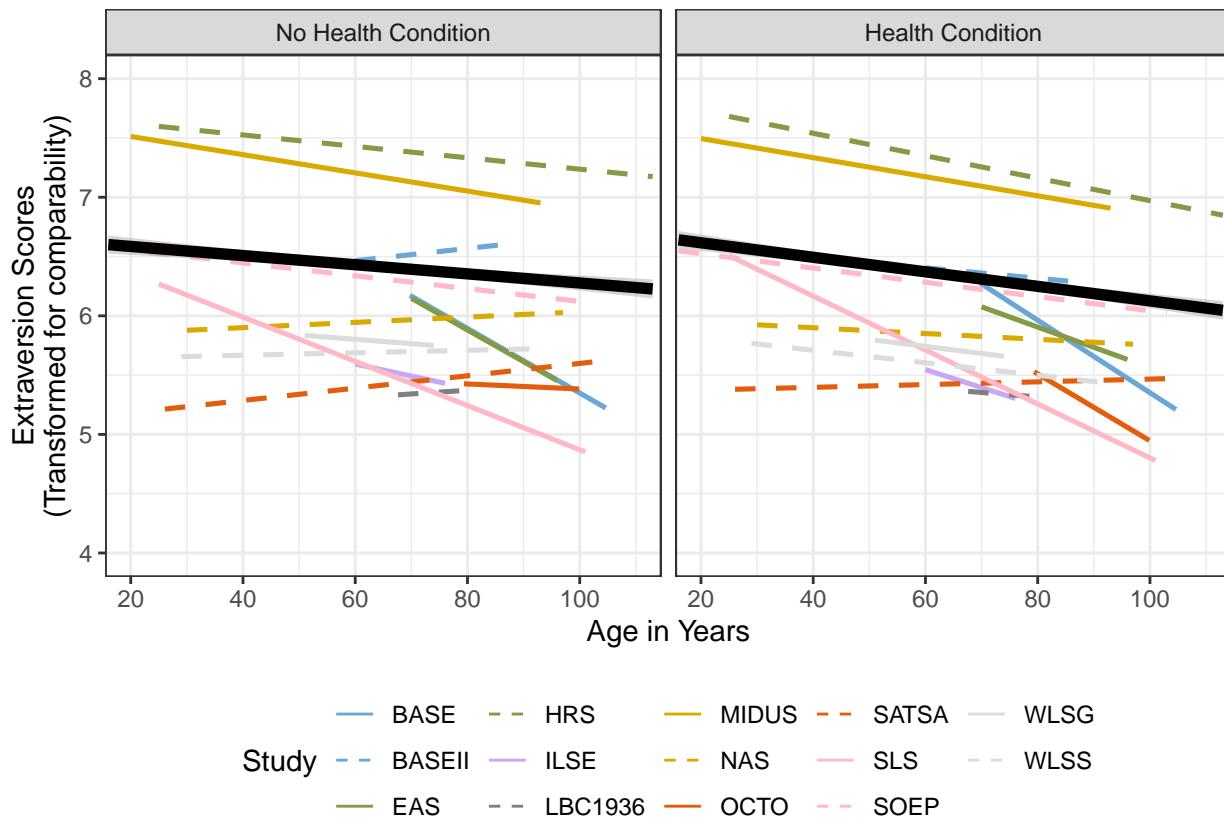


Figure S44: Health, Plot, Extraversion. Linear Trajectories of Extraversion, Moderated by Health Conditions. Black line indicates average trajectory weighted by N. At the individual study level, some showed evidence that having a health condition was associated with greater declines in extraversion, and the meta-analytic average was significant ($p < .001$).

Health, Plot, unweighted, Extraversion

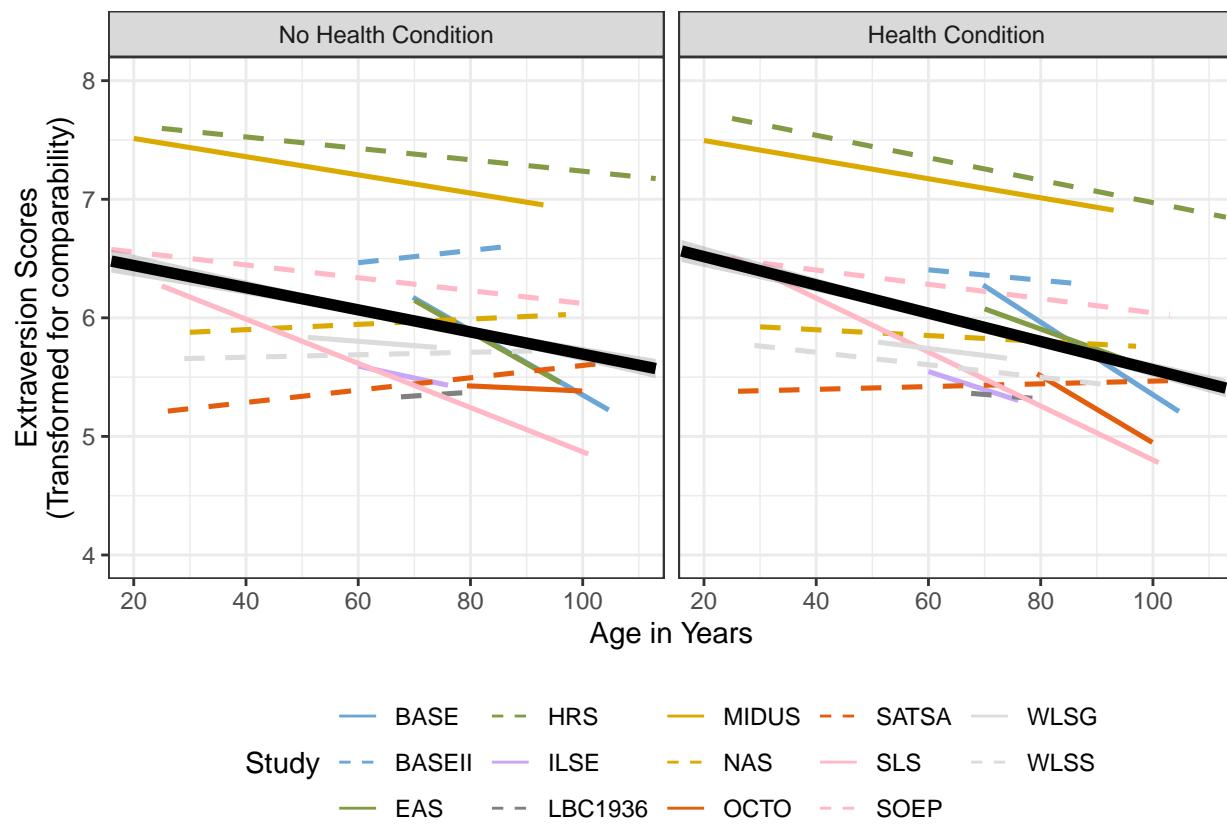


Figure S45: Health, Plot, unweighted, Extraversion

Health, Meta Analysis, Extraversion

```
##  
## Random-Effects Model (k = 14; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##  22.9034  -45.8068  -41.8068  -40.6769  -40.6068  
##  
## tau^2 (estimated amount of total heterogeneity): 0.0003 (SE = 0.0003)  
## tau (square root of estimated tau^2 value):       0.0181  
## I^2 (total heterogeneity / total variability):   45.67%  
## H^2 (total variability / sampling variability): 1.84  
##  
## Test for Heterogeneity:  
## Q(df = 13) = 22.3779, p-val = 0.0498  
##  
## Model Results:  
##  
## estimate      se     zval     pval    ci.lb    ci.ub  
## -0.0307  0.0086  -3.5754  0.0003  -0.0475  -0.0139 ***  
##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 14; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##  22.6035  -45.2071  -39.2071  -37.7523  -36.2071  
##  
## tau^2 (estimated amount of residual heterogeneity):      0.0001 (SE = 0.0002)  
## tau (square root of estimated tau^2 value):            0.0075  
## I^2 (residual heterogeneity / unaccounted variability): 11.20%  
## H^2 (unaccounted variability / sampling variability):  1.13  
## R^2 (amount of heterogeneity accounted for):           82.77%  
##  
## Test for Residual Heterogeneity:  
## QE(df = 12) = 11.6346, p-val = 0.4755  
##  
## Test of Moderators (coefficient 2):  
## QM(df = 1) = 7.1440, p-val = 0.0075  
##  
## Model Results:  
##  
##          estimate      se     zval     pval    ci.lb    ci.ub  
## intrcpt    0.0786  0.0392  2.0052  0.0449  0.0018  0.1554  *  
## age       -0.0019  0.0007 -2.6728  0.0075 -0.0033 -0.0005 **  
##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 14; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc
```

```

##    8.0947 -16.1895    1.8105   -0.0636  181.8105
##
## tau^2 (estimated amount of residual heterogeneity):      0.0007 (SE = 0.0008)
## tau (square root of estimated tau^2 value):             0.0257
## I^2 (residual heterogeneity / unaccounted variability): 53.45%
## H^2 (unaccounted variability / sampling variability):  2.15
## R^2 (amount of heterogeneity accounted for):          0.00%
##
## Test for Residual Heterogeneity:
## QE(df = 6) = 13.2365, p-val = 0.0394
##
## Test of Moderators (coefficients 2:8):
## QM(df = 7) = 1.5023, p-val = 0.9822
##
## Model Results:
##
##                                estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt                  -0.0417  0.0211  -1.9814  0.0475  -0.0830
## scaleBFI-S                 0.0284  0.0331   0.8587  0.3905  -0.0365
## scaleEPI-Q                -0.0175  0.0445  -0.3938  0.6937  -0.1048
## scaleEPQ (NE) and NEO-PI (O) 0.0013  0.0453   0.0281  0.9776  -0.0876
## scaleIPIP                  0.0091  0.0571   0.1594  0.8733  -0.1029
## scaleMIDI                  0.0172  0.0294   0.5868  0.5573  -0.0403
## scaleNEO-FFI                -0.0020  0.0643  -0.0312  0.9751  -0.1280
## scaleNEO-PI-R                 0.0008  0.0414   0.0191  0.9848  -0.0803
##                                ci.lb    ci.ub
## intrcpt                  -0.0005  *
## scaleBFI-S                 0.0933
## scaleEPI-Q                 0.0698
## scaleEPQ (NE) and NEO-PI (O) 0.0901
## scaleIPIP                  0.1211
## scaleMIDI                  0.0748
## scaleNEO-FFI                 0.1240
## scaleNEO-PI-R                 0.0819
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Mixed-Effects Model (k = 14; tau^2 estimator: REML)
##
##    logLik  deviance      AIC      BIC      AICc
##  14.6159 -29.2317 -17.2317 -16.0484  24.7683
##
## tau^2 (estimated amount of residual heterogeneity):      0.0004 (SE = 0.0005)
## tau (square root of estimated tau^2 value):             0.0194
## I^2 (residual heterogeneity / unaccounted variability): 37.55%
## H^2 (unaccounted variability / sampling variability):  1.60
## R^2 (amount of heterogeneity accounted for):          0.00%
##
## Test for Residual Heterogeneity:
## QE(df = 9) = 14.1334, p-val = 0.1177
##
## Test of Moderators (coefficients 2:5):

```

```

## QM(df = 4) = 1.9113, p-val = 0.7521
##
## Model Results:
##
##           estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt     -0.0411  0.0174  -2.3691  0.0178  -0.0752  -0.0071  *
## countryGermany   0.0270  0.0258   1.0473  0.2950  -0.0236   0.0776
## countrySweden    -0.0100  0.0396  -0.2533  0.8000  -0.0876   0.0675
## countryU.S.       0.0126  0.0220   0.5702  0.5685  -0.0306   0.0558
## countryUK        -0.0279  0.0603  -0.4632  0.6432  -0.1462   0.0903
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Mixed-Effects Model (k = 14; tau^2 estimator: REML)
##
##   logLik  deviance      AIC      BIC      AICc
## 20.9156  -41.8313  -35.8313  -34.3766  -32.8313
##
## tau^2 (estimated amount of residual heterogeneity): 0.0004 (SE = 0.0004)
## tau (square root of estimated tau^2 value): 0.0192
## I^2 (residual heterogeneity / unaccounted variability): 49.28%
## H^2 (unaccounted variability / sampling variability): 1.97
## R^2 (amount of heterogeneity accounted for): 0.00%
##
## Test for Residual Heterogeneity:
## QE(df = 12) = 22.3550, p-val = 0.0337
##
## Test of Moderators (coefficient 2):
## QM(df = 1) = 0.0160, p-val = 0.8992
##
## Model Results:
##
##           estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt     -0.0332  0.0188  -1.7680  0.0771  -0.0699  0.0036 .
## mo          0.0005  0.0040   0.1267  0.8992  -0.0074  0.0084
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

```

Heart, Table, Extraversion

Table S28: Linear Trajectories of Extraversion, Moderated by Heart Conditions

coef	BASE	BASEII	HRS	ILSE	LBC1936	MIDUS	OCTO	SLS	SOEP	WLSG	WLSS
Fixed Effects											
Intercept	6.59	6.46	7.38	5.57	5.34	7.20	5.69	5.63	6.33	5.79	5.66
Age	0.12 p < .001	0.05 p < .001	0.01 p < .001	0.05 p < .001	0.05 p < .001	0.01 p < .001	0.21 p < .001	0.03 p < .001	0.01 p < .001	0.01 p < .001	0.02 p < .001
heart	-0.33 p < .001	-0.01 p = 0.455	-0.07 p < .001	-0.13 p < .001	0.00 p = 0.466	-0.08 p < .001	-0.12 p = 0.073	-0.19 p < .001	-0.06 p < .001	-0.04 p < .001	0.00 p = 0.315
Age x heart	0.05 p = 0.22	0.05 p = 0.124	0.01 p = 0.036	0.04 p = 0.485	0.03 p = 0.301	0.01 p = 0.019	0.08 p = 0.064	0.02 p = 0.001	0.01 p = 0.004	0.01 p = 0.103	0.01 p = 0.257
τ_{00}	0.13 p = 0.095	0.03 p = 0.419	-0.05 p < .001	-0.11 p = 0.336	-0.04 p = 0.284	-0.01 p = 0.231	-0.44 p = 0.072	-0.09 p = 0.003	0.00 p = 0.415	0.02 p = 0.261	-0.09 p = 0.001
Random Effects											
τ_{01}	0.42 0.04	0.89 -0.17	0.68 -0.02	0.75 -0.06	0.98 -0.14	0.75 0.02	1.03 -0.09	0.90 -0.05	0.58 -0.01	0.74 -0.02	0.72 -0.03
τ_{11}	0.00	0.18	0.03	0.12	0.13	0.00	0.01	0.00	0.00	0.05	0.04
σ^2	0.28	0.26	0.34	0.23	0.18	0.32	0.31	0.12	0.38	0.20	0.20
N_{people}	516	1,276	16,036	488	1,032	6,391	494	1,271	33,612	6,834	3,791
N_{obs}	983	3,816	35,015	1,223	3,016	12,957	1,120	3,185	74,040	16,564	8,375
LL	-1184	-4246	-44114	-1419	-3126	-16236	-1345	-2930	-92880	-18846	-9468

^a LL = Log Likelihood; Age = age (centered at 60)

Heart, Plot, Extraversion. Linear Trajectories of Extraversion, moderated by heart conditions.

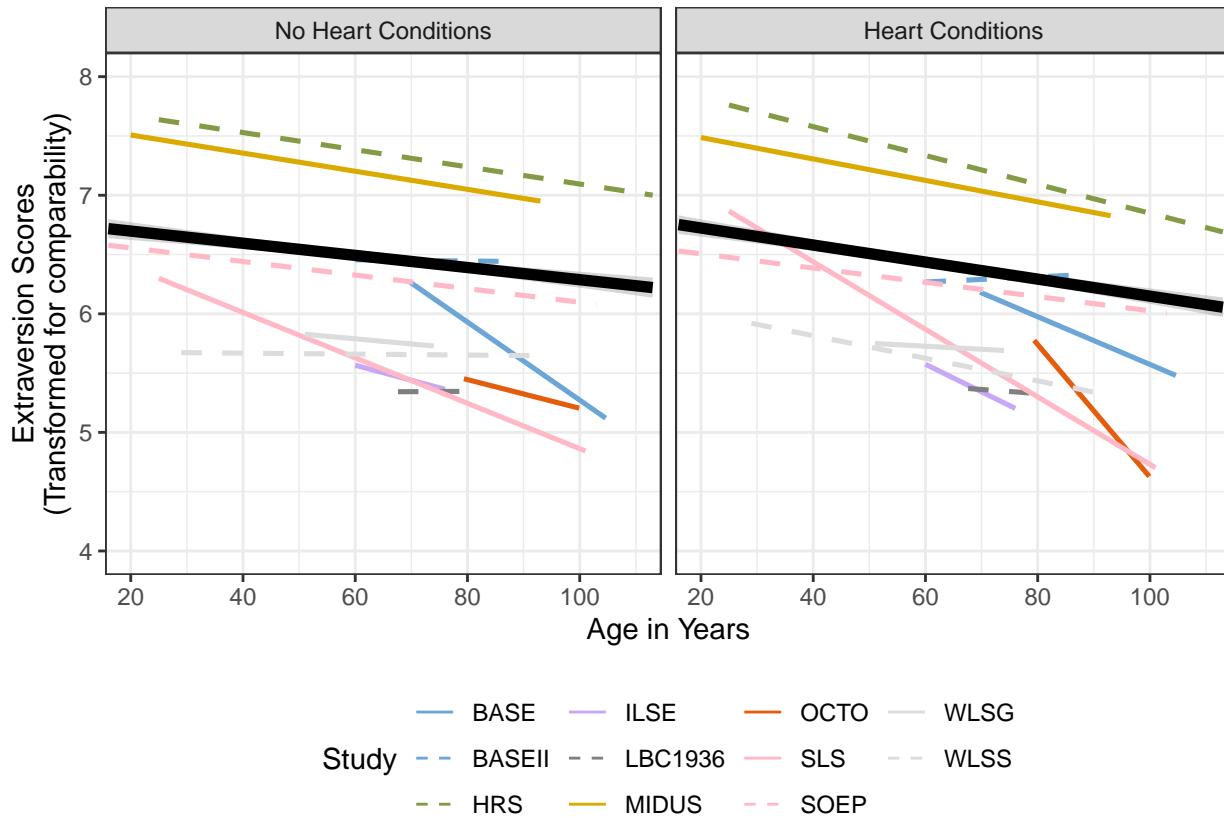


Figure S46: Heart, Plot, Extraversion. Linear Trajectories of Extraversion, moderated by heart conditions. Black line indicates average trajectory weighted by N. At the individual study level, few showed evidence that having having a heart condition was associated with greater declines in extraversion, and the meta-analytic average was significant ($p = .046$).

Heart, Plot, unweighted, Extraversion

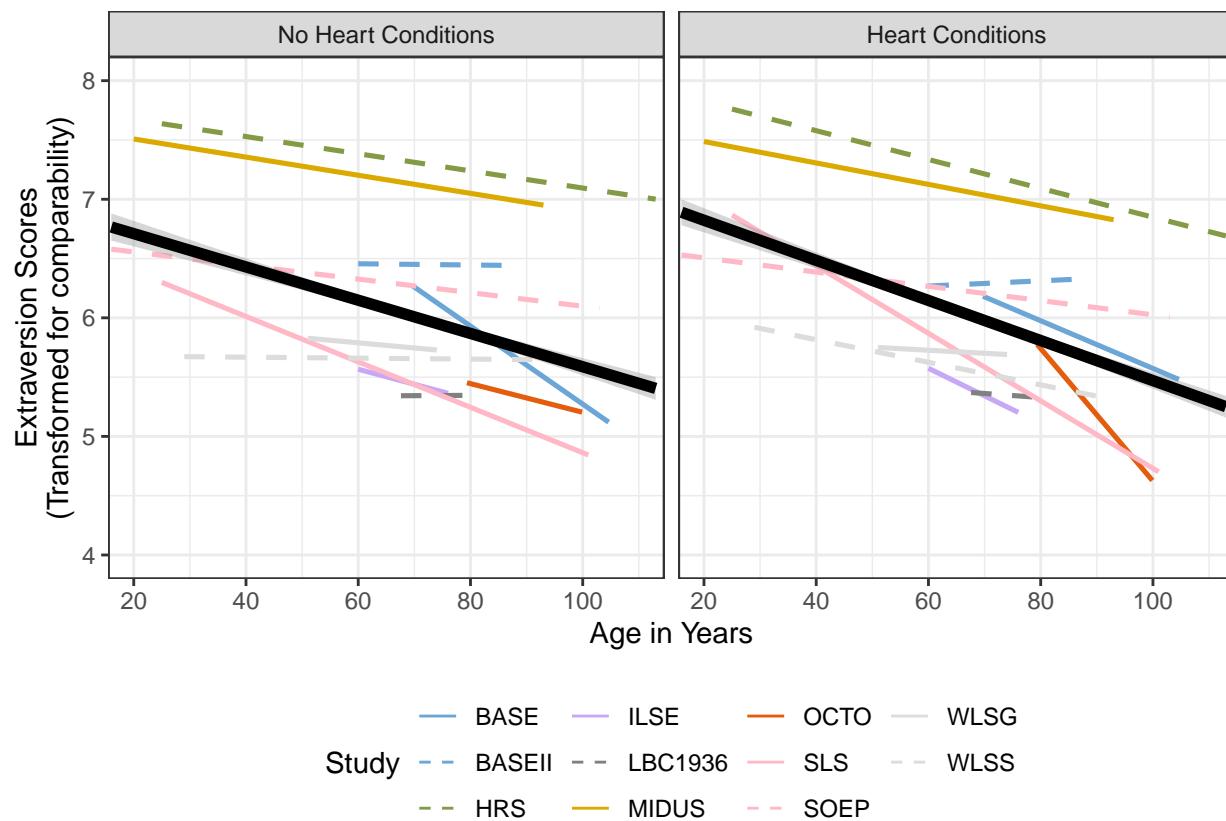


Figure S47: Heart, Plot, unweighted, Extraversion

Heart, Meta Analysis, Extraversion

```
##  
## Random-Effects Model (k = 11; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##  11.3562 -22.7125 -18.7125 -18.1073 -16.9982  
##  
## tau^2 (estimated amount of total heterogeneity): 0.0011 (SE = 0.0010)  
## tau (square root of estimated tau^2 value):       0.0327  
## I^2 (total heterogeneity / total variability):   57.56%  
## H^2 (total variability / sampling variability):  2.36  
##  
## Test for Heterogeneity:  
## Q(df = 10) = 21.5410, p-val = 0.0176  
##  
## Model Results:  
##  
## estimate      se     zval    pval    ci.lb    ci.ub  
## -0.0310  0.0156 -1.9923  0.0463 -0.0615 -0.0005  *##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 11; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##  9.6938 -19.3875 -13.3875 -12.7958 -8.5875  
##  
## tau^2 (estimated amount of residual heterogeneity):      0.0010 (SE = 0.0011)  
## tau (square root of estimated tau^2 value):            0.0322  
## I^2 (residual heterogeneity / unaccounted variability): 50.59%  
## H^2 (unaccounted variability / sampling variability):  2.02  
## R^2 (amount of heterogeneity accounted for):          3.17%  
##  
## Test for Residual Heterogeneity:  
## QE(df = 9) = 16.6437, p-val = 0.0546  
##  
## Test of Moderators (coefficient 2):  
## QM(df = 1) = 0.3250, p-val = 0.5686  
##  
## Model Results:  
##  
##           estimate      se     zval    pval    ci.lb    ci.ub  
## intrcpt    0.0199  0.0905  0.2197  0.8261 -0.1575  0.1972  
## age        -0.0009  0.0016 -0.5701  0.5686 -0.0040  0.0022  
##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 11; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc
```

```

##    4.6402   -9.2805    6.7195    1.8099  150.7195
##
## tau^2 (estimated amount of residual heterogeneity):      0.0019 (SE = 0.0024)
## tau (square root of estimated tau^2 value):             0.0436
## I^2 (residual heterogeneity / unaccounted variability): 68.99%
## H^2 (unaccounted variability / sampling variability):  3.22
## R^2 (amount of heterogeneity accounted for):          0.00%
##
## Test for Residual Heterogeneity:
## QE(df = 4) = 9.9761, p-val = 0.0408
##
## Test of Moderators (coefficients 2:7):
## QM(df = 6) = 5.1883, p-val = 0.5199
##
## Model Results:
##
##           estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt      -0.0351  0.0370  -0.9510  0.3416  -0.1076  0.0373
## scaleBFI-S     0.0352  0.0569   0.6185  0.5362  -0.0764  0.1468
## scaleEPI-Q    -0.4031  0.3051  -1.3210  0.1865  -1.0011  0.1950
## scaleIPIP      -0.0018  0.0864  -0.0211  0.9832  -0.1712  0.1676
## scaleMIDI       0.0030  0.0497   0.0611  0.9513  -0.0943  0.1004
## scaleNEO-FFI     0.1278  0.1053   1.2133  0.2250  -0.0786  0.3341
## scaleNEO-PI-R    -0.0581  0.0664  -0.8753  0.3814  -0.1881  0.0720
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Mixed-Effects Model (k = 11; tau^2 estimator: REML)
##
## logLik  deviance      AIC      BIC      AICc
## 7.1571  -14.3142  -2.3142  -3.5636  81.6858
##
## tau^2 (estimated amount of residual heterogeneity):      0.0019 (SE = 0.0019)
## tau (square root of estimated tau^2 value):             0.0430
## I^2 (residual heterogeneity / unaccounted variability): 65.21%
## H^2 (unaccounted variability / sampling variability):  2.87
## R^2 (amount of heterogeneity accounted for):          0.00%
##
## Test for Residual Heterogeneity:
## QE(df = 6) = 13.7776, p-val = 0.0322
##
## Test of Moderators (coefficients 2:5):
## QM(df = 4) = 3.5645, p-val = 0.4681
##
## Model Results:
##
##           estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt      -0.0351  0.0366  -0.9592  0.3375  -0.1069  0.0366
## countryGermany  0.0499  0.0537   0.9292  0.3528  -0.0553  0.1551
## countrySweden   -0.4031  0.3050  -1.3216  0.1863  -1.0009  0.1947
## countryU.S.      -0.0132  0.0462  -0.2857  0.7751  -0.1036  0.0773
## countryUK        -0.0019  0.0860  -0.0216  0.9828  -0.1704  0.1667

```

```

##
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Mixed-Effects Model (k = 11; tau^2 estimator: REML)
##
##   logLik deviance      AIC      BIC      AICc
##   9.7282 -19.4564 -13.4564 -12.8647 -8.6564
##
##   ## tau^2 (estimated amount of residual heterogeneity): 0.0014 (SE = 0.0013)
##   ## tau (square root of estimated tau^2 value): 0.0377
##   ## I^2 (residual heterogeneity / unaccounted variability): 58.28%
##   ## H^2 (unaccounted variability / sampling variability): 2.40
##   ## R^2 (amount of heterogeneity accounted for): 0.00%
##
##   ## Test for Residual Heterogeneity:
##   ## QE(df = 9) = 19.2639, p-val = 0.0230
##
##   ## Test of Moderators (coefficient 2):
##   ## QM(df = 1) = 0.3974, p-val = 0.5284
##
##   ## Model Results:
##
##       estimate      se     zval    pval    ci.lb    ci.ub
##   intrcpt -0.0988  0.1086 -0.9096  0.3630 -0.3117  0.1141
##   mo       0.0198  0.0314  0.6304  0.5284 -0.0417  0.0812
##
##   ##
##   ## ---
##   ## Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

```

Lung, Table, Extraversion

Table S29: Linear Trajectories of Extraversion, Moderated by Lung Conditions

coef	BASE	BASEII	EAS	HRS	ILSE	MIDUS	OCTO	SATSA
Fixed Effects								
Intercept	6.47	6.45	6.27	7.39	5.55	7.19	5.63	5.43
	0.13	0.05	0.12	0.01	0.06	0.01	0.22	0.02
	p < .001							
Age	-0.26	-0.01	-0.19	-0.09	-0.13	-0.08	-0.10	0.01
	0.05	0.04	0.05	0.01	0.05	0.01	0.08	0.01
	p < .001	p = 0.406	p < .001	p < .001	p = 0.004	p < .001	p = 0.128	p = 0.116
lung	0.27	-0.22	0.52	-0.17	0.00	-0.03	1.38	-0.05
	0.24	0.2	0.47	0.04	0.11	0.04	0.63	0.07
	p = 0.137	p = 0.139	p = 0.131	p < .001	p = 0.492	p = 0.212	p = 0.014	p = 0.212
Age x lung	-0.13	0.06	-0.24	-0.01	0.01	0.00	-0.53	0.02
	0.09	0.18	0.22	0.02	0.09	0.02	0.25	0.03
	p = 0.069	p = 0.378	p = 0.133	p = 0.397	p = 0.436	p = 0.421	p = 0.017	p = 0.318
Random Effects								
τ_{00}	0.46	0.89	1.68	0.68	0.75	0.75	1.04	0.66
τ_{01}	0.03	-0.18	-0.41	-0.02	-0.07	0.02	-0.09	-0.04
τ_{11}	0.01	0.18	0.17	0.03	0.15	0.00	0.01	0.04
σ^2	0.28	0.26	0.21	0.34	0.23	0.31	0.31	0.28
N_{people}	516	1,276	702	16,036	404	6,219	494	1,865
N_{obs}	983	3,816	1,632	35,017	1,006	12,714	1,121	7,555
LL	-1184	-4247	-1791	-44112	-1167	-15896	-1345	-8234

^a LL = Log Likelihood; Age = age (centered at 60)

Lung, Plot, Extraversion. Linear Trajectories of Extraversion, moderated by lung conditions.

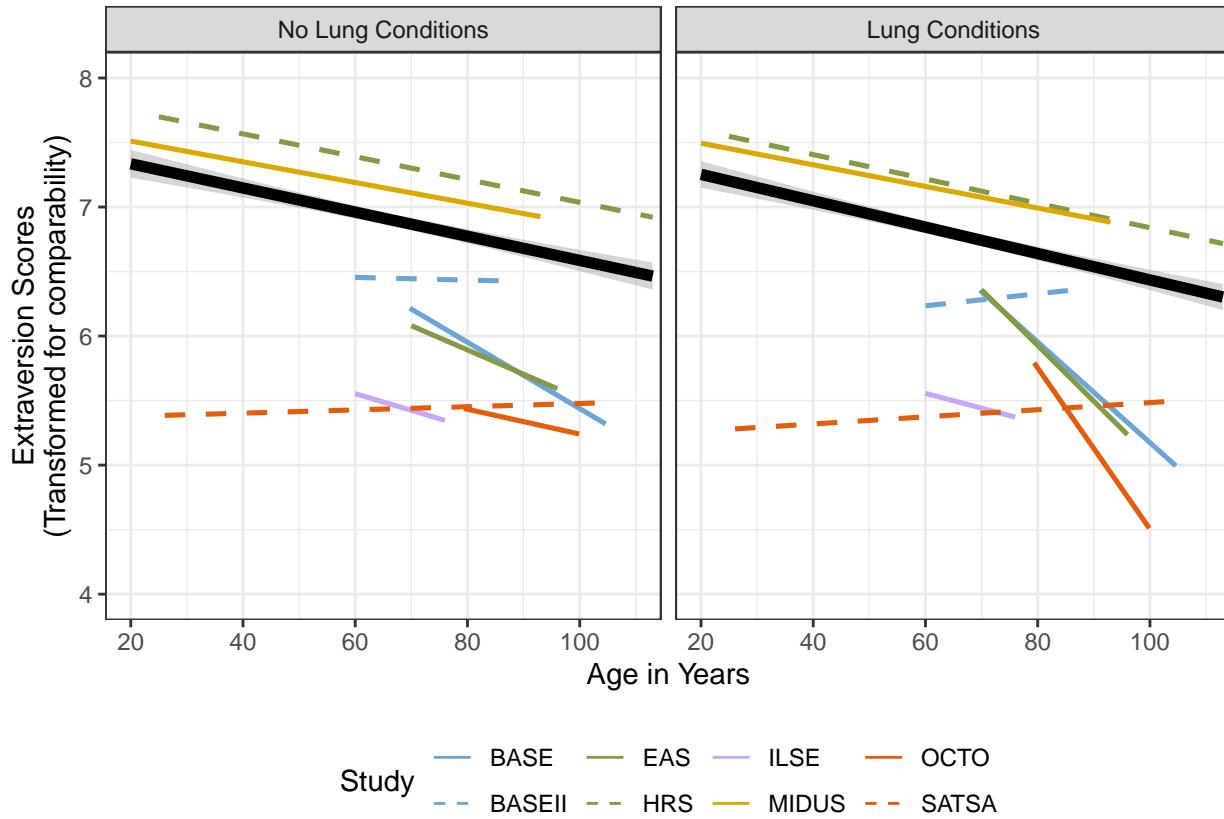


Figure S48: Lung, Plot, Extraversion. Linear Trajectories of Extraversion, moderated by lung conditions. Black line indicates average trajectory weighted by N. At the individual study level, none showed evidence that having a lung condition was associated with greater declines in extraversion, and the meta-analytic average was not significant ($p = .665$)

Lung, Plot, unweighted, Extraversion

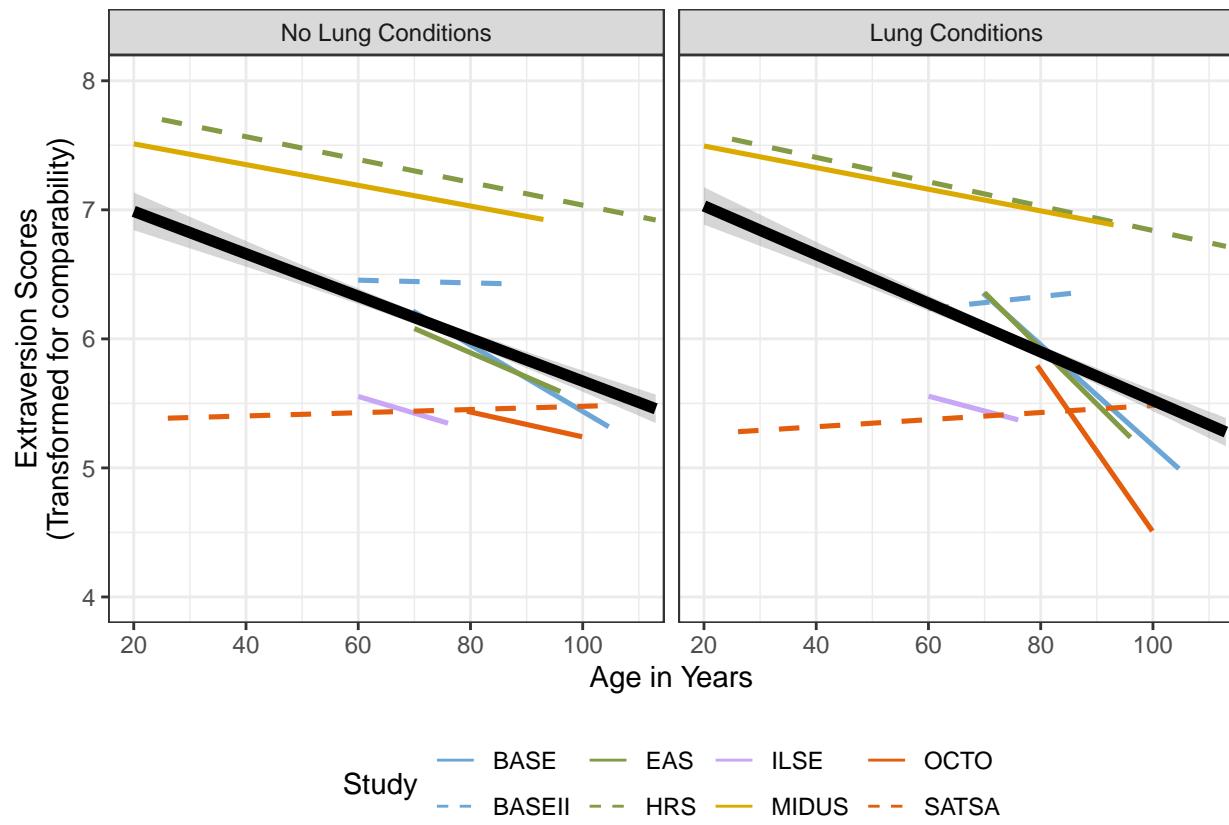


Figure S49: Lung, Plot, unweighted, Extraversion

Lung, Meta Analysis, Extraversion

```
##  
## Random-Effects Model (k = 8; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##    6.7699 -13.5397 -9.5397 -9.6479 -6.5397  
##  
## tau^2 (estimated amount of total heterogeneity): 0.0000 (SE = 0.0005)  
## tau (square root of estimated tau^2 value):       0.0013  
## I^2 (total heterogeneity / total variability):   0.09%  
## H^2 (total variability / sampling variability): 1.00  
##  
## Test for Heterogeneity:  
## Q(df = 7) = 8.2426, p-val = 0.3117  
##  
## Model Results:  
##  
## estimate      se     zval    pval    ci.lb    ci.ub  
## -0.0054  0.0126 -0.4329  0.6651 -0.0301  0.0192  
##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 8; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##    4.8828 -9.7656 -3.7656 -4.3903  8.2344  
##  
## tau^2 (estimated amount of residual heterogeneity):      0.0002 (SE = 0.0013)  
## tau (square root of estimated tau^2 value):            0.0155  
## I^2 (residual heterogeneity / unaccounted variability): 7.27%  
## H^2 (unaccounted variability / sampling variability):  1.08  
## R^2 (amount of heterogeneity accounted for):          0.00%  
##  
## Test for Residual Heterogeneity:  
## QE(df = 6) = 7.4428, p-val = 0.2818  
##  
## Test of Moderators (coefficient 2):  
## QM(df = 1) = 1.0595, p-val = 0.3033  
##  
## Model Results:  
##  
##           estimate      se     zval    pval    ci.lb    ci.ub  
## intrcpt    0.0791  0.0849  0.9321  0.3513 -0.0873  0.2455  
## age        -0.0015  0.0014 -1.0293  0.3033 -0.0043  0.0013  
##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 8; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc
```

```

##    3.7795   -7.5590    6.4410   -2.7070  118.4410
##
## tau^2 (estimated amount of residual heterogeneity):      0.0000 (SE = 0.0006)
## tau (square root of estimated tau^2 value):             0.0002
## I^2 (residual heterogeneity / unaccounted variability): 0.01%
## H^2 (unaccounted variability / sampling variability):  1.00
## R^2 (amount of heterogeneity accounted for):          96.20%
##
## Test for Residual Heterogeneity:
## QE(df = 2) = 1.3454, p-val = 0.5103
##
## Test of Moderators (coefficients 2:6):
## QM(df = 5) = 6.8972, p-val = 0.2284
##
## Model Results:
##
##                               estimate     se     zval    pval    ci.lb    ci.ub
## intrcpt                  0.0571  0.1833  0.3117  0.7553 -0.3022
## scaleEPI-Q                -0.5854  0.3085 -1.8975  0.0578 -1.1900
## scaleEPQ (NE) and NEO-PI (O) -0.0420  0.1861 -0.2257  0.8215 -0.4068
## scaleIPIP                 -0.3008  0.2857 -1.0528  0.2924 -0.8608
## scaleMIDI                 -0.0616  0.1839 -0.3349  0.7377 -0.4220
## scaleNEO-FFI               -0.1174  0.1941 -0.6049  0.5453 -0.4979
##                               ci.ub
## intrcpt                   0.4165
## scaleEPI-Q                 0.0193 .
## scaleEPQ (NE) and NEO-PI (O) 0.3228
## scaleIPIP                  0.2592
## scaleMIDI                  0.2988
## scaleNEO-FFI                0.2630
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Mixed-Effects Model (k = 8; tau^2 estimator: REML)
##
## logLik  deviance      AIC      BIC      AICc
## 3.1756   -6.3511    1.6489   0.0866  41.6489
##
## tau^2 (estimated amount of residual heterogeneity):      0.0000 (SE = 0.0006)
## tau (square root of estimated tau^2 value):             0.0021
## I^2 (residual heterogeneity / unaccounted variability): 0.23%
## H^2 (unaccounted variability / sampling variability):  1.00
## R^2 (amount of heterogeneity accounted for):          0.00%
##
## Test for Residual Heterogeneity:
## QE(df = 5) = 7.6165, p-val = 0.1787
##
## Test of Moderators (coefficients 2:3):
## QM(df = 2) = 0.6243, p-val = 0.7319
##
## Model Results:
##

```

```

##          estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt     -0.0476  0.0602  -0.7906  0.4292  -0.1656  0.0704
## countrySweden   0.0538  0.0681   0.7901  0.4295  -0.0797  0.1873
## countryU.S.    0.0422  0.0618   0.6819  0.4953  -0.0790  0.1634
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Mixed-Effects Model (k = 8; tau^2 estimator: REML)
##
##    logLik  deviance      AIC      BIC      AICc
##    5.3063  -10.6125  -4.6125  -5.2372  7.3875
##
## tau^2 (estimated amount of residual heterogeneity):      0.0000 (SE = 0.0006)
## tau (square root of estimated tau^2 value):             0.0004
## I^2 (residual heterogeneity / unaccounted variability): 0.01%
## H^2 (unaccounted variability / sampling variability):  1.00
## R^2 (amount of heterogeneity accounted for):            91.11%
##
## Test for Residual Heterogeneity:
## QE(df = 6) = 8.2115, p-val = 0.2230
##
## Test of Moderators (coefficient 2):
## QM(df = 1) = 0.0312, p-val = 0.8598
##
## Model Results:
##
##          estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt     -0.0003  0.0314  -0.0111  0.9912  -0.0619  0.0612
## mo        -0.0014  0.0078  -0.1766  0.8598  -0.0166  0.0139
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

```

Cancer, Table, Extraversion

Table S30: Linear Trajectories of Extraversion, Moderated by Cancer

coef	BASEII	EAS	HRS	LBC1936	MIDUS	OCTO	WLSS
Fixed Effects							
Intercept	6.44	6.30	7.37	5.32	7.19	5.75	5.65
	0.05	0.12	0.01	0.05	0.01	0.22	0.02
	p < .001						
Age	0.00	-0.20	-0.09	0.01	-0.08	-0.14	-0.01
	0.05	0.06	0.01	0.03	0.01	0.09	0.01
	p = 0.472	p < .001	p < .001	p = 0.426	p < .001	p = 0.051	p = 0.174
cancer	0.02	0.09	0.07	0.26	0.08	0.33	0.00
	0.16	0.3	0.03	0.14	0.05	0.62	0.06
	p = 0.451	p = 0.377	p = 0.02	p = 0.032	p = 0.053	p = 0.3	p = 0.48
Age x cancer	-0.11	-0.07	-0.04	-0.11	-0.02	-0.16	-0.07
	0.14	0.14	0.02	0.09	0.02	0.25	0.03
	p = 0.228	p = 0.313	p = 0.017	p = 0.116	p = 0.23	p = 0.252	p = 0.022
Random Effects							
τ_{00}	0.89	1.67	0.68	0.97	0.75	1.02	0.72
τ_{01}	-0.17	-0.41	-0.01	-0.13	0.02	-0.08	-0.03
τ_{11}	0.18	0.17	0.03	0.13	0.00	0.01	0.04
σ^2	0.26	0.21	0.34	0.18	0.32	0.31	0.20
N_{people}	1,276	702	16,021	1,032	6,404	495	3,785
N_{obs}	3,816	1,634	34,982	3,016	12,985	1,122	8,358
LL	-4247	-1791	-44099	-3124	-16282	-1348	-9460

^a LL = Log Likelihood; ICC = Intra-Class Correlation; Age = age (centered at 60)

Cancer, Plot, Extraversion. Linear Trajectories of Extraversion, moderated by cancer.

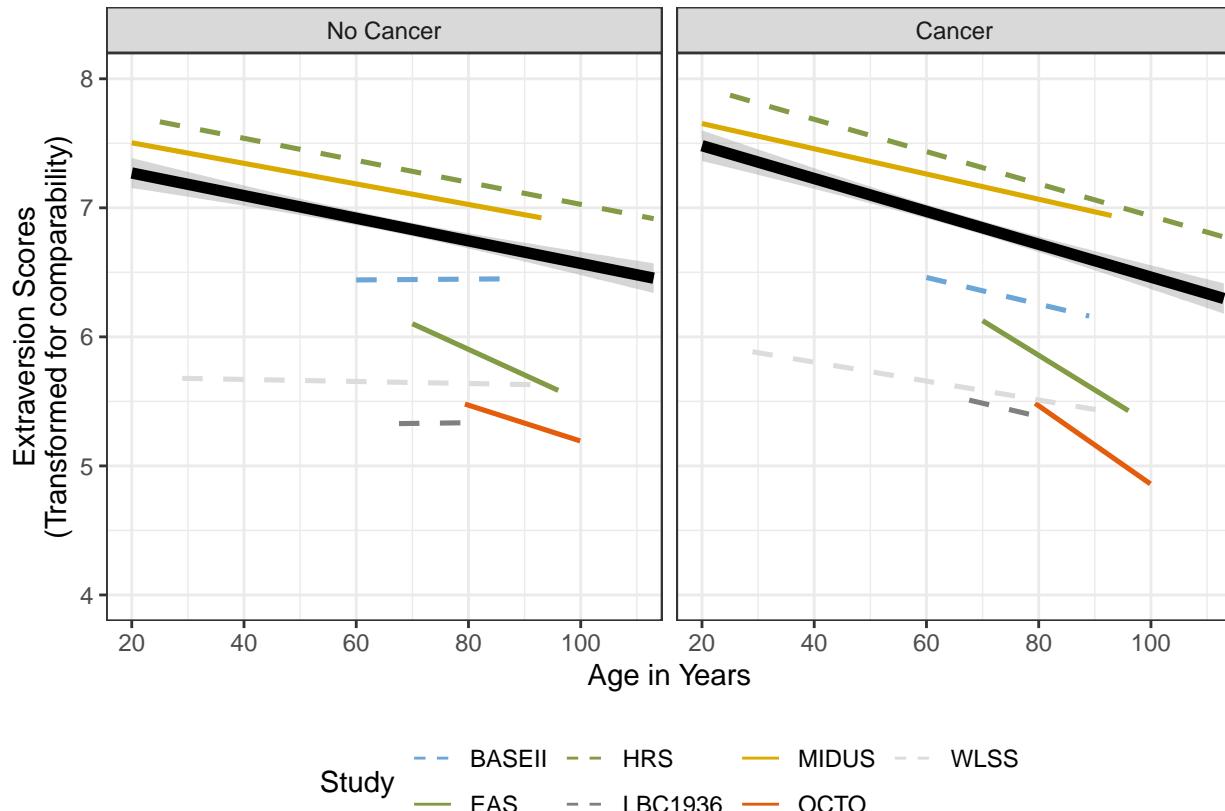


Figure S50: Cancer, Plot, Extraversion. Linear Trajectories of Extraversion, moderated by cancer. Black line indicates average trajectory weighted by N. At the individual study level, none showed evidence that having cancer was associated with greater declines in extraversion, and yet the meta-analytic average was significant ($p = .002$)

Cancer, Plot, unweighted, Extraversion

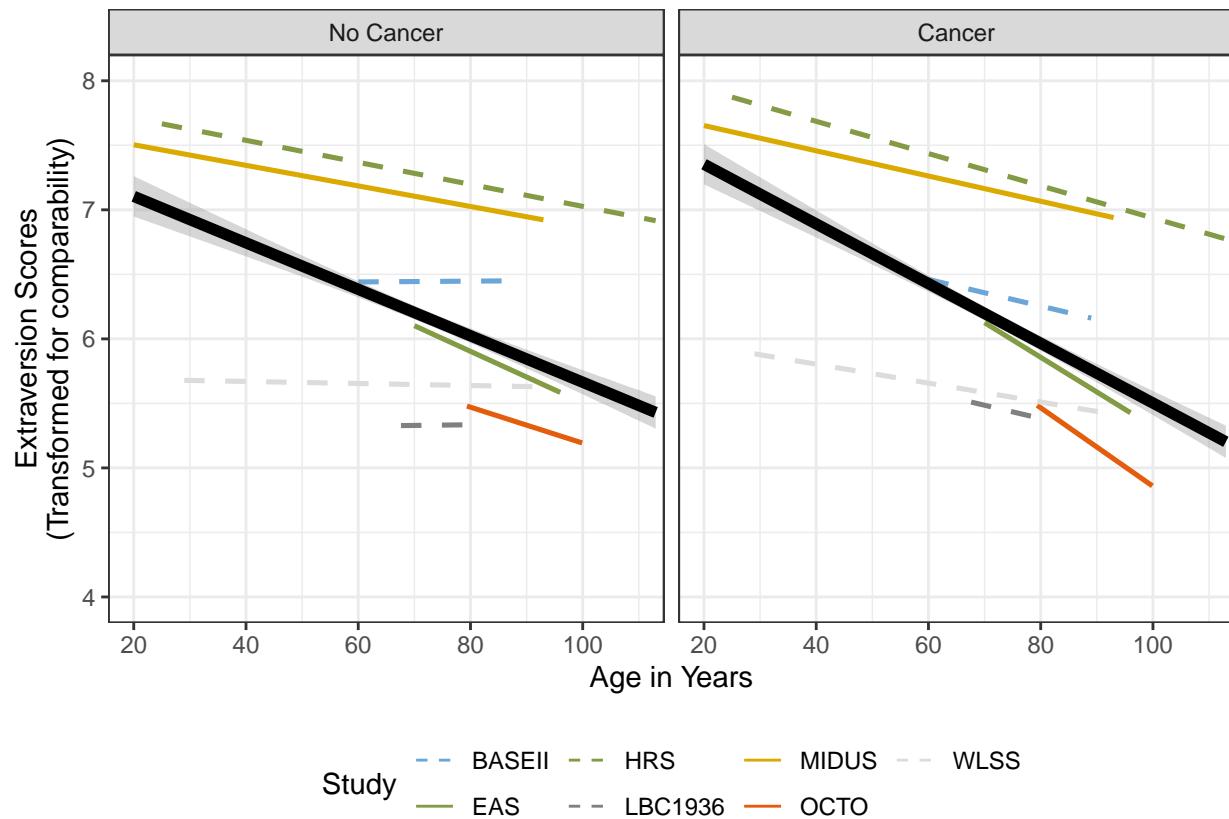


Figure S51: Cancer, Plot, unweighted, Extraversion

Cancer, Meta Analysis, Extraversion

```
##  
## Random-Effects Model (k = 7; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##    8.7038 -17.4076 -13.4076 -13.8240 -9.4076  
##  
## tau^2 (estimated amount of total heterogeneity): 0 (SE = 0.0006)  
## tau (square root of estimated tau^2 value): 0  
## I^2 (total heterogeneity / total variability): 0.00%  
## H^2 (total variability / sampling variability): 1.00  
##  
## Test for Heterogeneity:  
## Q(df = 6) = 2.5008, p-val = 0.8684  
##  
## Model Results:  
##  
## estimate      se     zval    pval    ci.lb    ci.ub  
## -0.0402  0.0132 -3.0545  0.0023 -0.0661 -0.0144 **  
##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 7; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##    6.6349 -13.2699 -7.2699 -8.4416 16.7301  
##  
## tau^2 (estimated amount of residual heterogeneity): 0.0001 (SE = 0.0012)  
## tau (square root of estimated tau^2 value): 0.0076  
## I^2 (residual heterogeneity / unaccounted variability): 1.92%  
## H^2 (unaccounted variability / sampling variability): 1.02  
## R^2 (amount of heterogeneity accounted for): 0.00%  
##  
## Test for Residual Heterogeneity:  
## QE(df = 5) = 2.0910, p-val = 0.8364  
##  
## Test of Moderators (coefficient 2):  
## QM(df = 1) = 0.3978, p-val = 0.5282  
##  
## Model Results:  
##  
##          estimate      se     zval    pval    ci.lb    ci.ub  
## intrcpt   0.0113  0.0836  0.1351  0.8926 -0.1525  0.1751  
## age       -0.0009  0.0014 -0.6307  0.5282 -0.0036  0.0018  
##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 7; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc
```

```

##    3.8578   -7.7156    4.2844   -3.5567   88.2844
##
## tau^2 (estimated amount of residual heterogeneity):      0 (SE = 0.0007)
## tau (square root of estimated tau^2 value):             0
## I^2 (residual heterogeneity / unaccounted variability): 0.00%
## H^2 (unaccounted variability / sampling variability):  1.00
## R^2 (amount of heterogeneity accounted for):          0.00%
##
## Test for Residual Heterogeneity:
## QE(df = 2) = 0.5607, p-val = 0.7555
##
## Test of Moderators (coefficients 2:5):
## QM(df = 4) = 1.9400, p-val = 0.7468
##
## Model Results:
##
##              estimate     se     zval    pval    ci.lb    ci.ub
## intrcpt      -0.0654  0.0324  -2.0220  0.0432  -0.1288  -0.0020  *
## countryGermany -0.0409  0.1465  -0.2791  0.7802  -0.3279  0.2462
## countrySweden  -0.0995  0.2493  -0.3993  0.6897  -0.5881  0.3890
## countryU.S.     0.0333  0.0355   0.9375  0.3485  -0.0363  0.1030
## countryUK       -0.0424  0.0960  -0.4420  0.6585  -0.2305  0.1457
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Mixed-Effects Model (k = 7; tau^2 estimator: REML)
##
##              logLik   deviance      AIC      BIC      AICc
##            3.8473   -7.6946   4.3054   -3.5357   88.3054
##
## tau^2 (estimated amount of residual heterogeneity):      0 (SE = 0.0007)
## tau (square root of estimated tau^2 value):             0
## I^2 (residual heterogeneity / unaccounted variability): 0.00%
## H^2 (unaccounted variability / sampling variability):  1.00
## R^2 (amount of heterogeneity accounted for):          0.00%
##
## Test for Residual Heterogeneity:
## QE(df = 2) = 0.5420, p-val = 0.7626
##
## Test of Moderators (coefficients 2:5):
## QM(df = 4) = 1.9587, p-val = 0.7433
##
## Model Results:
##
##              estimate     se     zval    pval    ci.lb    ci.ub
## intrcpt      -0.0654  0.0324  -2.0220  0.0432  -0.1288  -0.0020  *
## scaleBFI-S    -0.0409  0.1465  -0.2791  0.7802  -0.3279  0.2462
## scaleEPI-Q    -0.0995  0.2493  -0.3993  0.6897  -0.5881  0.3890
## scaleIPIP     -0.0315  0.0829  -0.3795  0.7043  -0.1939  0.1310
## scaleMIDI      0.0337  0.0356   0.9480  0.3431  -0.0360  0.1035
##
## ---

```

```

## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Mixed-Effects Model (k = 7; tau^2 estimator: REML)
##
##   logLik  deviance      AIC      BIC      AICc
##   7.6215 -15.2430 -9.2430 -10.4147 14.7570
##
## tau^2 (estimated amount of residual heterogeneity): 0 (SE = 0.0006)
## tau (square root of estimated tau^2 value):          0
## I^2 (residual heterogeneity / unaccounted variability): 0.00%
## H^2 (unaccounted variability / sampling variability): 1.00
## R^2 (amount of heterogeneity accounted for):        0.00%
##
## Test for Residual Heterogeneity:
## QE(df = 5) = 2.3760, p-val = 0.7950
##
## Test of Moderators (coefficient 2):
## QM(df = 1) = 0.1248, p-val = 0.7239
##
## Model Results:
##
##           estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt  -0.0281  0.0368 -0.7653  0.4441 -0.1002  0.0439
## mo       -0.0039  0.0109 -0.3533  0.7239 -0.0252  0.0175
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

```

Diabetes, Table, Extraversion

Table S31: Linear Trajectories of Extraversion, Moderated by Diabetes

coef	BASE	BASEII	EAS	HRS	ILSE	LBC1936	MIDUS	OCTO	SATSA	SLS	WLSS
Fixed Effects											
Intercept	6.49	6.42	6.32	7.40	5.57	5.34	7.19	5.80	5.42	5.65	5.65
Age	0.12 p < .001	0.05 p < .001	0.12 p < .001	0.01 p < .001	0.05 p < .001	0.05 p < .001	0.01 p < .001	0.21 p < .001	0.02 p < .001	0.03 p < .001	0.02 p < .001
diabetes	-0.28 p < .001	0.00 p = 0.474	-0.21 p < .001	-0.09 p < .001	-0.14 p < .001	0.01 p = 0.347	-0.08 p < .001	-0.16 p = 0.028	0.02 p = 0.059	-0.19 p < .001	-0.01 p = 0.099
Age x diabetes	0.04 p < .001	0.04 p = 0.474	0.06 p < .001	0.01 p < .001	0.04 p < .001	0.03 p = 0.347	0.01 p < .001	0.08 p = 0.028	0.01 p = 0.059	0.01 p < .001	0.01 p = 0.099
Age x diabetes	0.26 p = 0.175	0.20 p = 0.123	-0.09 p = 0.375	-0.15 p < .001	-0.04 p < .001	0.19 p = 0.399	-0.06 p = 0.128	-0.37 p = 0.142	-0.12 p = 0.332	-0.02 p = 0.166	-0.02 p = 0.416
Age x diabetes	-0.10 p = 0.175	-0.11 p = 0.242	0.06 p = 0.333	-0.02 p = 0.114	0.12 p = 0.172	-0.25 p = 0.011	-0.03 p = 0.213	0.07 p = 0.413	0.06 p = 0.197	-0.09 p = 0.049	-0.04 p = 0.198
Random Effects											
τ_{00}	0.47	0.89	1.72	0.68	0.74	0.97	0.75	1.01	0.66	0.91	0.72
τ_{01}	0.02	-0.17	-0.43	-0.02	-0.05	-0.13	0.02	-0.08	-0.04	-0.05	-0.03
τ_{11}	0.02	0.18	0.17	0.03	0.12	0.13	0.00	0.01	0.04	0.00	0.04
σ^2	0.28	0.26	0.21	0.34	0.23	0.18	0.31	0.31	0.28	0.13	0.20
N_{people}	516	1,276	702	16,040	487	1,032	6,253	495	1,914	1,494	3,781
N_{obs}	983	3,816	1,639	35,020	1,221	3,016	12,777	1,122	7,730	3,932	8,353
LL	-1185	-4247	-1796	-44103	-1416	-3123	-15980	-1348	-8438	-3614	-9457

^a LL = Log Likelihood; Age = age (centered at 60)

Diabetes, Plot, Extraversion. Linear Trajectories of Extraversion, moderated by diabetes.

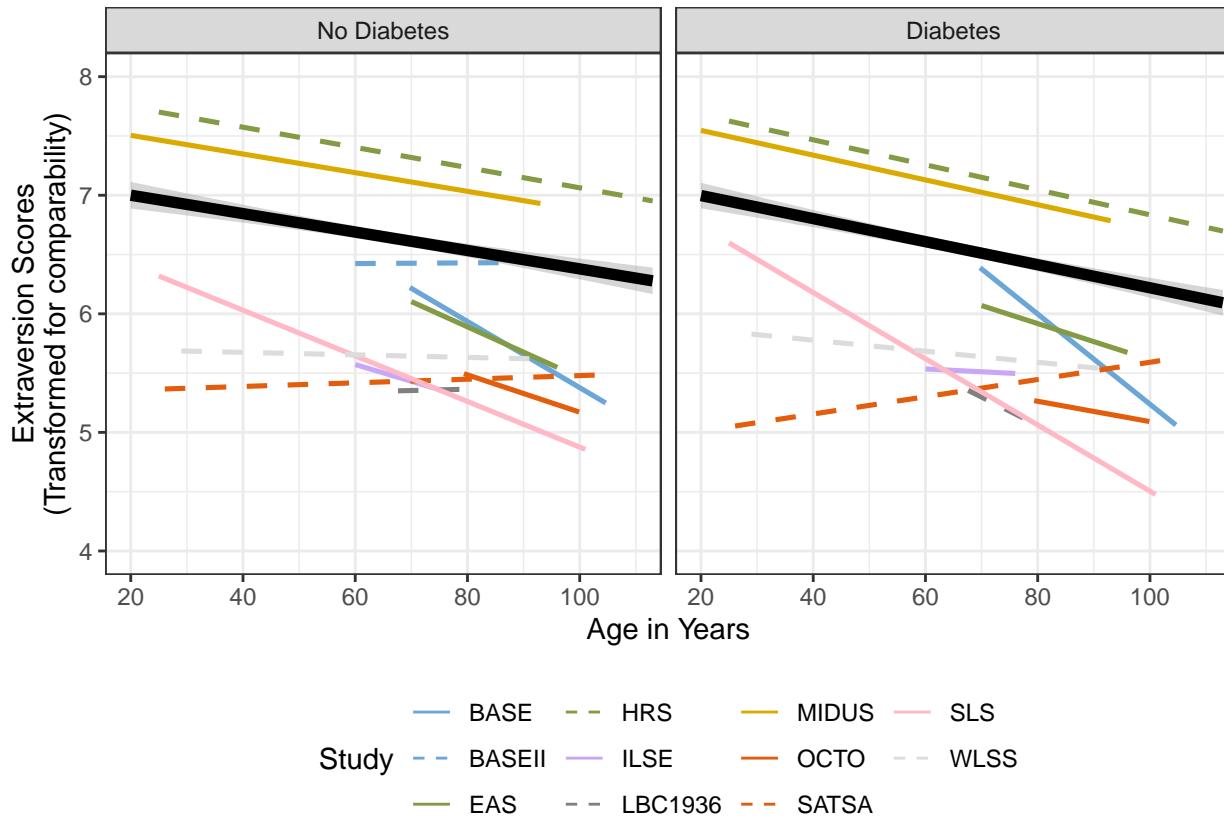


Figure S52: Diabetes, Plot, Extraversion. Linear Trajectories of Extraversion, moderated by diabetes. Black line indicates average trajectory weighted by N. At the individual study level, none showed evidence that having diabetes was associated with greater declines in extraversion, and the meta-analytic average was significant ($p = .04$)

Diabetes, Plot, unweighted, Extraversion

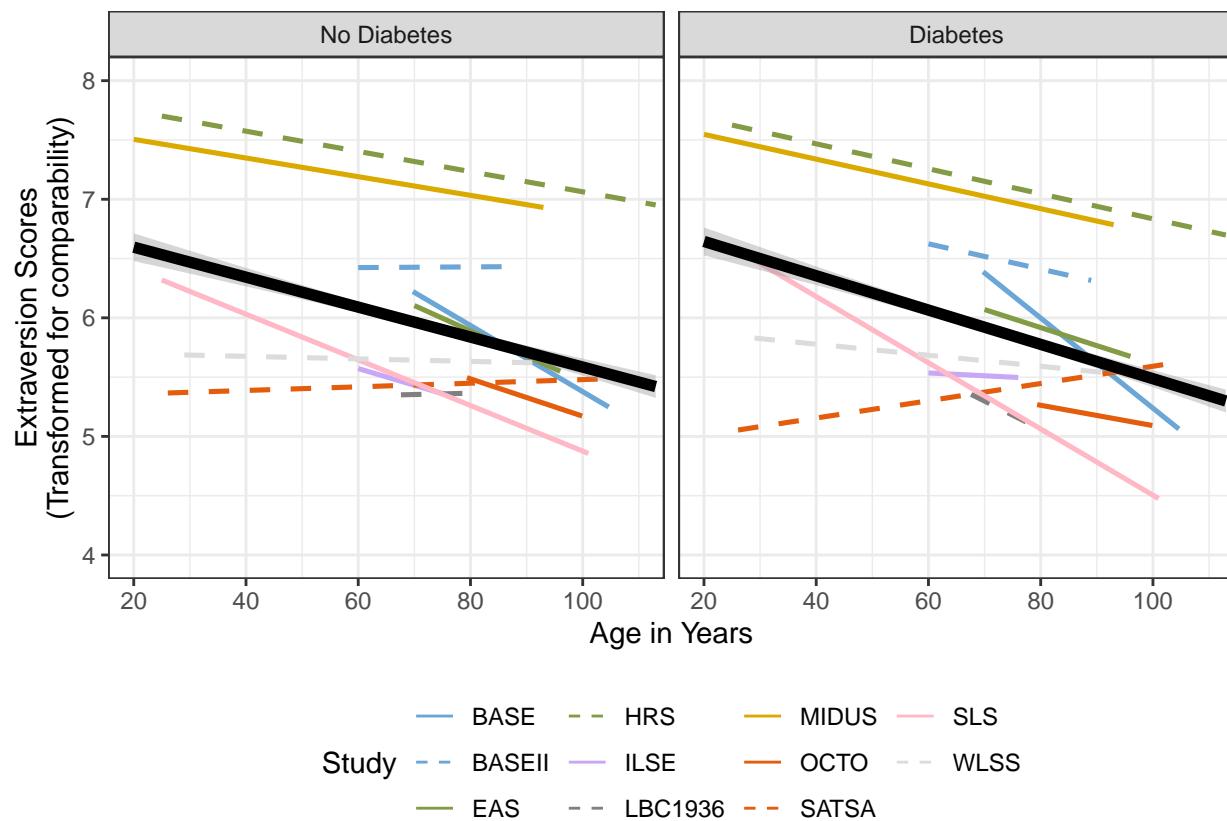


Figure S53: Diabetes, Plot, unweighted, Extraversion

Diabetes, Meta Analysis, Extraversion

```
##  
## Random-Effects Model (k = 11; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##  10.5111  -21.0222  -17.0222  -16.4170  -15.3079  
##  
## tau^2 (estimated amount of total heterogeneity): 0 (SE = 0.0007)  
## tau (square root of estimated tau^2 value): 0  
## I^2 (total heterogeneity / total variability): 0.00%  
## H^2 (total variability / sampling variability): 1.00  
##  
## Test for Heterogeneity:  
## QE(df = 10) = 9.8929, p-val = 0.4499  
##  
## Model Results:  
##  
## estimate      se     zval     pval    ci.lb    ci.ub  
## -0.0265  0.0129  -2.0513  0.0402  -0.0519  -0.0012  *  
##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 11; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##  8.5264  -17.0528  -11.0528  -10.4612  -6.2528  
##  
## tau^2 (estimated amount of residual heterogeneity): 0 (SE = 0.0012)  
## tau (square root of estimated tau^2 value): 0  
## I^2 (residual heterogeneity / unaccounted variability): 0.00%  
## H^2 (unaccounted variability / sampling variability): 1.00  
## R^2 (amount of heterogeneity accounted for): 0.00%  
##  
## Test for Residual Heterogeneity:  
## QE(df = 9) = 9.8696, p-val = 0.3611  
##  
## Test of Moderators (coefficient 2):  
## QM(df = 1) = 0.0233, p-val = 0.8786  
##  
## Model Results:  
##  
##          estimate      se     zval     pval    ci.lb    ci.ub  
## intrcpt  -0.0125  0.0930  -0.1339  0.8935  -0.1948  0.1698  
## age       -0.0002  0.0015  -0.1528  0.8786  -0.0031  0.0026  
##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 11; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc
```

```

##    2.7156   -5.4312   12.5688    4.4564  192.5688
##
## tau^2 (estimated amount of residual heterogeneity):      0.0000 (SE = 0.0009)
## tau (square root of estimated tau^2 value):             0.0027
## I^2 (residual heterogeneity / unaccounted variability): 0.41%
## H^2 (unaccounted variability / sampling variability):  1.00
## R^2 (amount of heterogeneity accounted for):          0.00%
##
## Test for Residual Heterogeneity:
## QE(df = 3) = 4.8109, p-val = 0.1862
##
## Test of Moderators (coefficients 2:8):
## QM(df = 7) = 5.0707, p-val = 0.6513
##
## Model Results:
##
##                                estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt                  -0.0360  0.0426  -0.8461  0.3975  -0.1195
## scaleBFI-S                -0.0733  0.1622  -0.4520  0.6513  -0.3913
## scaleEPI-Q                 0.1078  0.3280   0.3286  0.7425  -0.5352
## scaleEPQ (NE) and NEO-PI (O)  0.0935  0.0799   1.1705  0.2418  -0.0631
## scaleIPIP                  -0.0993  0.0958  -1.0366  0.2999  -0.2870
## scaleMIDI                   0.0146  0.0452   0.3238  0.7461  -0.0739
## scaleNEO-FFI                 0.0293  0.0918   0.3190  0.7497  -0.1507
## scaleNEO-PI-R                -0.0507  0.0675  -0.7510  0.4526  -0.1830
##
##                                ci.lb    ci.ub
## intrcpt                  0.0474
## scaleBFI-S                0.2446
## scaleEPI-Q                 0.7507
## scaleEPQ (NE) and NEO-PI (O) 0.2501
## scaleIPIP                  0.0884
## scaleMIDI                   0.1032
## scaleNEO-FFI                 0.2093
## scaleNEO-PI-R                0.0816
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Mixed-Effects Model (k = 11; tau^2 estimator: REML)
##
##    logLik  deviance      AIC      BIC      AICc
##    6.9142  -13.8284  -1.8284  -3.0778  82.1716
##
## tau^2 (estimated amount of residual heterogeneity):      0 (SE = 0.0008)
## tau (square root of estimated tau^2 value):             0
## I^2 (residual heterogeneity / unaccounted variability): 0.00%
## H^2 (unaccounted variability / sampling variability):  1.00
## R^2 (amount of heterogeneity accounted for):          0.00%
##
## Test for Residual Heterogeneity:
## QE(df = 6) = 3.9497, p-val = 0.6835
##
## Test of Moderators (coefficients 2:5):

```

```

## QM(df = 4) = 5.9432, p-val = 0.2034
##
## Model Results:
##
##           estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt     -0.0360  0.0425  -0.8478  0.3965  -0.1194  0.0473
## countryGermany  0.0075  0.0838   0.0891  0.9290  -0.1567  0.1716
## countrySweden   0.0941  0.0786   1.1971  0.2313  -0.0600  0.2482
## countryU.S.     0.0106  0.0448   0.2370  0.8126  -0.0773  0.0985
## countryUK       -0.2123  0.1157  -1.8351  0.0665  -0.4391  0.0145 .
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Mixed-Effects Model (k = 11; tau^2 estimator: REML)
##
## logLik  deviance      AIC      BIC      AICC
## 9.4535 -18.9069 -12.9069 -12.3152 -8.1069
##
## tau^2 (estimated amount of residual heterogeneity):      0 (SE = 0.0007)
## tau (square root of estimated tau^2 value):               0
## I^2 (residual heterogeneity / unaccounted variability): 0.00%
## H^2 (unaccounted variability / sampling variability):   1.00
## R^2 (amount of heterogeneity accounted for):            0.00%
##
## Test for Residual Heterogeneity:
## QE(df = 9) = 9.4350, p-val = 0.3981
##
## Test of Moderators (coefficient 2):
## QM(df = 1) = 0.4579, p-val = 0.4986
##
## Model Results:
##
##           estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt     -0.0474  0.0334  -1.4176  0.1563  -0.1129  0.0181
## mo          0.0062  0.0092   0.6767  0.4986  -0.0117  0.0241
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

```

Hypertension, Table, Extraversion

Table S32: Linear Trajectories of Extraversion, Moderated by Hypertension

coef	BASE	BASEII	EAS	HRS	ILSE	LBC1936	MIDUS	OCTO	SATSA	SLS	SOEP	WLSG	WLSS
Fixed Effects													
Intercept	6.60	6.46	6.39	7.41	5.61	5.39	7.20	5.82	5.38	5.64	6.33	5.80	5.69
Age	0.15	0.06	0.18	0.01	0.06	0.06	0.01	0.24	0.06	0.03	0.01	0.01	0.02
hbp	p < .001	p < .001	p < .001	p < .001	p < .001	p < .001	p < .001	p < .001	p < .001	p < .001	p < .001	p < .001	p < .001
Age x hbp	-0.31	0.04	-0.26	-0.07	-0.13	-0.01	-0.08	-0.17	0.04	-0.19	-0.06	-0.04	0.00
	0.06	0.05	0.08	0.01	0.05	0.03	0.01	0.09	0.03	0.01	0	0.01	0.01
	p < .001	p = .001	p < .001	p = .001	p = .0003	p = .0351	p = .001	p = .034	p = .0111	p = .001	p = .001	p = .001	p = .0452
	-0.12	-0.08	-0.17	-0.07	-0.09	-0.09	-0.05	-0.09	0.04	0.01	-0.05	-0.06	-0.13
	0.22	0.1	0.23	0.02	0.09	0.09	0.03	0.45	0.07	0.06	0.01	0.03	0.03
	p = .001	p = .001	p = .001	p < .001	p = .0165	p = .0154	p = .0077	p = .0419	p = .0301	p = .041	p = .001	p = .018	p = .001
	0.29	0.229	0.227	.001	0.165	0.154	0.077	0.419	0.301	0.41	0.001	0.018	.001
	0.02	-0.09	0.11	-0.02	-0.01	0.02	0.00	0.04	-0.02	-0.03	0.00	-0.02	-0.05
	0.08	0.09	0.1	0.01	0.07	0.06	0.02	0.18	0.03	0.03	0.01	0.01	0.02
	p = .0405	p = .149	p = .144	p = .06	p = .447	p = .365	p = .418	p = .403	p = .227	p = .122	p = .364	p = .059	p = .0007
Random Effects													
τ_{00}	0.48	0.89	1.66	0.68	0.74	0.98	0.75	1.01	0.66	0.91	0.58	0.74	0.71
τ_{01}	0.01	-0.17	-0.40	-0.02	-0.05	-0.14	0.02	-0.08	-0.04	-0.05	-0.01	-0.02	-0.03
τ_{11}	0.02	0.17	0.16	0.03	0.12	0.13	0.00	0.01	0.04	0.00	0.00	0.05	0.04
σ^2	0.28	0.26	0.21	0.34	0.23	0.18	0.31	0.31	0.28	0.13	0.38	0.20	0.20
N_{people}	516	1,276	700	16,040	486	1,032	6,251	494	1,943	1,497	33,612	6,834	3,797
N_{obs}	983	3,816	1,632	35,028	1,218	3,016	12,765	1,121	7,815	3,935	74,040	16,564	8,383
LL	-1185	-4243	-1788	-44137	-1412	-3125	-15967	-1347	-8546	-3618	-92878	-18843	-9476

^a LL = Log Likelihood; Age = age (centered at 60)

Hypertension, Plot, Extraversion. Linear Trajectories of Extraversion, moderated by hypertension.

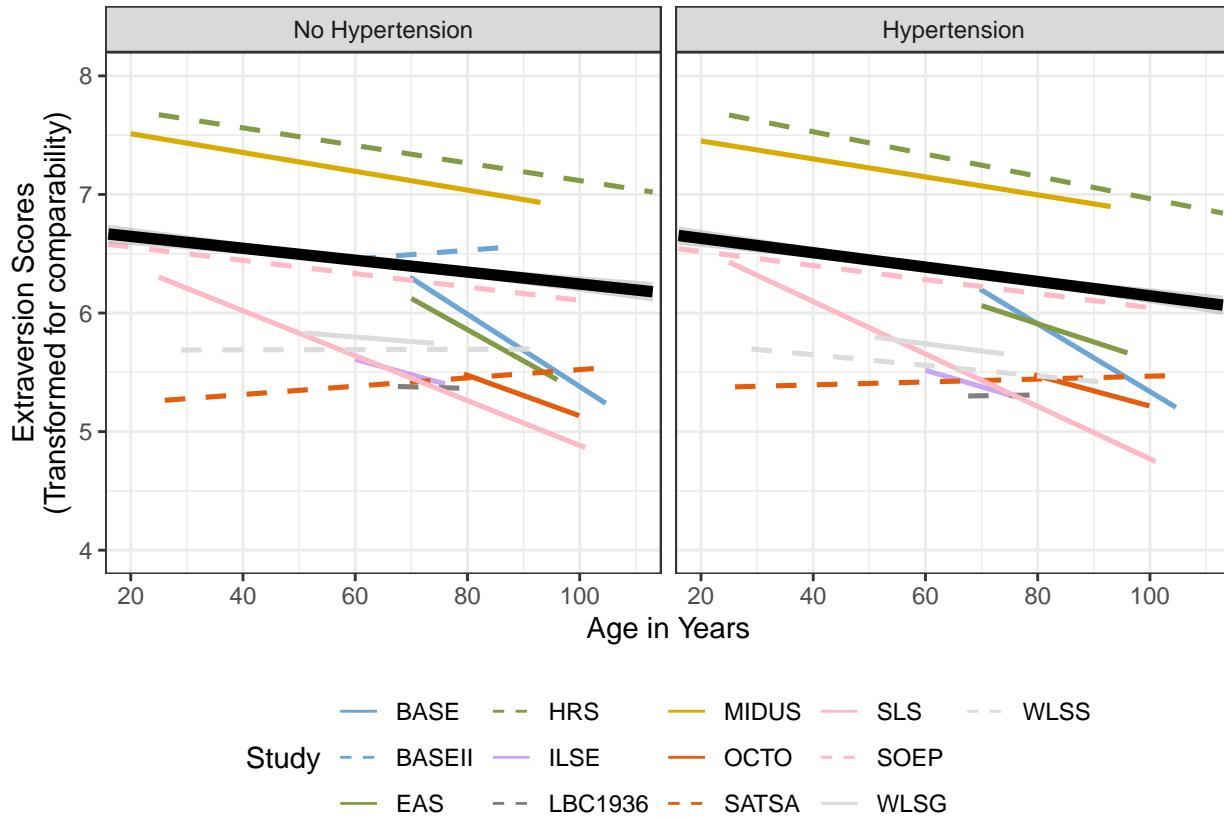


Figure S54: Hypertension, Plot, Extraversion. Linear Trajectories of Extraversion, moderated by hypertension. Black line indicates average trajectory weighted by N. At the individual study level, few showed evidence that having hypertension was associated with greater declines in extraversion, and the meta-analytic average was significant ($p = .022$).

Hypertension, Plot, unweighted, Extraversion

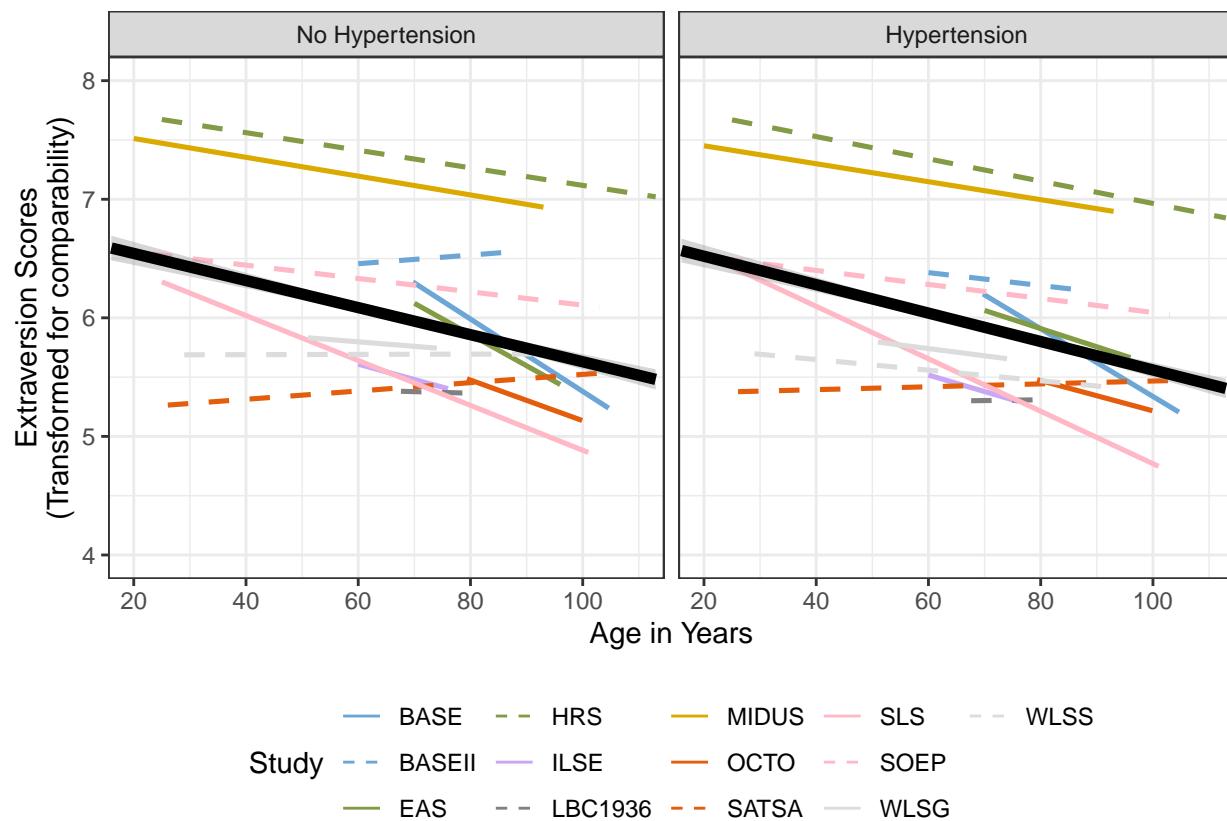


Figure S55: Hypertension, Plot, unweighted, Extraversion

Hypertension, Meta Analysis, Extraversion

```
##  
## Random-Effects Model (k = 13; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##  23.2570 -46.5139 -42.5139 -41.5441 -41.1806  
##  
## tau^2 (estimated amount of total heterogeneity): 0.0001 (SE = 0.0002)  
## tau (square root of estimated tau^2 value):       0.0072  
## I^2 (total heterogeneity / total variability):   10.30%  
## H^2 (total variability / sampling variability):  1.11  
##  
## Test for Heterogeneity:  
## Q(df = 12) = 9.5813, p-val = 0.6526  
##  
## Model Results:  
##  
## estimate      se     zval    pval    ci.lb    ci.ub  
## -0.0144  0.0063 -2.2825  0.0225 -0.0268 -0.0020  *##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 13; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##  20.9906 -41.9813 -35.9813 -34.7876 -32.5527  
##  
## tau^2 (estimated amount of residual heterogeneity):      0.0000 (SE = 0.0002)  
## tau (square root of estimated tau^2 value):            0.0040  
## I^2 (residual heterogeneity / unaccounted variability): 2.70%  
## H^2 (unaccounted variability / sampling variability):  1.03  
## R^2 (amount of heterogeneity accounted for):          70.08%  
##  
## Test for Residual Heterogeneity:  
## QE(df = 11) = 8.5174, p-val = 0.6663  
##  
## Test of Moderators (coefficient 2):  
## QM(df = 1) = 0.8452, p-val = 0.3579  
##  
## Model Results:  
##  
##           estimate      se     zval    pval    ci.lb    ci.ub  
## intrcpt    0.0192  0.0360   0.5319  0.5948 -0.0515  0.0898  
## age       -0.0006  0.0007  -0.9193  0.3579 -0.0019  0.0007  
##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 13; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc
```

```

## 14.7168 -29.4336 -17.4336 -16.9569 66.5664
##
## tau^2 (estimated amount of residual heterogeneity): 0 (SE = 0.0002)
## tau (square root of estimated tau^2 value): 0
## I^2 (residual heterogeneity / unaccounted variability): 0.00%
## H^2 (unaccounted variability / sampling variability): 1.00
## R^2 (amount of heterogeneity accounted for): 100.00%
##
## Test for Residual Heterogeneity:
## QE(df = 8) = 5.2655, p-val = 0.7289
##
## Test of Moderators (coefficients 2:5):
## QM(df = 4) = 4.3158, p-val = 0.3649
##
## Model Results:
##
##          estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt -0.0316 0.0115 -2.7406 0.0061 -0.0542 -0.0090  **
## countryGermany 0.0281 0.0142 1.9783 0.0479 0.0003 0.0559   *
## countrySweden 0.0106 0.0322 0.3296 0.7417 -0.0525 0.0738
## countryU.S. 0.0186 0.0150 1.2441 0.2135 -0.0107 0.0480
## countryUK 0.0512 0.0577 0.8868 0.3752 -0.0619 0.1643
##
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Mixed-Effects Model (k = 13; tau^2 estimator: REML)
##
## logLik deviance      AIC      BIC      AICc
## 9.6024 -19.2048 -1.2048 -4.7198 178.7952
##
## tau^2 (estimated amount of residual heterogeneity): 0.0000 (SE = 0.0003)
## tau (square root of estimated tau^2 value): 0.0035
## I^2 (residual heterogeneity / unaccounted variability): 2.01%
## H^2 (unaccounted variability / sampling variability): 1.02
## R^2 (amount of heterogeneity accounted for): 76.84%
##
## Test for Residual Heterogeneity:
## QE(df = 5) = 3.7951, p-val = 0.5793
##
## Test of Moderators (coefficients 2:8):
## QM(df = 7) = 5.4730, p-val = 0.6024
##
## Model Results:
##
##          estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt -0.0317 0.0118 -2.6866 0.0072 -0.0549
## scaleBFI-S 0.0279 0.0149 1.8748 0.0608 -0.0013
## scaleEPI-Q 0.0755 0.1790 0.4217 0.6732 -0.2754
## scaleEPQ (NE) and NEO-PI (O) 0.0088 0.0329 0.2686 0.7882 -0.0557
## scaleIPIP 0.0721 0.0511 1.4112 0.1582 -0.0280
## scaleMIDI 0.0204 0.0159 1.2852 0.1987 -0.0107
## scaleNEO-FFI 0.0352 0.0561 0.6286 0.5296 -0.0746

```

```

## scaleNEO-PI-R           -0.0001  0.0300  -0.0035  0.9972  -0.0589
##                               ci.ub
## intrcpt                  -0.0086  ** 
## scaleBFI-S                 0.0570   .
## scaleEPI-Q                 0.4263
## scaleEPQ (NE) and NEO-PI (O) 0.0734
## scaleIPIP                  0.1723
## scaleMIDI                  0.0514
## scaleNEO-FFI                 0.1451
## scaleNEO-PI-R                  0.0587
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Mixed-Effects Model (k = 13; tau^2 estimator: REML)
##
##   logLik  deviance      AIC      BIC      AICc
##  22.1178  -44.2357  -38.2357  -37.0420  -34.8071
##
## tau^2 (estimated amount of residual heterogeneity):      0.0000 (SE = 0.0001)
## tau (square root of estimated tau^2 value):             0.0041
## I^2 (residual heterogeneity / unaccounted variability): 3.60%
## H^2 (unaccounted variability / sampling variability):  1.04
## R^2 (amount of heterogeneity accounted for):            67.60%
##
## Test for Residual Heterogeneity:
## QE(df = 11) = 8.0196, p-val = 0.7115
##
## Test of Moderators (coefficient 2):
## QM(df = 1) = 1.4101, p-val = 0.2350
##
## Model Results:
##
##   estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt   -0.0367  0.0203  -1.8090  0.0705  -0.0765  0.0031  .
## mo        0.0064  0.0054   1.1875  0.2350  -0.0042  0.0169
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

```

Baseline Age, Table, Extraversion

Table S33: Linear Trajectories of Extraversion, Moderated by Baseline Age

coef	HRS	MIDUS	NAS	SATSA	SLS	WLSS
Fixed Effects						
Intercept	7.27	7.15	5.95	5.50	5.47	5.66
0.01	0.02	0.02	0.03	0.04	0.02	0.02
p < .001	p < .001	p < .001	p < .001	p < .001	p < .001	p < .001
Age	-0.05	-0.09	0.03	0.03	-0.21	0.00
0.02	0.01	0.01	0.01	0.02	0.02	0.01
p = 0.002	p < .001	p = 0.001	p = 0.002	p < .001	p = 0.351	
b.age	0.27	0.33	0.02	-0.15	0.43	0.03
0.02	0.04	0.07	0.05	0.06	0.05	
p < .001	p < .001	p = 0.418	p < .001	p < .001	p = 0.244	
Age x b.age	-0.12	-0.11	-0.10	-0.02	-0.08	-0.08
0.02	0.02	0.03	0.02	0.03	0.02	
p < .001	p < .001	p = 0.001	p = 0.163	p = 0.003	p < .001	
Random Effects						
τ_{00}	0.68	0.75	0.69	0.65	0.89	0.72
τ_{01}	-0.01	0.02	0.00	-0.04	-0.04	-0.03
τ_{11}	0.02	0.00	0.03	0.04	0.00	0.04
σ^2	0.34	0.31	0.31	0.28	0.12	0.20
N_{people}	16,053	6,409	1,645	1,966	1,541	4,064
N_{obs}	35,049	12,993	8,677	7,875	4,023	8,709
LL	-44097	-16257	-9488	-8608	-3673	-9912

^a LL = Log Likelihood; Age = age (centered at 60)

Baseline Age, Plot, Extraversion (In the main manuscript, this is Figure 8, in color)

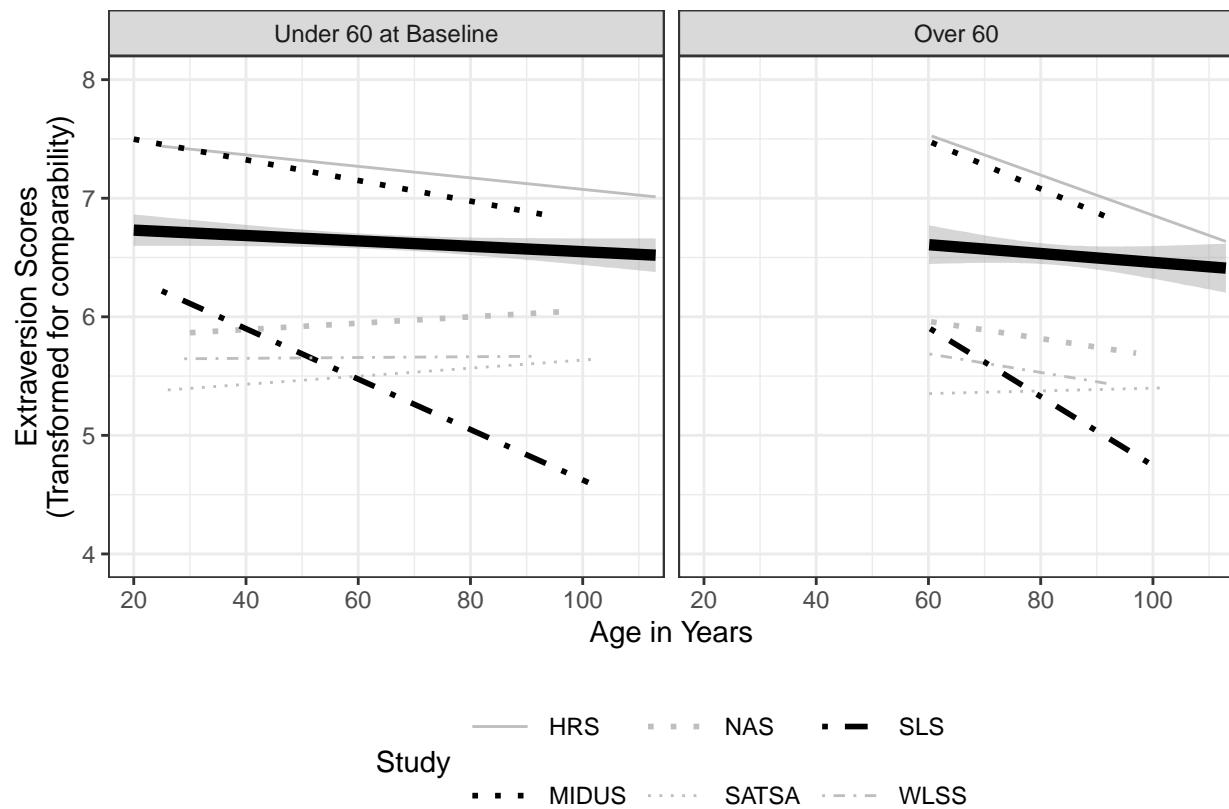


Figure S56: Baseline Age, Plot, Extraversion. Linear Trajectories of Extraversion, moderated by baseline age. Black line indicates average trajectory weighted by N. At the individual study level, most showed evidence that being over 60 at baseline was associated with greater declines in extraversion, and the meta-analytic average was significant ($p = .001$)

Baseline Age Plot, unweighted, Extraversion

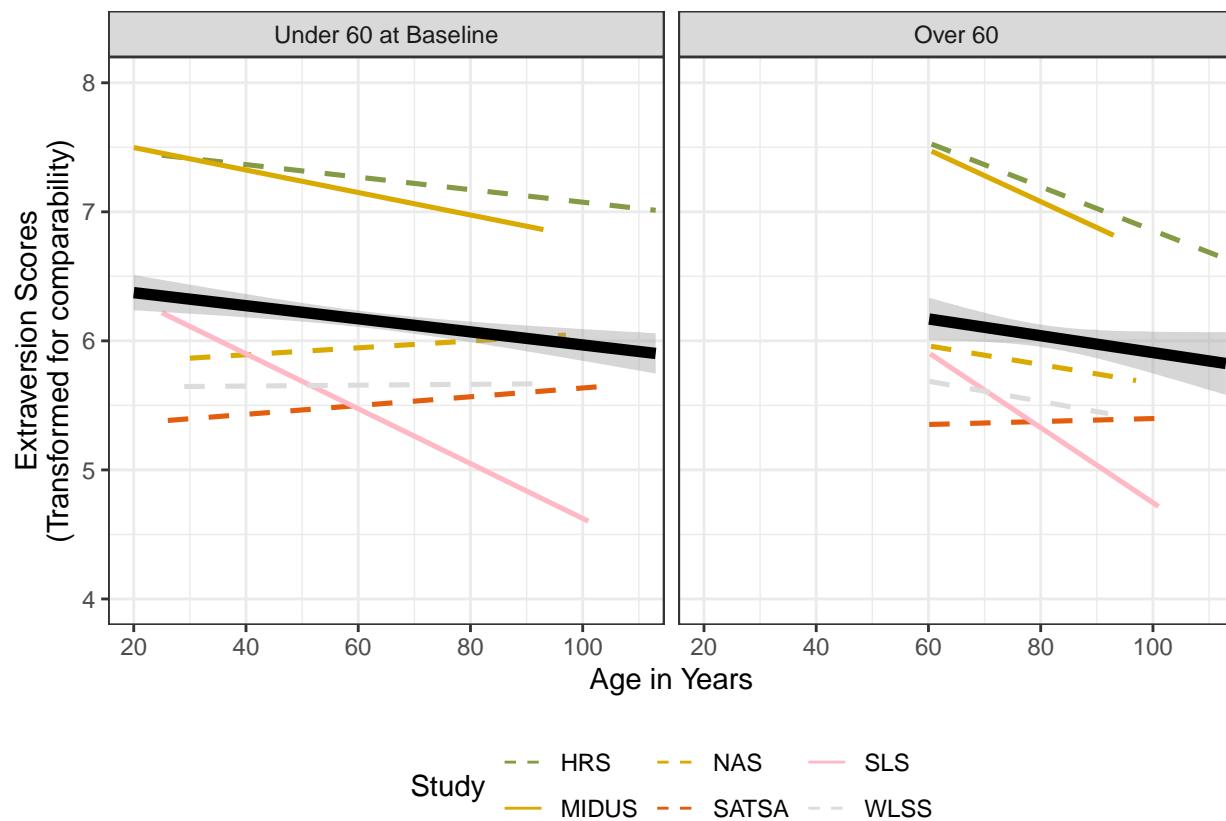


Figure S57: Baseline Age Plot, unweighted, Extraversion

Baseline Age, Meta Analysis, Extraversion

```
##  
## Random-Effects Model (k = 6; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##    9.3571  -18.7142  -14.7142  -15.4953  -8.7142  
##  
## tau^2 (estimated amount of total heterogeneity): 0.0009 (SE = 0.0009)  
## tau (square root of estimated tau^2 value):       0.0296  
## I^2 (total heterogeneity / total variability):   60.10%  
## H^2 (total variability / sampling variability):  2.51  
##  
## Test for Heterogeneity:  
## Q(df = 5) = 12.8450, p-val = 0.0249  
##  
## Model Results:  
##  
## estimate      se     zval    pval    ci.lb    ci.ub  
## -0.0867  0.0157  -5.5099 <.0001  -0.1176  -0.0559 ***  
##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 6; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##    7.0525  -14.1050  -8.1050  -9.9461  15.8950  
##  
## tau^2 (estimated amount of residual heterogeneity):      0.0012 (SE = 0.0013)  
## tau (square root of estimated tau^2 value):            0.0349  
## I^2 (residual heterogeneity / unaccounted variability): 66.04%  
## H^2 (unaccounted variability / sampling variability):  2.94  
## R^2 (amount of heterogeneity accounted for):          0.00%  
##  
## Test for Residual Heterogeneity:  
## QE(df = 4) = 12.8450, p-val = 0.0121  
##  
## Test of Moderators (coefficient 2):  
## QM(df = 1) = 0.0232, p-val = 0.8789  
##  
## Model Results:  
##  
##           estimate      se     zval    pval    ci.lb    ci.ub  
## intrcpt   -0.1067  0.1335  -0.7998  0.4238  -0.3683  0.1548  
## age        0.0004  0.0023   0.1523  0.8789  -0.0042  0.0049  
##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 6; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc
```

```

##    7.3964 -14.7929 -6.7929 -10.3984 33.2071
##
## tau^2 (estimated amount of residual heterogeneity):      0 (SE = 0.0005)
## tau (square root of estimated tau^2 value):             0
## I^2 (residual heterogeneity / unaccounted variability): 0.00%
## H^2 (unaccounted variability / sampling variability):  1.00
## R^2 (amount of heterogeneity accounted for):          100.00%
##
## Test for Residual Heterogeneity:
## QE(df = 3) = 1.7168, p-val = 0.6332
##
## Test of Moderators (coefficients 2:3):
## QM(df = 2) = 11.1282, p-val = 0.0038
##
## Model Results:
##
##              estimate     se     zval   pval   ci.lb   ci.ub
## intrcpt      -0.0820  0.0243 -3.3708 0.0007 -0.1297 -0.0343 *** 
## countrySweden  0.0595  0.0334  1.7800 0.0751 -0.0060  0.1250   .
## countryU.S.   -0.0264  0.0271 -0.9750 0.3295 -0.0796  0.0267
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Mixed-Effects Model (k = 6; tau^2 estimator: REML)
##
## logLik deviance      AIC      BIC      AICc
## 2.9365 -5.8730  6.1270 -5.8730  90.1270
##
## tau^2 (estimated amount of residual heterogeneity):      0 (SE = 0.0006)
## tau (square root of estimated tau^2 value):             0
## I^2 (residual heterogeneity / unaccounted variability): 0.00%
## H^2 (unaccounted variability / sampling variability):  1.00
## R^2 (amount of heterogeneity accounted for):          100.00%
##
## Test for Residual Heterogeneity:
## QE(df = 1) = 0.0588, p-val = 0.8084
##
## Test of Moderators (coefficients 2:5):
## QM(df = 4) = 12.7862, p-val = 0.0124
##
## Model Results:
##
##              estimate     se     zval   pval   ci.lb   ci.ub
## intrcpt      -0.0820  0.0243 -3.3708 0.0007 -0.1297
## scaleEPI-Q    -0.0172  0.0413 -0.4180 0.6759 -0.0981
## scaleEPQ (NE) and NEO-PI (O)  0.0595  0.0334  1.7800 0.0751 -0.0060
## scaleMIDI      -0.0360  0.0283 -1.2736 0.2028 -0.0915
## scaleNEO-PI-R   0.0038  0.0374  0.1024 0.9184 -0.0694
##
##              ci.ub
## intrcpt      -0.0343 ***
## scaleEPI-Q    0.0636
## scaleEPQ (NE) and NEO-PI (O)  0.1250   .

```

```

## scaleMIDI          0.0194
## scaleNEO-PI-R      0.0770
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Mixed-Effects Model (k = 6; tau^2 estimator: REML)
##
##   logLik  deviance      AIC      BIC      AICc
##   7.4131 -14.8261 -8.8261 -10.6673 15.1739
##
## tau^2 (estimated amount of residual heterogeneity): 0.0008 (SE = 0.0010)
## tau (square root of estimated tau^2 value):        0.0289
## I^2 (residual heterogeneity / unaccounted variability): 60.13%
## H^2 (unaccounted variability / sampling variability): 2.51
## R^2 (amount of heterogeneity accounted for):       4.38%
##
## Test for Residual Heterogeneity:
## QE(df = 4) = 9.8461, p-val = 0.0431
##
## Test of Moderators (coefficient 2):
## QM(df = 1) = 0.6530, p-val = 0.4191
##
## Model Results:
##
##           estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt  -0.1090  0.0316 -3.4514  0.0006  -0.1709  -0.0471 ***
## mo        0.0046  0.0057  0.8081  0.4191  -0.0065   0.0157
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

```

Openness

Intercept Only Model, Openness

Table S34: Openness, Intercept Only Models

coef	BASE	BASEII	EAS	HRS	ILSE	ILSE.Y	LBC1936	MIDUS	SATSA	SLS	SOEP	WLSG	WLSS
Fixed Effects													
Intercept	6.76	6.67	6.72	6.38	5.38	5.68	5.94	6.63	4.88	5.99	5.83	5.32	5.26
	0.04	0.03	0.04	0.01	0.04	0.04	0.03	0.01	0.02	0.02	0	0.01	0.01
	p < .001												
Random Effects													
τ_{00}	0.63	0.70	0.77	0.71	0.59	0.73	0.80	0.70	0.80	0.86	0.58	0.67	0.66
σ^2	0.33	0.27	0.20	0.35	0.38	0.34	0.24	0.35	0.35	0.12	0.41	0.28	0.29
ICC	0.65	0.72	0.79	0.67	0.61	0.68	0.77	0.67	0.70	0.88	0.59	0.71	0.69
	516	1,276	713	16,030	497	500	1,031	6,406	1,950	1,541	33,601	8,002	4,991
N_{people}													
N_{obs}	983	3,818	1,667	34,962	1,238	1,266	3,006	12,952	7,489	4,023	74,004	18,558	10,712
LL	-1218	-4256	-1799	-44383	-1542	-1564	-3300	-16506	-8767	-3607	-94315	-21850	-12851

^a LL = Log Likelihood; ICC = Intra-Class Correlation

Intercept Only Meta Analysis of ICC's, Openness

```
##  
## Random-Effects Model (k = 13; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##  13.6462  -27.2925  -23.2925  -22.3227  -21.9592  
##  
## tau^2 (estimated amount of total heterogeneity): 0.0059 (SE = 0.0025)  
## tau (square root of estimated tau^2 value):       0.0770  
## I^2 (total heterogeneity / total variability):   99.54%  
## H^2 (total variability / sampling variability): 219.53  
##  
## Test for Heterogeneity:  
## Q(df = 12) = 4775.5576, p-val < .0001  
##  
## Model Results:  
##  
## estimate      se     zval    pval    ci.lb    ci.ub  
##  0.7032  0.0217  32.4563 <.0001  0.6608  0.7457  ***  
##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 13; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##  12.6009  -25.2019  -19.2019  -18.0082  -15.7733  
##  
## tau^2 (estimated amount of residual heterogeneity):      0.0058 (SE = 0.0025)  
## tau (square root of estimated tau^2 value):            0.0761  
## I^2 (residual heterogeneity / unaccounted variability): 99.48%  
## H^2 (unaccounted variability / sampling variability): 192.08  
## R^2 (amount of heterogeneity accounted for):          2.51%  
##  
## Test for Residual Heterogeneity:  
## QE(df = 11) = 3082.7635, p-val < .0001  
##  
## Test of Moderators (coefficient 2):  
## QM(df = 1) = 1.1678, p-val = 0.2799  
##  
## Model Results:  
##  
##           estimate      se     zval    pval    ci.lb    ci.ub  
## intrcpt    0.5816  0.1146  5.0749 <.0001   0.3570  0.8062  ***  
## age        0.0020  0.0018  1.0806  0.2799  -0.0016  0.0056  
##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 13; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc
```

```

##   9.3702 -18.7404 -6.7404 -6.2637 77.2596
##
## tau^2 (estimated amount of residual heterogeneity):      0.0056 (SE = 0.0029)
## tau (square root of estimated tau^2 value):             0.0746
## I^2 (residual heterogeneity / unaccounted variability): 99.34%
## H^2 (unaccounted variability / sampling variability): 152.21
## R^2 (amount of heterogeneity accounted for):          6.32%
##
## Test for Residual Heterogeneity:
## QE(df = 8) = 2355.7645, p-val < .0001
##
## Test of Moderators (coefficients 2:5):
## QM(df = 4) = 4.8262, p-val = 0.3056
##
## Model Results:
##
##           estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt       0.6993  0.0528  13.2385 <.0001   0.5958   0.8029 *** 
## countryGermany -0.0486  0.0631 -0.7709  0.4408 -0.1723   0.0750
## countrySweden  -0.0026  0.0916 -0.0286  0.9772 -0.1822   0.1770
## countryU.S.      0.0527  0.0647  0.8135  0.4159 -0.0742   0.1795
## countryUK        0.0706  0.0916  0.7712  0.4406 -0.1089   0.2502
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Mixed-Effects Model (k = 13; tau^2 estimator: REML)
##
##           logLik  deviance      AIC      BIC      AICc
## 10.1276 -20.2553 -4.2553 -5.9212 139.7447
##
## tau^2 (estimated amount of residual heterogeneity):      0.0018 (SE = 0.0012)
## tau (square root of estimated tau^2 value):             0.0429
## I^2 (residual heterogeneity / unaccounted variability): 97.72%
## H^2 (unaccounted variability / sampling variability): 43.90
## R^2 (amount of heterogeneity accounted for):          68.94%
##
## Test for Residual Heterogeneity:
## QE(df = 6) = 213.6480, p-val < .0001
##
## Test of Moderators (coefficients 2:7):
## QM(df = 6) = 31.2492, p-val < .0001
##
## Model Results:
##
##           estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt       0.6994  0.0305  22.9041 <.0001   0.6395
## scaleBFI-S     -0.0455  0.0433 -1.0500  0.2937 -0.1303
## scaleEPQ (NE) and NEO-PI (O) -0.0026  0.0531 -0.0497  0.9603 -0.1068
## scaleIPIP        0.0811  0.0434  1.8676  0.0618 -0.0040
## scaleMIDI       -0.0314  0.0432 -0.7264  0.4676 -0.1160
## scaleNEO-FFI     -0.0538  0.0419 -1.2826  0.1996 -0.1359
## scaleNEO-PI-R      0.1816  0.0528  3.4401  0.0006   0.0782

```

```

## ci.ub
## intrcpt 0.7592 ***
## scaleBFI-S 0.0394
## scaleEPQ (NE) and NEO-PI (O) 0.1015
## scaleIPIP 0.1663 .
## scaleMIDI 0.0533
## scaleNEO-FFI 0.0284
## scaleNEO-PI-R 0.2851 ***
##
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

##
## Mixed-Effects Model (k = 13; tau^2 estimator: REML)
##
## logLik deviance AIC BIC AICc
## 12.7761 -25.5521 -19.5521 -18.3584 -16.1235
##
## tau^2 (estimated amount of residual heterogeneity): 0.0057 (SE = 0.0025)
## tau (square root of estimated tau^2 value): 0.0753
## I^2 (residual heterogeneity / unaccounted variability): 99.55%
## H^2 (unaccounted variability / sampling variability): 219.92
## R^2 (amount of heterogeneity accounted for): 4.58%
##
## Test for Residual Heterogeneity:
## QE(df = 11) = 4663.7643, p-val < .0001
##
## Test of Moderators (coefficient 2):
## QM(df = 1) = 1.5892, p-val = 0.2074
##
## Model Results:
##
## estimate se zval pval ci.lb ci.ub
## intrcpt 0.6661 0.0363 18.3582 <.0001 0.5950 0.7372 ***
## mo 0.0078 0.0062 1.2606 0.2074 -0.0043 0.0198
##
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

##
## Mixed-Effects Model (k = 13; tau^2 estimator: REML)
##
## logLik deviance AIC BIC AICc
## 13.0875 -26.1750 -20.1750 -18.9813 -16.7465
##
## tau^2 (estimated amount of residual heterogeneity): 0.0053 (SE = 0.0023)
## tau (square root of estimated tau^2 value): 0.0729
## I^2 (residual heterogeneity / unaccounted variability): 99.46%
## H^2 (unaccounted variability / sampling variability): 186.66
## R^2 (amount of heterogeneity accounted for): 10.55%
##
## Test for Residual Heterogeneity:
## QE(df = 11) = 4178.4420, p-val < .0001
##
## Test of Moderators (coefficient 2):

```

```

## QM(df = 1) = 2.3395, p-val = 0.1261
##
## Model Results:
##
##           estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt      0.7498  0.0367  20.4529 <.0001   0.6779   0.8216 *** 
## interval     -0.0102  0.0067  -1.5295  0.1261  -0.0232   0.0029
## 
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Mixed-Effects Model (k = 13; tau^2 estimator: REML)
##
## logLik  deviance      AIC      BIC      AICc
## 5.3806  -10.7612    7.2388   3.7237  187.2388
##
## tau^2 (estimated amount of residual heterogeneity):      0.0067 (SE = 0.0044)
## tau (square root of estimated tau^2 value):             0.0820
## I^2 (residual heterogeneity / unaccounted variability): 99.38%
## H^2 (unaccounted variability / sampling variability):  160.80
## R^2 (amount of heterogeneity accounted for):          0.00%
##
## Test for Residual Heterogeneity:
## QE(df = 5) = 1000.2085, p-val < .0001
##
## Test of Moderators (coefficients 2:8):
## QM(df = 7) = 5.5620, p-val = 0.5917
##
## Model Results:
##
##           estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt      0.6630  0.0420  15.7727 <.0001   0.5807   0.7454 *** 
## followup13    -0.0081  0.0952  -0.0847  0.9325  -0.1946   0.1785
## followup19     0.0363  0.0717   0.5063  0.6127  -0.1042   0.1768
## followup20     0.0054  0.0923   0.0589  0.9530  -0.1754   0.1863
## followup22     0.1283  0.0927   1.3846  0.1662  -0.0533   0.3099
## followup27     0.0337  0.0924   0.3645  0.7155  -0.1474   0.2148
## followup5      0.1377  0.0718   1.9190  0.0550  -0.0029   0.2784
## followup8      0.0045  0.0922   0.0487  0.9612  -0.1763   0.1852
## 
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

```

Linear Growth, Fixed Effects Only, Openness

Table S35: Linear Trajectories of Openness, fixed effects only

coef	BASE	BASEII	EAS	HRS	ILSE	ILSE.Y	LBC1936	MIDUS	SATSA	SLS	SOEP	WLSG	WLSS
Fixed Effects													
Intercept	7.47	6.59	6.95	6.56	5.42	5.69	5.95	6.54	4.92	6.09	5.79	5.36	5.30
	0.11	0.05	0.1	0.01	0.05	0.06	0.05	0.01	0.02	0.02	0.01	0.01	0.01
	p < .001	p < .001	p < .001	p < .001	p < .001	p < .001	p < .001	p < .001	p < .001	p < .001	p < .001	p < .001	p < .001
Age	-0.27	0.08	-0.11	-0.17	-0.06	0.01	-0.01	-0.11	-0.07	-0.16	-0.04	-0.13	-0.11
	0.04	0.04	0.05	0.01	0.04	0.04	0.03	0.01	0.01	0.01	0	0.01	0.01
	p < .001	p = 0.023	p = 0.009	p < .001	p = 0.078	p = 0.439	p = 0.403	p < .001					
Random Effects													
τ_{00}	0.63	0.70	0.77	0.70	0.59	0.73	0.80	0.71	0.78	0.79	0.58	0.68	0.66
σ^2	0.31	0.27	0.20	0.34	0.38	0.34	0.24	0.33	0.35	0.11	0.40	0.27	0.27
	516	1,276	713	16,030	488	500	1,031	6,404	1,950	1,541	33,601	7,817	4,674
N_{people}													
N_{obs}	983	3,818	1,667	34,962	1,223	1,266	3,005	12,950	7,488	4,023	74,004	17,965	9,660
LL	-1196	-4254	-1796	-44022	-1522	-1564	-3300	-16347	-8734	-3508	-94173	-20912	-11445

^a LL = Log Likelihood; ICC = Intra-Class Correlation; Age = age (centered at 60).

Linear Growth, Fixed and Random Effects, Openness

Table S36: Linear Trajectories of Openness

coef	BASE	BASEII	EAS	HRS	ILSE	ILSE.Y	LBC1936	MIDUS	SATSA	SLS	SOEP	WLSG	WLSS
Fixed Effects													
Intercept	7.48	6.60	6.93	6.56	5.42	5.68	5.96	6.54	4.94	6.09	5.79	5.36	5.30
	0.11	0.05	0.11	0.01	0.05	0.07	0.05	0.01	0.02	0.03	0.01	0.01	0.01
	p < .001	p < .001	p < .001	p < .001	p < .001	p < .001	p < .001	p < .001	p < .001	p < .001	p < .001	p < .001	p < .001
Age	-0.28	0.08	-0.10	-0.17	-0.06	0.00	-0.01	-0.11	-0.08	-0.16	-0.04	-0.12	-0.11
	0.04	0.04	0.05	0.01	0.04	0.04	0.03	0.01	0.01	0.01	0	0.01	0.01
	p < .001	p = 0.032	p = 0.016	p < .001	p = 0.079	p = 0.491	p < 0.353	p < .001					
Random Effects													
τ_{00}	0.49	0.88	1.33	0.65	0.59	1.12	0.85	0.73	0.74	0.81	0.60	0.70	0.66
τ_{01}	-0.04	-0.19	-0.24	0.01	-0.01	0.28	-0.07	0.01	0.00	-0.02	0.03	-0.04	-0.02
τ_{11}	0.05	0.18	0.10	0.02	0.01	0.21	0.08	0.00	0.04	0.01	0.01	0.05	0.04
σ^2	0.30	0.26	0.20	0.34	0.37	0.26	0.23	0.33	0.32	0.11	0.40	0.23	0.24
N_{people}	516	1,276	713	16,030	488	500	1,031	6,404	1,950	1,541	33,601	7,817	4,674
N_{obs}	983	3,818	1,667	34,962	1,223	1,266	3,005	12,950	7,488	4,023	74,004	17,965	9,660
LL	-1192	-4252	-1795	-44005	-1522	-1554	-3295	-16342	-8689	-3505	-94098	-20859	-11428

^a LL = Log Likelihood; Age = age (centered at 60).

Linear Trajectory Plot, Openness (In the main manuscript, this is Figure 3, in greyscale).

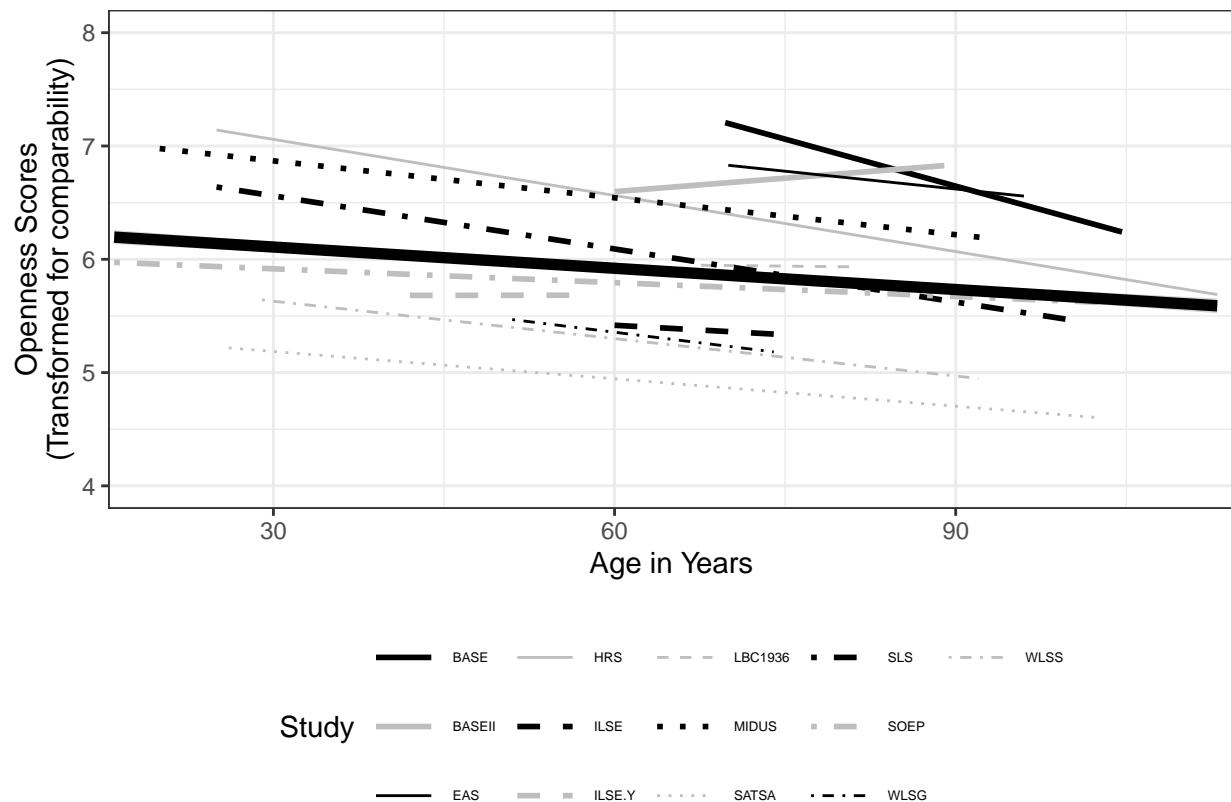


Figure S58: Linear Trajectory Plot, Openness . Linear Trajectories of Openness. Black line indicates average trajectory weighted by N. At the individual study level, most showed evidence of decline, although the meta-analytic average was significant ($p = .001$).

Linear Trajectory Plot, unweighted, Openness

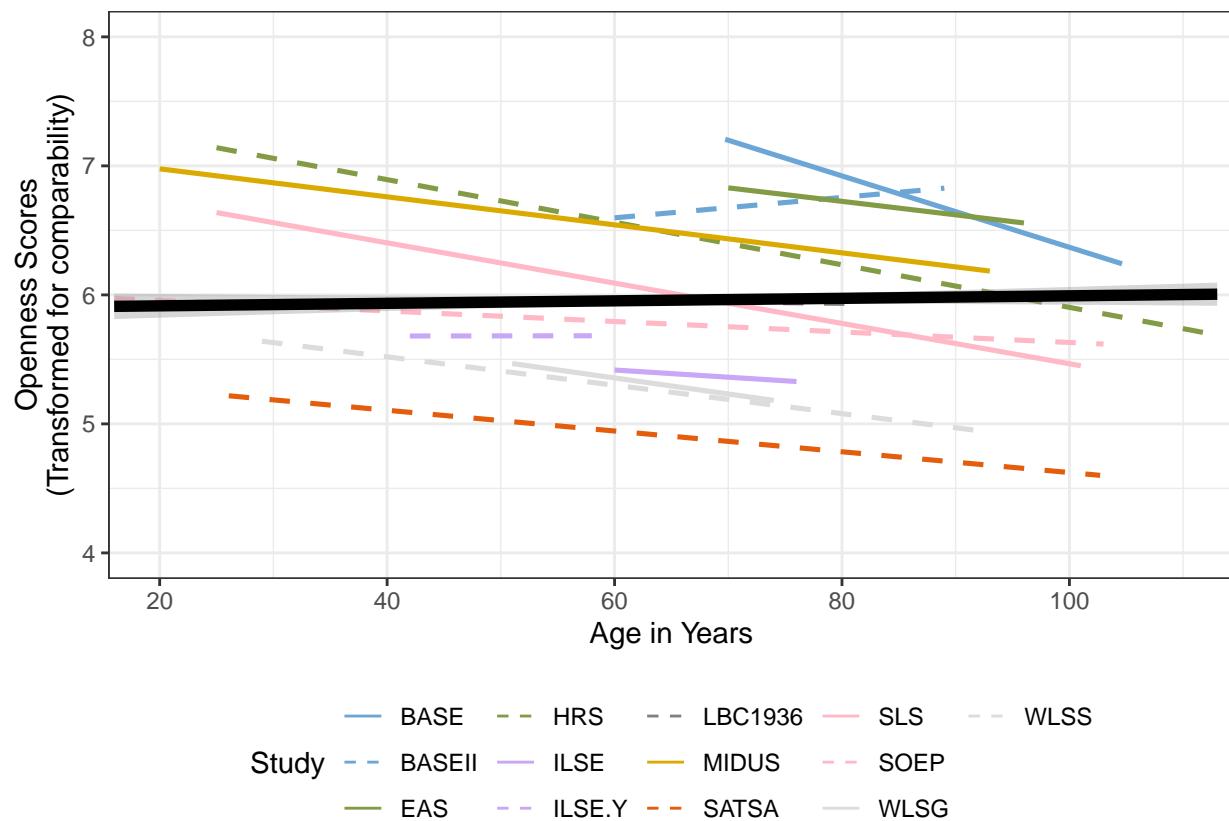


Figure S59: Linear Trajectory Plot, unweighted, Openness

Linear Meta Analysis, Openness

```
##  
## Random-Effects Model (k = 13; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##  12.5902  -25.1804  -21.1804  -20.2105  -19.8470  
##  
## tau^2 (estimated amount of total heterogeneity): 0.0058 (SE = 0.0026)  
## tau (square root of estimated tau^2 value):       0.0763  
## I^2 (total heterogeneity / total variability):   98.84%  
## H^2 (total variability / sampling variability):  86.21  
##  
## Test for Heterogeneity:  
## Q(df = 12) = 607.9877, p-val < .0001  
##  
## Model Results:  
##  
## estimate      se     zval    pval    ci.lb    ci.ub  
## -0.0910  0.0224  -4.0680  <.0001  -0.1348  -0.0471  ***  
##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 13; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##  11.9642  -23.9285  -17.9285  -16.7348  -14.4999  
##  
## tau^2 (estimated amount of residual heterogeneity):      0.0054 (SE = 0.0026)  
## tau (square root of estimated tau^2 value):            0.0733  
## I^2 (residual heterogeneity / unaccounted variability): 98.47%  
## H^2 (unaccounted variability / sampling variability):  65.40  
## R^2 (amount of heterogeneity accounted for):           7.49%  
##  
## Test for Residual Heterogeneity:  
## QE(df = 11) = 260.8952, p-val < .0001  
##  
## Test of Moderators (coefficient 2):  
## QM(df = 1) = 1.9715, p-val = 0.1603  
##  
## Model Results:  
##  
##          estimate      se     zval    pval    ci.lb    ci.ub  
## intrcpt    0.0692  0.1162  0.5953  0.5516  -0.1586  0.2970  
## age        -0.0026  0.0019 -1.4041  0.1603  -0.0063  0.0010  
##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 13; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc
```

```

##    5.6815 -11.3630    4.6370    2.9711   148.6370
##
## tau^2 (estimated amount of residual heterogeneity):      0.0073 (SE = 0.0047)
## tau (square root of estimated tau^2 value):             0.0853
## I^2 (residual heterogeneity / unaccounted variability): 98.34%
## H^2 (unaccounted variability / sampling variability):   60.13
## R^2 (amount of heterogeneity accounted for):            0.00%
##
## Test for Residual Heterogeneity:
## QE(df = 6) = 80.6195, p-val < .0001
##
## Test of Moderators (coefficients 2:7):
## QM(df = 6) = 4.4398, p-val = 0.6174
##
## Model Results:
##
##                                estimate     se     zval    pval    ci.lb    ci.ub
## intrcpt                  -0.1172  0.0605  -1.9350  0.0530  -0.2358
## scaleBFI-S                 0.1298  0.0878   1.4777  0.1395  -0.0424
## scaleEPQ (NE) and NEO-PI (O)  0.0367  0.1051   0.3489  0.7272  -0.1693
## scaleIPIP                  0.0636  0.0899   0.7078  0.4791  -0.1125
## scaleMIDI                  -0.0196  0.0856  -0.2294  0.8185  -0.1874
## scaleNEO-FFI                 0.0073  0.0814   0.0895  0.9286  -0.1523
## scaleNEO-PI-R                -0.0391  0.1052  -0.3712  0.7105  -0.2453
##
##                                ci.lb    ci.ub
## intrcpt                  0.0015  .
## scaleBFI-S                 0.3019
## scaleEPQ (NE) and NEO-PI (O) 0.2427
## scaleIPIP                  0.2397
## scaleMIDI                  0.1481
## scaleNEO-FFI                 0.1669
## scaleNEO-PI-R                0.1672
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Mixed-Effects Model (k = 13; tau^2 estimator: REML)
##
## logLik  deviance      AIC      BIC      AICc
## 7.7873 -15.5745  -3.5745  -3.0979  80.4255
##
## tau^2 (estimated amount of residual heterogeneity):      0.0066 (SE = 0.0037)
## tau (square root of estimated tau^2 value):             0.0814
## I^2 (residual heterogeneity / unaccounted variability): 98.08%
## H^2 (unaccounted variability / sampling variability):   51.97
## R^2 (amount of heterogeneity accounted for):            0.00%
##
## Test for Residual Heterogeneity:
## QE(df = 8) = 89.3770, p-val < .0001
##
## Test of Moderators (coefficients 2:5):
## QM(df = 4) = 2.8890, p-val = 0.5766
##

```

```

## Model Results:
##
##          estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt   -0.1172  0.0578  -2.0287  0.0425  -0.2303  -0.0040 *
## countryGermany  0.0592  0.0701   0.8440  0.3986  -0.0782  0.1966
## countrySweden   0.0367  0.1003   0.3658  0.7145  -0.1598  0.2332
## countryU.S.    -0.0184  0.0716  -0.2573  0.7970  -0.1587  0.1219
## countryUK       0.1064  0.1038   1.0250  0.3054  -0.0970  0.3098
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Mixed-Effects Model (k = 13; tau^2 estimator: REML)
##
##    logLik  deviance      AIC      BIC      AICc
##  11.1271  -22.2542  -16.2542  -15.0606  -12.8257
##
## tau^2 (estimated amount of residual heterogeneity):      0.0064 (SE = 0.0030)
## tau (square root of estimated tau^2 value):                 0.0800
## I^2 (residual heterogeneity / unaccounted variability): 98.94%
## H^2 (unaccounted variability / sampling variability):   93.96
## R^2 (amount of heterogeneity accounted for):            0.00%
##
## Test for Residual Heterogeneity:
## QE(df = 11) = 519.4139, p-val < .0001
##
## Test of Moderators (coefficient 2):
## QM(df = 1) = 0.0513, p-val = 0.8207
##
## Model Results:
##
##          estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt   -0.0831  0.0413  -2.0103  0.0444  -0.1641  -0.0021 *
## mo        -0.0017  0.0074  -0.2266  0.8207  -0.0162   0.0129
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

```

Quadratic Table, Openness. Quadratic Trajectories of Openness.

Black line indicates average trajectory weighted by N. At the individual study level, some showed evidence of an inverse-u, although the meta-analytic average was not significant ($p = .03$).

Table S37: Quadratic Trajectories of Openness

coef	BASE	BASEII	EAS	LBC1936	SATSA	SLS	SOEP
Fixed Effects							
Intercept	7.72	6.52	6.92	5.97	4.99	6.12	5.81
	0.26	0.07	0.29	0.16	0.02	0.03	0.01
	p < .001	p < .001	p < .001	p < .001	p < .001	p < .001	p < .001
Age	-0.50	0.26	-0.09	-0.03	-0.06	-0.14	-0.05
	0.21	0.13	0.27	0.23	0.01	0.01	0
	p = 0.01	p = 0.024	p = 0.364	p = 0.443	p < .001	p < .001	p < .001
Age ²	0.05	-0.09	0.00	0.01	-0.03	-0.02	-0.01
	0.04	0.06	0.06	0.08	0	0.01	0
	p = 0.142	p = 0.073	p = 0.484	p = 0.461	p < .001	p < .001	p < .001
Random Effects							
τ_{00}	0.48	0.88	1.33	0.85	0.74	0.80	0.60
τ_{01}	-0.03	-0.19	-0.24	-0.07	0.00	-0.02	0.02
τ_{11}	0.04	0.17	0.10	0.08	0.04	0.01	0.01
σ^2	0.30	0.26	0.20	0.23	0.31	0.11	0.40
N_{people}	516	1,276	713	1,031	1,950	1,541	33,601
N_{obs}	983	3,818	1,667	3,005	7,488	4,023	74,004
LL	-1192	-4251	-1795	-3295	-8662	-3501	-94084

^a LL = Log Likelihood; Age = age (centered at 60); Age2 = age (centered at 60) squared.

Quadratic Plot, Openness

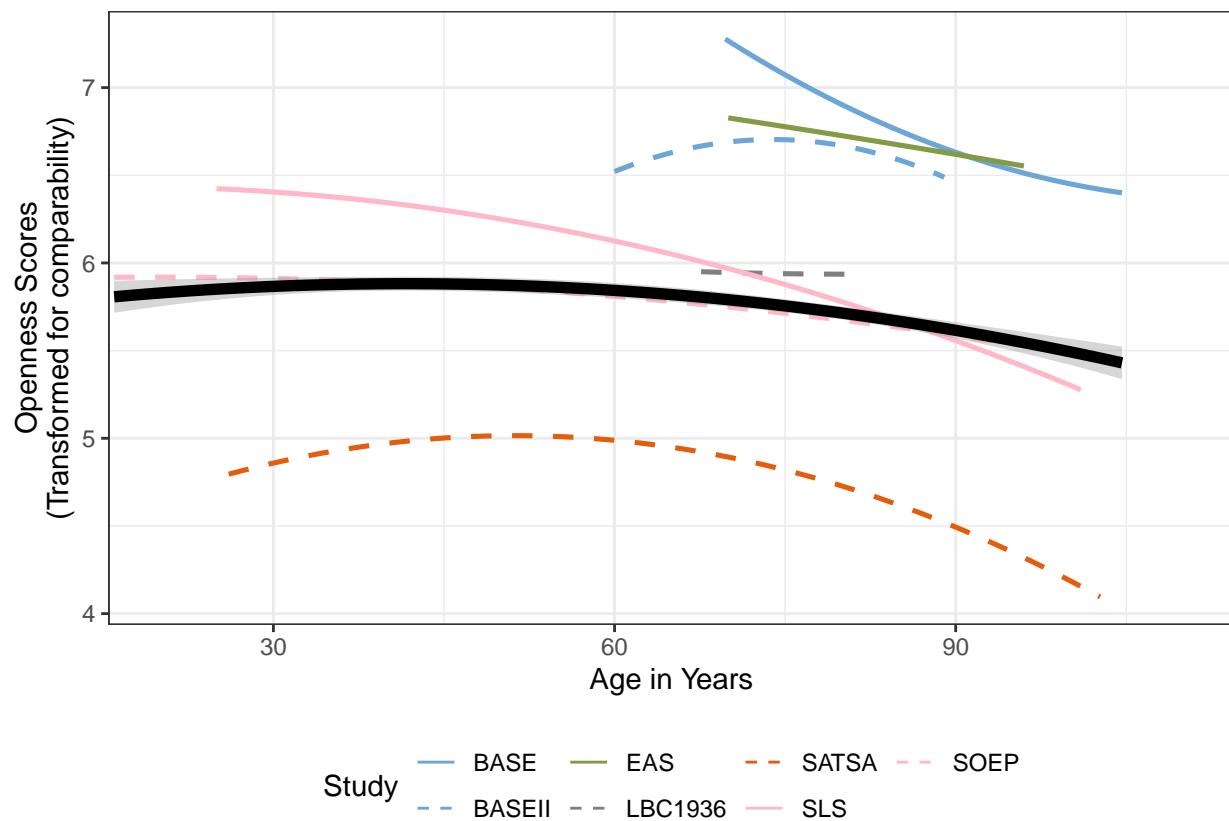


Figure S60: Quadratic Plot, Openness

Quadratic Plot, unweighted, Openness

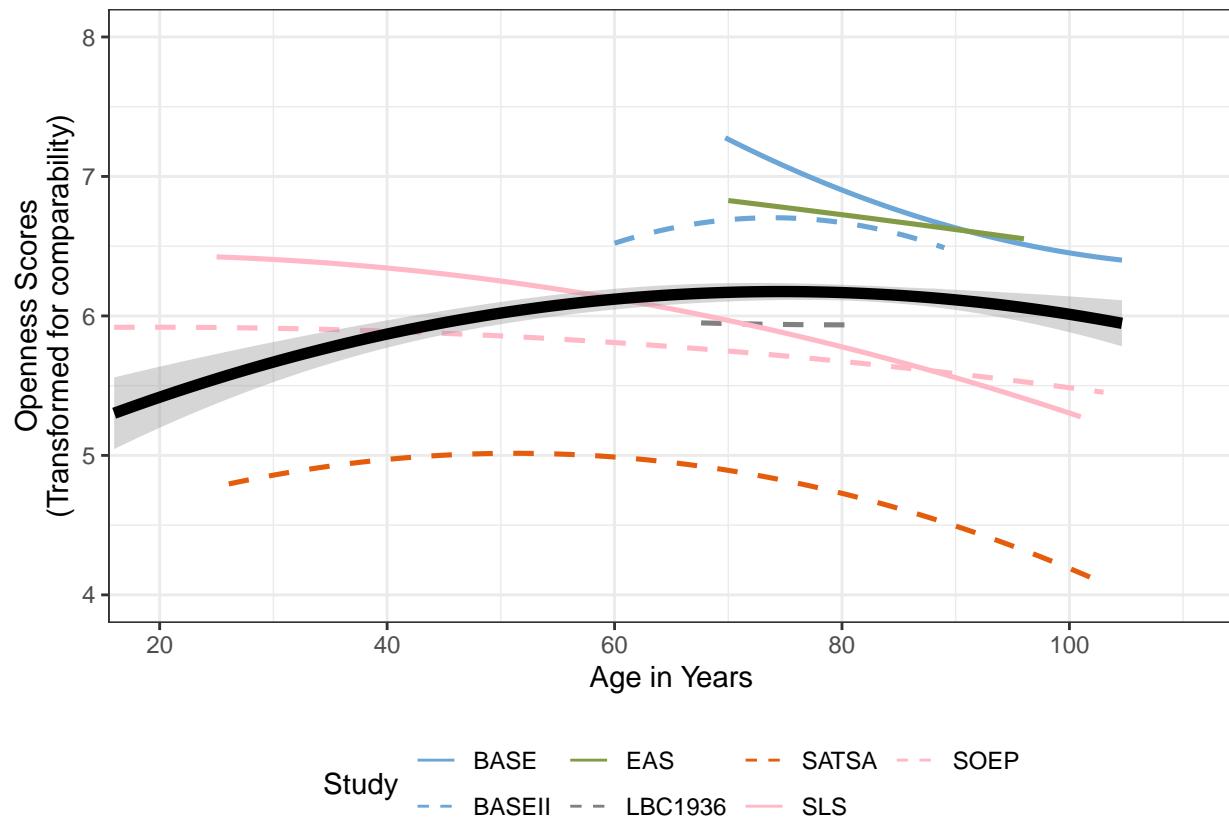


Figure S61: Quadratic Plot, unweighted, Openness

Quadratic Meta, Openness

```
##  
## Random-Effects Model (k = 7; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##    1.3933   -2.7865   1.2135   0.7970   5.2135  
##  
## tau^2 (estimated amount of total heterogeneity): 0.0040 (SE = 0.0040)  
## tau (square root of estimated tau^2 value):       0.0634  
## I^2 (total heterogeneity / total variability): 95.05%  
## H^2 (total variability / sampling variability): 20.21  
##  
## Test for Heterogeneity:  
## Q(df = 6) = 57.8540, p-val < .0001  
##  
## Model Results:  
##  
## estimate      se     zval     pval    ci.lb    ci.ub  
## -0.0747  0.0348  -2.1505  0.0315  -0.1429  -0.0066  *  
##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 7; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##    0.6882   -1.3765   4.6235   3.4518   28.6235  
##  
## tau^2 (estimated amount of residual heterogeneity): 0.0160 (SE = 0.0162)  
## tau (square root of estimated tau^2 value):       0.1266  
## I^2 (residual heterogeneity / unaccounted variability): 96.61%  
## H^2 (unaccounted variability / sampling variability): 29.52  
## R^2 (amount of heterogeneity accounted for):      0.00%  
##  
## Test for Residual Heterogeneity:  
## QE(df = 5) = 30.2288, p-val < .0001  
##  
## Test of Moderators (coefficient 2):  
## QM(df = 1) = 0.5815, p-val = 0.4457  
##  
## Model Results:  
##  
##          estimate      se     zval     pval    ci.lb    ci.ub  
## intrcpt  0.2190  0.3824  0.5727  0.5669  -0.5306  0.9686  
## age      -0.0047  0.0061 -0.7626  0.4457  -0.0167  0.0074  
##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 7; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc
```

```

## -0.6624    1.3249   11.3249    6.8179   71.3249
##
## tau^2 (estimated amount of residual heterogeneity):      0.0572 (SE = 0.0654)
## tau (square root of estimated tau^2 value):             0.2392
## I^2 (residual heterogeneity / unaccounted variability): 77.76%
## H^2 (unaccounted variability / sampling variability):   4.50
## R^2 (amount of heterogeneity accounted for):            0.00%
##
## Test for Residual Heterogeneity:
## QE(df = 3) = 10.0503, p-val = 0.0181
##
## Test of Moderators (coefficients 2:4):
## QM(df = 3) = 0.1003, p-val = 0.9918
##
## Model Results:
##
##          estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt     -0.0567  0.1572 -0.3607  0.7183  -0.3647  0.2513
## countrySweden -0.0041  0.2864 -0.0145  0.9885  -0.5655  0.5572
## countryU.S.    -0.0702  0.2541 -0.2762  0.7824  -0.5683  0.4279
## countryUK       0.0234  0.3679  0.0636  0.9493  -0.6977  0.7445
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Mixed-Effects Model (k = 7; tau^2 estimator: REML)
##
##          logLik  deviance      AIC      BIC      AICc
##          0.7956   -1.5913   4.4087   3.2370   28.4087
##
## tau^2 (estimated amount of residual heterogeneity):      0.0105 (SE = 0.0109)
## tau (square root of estimated tau^2 value):             0.1023
## I^2 (residual heterogeneity / unaccounted variability): 96.48%
## H^2 (unaccounted variability / sampling variability):   28.38
## R^2 (amount of heterogeneity accounted for):            0.00%
##
## Test for Residual Heterogeneity:
## QE(df = 5) = 57.8524, p-val < .0001
##
## Test of Moderators (coefficient 2):
## QM(df = 1) = 0.0364, p-val = 0.8487
##
## Model Results:
##
##          estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt     -0.0476  0.1268 -0.3753  0.7074  -0.2961  0.2010
## mo        -0.0042  0.0221 -0.1907  0.8487  -0.0476  0.0392
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

```

Sex, Table, Openness

Table S38: Linear Trajectories of Openness, Moderated by Sex

coef	BASE	BASEII	EAS	HRS	ILSE	ILSE.Y	LBC1936	MIDUS	SATSA	SLS	SOEP	WLSG	WLSS
Fixed Effects													
Intercept	7.50	6.62	6.90	6.58	5.42	5.68	5.94	6.59	4.94	5.98	5.74	5.35	5.30
Age	0.16	0.07	0.17	0.02	0.07	0.09	0.07	0.02	0.03	0.04	0.01	0.02	0.02
Sex	p < .001	p < .001	p < .001	p < .001	p < .001	p < .001	p < .001						
Age x Sex	-0.26	0.00	-0.08	-0.18	-0.05	-0.03	-0.02	-0.14	-0.07	-0.14	-0.02	-0.13	-0.10
	0.06	0.06	0.08	0.01	0.06	0.06	0.04	0.01	0.02	0.02	0	0.01	0.01
	p < .001	p = 0.476	p = 0.142	p < .001	p = 0.175	p = 0.302	p = 0.324	p < .001	p < .001	p < .001	p < .001	p < .001	p < .001
	-0.07	-0.04	0.05	-0.03	0.00	0.01	0.02	-0.09	0.00	0.19	0.09	0.02	0.00
	0.22	0.1	0.22	0.02	0.09	0.13	0.09	0.03	0.04	0.05	0.01	0.02	0.03
	p = 0.382	p = 0.355	p = 0.401	p = 0.051	p = 0.487	p = 0.468	p = 0.406	p < .001	p = 0.465	p < .001	p < .001	p = 0.156	p = 0.476
	-0.03	0.14	-0.04	0.03	-0.01	0.06	0.02	0.05	-0.02	-0.03	-0.03	0.00	-0.02
	0.08	0.09	0.1	0.01	0.08	0.08	0.06	0.01	0.02	0.02	0.01	0.01	0.02
	p = 0.347	p = 0.05	p = 0.352	p = 0.019	p = 0.465	p = 0.221	p = 0.392	p < .001	p = 0.192	p = 0.111	p < .001	p = 0.358	p = 0.094
Random Effects													
τ_{00}	0.50	0.88	1.33	0.65	0.59	1.12	0.85	0.73	0.74	0.80	0.60	0.70	0.66
τ_{01}	-0.05	-0.20	-0.24	0.01	-0.01	0.28	-0.07	0.02	0.00	-0.02	0.03	-0.04	-0.02
τ_{11}	0.05	0.19	0.10	0.02	0.01	0.21	0.08	0.00	0.04	0.01	0.01	0.05	0.04
σ^2	0.30	0.26	0.20	0.34	0.37	0.26	0.23	0.33	0.32	0.11	0.40	0.23	0.24
N_{people}	516	1,276	713	16,030	488	500	1,031	6,386	1,950	1,541	33,600	7,817	4,674
N_{obs}	983	3,818	1,667	34,962	1,223	1,266	3,005	12,922	7,488	4,023	74,003	17,965	9,660
LL	-1190	-4249	-1795	-44003	-1522	-1553	-3295	-16254	-8689	-3498	-93992	-20858	-11427

^a LL = Log Likelihood; Age = age (centered at 60)

Sex, Plot, Openness. Linear Trajectories of Openness, moderated by sex.

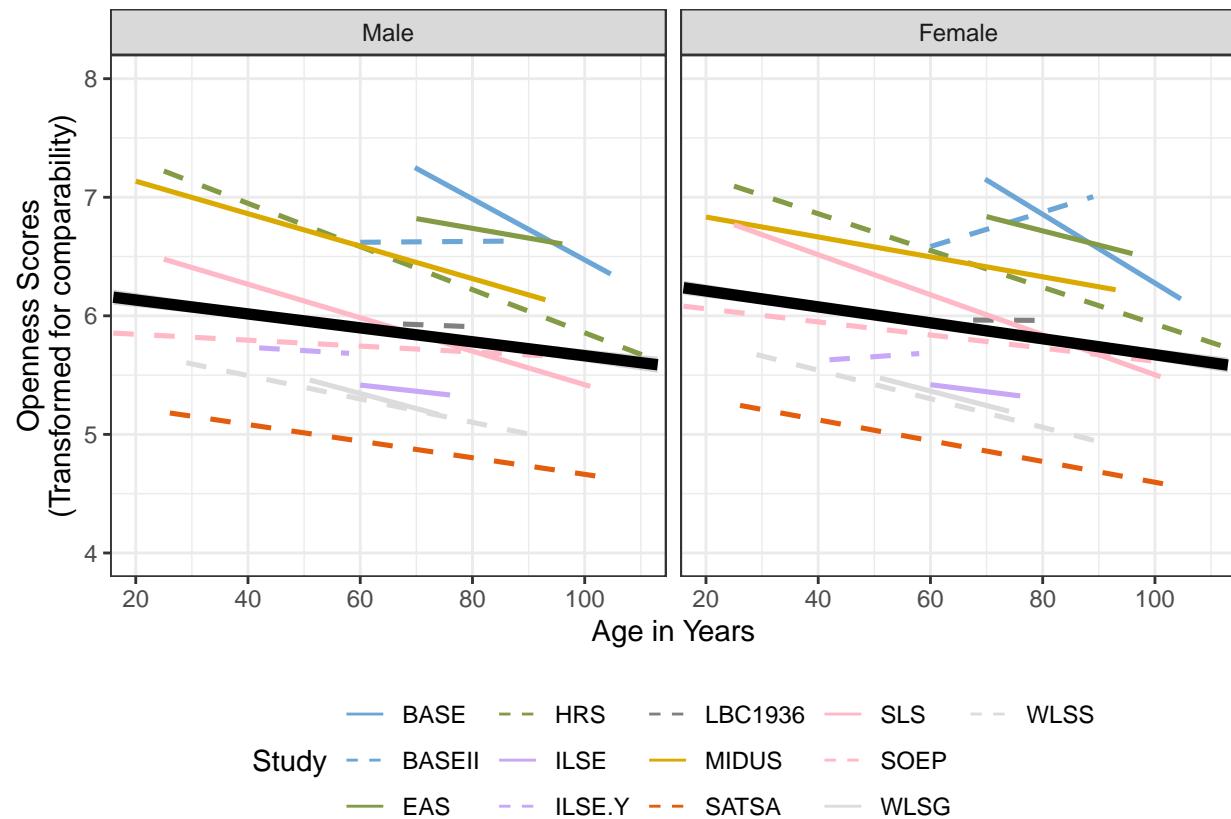


Figure S62: Sex, Plot, Openness. Linear Trajectories of Openness, moderated by sex. Black line indicates average trajectory weighted by N. At the individual study level, few showed evidence that being female was associated with a steeper decline in openness, and the meta-analytic average was not significant ($p = .85$).

Sex, Plot, unweighted, Openness

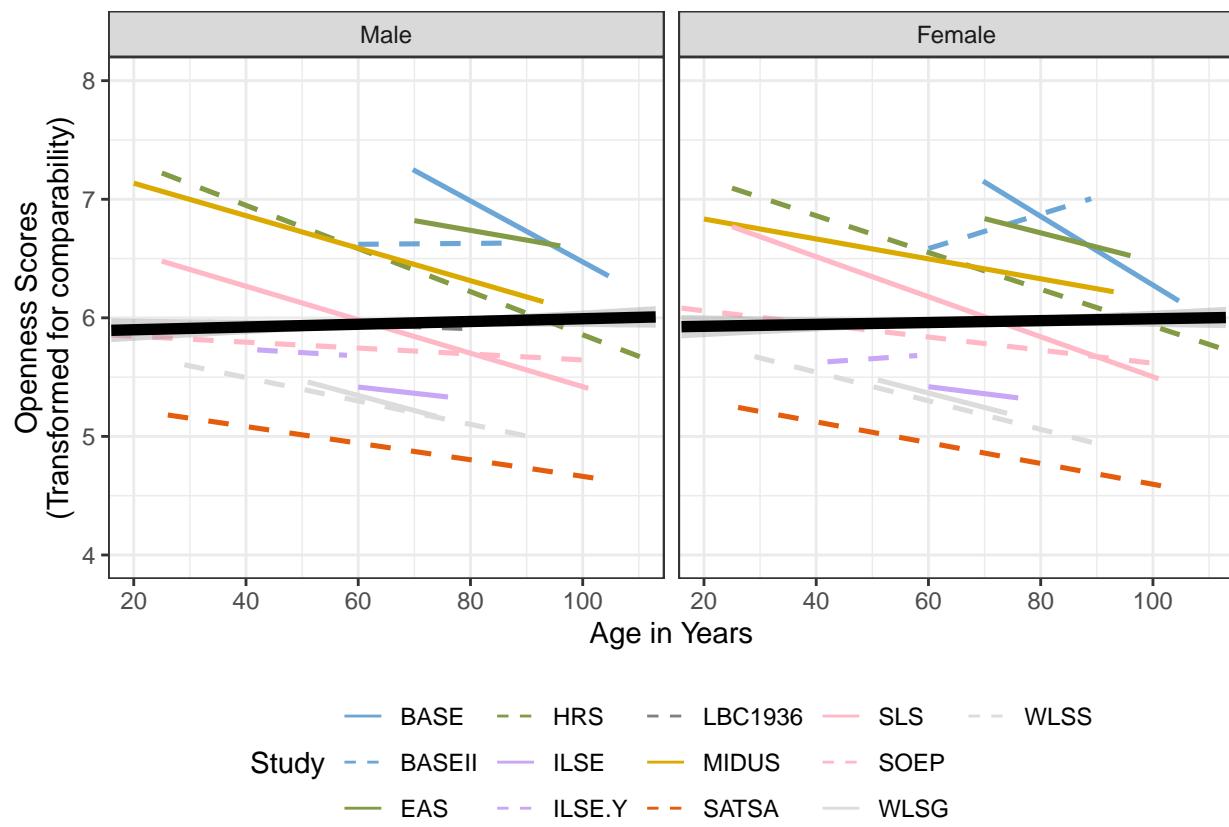


Figure S63: Sex, Plot, unweighted, Openness

Sex, Meta Analysis, Openness

```
##  
## Random-Effects Model (k = 13; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##  19.9546 -39.9093 -35.9093 -34.9395 -34.5759  
##  
## tau^2 (estimated amount of total heterogeneity): 0.0008 (SE = 0.0006)  
## tau (square root of estimated tau^2 value):       0.0281  
## I^2 (total heterogeneity / total variability):   73.99%  
## H^2 (total variability / sampling variability): 3.85  
##  
## Test for Heterogeneity:  
## Q(df = 12) = 58.0141, p-val < .0001  
##  
## Model Results:  
##  
## estimate      se     zval    pval    ci.lb    ci.ub  
##  0.0021  0.0113  0.1881  0.8508 -0.0200  0.0243  
##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 13; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##  17.9633 -35.9267 -29.9267 -28.7330 -26.4981  
##  
## tau^2 (estimated amount of residual heterogeneity):      0.0009 (SE = 0.0007)  
## tau (square root of estimated tau^2 value):            0.0300  
## I^2 (residual heterogeneity / unaccounted variability): 72.71%  
## H^2 (unaccounted variability / sampling variability): 3.66  
## R^2 (amount of heterogeneity accounted for):          0.00%  
##  
## Test for Residual Heterogeneity:  
## QE(df = 11) = 51.4515, p-val < .0001  
##  
## Test of Moderators (coefficient 2):  
## QM(df = 1) = 0.0139, p-val = 0.9060  
##  
## Model Results:  
##  
##           estimate      se     zval    pval    ci.lb    ci.ub  
## intrcpt    0.0109  0.0743  0.1472  0.8830 -0.1348  0.1566  
## age        -0.0002  0.0013 -0.1181  0.9060 -0.0027  0.0024  
##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 13; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc
```

```

##   9.3822 -18.7645 -2.7645 -4.4304 141.2355
##
## tau^2 (estimated amount of residual heterogeneity):      0.0002 (SE = 0.0004)
## tau (square root of estimated tau^2 value):             0.0138
## I^2 (residual heterogeneity / unaccounted variability): 27.50%
## H^2 (unaccounted variability / sampling variability):  1.38
## R^2 (amount of heterogeneity accounted for):          75.84%
##
## Test for Residual Heterogeneity:
## QE(df = 6) = 8.7628, p-val = 0.1874
##
## Test of Moderators (coefficients 2:7):
## QM(df = 6) = 14.2882, p-val = 0.0266
##
## Model Results:
##
##                                estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt                  -0.0065  0.0139  -0.4705  0.6380  -0.0338
## scaleBFI-S                 -0.0190  0.0201  -0.9444  0.3450  -0.0584
## scaleEPQ (NE) and NEO-PI (O) -0.0111  0.0282  -0.3936  0.6939  -0.0665
## scaleIPIP                   0.0086  0.0527   0.1629  0.8706  -0.0947
## scaleMIDI                   0.0468  0.0192   2.4432  0.0146   0.0093
## scaleNEO-FFI                 0.0146  0.0492   0.2969  0.7666  -0.0819
## scaleNEO-PI-R                -0.0211  0.0299  -0.7044  0.4812  -0.0797
##
##                                ci.ub
## intrcpt                     0.0207
## scaleBFI-S                   0.0204
## scaleEPQ (NE) and NEO-PI (O) 0.0442
## scaleIPIP                     0.1118
## scaleMIDI                     0.0844 *
## scaleNEO-FFI                  0.1111
## scaleNEO-PI-R                  0.0375
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Mixed-Effects Model (k = 13; tau^2 estimator: REML)
##
## logLik  deviance      AIC      BIC      AICc
## 11.9095 -23.8190 -11.8190 -11.3423  72.1810
##
## tau^2 (estimated amount of residual heterogeneity):      0.0009 (SE = 0.0009)
## tau (square root of estimated tau^2 value):             0.0295
## I^2 (residual heterogeneity / unaccounted variability): 62.16%
## H^2 (unaccounted variability / sampling variability):  2.64
## R^2 (amount of heterogeneity accounted for):          0.00%
##
## Test for Residual Heterogeneity:
## QE(df = 8) = 17.6329, p-val = 0.0242
##
## Test of Moderators (coefficients 2:5):
## QM(df = 4) = 1.5618, p-val = 0.8156
##

```

```

## Model Results:
##
##          estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt   -0.0079  0.0232  -0.3425  0.7319  -0.0534  0.0375
## countryGermany -0.0002  0.0339  -0.0053  0.9958  -0.0665  0.0662
## countrySweden   -0.0097  0.0427  -0.2277  0.8199  -0.0934  0.0740
## countryU.S.      0.0276  0.0300   0.9210  0.3570  -0.0312  0.0864
## countryUK        0.0237  0.0684   0.3456  0.7296  -0.1105  0.1578
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Mixed-Effects Model (k = 13; tau^2 estimator: REML)
##
##    logLik  deviance      AIC      BIC      AICc
##  18.8666 -37.7332 -31.7332 -30.5395 -28.3046
##
## tau^2 (estimated amount of residual heterogeneity): 0.0007 (SE = 0.0005)
## tau (square root of estimated tau^2 value): 0.0267
## I^2 (residual heterogeneity / unaccounted variability): 71.83%
## H^2 (unaccounted variability / sampling variability): 3.55
## R^2 (amount of heterogeneity accounted for): 9.48%
##
## Test for Residual Heterogeneity:
## QE(df = 11) = 45.7443, p-val < .0001
##
## Test of Moderators (coefficient 2):
## QM(df = 1) = 1.1624, p-val = 0.2810
##
## Model Results:
##
##          estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt   0.0279  0.0264   1.0585  0.2898  -0.0238  0.0797
## mo       -0.0066  0.0062  -1.0782  0.2810  -0.0187  0.0054
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

```

Retirement Status, Table, Openness

Table S39: Linear Trajectories of Openness, Moderated by Retirement

coef	BASEII	HRS	ILSE	ILSE.Y	MIDUS	SATSA	SLS	SOEP	WLSG	WLSS
Fixed Effects										
Intercept	6.68	6.57	5.42	5.68	6.54	5.07	6.16	5.83	5.38	5.31
Age	0.12 p < .001	0.01 p < .001	0.13 p < .001	0.07 p < .001	0.02 p < .001	0.03 p < .001	0.03 p < .001	0.01 p < .001	0.01 p < .001	0.02 p < .001
retired	0.24 p = 0.105	-0.16 p < .001	0.01 p = 0.475	-0.03 p = 0.26	-0.11 p < .001	-0.02 p = 0.089	-0.13 p < .001	-0.01 p = 0.009	-0.13 p < .001	-0.10 p < .001
Age x retired	0.19 p = 0.17	0.01 p < .001	0.11 p = 0.486	0.04 p = 0.403	0.01 p < .001	0.01 p = 0.033	0.01 p = 0.002	0.01 p = 0.002	0.01 p < .001	0.01 p = 0.28
retired	-0.12 0.13	0.14 0.03	0.00 0.14	0.04 0.18	0.18 0.04	-0.09 0.05	-0.19 0.07	-0.06 0.02	-0.10 0.03	-0.02 0.03
Age x retired	-0.14 0.2	0.00 0.02	-0.07 0.11	0.16 0.11	-0.11 0.02	-0.17 0.02	-0.02 0.03	-0.08 0.01	0.02 0.02	-0.05 0.02
Random Effects										
τ_{00}	0.87	0.64	0.59	1.12	0.73	0.70	0.80	0.58	0.70	0.65
τ_{01}	-0.18	0.01	0.00	0.28	0.02	0.00	-0.02	0.02	-0.03	-0.02
τ_{11}	0.18	0.01	0.01	0.21	0.00	0.03	0.01	0.01	0.04	0.04
σ^2	0.26	0.33	0.37	0.26	0.33	0.31	0.11	0.41	0.23	0.24
N_{people}	1,276	13,474	488	499	6,363	1,756	1,513	20,773	7,238	3,920
N_{obs}	3,818	30,416	1,223	1,265	12,876	7,126	3,967	56,473	16,894	8,412
LL	-4249	-37604	-1521	-1550	-16227	-8106	-3444	-70351	-19537	-9876

^a LL = Log Likelihood; Age = age (centered at 60)

Retirement Status, Plot, Openness. Linear Trajectories of Openness, moderated by retirement status

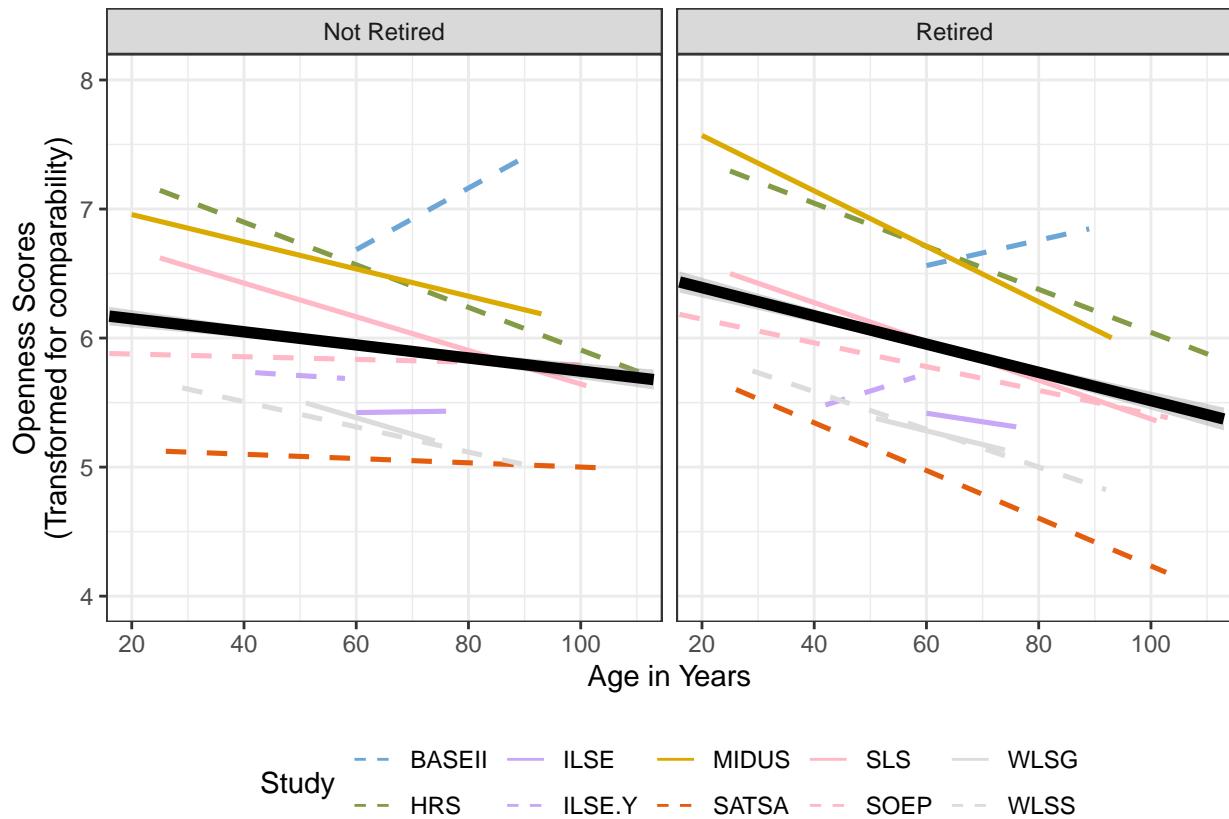


Figure S64: Retirement Status, Plot, Openness. Linear Trajectories of Openness, moderated by retirement status Black line indicates average trajectory weighted by N. At the individual study level, some showed evidence that being retired was associated with a steeper decline in openness, and the meta-analytic average was not significant ($p = .034$).

Retirement Status, Plot, unweighted, Openness

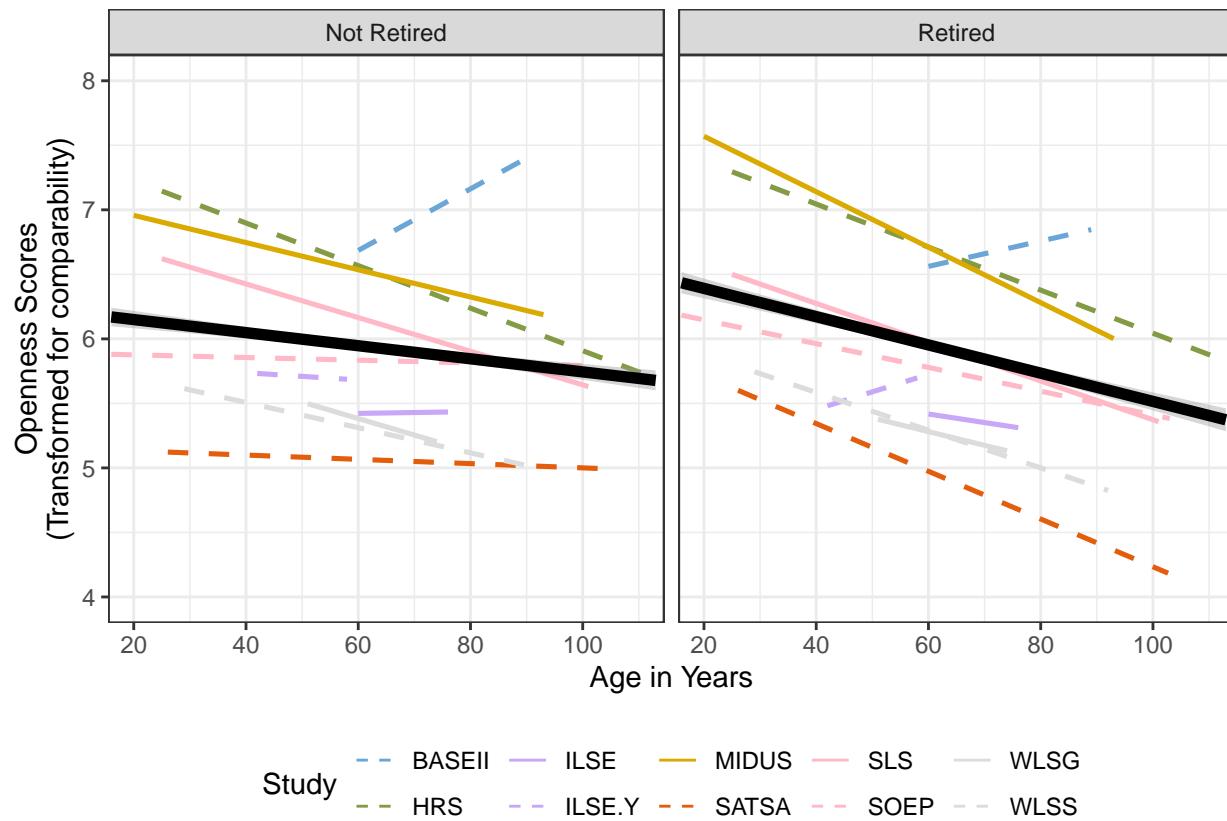


Figure S65: Retirement Status, Plot, unweighted, Openness

Retirement Status, Meta Analysis, Openness

```
##  
## Random-Effects Model (k = 10; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##    9.2280 -18.4560 -14.4560 -14.0615 -12.4560  
##  
## tau^2 (estimated amount of total heterogeneity): 0.0041 (SE = 0.0026)  
## tau (square root of estimated tau^2 value):       0.0637  
## I^2 (total heterogeneity / total variability):   87.89%  
## H^2 (total variability / sampling variability):  8.26  
##  
## Test for Heterogeneity:  
## Q(df = 9) = 62.6261, p-val < .0001  
##  
## Model Results:  
##  
## estimate      se     zval    pval    ci.lb    ci.ub  
## -0.0515  0.0243 -2.1231  0.0337 -0.0991 -0.0040  *##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 10; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##    7.7003 -15.4006 -9.4006 -9.1623 -3.4006  
##  
## tau^2 (estimated amount of residual heterogeneity):      0.0049 (SE = 0.0033)  
## tau (square root of estimated tau^2 value):            0.0698  
## I^2 (residual heterogeneity / unaccounted variability): 88.60%  
## H^2 (unaccounted variability / sampling variability):  8.77  
## R^2 (amount of heterogeneity accounted for):          0.00%  
##  
## Test for Residual Heterogeneity:  
## QE(df = 8) = 56.7947, p-val < .0001  
##  
## Test of Moderators (coefficient 2):  
## QM(df = 1) = 0.0005, p-val = 0.9825  
##  
## Model Results:  
##  
##           estimate      se     zval    pval    ci.lb    ci.ub  
## intrcpt  -0.0467  0.1888 -0.2475  0.8045 -0.4168  0.3233  
## age       -0.0001  0.0034 -0.0219  0.9825 -0.0066  0.0065  
##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 10; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc
```

```

##    3.8668   -7.7337    6.2663    1.9704   118.2663
##
## tau^2 (estimated amount of residual heterogeneity):      0.0037 (SE = 0.0040)
## tau (square root of estimated tau^2 value):             0.0608
## I^2 (residual heterogeneity / unaccounted variability): 81.68%
## H^2 (unaccounted variability / sampling variability):   5.46
## R^2 (amount of heterogeneity accounted for):           8.85%
##
## Test for Residual Heterogeneity:
## QE(df = 4) = 20.6823, p-val = 0.0004
##
## Test of Moderators (coefficients 2:6):
## QM(df = 5) = 5.8343, p-val = 0.3227
##
## Model Results:
##
##                               estimate     se     zval    pval    ci.lb    ci.ub
## intrcpt                  -0.0132  0.0451  -0.2922  0.7701  -0.1016
## scaleBFI-S                -0.0734  0.0744  -0.9857  0.3243  -0.2193
## scaleEPQ (NE) and NEO-PI (O) -0.1552  0.0793  -1.9573  0.0503  -0.3106
## scaleMIDI                 -0.0421  0.0643  -0.6558  0.5119  -0.1681
## scaleNEO-FFI               0.0644  0.1001   0.6430  0.5202  -0.1319
## scaleNEO-PI-R              -0.0067  0.0809  -0.0826  0.9342  -0.1652
##                               ci.ub
## intrcpt                   0.0753
## scaleBFI-S                0.0725
## scaleEPQ (NE) and NEO-PI (O) 0.0002 .
## scaleMIDI                  0.0838
## scaleNEO-FFI                0.2606
## scaleNEO-PI-R                0.1519
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Mixed-Effects Model (k = 10; tau^2 estimator: REML)
##
## logLik  deviance      AIC      BIC      AICc
## 6.0794  -12.1588  -2.1588  -3.2000  57.8412
##
## tau^2 (estimated amount of residual heterogeneity):      0.0030 (SE = 0.0027)
## tau (square root of estimated tau^2 value):             0.0545
## I^2 (residual heterogeneity / unaccounted variability): 76.25%
## H^2 (unaccounted variability / sampling variability):   4.21
## R^2 (amount of heterogeneity accounted for):           26.73%
##
## Test for Residual Heterogeneity:
## QE(df = 6) = 24.6425, p-val = 0.0004
##
## Test of Moderators (coefficients 2:4):
## QM(df = 3) = 4.8018, p-val = 0.1869
##
## Model Results:
##

```

```

##          estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt   -0.0131  0.0409  -0.3211  0.7482  -0.0933  0.0671
## countryGermany -0.0350  0.0614  -0.5699  0.5687  -0.1553  0.0853
## countrySweden   -0.1553  0.0721  -2.1529  0.0313  -0.2966  -0.0139 *
## countryU.S.     -0.0310  0.0535  -0.5800  0.5619  -0.1359  0.0738
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Mixed-Effects Model (k = 10; tau^2 estimator: REML)
##
##    logLik  deviance      AIC      BIC      AICc
##  9.7560  -19.5120  -13.5120  -13.2736  -7.5120
##
## tau^2 (estimated amount of residual heterogeneity): 0.0020 (SE = 0.0015)
## tau (square root of estimated tau^2 value):        0.0444
## I^2 (residual heterogeneity / unaccounted variability): 77.60%
## H^2 (unaccounted variability / sampling variability): 4.47
## R^2 (amount of heterogeneity accounted for):       51.49%
##
## Test for Residual Heterogeneity:
## QE(df = 8) = 30.5325, p-val = 0.0002
##
## Test of Moderators (coefficient 2):
## QM(df = 1) = 6.5076, p-val = 0.0107
##
## Model Results:
##
##          estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt   0.0799  0.0554   1.4408  0.1496  -0.0288  0.1885
## mo        -0.0352  0.0138  -2.5510  0.0107  -0.0623  -0.0082 *
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

```

Married, Table, Openness

Table S40: Linear Trajectories of Openness, Moderated by Marriage

coef	BASE	BASEII	EAS	HRS	ILSE	ILSE.Y	LBC1936	MIDUS	SATSA	SLS	SOEP	WLSG	WLSS
Fixed Effects													
Intercept	7.44	6.71	6.97	6.56	5.49	5.80	5.95	6.63	4.95	6.28	5.75	5.54	5.43
Age	0.14 p < .001	0.08 .001	0.14 .001	0.02 .001	0.09 .001	0.13 .001	0.09 .001	0.02 .001	0.05 .001	0.05 .001	0.01 .001	0.03 .001	0.03 .001
Age x married	-0.28 0.05 p < .001 0.04	0.00 0.07 p = .0498 -0.28	-0.11 0.06 p = .038 -0.08	-0.17 0.01 p < .001 0.00	-0.10 0.07 p = .001 -0.11	-0.06 0.08 p = .087 -0.17	0.02 0.05 p = .24 0.01	-0.12 0.01 p < .352 -0.13	-0.16 0.02 p < .001 0.00	-0.20 0.02 p < .001 -0.26	-0.06 0 p < .001 0.03	-0.13 0.01 p < .001 -0.22	-0.14 0.02 p < .001 -0.15
Random Effects													
τ_{00}	0.48	0.85	1.34	0.65	0.59	1.11	0.85	0.73	0.72	0.80	0.58	0.69	0.65
τ_{01}	-0.04	-0.18	-0.25	0.01	-0.01	0.29	-0.07	0.02	0.00	-0.02	0.02	-0.03	-0.02
τ_{11}	0.05	0.17	0.10	0.02	0.02	0.21	0.08	0.00	0.04	0.01	0.01	0.05	0.04
σ^2	0.30	0.26	0.20	0.34	0.37	0.27	0.23	0.33	0.31	0.11	0.41	0.23	0.24
N_{people}	516	1,005	712	15,405	488	499	1,031	6,401	1,803	1,504	20,772	7,632	4,456
N_{obs}	983	3,546	1,664	34,215	1,223	1,265	3,005	12,946	7,200	3,954	56,471	17,690	9,352
LL	-1191	-3860	-1792	-42924	-1521	-1547	-3295	-16317	-8258	-3428	-70373	-20468	-11019

^a LL = Log Likelihood; Age = age (centered at 60)

Married, Plot, Openness. Linear Trajectories of Openness, Moderated by Marriage.

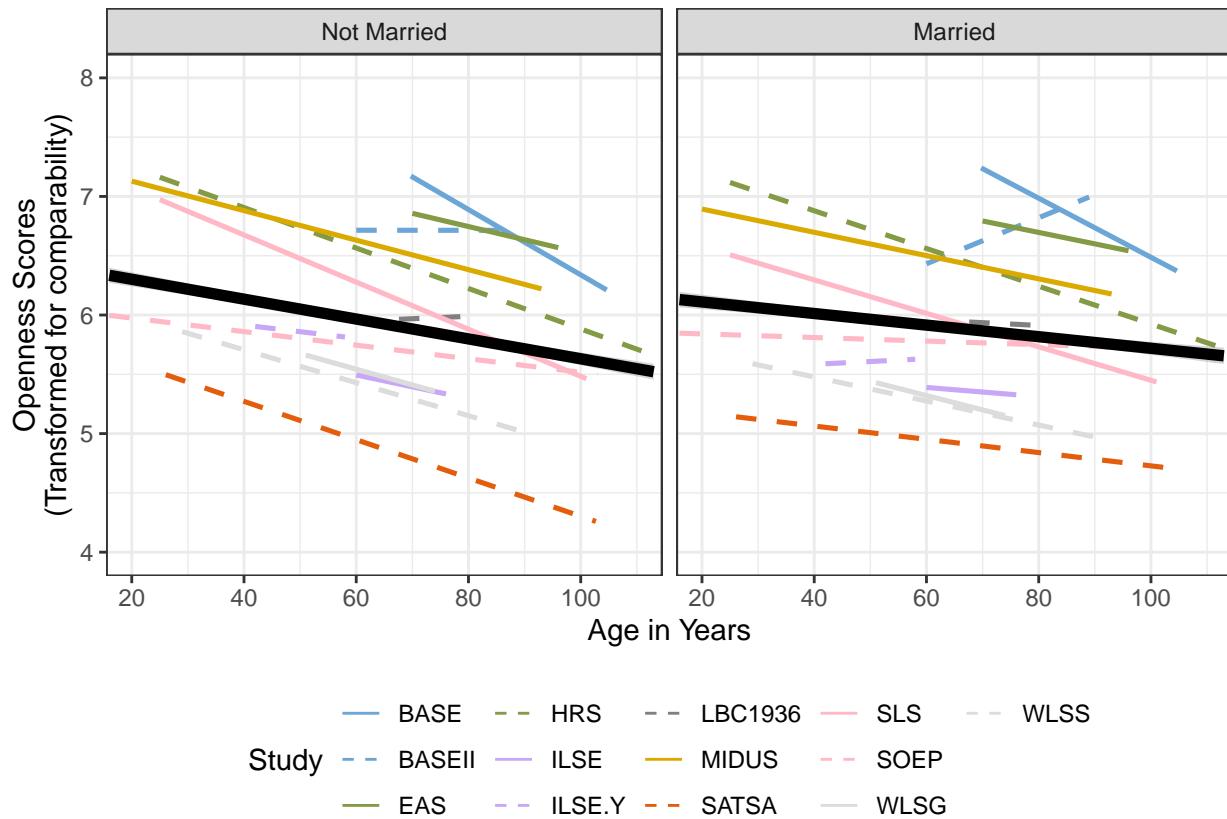


Figure S66: Married, Plot, Openness. Linear Trajectories of Openness, Moderated by Marriage. Black line indicates average trajectory weighted by N. At the individual study level, some showed evidence that being unmarried was associated with a steeper decline in openness, and the meta-analytic average was significant ($p < .001$).

Married, Plot, unweighted, Openness

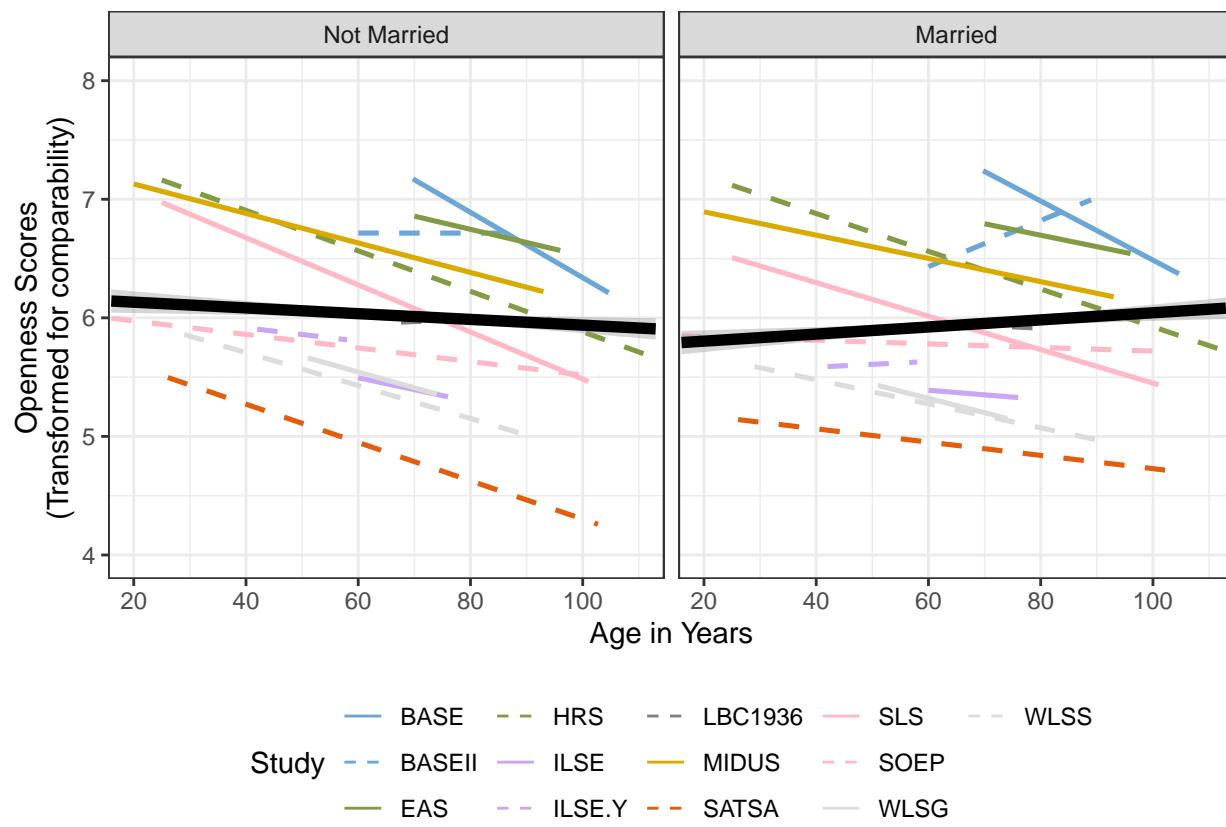


Figure S67: Married, Plot, unweighted, Openness

Married, Meta Analysis, Openness

```
##  
## Random-Effects Model (k = 13; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##  19.4683 -38.9367 -34.9367 -33.9668 -33.6033  
##  
## tau^2 (estimated amount of total heterogeneity): 0.0004 (SE = 0.0004)  
## tau (square root of estimated tau^2 value):       0.0197  
## I^2 (total heterogeneity / total variability):   49.68%  
## H^2 (total variability / sampling variability): 1.99  
##  
## Test for Heterogeneity:  
## Q(df = 12) = 20.6319, p-val = 0.0560  
##  
## Model Results:  
##  
## estimate      se     zval    pval    ci.lb    ci.ub  
##  0.0374  0.0093  3.9981 <.0001  0.0191  0.0557 ***  
##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 13; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##  17.3413 -34.6826 -28.6826 -27.4890 -25.2541  
##  
## tau^2 (estimated amount of residual heterogeneity):      0.0006 (SE = 0.0005)  
## tau (square root of estimated tau^2 value):            0.0235  
## I^2 (residual heterogeneity / unaccounted variability): 53.59%  
## H^2 (unaccounted variability / sampling variability):  2.15  
## R^2 (amount of heterogeneity accounted for):          0.00%  
##  
## Test for Residual Heterogeneity:  
## QE(df = 11) = 19.8389, p-val = 0.0476  
##  
## Test of Moderators (coefficient 2):  
## QM(df = 1) = 0.0071, p-val = 0.9330  
##  
## Model Results:  
##  
##           estimate      se     zval    pval    ci.lb    ci.ub  
## intrcpt    0.0437  0.0661  0.6604  0.5090 -0.0859  0.1733  
## age       -0.0001  0.0012 -0.0841  0.9330 -0.0024  0.0022  
##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 13; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc
```

```

## 10.3960 -20.7920 -4.7920 -6.4579 139.2080
##
## tau^2 (estimated amount of residual heterogeneity): 0 (SE = 0.0002)
## tau (square root of estimated tau^2 value): 0
## I^2 (residual heterogeneity / unaccounted variability): 0.00%
## H^2 (unaccounted variability / sampling variability): 1.00
## R^2 (amount of heterogeneity accounted for): 100.00%
##
## Test for Residual Heterogeneity:
## QE(df = 6) = 4.8341, p-val = 0.5653
##
## Test of Moderators (coefficients 2:7):
## QM(df = 6) = 15.7977, p-val = 0.0149
##
## Model Results:
##
##                                estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt                  0.0212  0.0129  1.6441  0.1001 -0.0041  0.0464
## scaleBFI-S                0.0216  0.0145  1.4967  0.1345 -0.0067  0.0500
## scaleEPQ (NE) and NEO-PI (O) 0.0844  0.0280  3.0177  0.0025  0.0296
## scaleIPIP                 -0.0482  0.0554 -0.8714  0.3835 -0.1568
## scaleMIDI                 -0.0020  0.0160 -0.1283  0.8979 -0.0333
## scaleNEO-FFI               0.0347  0.0535  0.6475  0.5173 -0.0703
## scaleNEO-PI-R              0.0364  0.0272  1.3409  0.1799 -0.0168
##                                ci.lb    ci.ub
## intrcpt                  0.0041  0.0464
## scaleBFI-S                0.0145  0.0500
## scaleEPQ (NE) and NEO-PI (O) 0.1392  **
## scaleIPIP                 0.0554  0.0603
## scaleMIDI                 0.0160  0.0292
## scaleNEO-FFI               0.0535  0.1396
## scaleNEO-PI-R              0.0272  0.0897
##
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Mixed-Effects Model (k = 13; tau^2 estimator: REML)
##
## logLik  deviance      AIC      BIC      AICc
## 14.2036 -28.4071 -16.4071 -15.9305  67.5929
##
## tau^2 (estimated amount of residual heterogeneity): 0.0000 (SE = 0.0002)
## tau (square root of estimated tau^2 value): 0.0013
## I^2 (residual heterogeneity / unaccounted variability): 0.24%
## H^2 (unaccounted variability / sampling variability): 1.00
## R^2 (amount of heterogeneity accounted for): 99.57%
##
## Test for Residual Heterogeneity:
## QE(df = 8) = 6.9083, p-val = 0.5466
##
## Test of Moderators (coefficients 2:5):
## QM(df = 4) = 13.6415, p-val = 0.0085
##

```

```

## Model Results:
##
##          estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt      0.0212  0.0129  1.6410  0.1008 -0.0041  0.0465
## countryGermany  0.0219  0.0145  1.5060  0.1321 -0.0066  0.0503
## countrySweden   0.0844  0.0280  3.0123  0.0026  0.0295  0.1392  **
## countryU.S.      0.0030  0.0156  0.1954  0.8451 -0.0275  0.0336
## countryUK       -0.0648  0.0649 -0.9974  0.3186 -0.1921  0.0625
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Mixed-Effects Model (k = 13; tau^2 estimator: REML)
##
##    logLik  deviance      AIC      BIC      AICc
##  20.3843 -40.7685 -34.7685 -33.5748 -31.3399
##
## tau^2 (estimated amount of residual heterogeneity):      0.0000 (SE = 0.0001)
## tau (square root of estimated tau^2 value):             0.0010
## I^2 (residual heterogeneity / unaccounted variability): 0.26%
## H^2 (unaccounted variability / sampling variability):  1.00
## R^2 (amount of heterogeneity accounted for):           99.74%
##
## Test for Residual Heterogeneity:
## QE(df = 11) = 12.6951, p-val = 0.3137
##
## Test of Moderators (coefficient 2):
## QM(df = 1) = 7.8906, p-val = 0.0050
##
## Model Results:
##
##          estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt     -0.0142  0.0186 -0.7633  0.4453 -0.0506  0.0222
## mo          0.0135  0.0048  2.8090  0.0050  0.0041  0.0229  **
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

```

Divorce, Table, Openness

Table S41: Linear Trajectories of Openness, Moderated by Divorce

coef	BASE	BASEII	EAS	HRS	ILSE	ILSE.Y	LBC1936	MIDUS	SATSA	SLS	SOEP	WLSG	WLSS
Fixed Effects													
Intercept	7.43	6.51	6.88	6.56	5.41	5.68	5.95	6.52	4.93	6.05	5.76	5.33	5.28
Age	0.11	0.06	0.12	0.01	0.05	0.07	0.05	0.01	0.02	0.03	0.01	0.01	0.01
	p < .001	p < .001	p < .001	p < .001	p < .001	p < .001	p < .001	p < .001	p < .001	p < .001	p < .001	p < .001	p < .001
	-0.27	0.14	-0.10	-0.16	-0.06	0.02	-0.01	-0.11	-0.08	-0.15	-0.04	-0.12	-0.10
	0.04	0.05	0.05	0.01	0.04	0.04	0.03	0.01	0.01	0.01	0	0.01	0.01
	p < .001	p = 0.004	p = 0.033	p < .001	p = 0.088	p = 0.289	p = 0.351	p < .001	p < .001	p < .001	p < .001	p < .001	p < .001
	0.35	0.20	0.13	-0.02	0.08	0.02	0.01	0.18	0.15	0.29	0.16	0.28	0.17
divorce	0.38	0.12	0.3	0.03	0.16	0.18	0.19	0.04	0.08	0.07	0.02	0.03	0.04
	p = .042	p = 0.331	p = 0.296	p = 0.307	p = 0.45	p = 0.468	p < .001	p = 0.029	p < .001				
Age x divorce	0.176	-0.06	0.042	0.331	0.296	0.307	0.45	0.01	0.02	-0.02	-0.04	0.02	-0.06
	-0.06	-0.13	0.06	-0.02	0.00	-0.14	0.01	0.02	-0.02	-0.04	0.02	-0.06	-0.04
	0.358	0.106	0.33	0.143	0.493	0.104	0.473	0.098	0.296	0.128	0.067	0.001	0.082
Random Effects													
τ_{00}	0.51	0.87	1.39	0.65	0.59	1.12	0.85	0.73	0.71	0.80	0.58	0.69	0.65
τ_{01}	-0.05	-0.18	-0.27	0.01	-0.01	0.28	-0.07	0.01	0.00	-0.02	0.02	-0.03	-0.02
τ_{11}	0.05	0.18	0.11	0.02	0.01	0.21	0.08	0.00	0.04	0.01	0.01	0.05	0.04
σ^2	0.30	0.26	0.20	0.34	0.37	0.26	0.23	0.33	0.31	0.11	0.41	0.23	0.24
N_{people}	516	1,005	712	15,405	488	499	1,031	6,401	1,803	1,504	20,772	7,630	4,426
N_{obs}	983	3,546	1,664	34,215	1,223	1,265	3,005	12,946	7,200	3,954	56,471	17,687	9,301
LL	-1191	-3862	-1789	-42921	-1522	-1550	-3295	-16326	-8267	-3432	-70372	-20461	-10962

^a LL = Log Likelihood; Age = age (centered at 60)

Divorce, Plot, Openness. Linear Trajectories of Openness, moderated by divorce.

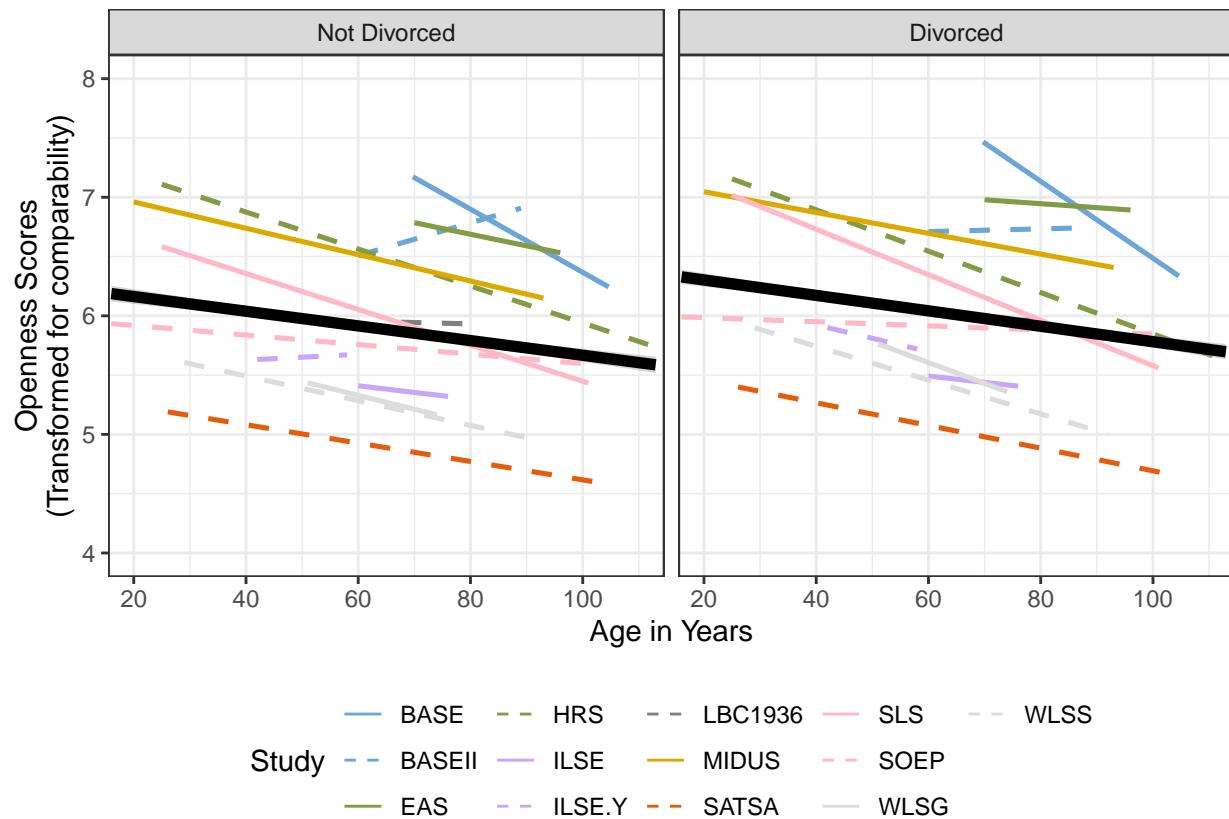


Figure S68: Divorce, Plot, Openness. Linear Trajectories of Openness, moderated by divorce. Black line indicates average trajectory weighted by N. At the individual study level, few showed evidence that being divorced was associated with a steeper decline in openness, and the meta-analytic average was not significant ($p = .187$).

Divorce, Plot, unweighted, Openness

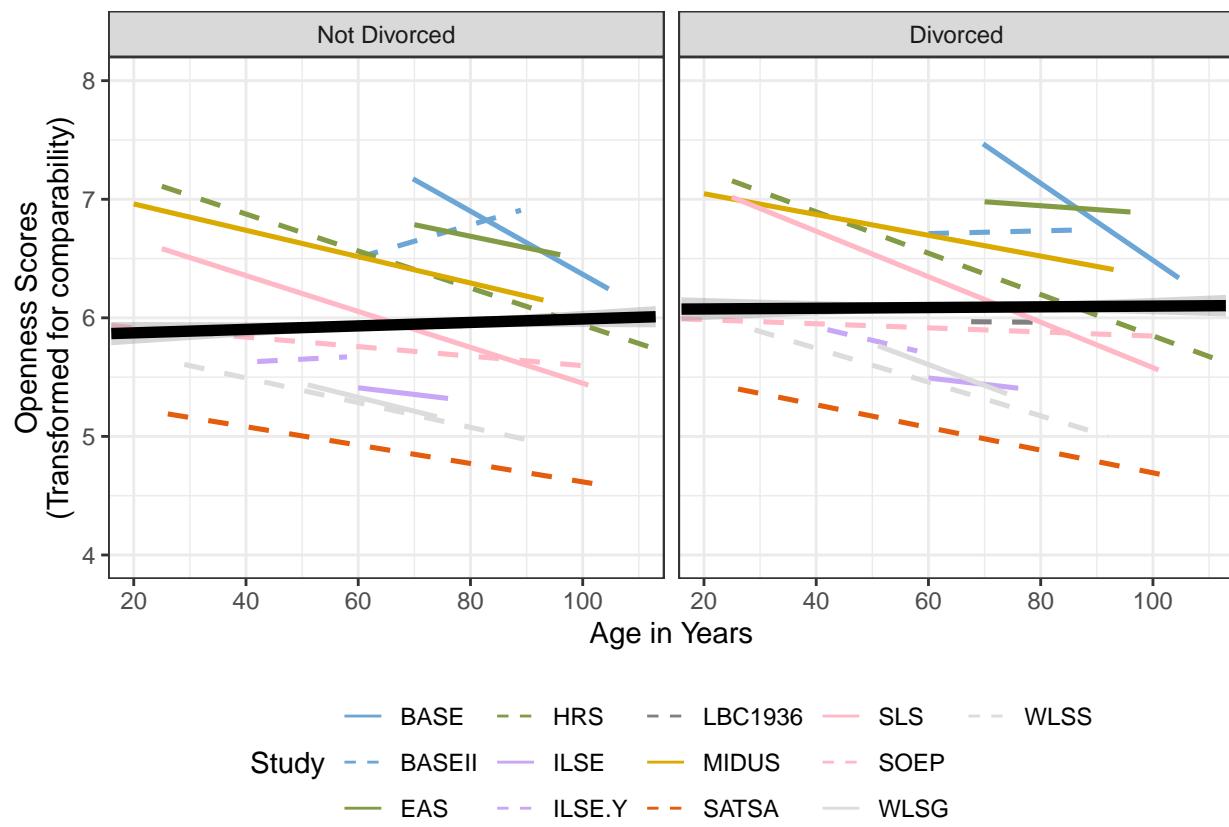


Figure S69: Divorce, Plot, unweighted, Openness

Divorce, Meta Analysis, Openness

```
##  
## Random-Effects Model (k = 13; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##  17.3765 -34.7531 -30.7531 -29.7833 -29.4197  
##  
## tau^2 (estimated amount of total heterogeneity): 0.0007 (SE = 0.0007)  
## tau (square root of estimated tau^2 value):       0.0271  
## I^2 (total heterogeneity / total variability):   45.60%  
## H^2 (total variability / sampling variability): 1.84  
##  
## Test for Heterogeneity:  
## Q(df = 12) = 19.3663, p-val = 0.0801  
##  
## Model Results:  
##  
## estimate      se     zval    pval    ci.lb    ci.ub  
## -0.0171  0.0130 -1.3186  0.1873 -0.0426  0.0083  
##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 13; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##  15.9633 -31.9265 -25.9265 -24.7329 -22.4980  
##  
## tau^2 (estimated amount of residual heterogeneity):      0.0006 (SE = 0.0007)  
## tau (square root of estimated tau^2 value):            0.0254  
## I^2 (residual heterogeneity / unaccounted variability): 38.53%  
## H^2 (unaccounted variability / sampling variability):  1.63  
## R^2 (amount of heterogeneity accounted for):          11.89%  
##  
## Test for Residual Heterogeneity:  
## QE(df = 11) = 15.5206, p-val = 0.1599  
##  
## Test of Moderators (coefficient 2):  
## QM(df = 1) = 0.9197, p-val = 0.3375  
##  
## Model Results:  
##  
##           estimate      se     zval    pval    ci.lb    ci.ub  
## intrcpt    0.0608  0.0818  0.7433  0.4573 -0.0995  0.2212  
## age       -0.0014  0.0014 -0.9590  0.3375 -0.0042  0.0014  
##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 13; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc
```

```

##    8.0880 -16.1760 -0.1760 -1.8420 143.8240
##
## tau^2 (estimated amount of residual heterogeneity):      0.0003 (SE = 0.0007)
## tau (square root of estimated tau^2 value):             0.0167
## I^2 (residual heterogeneity / unaccounted variability): 19.65%
## H^2 (unaccounted variability / sampling variability):   1.24
## R^2 (amount of heterogeneity accounted for):           62.20%
##
## Test for Residual Heterogeneity:
## QE(df = 6) = 6.0252, p-val = 0.4204
##
## Test of Moderators (coefficients 2:7):
## QM(df = 6) = 7.4741, p-val = 0.2792
##
## Model Results:
##
##                                estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt                  -0.0509  0.0201  -2.5311  0.0114  -0.0903
## scaleBFI-S                 0.0669  0.0299   2.2391  0.0252   0.0083
## scaleEPQ (NE) and NEO-PI (O) 0.0328  0.0427   0.7678  0.4426  -0.0509
## scaleIPIP                  0.0813  0.0949   0.8565  0.3917  -0.1047
## scaleMIDI                  0.0528  0.0264   1.9968  0.0458   0.0010
## scaleNEO-FFI                -0.0274  0.0788  -0.3479  0.7280  -0.1820
## scaleNEO-PI-R                0.0105  0.0441   0.2384  0.8116  -0.0758
##                                ci.lb    ci.ub
## intrcpt                  -0.0115  *
## scaleBFI-S                 0.1255  *
## scaleEPQ (NE) and NEO-PI (O) 0.1164
## scaleIPIP                  0.2673
## scaleMIDI                  0.1046  *
## scaleNEO-FFI                0.1271
## scaleNEO-PI-R                0.0969
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Mixed-Effects Model (k = 13; tau^2 estimator: REML)
##
## logLik  deviance      AIC      BIC      AICc
## 10.8386 -21.6773  -9.6773  -9.2006  74.3227
##
## tau^2 (estimated amount of residual heterogeneity):      0.0004 (SE = 0.0007)
## tau (square root of estimated tau^2 value):             0.0190
## I^2 (residual heterogeneity / unaccounted variability): 22.84%
## H^2 (unaccounted variability / sampling variability):   1.30
## R^2 (amount of heterogeneity accounted for):           50.99%
##
## Test for Residual Heterogeneity:
## QE(df = 8) = 8.9994, p-val = 0.3423
##
## Test of Moderators (coefficients 2:5):
## QM(df = 4) = 4.2269, p-val = 0.3762
##

```

```

## Model Results:
##
##          estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt   -0.0507  0.0211  -2.3969  0.0165  -0.0921  -0.0092 *
## countryGermany  0.0575  0.0310   1.8554  0.0635  -0.0032   0.1183 .
## countrySweden   0.0326  0.0441   0.7382  0.4604  -0.0539   0.1190
## countryU.S.     0.0463  0.0269   1.7222  0.0850  -0.0064   0.0989 .
## countryUK       0.0586  0.1217   0.4821  0.6297  -0.1798   0.2971
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Mixed-Effects Model (k = 13; tau^2 estimator: REML)
##
##    logLik  deviance      AIC      BIC      AICc
##  16.1593 -32.3185 -26.3185 -25.1248 -22.8899
##
## tau^2 (estimated amount of residual heterogeneity):      0.0008 (SE = 0.0008)
## tau (square root of estimated tau^2 value):             0.0283
## I^2 (residual heterogeneity / unaccounted variability): 48.00%
## H^2 (unaccounted variability / sampling variability):  1.92
## R^2 (amount of heterogeneity accounted for):           0.00%
##
## Test for Residual Heterogeneity:
## QE(df = 11) = 18.7146, p-val = 0.0664
##
## Test of Moderators (coefficient 2):
## QM(df = 1) = 0.2797, p-val = 0.5969
##
## Model Results:
##
##          estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt   -0.0341  0.0343  -0.9962  0.3191  -0.1013  0.0330
## mo        0.0044  0.0084   0.5289  0.5969  -0.0120  0.0208
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

```

\subsection{Widow, Table, Openness}

Table S42: Linear Trajectories of Openness, Moderated by Widowhood

coef	BASE	BASEII	EAS	HRS	ILSE	LBC1936	SATSA	SLS	SOEP
Fixed Effects									
Intercept	7.59	6.56	6.95	6.56	5.43	5.97	4.95	6.09	5.80
	0.15	0.05	0.13	0.01	0.05	0.05	0.02	0.03	0.01
	p < .001	p < .001							
Age	-0.29	0.11	-0.09	-0.16	-0.05	-0.01	-0.07	-0.16	-0.03
	0.06	0.05	0.06	0.01	0.04	0.03	0.01	0.01	0
	p < .001	p = 0.008	p = 0.066	p < .001	p = 0.114	p = 0.336	p < .001	p < .001	p < .001
widow	-0.32	0.05	-0.14	0.04	-0.11	-0.10	0.09	0.16	-0.10
	0.22	0.19	0.24	0.03	0.15	0.14	0.08	0.12	0.03
	p = 0.071	p = 0.402	p = 0.277	p = 0.121	p = 0.219	p = 0.231	p = 0.155	p = 0.098	p < .001
Age x widow	0.06	-0.09	0.01	0.02	-0.03	0.02	-0.14	-0.06	-0.10
	0.08	0.15	0.11	0.02	0.12	0.08	0.04	0.05	0.02
	p = 0.244	p = 0.271	p = 0.459	p = 0.2	p = 0.394	p = 0.418	p < .001	p = 0.118	p < .001
Random Effects									
τ_{00}	0.48	0.88	1.33	0.65	0.59	0.84	0.71	0.81	0.58
τ_{01}	-0.04	-0.19	-0.24	0.01	-0.01	-0.07	0.00	-0.02	0.02
τ_{11}	0.05	0.18	0.10	0.02	0.01	0.08	0.04	0.01	0.01
σ^2	0.30	0.26	0.20	0.34	0.37	0.23	0.31	0.11	0.41
N_{people}	516	1,005	712	15,405	488	1,031	1,803	1,504	20,772
N_{obs}	983	3,546	1,664	34,215	1,223	3,005	7,200	3,954	56,471
LL	-1189	-3863	-1791	-42921	-1521	-3295	-8261	-3439	-70345

^a LL = Log Likelihood; Age = age (centered at 60)

Widow, Plot, Openness. Linear Trajectories of Openness, moderated by widowhood.

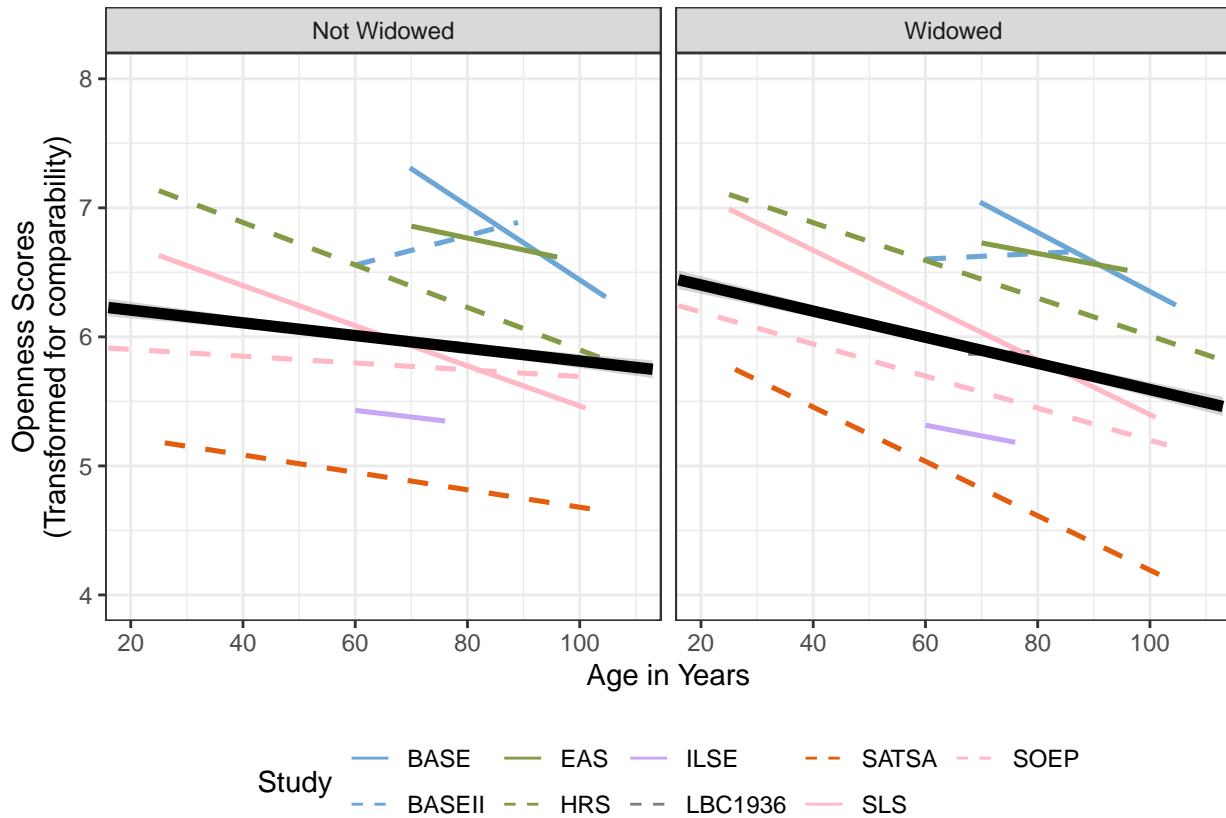


Figure S70: Widow, Plot, Openness. Linear Trajectories of Openness, moderated by widowhood. Black line indicates average trajectory weighted by N. At the individual study level, few showed evidence that being widowed was associated with a steeper decline in openness, and the meta-analytic average was not significant ($p = .094$).

Widow, Plot, unweighted, Openness

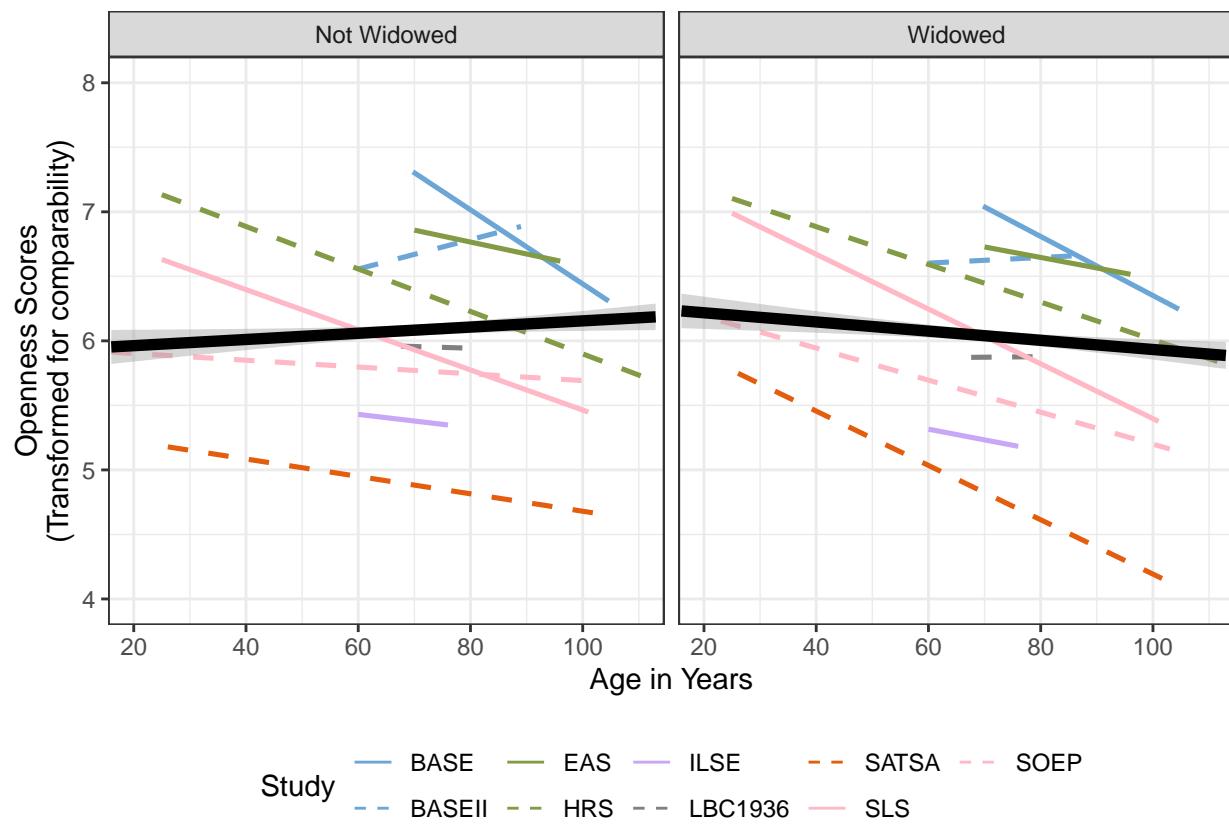


Figure S71: Widow, Plot, unweighted, Openness

Widow, Meta Analysis, Openness

```
##  
## Random-Effects Model (k = 9; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##    8.8017 -17.6035 -13.6035 -13.4446 -11.2035  
##  
## tau^2 (estimated amount of total heterogeneity): 0.0031 (SE = 0.0031)  
## tau (square root of estimated tau^2 value):       0.0560  
## I^2 (total heterogeneity / total variability):   64.13%  
## H^2 (total variability / sampling variability): 2.79  
##  
## Test for Heterogeneity:  
## Q(df = 8) = 24.7147, p-val = 0.0017  
##  
## Model Results:  
##  
## estimate      se     zval    pval    ci.lb    ci.ub  
## -0.0460  0.0275 -1.6718  0.0946 -0.0999  0.0079 .  
##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 9; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##    9.1583 -18.3166 -12.3166 -12.4789 -4.3166  
##  
## tau^2 (estimated amount of residual heterogeneity):      0.0013 (SE = 0.0022)  
## tau (square root of estimated tau^2 value):            0.0366  
## I^2 (residual heterogeneity / unaccounted variability): 31.86%  
## H^2 (unaccounted variability / sampling variability):  1.47  
## R^2 (amount of heterogeneity accounted for):          57.25%  
##  
## Test for Residual Heterogeneity:  
## QE(df = 7) = 7.7890, p-val = 0.3516  
##  
## Test of Moderators (coefficient 2):  
## QM(df = 1) = 5.4620, p-val = 0.0194  
##  
## Model Results:  
##  
##           estimate      se     zval    pval    ci.lb    ci.ub  
## intrcpt  -0.3423  0.1271 -2.6939  0.0071 -0.5913 -0.0933 **  
## age       0.0047  0.0020  2.3371  0.0194  0.0008  0.0087  *##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 9; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc
```

```

##    3.9101   -7.8201    6.1799   -0.1298  118.1799
##
## tau^2 (estimated amount of residual heterogeneity):      0 (SE = 0.0083)
## tau (square root of estimated tau^2 value):              0
## I^2 (residual heterogeneity / unaccounted variability): 0.00%
## H^2 (unaccounted variability / sampling variability):  1.00
## R^2 (amount of heterogeneity accounted for):           100.00%
##
## Test for Residual Heterogeneity:
## QE(df = 3) = 0.3877, p-val = 0.9428
##
## Test of Moderators (coefficients 2:6):
## QM(df = 5) = 24.3269, p-val = 0.0002
##
## Model Results:
##
##                                estimate     se     zval    pval    ci.lb    ci.ub
## intrcpt                  -0.0977  0.0178  -5.5027 <.0001  -0.1325
## scaleEPQ (NE) and NEO-PI (O) -0.0453  0.0442  -1.0263  0.3047  -0.1319
## scaleIPIP                  0.1125  0.0678   1.6596  0.0970  -0.0204
## scaleMIDI                  0.1162  0.0282   4.1140 <.0001  0.0608
## scaleNEO-FFI                0.1258  0.0709   1.7757  0.0758  -0.0131
## scaleNEO-PI-R                0.0410  0.0511   0.8017  0.4227  -0.0592
##                                ci.ub
## intrcpt                  -0.0629 ***
## scaleEPQ (NE) and NEO-PI (O) 0.0412
## scaleIPIP                  0.2455 .
## scaleMIDI                  0.1715 ***
## scaleNEO-FFI                0.2647 .
## scaleNEO-PI-R                0.1413
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Mixed-Effects Model (k = 9; tau^2 estimator: REML)
##
## logLik  deviance      AIC      BIC      AICc
## 5.7863  -11.5726  -1.5726  -3.5255  58.4274
##
## tau^2 (estimated amount of residual heterogeneity):      0.0015 (SE = 0.0032)
## tau (square root of estimated tau^2 value):              0.0389
## I^2 (residual heterogeneity / unaccounted variability): 29.04%
## H^2 (unaccounted variability / sampling variability):  1.41
## R^2 (amount of heterogeneity accounted for):           51.85%
##
## Test for Residual Heterogeneity:
## QE(df = 5) = 5.5723, p-val = 0.3501
##
## Test of Moderators (coefficients 2:4):
## QM(df = 3) = 5.2000, p-val = 0.1577
##
## Model Results:
##

```

```

##          estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt   -0.0683  0.0361  -1.8929  0.0584  -0.1390  0.0024 .
## countrySweden -0.0747  0.0667  -1.1206  0.2624  -0.2055  0.0560
## countryU.S.    0.0627  0.0499   1.2564  0.2090  -0.0351  0.1604
## countryUK      0.0856  0.0990   0.8644  0.3874  -0.1084  0.2796
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Mixed-Effects Model (k = 9; tau^2 estimator: REML)
##
##    logLik  deviance      AIC      BIC      AICc
##    7.5294 -15.0588 -9.0588 -9.2210 -1.0588
##
## tau^2 (estimated amount of residual heterogeneity): 0.0034 (SE = 0.0034)
## tau (square root of estimated tau^2 value):        0.0585
## I^2 (residual heterogeneity / unaccounted variability): 66.57%
## H^2 (unaccounted variability / sampling variability): 2.99
## R^2 (amount of heterogeneity accounted for):       0.00%
##
## Test for Residual Heterogeneity:
## QE(df = 7) = 22.2071, p-val = 0.0023
##
## Test of Moderators (coefficient 2):
## QM(df = 1) = 0.0309, p-val = 0.8604
##
## Model Results:
##
##          estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt   -0.0372  0.0552  -0.6743  0.5001  -0.1453  0.0709
## mo        -0.0017  0.0095  -0.1758  0.8604  -0.0204  0.0170
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

```

Health, Table, Openness

Table S43: Linear Trajectories of Openness, Moderated by Health Conditions

coef	BASE	BASEII	EAS	HRS	ILSE	LBC1936	MIDUS	SATSA	SLS	SOEP	WLSG	WLSS
Fixed Effects												
Intercept	7.69	6.62	6.89	6.62	5.42	5.96	6.54	4.91	6.17	5.83	5.40	5.33
Age	0.22 p < .001	0.07 p < .001	0.2 p < .001	0.02 p < .001	0.07 p < .001	0.07 p < .001	0.02 p < .001	0.07 p < .001	0.03 p < .001	0.01 p < .001	0.01 p < .001	0.02 p < .001
health	-0.34 p < .001	0.13 p =	-0.06 p =	-0.14 p < .001	-0.07 p =	0.00 p =	-0.11 p < .001	-0.03 p =	-0.14 p < .001	-0.03 p < .001	-0.12 p < .001	-0.11 p < .001
Age x health	0.08 p < .001	0.06 p =	0.09 p =	0.01 p < .001	0.06 p =	0.04 p =	0.01 p < .001	0.03 p =	0.01 p < .001	0 p < .001	0.01 p < .001	0.01 p < .001
Random Effects	-0.28 0.25 p = 0.127 0.09	-0.06 0.1 p = 0.279 -0.08	0.08 0.24 p = 0.375 -0.07	-0.08 0.02 p < .001 p = 0.49	0.105 0.00 p = 0.49 -0.01	0.461 0.00 p = 0.49 -0.01	0.01 0.01 p = 0.49 0.01	0.04 0.03 p = 0.49 -0.06	-0.17 0.05 p < .001 -0.01	-0.09 0.01 p < .001 -0.03	-0.12 0.02 p < .001 0.00	-0.05 0.03 p = 0.058 0.00
τ_{00}	0.50	0.87	1.34	0.65	0.59	0.85	0.73	0.72	0.80	0.60	0.70	0.66
τ_{01}	-0.05	-0.18	-0.25	0.01	0.00	-0.07	0.01	0.00	-0.02	0.02	-0.04	-0.02
τ_{11}	0.05	0.17	0.10	0.02	0.01	0.08	0.00	0.04	0.01	0.01	0.05	0.04
σ^2	0.30	0.26	0.20	0.34	0.37	0.23	0.33	0.31	0.11	0.40	0.23	0.24
N_{people}	516	1,276	713	16,029	488	1,031	6,404	1,785	1,535	33,601	6,829	3,819
N_{obs}	983	3,818	1,667	34,960	1,223	3,005	12,950	7,097	4,000	74,004	16,536	8,419
LL	-1191	-4248	-1794	-43984	-1522	-3295	-16342	-8159	-3482	-94067	-19051	-9868

^a LL = Log Likelihood; Age = age (centered at 60)

Health, Plot, Openness. Linear Trajectories of Openness, moderated by health.

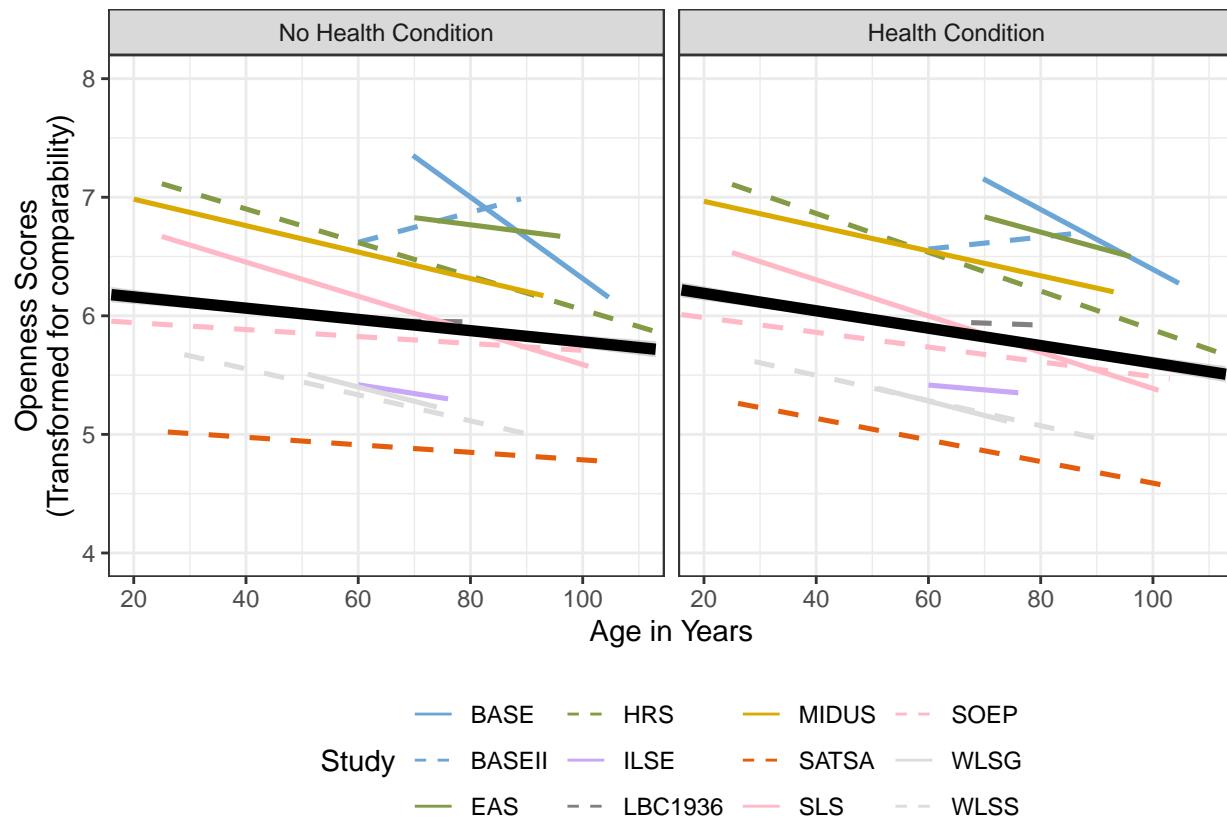


Figure S72: Health, Plot, Openness. Linear Trajectories of Openness, moderated by health. Black line indicates average trajectory weighted by N. At the individual study level, few showed evidence that having a health condition was associated with a steeper decline in openness, and the meta-analytic average was not significant ($p = .074$).

Health, Plot, unweighted, Openness

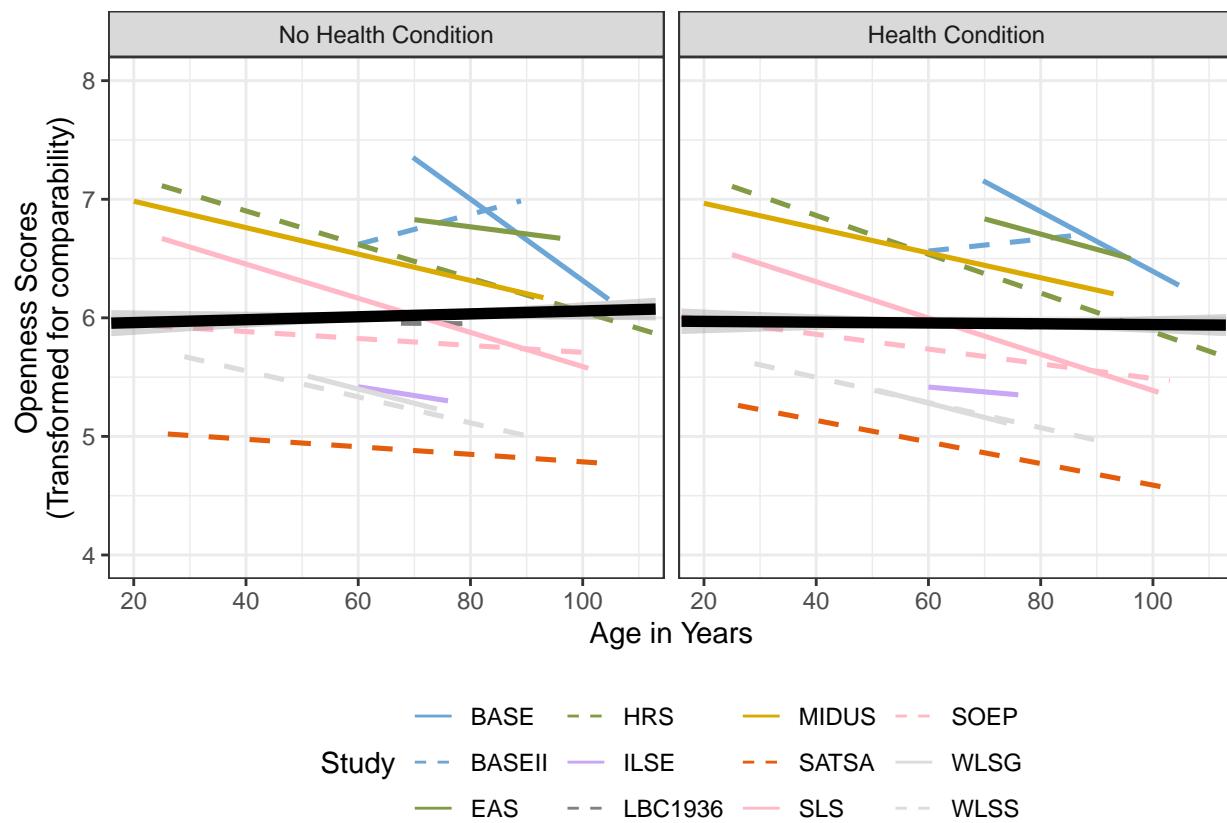


Figure S73: Health, Plot, unweighted, Openness

Health, Meta Analysis, Openness

```
##  
## Random-Effects Model (k = 12; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##  21.4089 -42.8178 -38.8178 -38.0220 -37.3178  
##  
## tau^2 (estimated amount of total heterogeneity): 0.0002 (SE = 0.0002)  
## tau (square root of estimated tau^2 value):       0.0135  
## I^2 (total heterogeneity / total variability):   33.59%  
## H^2 (total variability / sampling variability): 1.51  
##  
## Test for Heterogeneity:  
## Q(df = 11) = 15.1399, p-val = 0.1762  
##  
## Model Results:  
##  
## estimate      se     zval    pval    ci.lb    ci.ub  
## -0.0135  0.0076 -1.7848  0.0743 -0.0284  0.0013 .  
##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 12; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##  19.0084 -38.0168 -32.0168 -31.1090 -28.0168  
##  
## tau^2 (estimated amount of residual heterogeneity):      0.0002 (SE = 0.0003)  
## tau (square root of estimated tau^2 value):            0.0155  
## I^2 (residual heterogeneity / unaccounted variability): 36.64%  
## H^2 (unaccounted variability / sampling variability):  1.58  
## R^2 (amount of heterogeneity accounted for):          0.00%  
##  
## Test for Residual Heterogeneity:  
## QE(df = 10) = 15.0617, p-val = 0.1298  
##  
## Test of Moderators (coefficient 2):  
## QM(df = 1) = 0.0470, p-val = 0.8283  
##  
## Model Results:  
##  
##           estimate      se     zval    pval    ci.lb    ci.ub  
## intrcpt  -0.0020  0.0528 -0.0381  0.9696 -0.1055  0.1015  
## age       -0.0002  0.0009 -0.2169  0.8283 -0.0021  0.0016  
##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 12; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc
```

```

## 10.0732 -20.1464 -4.1464 -7.2709 139.8536
##
## tau^2 (estimated amount of residual heterogeneity): 0.0000 (SE = 0.0003)
## tau (square root of estimated tau^2 value): 0.0069
## I^2 (residual heterogeneity / unaccounted variability): 8.72%
## H^2 (unaccounted variability / sampling variability): 1.10
## R^2 (amount of heterogeneity accounted for): 73.56%
##
## Test for Residual Heterogeneity:
## QE(df = 5) = 2.9810, p-val = 0.7029
##
## Test of Moderators (coefficients 2:7):
## QM(df = 6) = 9.0562, p-val = 0.1704
##
## Model Results:
##
##                                estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt                      0.0011  0.0120  0.0877  0.9301 -0.0225
## scaleBFI-S                   -0.0346  0.0157 -2.2035  0.0276 -0.0654
## scaleEPQ (NE) and NEO-PI (O) -0.0603  0.0354 -1.7044  0.0883 -0.1296
## scaleIPIP                     -0.0264  0.0522 -0.5053  0.6134 -0.1286
## scaleMIDI                     -0.0072  0.0160 -0.4504  0.6524 -0.0387
## scaleNEO-FFI                  0.0553  0.0628  0.8809  0.3784 -0.0678
## scaleNEO-PI-R                 -0.0098  0.0275 -0.3574  0.7208 -0.0637
##                                ci.lb    ci.ub
## intrcpt                      0.0246
## scaleBFI-S                   -0.0038  *
## scaleEPQ (NE) and NEO-PI (O) 0.0090 .
## scaleIPIP                     0.0759
## scaleMIDI                     0.0242
## scaleNEO-FFI                  0.1784
## scaleNEO-PI-R                 0.0441
##
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Mixed-Effects Model (k = 12; tau^2 estimator: REML)
##
## logLik  deviance      AIC      BIC      AICc
## 13.6660 -27.3320 -15.3320 -15.6565  68.6680
##
## tau^2 (estimated amount of residual heterogeneity): 0.0000 (SE = 0.0002)
## tau (square root of estimated tau^2 value): 0.0038
## I^2 (residual heterogeneity / unaccounted variability): 2.54%
## H^2 (unaccounted variability / sampling variability): 1.03
## R^2 (amount of heterogeneity accounted for): 92.04%
##
## Test for Residual Heterogeneity:
## QE(df = 7) = 5.2174, p-val = 0.6334
##
## Test of Moderators (coefficients 2:5):
## QM(df = 4) = 8.6837, p-val = 0.0695
##

```

```

## Model Results:
##
##          estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt      0.0010  0.0113   0.0884  0.9296  -0.0211   0.0231
## countryGermany -0.0327  0.0140  -2.3451  0.0190  -0.0601  -0.0054  *
## countrySweden   -0.0602  0.0346  -1.7386  0.0821  -0.1281   0.0077  .
## countryU.S.     -0.0078  0.0144  -0.5396  0.5894  -0.0361   0.0205
## countryUK       -0.0136  0.0586  -0.2318  0.8167  -0.1284   0.1012
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

##
## Mixed-Effects Model (k = 12; tau^2 estimator: REML)
##
##    logLik  deviance      AIC      BIC      AICc
##  21.2082 -42.4163 -36.4163 -35.5086 -32.4163
##
## tau^2 (estimated amount of residual heterogeneity):      0.0001 (SE = 0.0002)
## tau (square root of estimated tau^2 value):                 0.0089
## I^2 (residual heterogeneity / unaccounted variability): 17.98%
## H^2 (unaccounted variability / sampling variability):   1.22
## R^2 (amount of heterogeneity accounted for):            56.63%
##
## Test for Residual Heterogeneity:
## QE(df = 10) = 9.1652, p-val = 0.5165
##
## Test of Moderators (coefficient 2):
## QM(df = 1) = 3.6225, p-val = 0.0570
##
## Model Results:
##
##          estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt      0.0244  0.0214   1.1395  0.2545  -0.0176   0.0665
## mo        -0.0109  0.0057  -1.9033  0.0570  -0.0221   0.0003  .
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

```

Heart, Table, Openness

Table S44: Linear Trajectories of Openness, Moderated by Heart Conditions

coef	BASE	BASEII	HRS	ILSE	LBC1936	MIDUS	SLS	SOEP	WLSG	WLSS
Fixed Effects										
Intercept	7.56	6.61	6.57	5.42	5.97	6.55	6.13	5.80	5.37	5.31
Age	0.12 p < .001	0.05 p < .001	0.01 p < .001	0.05 p < .001	0.05 p < .001	0.01 p < .001	0.03 p < .001	0.01 p < .001	0.01 p < .001	0.02 p < .001
heart	-0.32 0.05 p < .001	0.08 0.05 p = 0.045	-0.16 0.01 p < .001	-0.06 0.04 p = 0.083	-0.01 0.03 p = 0.422	-0.10 0.01 p < .001	-0.15 0.01 p < .001	-0.04 0 p < .001	-0.12 0.01 p < .001	-0.11 0.01 p < .001
Age x heart	-0.41 0.27 p = 0.066	-0.19 0.16 p = 0.127	-0.05 0.03 p = 0.029	-0.07 0.23 p = 0.38	-0.05 0.11 p = 0.324	-0.01 0.04 p = 0.387	-0.17 0.07 p = 0.013	-0.05 0.02 p = 0.013	-0.03 0.05 p = 0.279	0.03 0.05 p = 0.276
Random Effects										
τ_{00}	0.48	0.88	0.65	0.59	0.85	0.73	0.78	0.60	0.70	0.66
τ_{01}	-0.04	-0.19	0.01	-0.01	-0.07	0.01	-0.03	0.02	-0.04	-0.02
τ_{11}	0.05	0.18	0.02	0.01	0.08	0.00	0.01	0.01	0.05	0.04
σ^2	0.30	0.26	0.34	0.37	0.23	0.33	0.11	0.40	0.23	0.24
N_{people}	516	1,276	16,013	488	1,031	6,386	1,271	33,601	6,829	3,790
N_{obs}	983	3,818	34,928	1,223	3,005	12,915	3,185	74,004	16,536	8,365
LL	-1191	-4251	-43962	-1522	-3295	-16296	-2765	-94080	-19063	-9793

^a LL = Log Likelihood; Age = age (centered at 60)

Heart, Plot, Openness. Linear Trajectories of Openness, moderated by heart conditions.

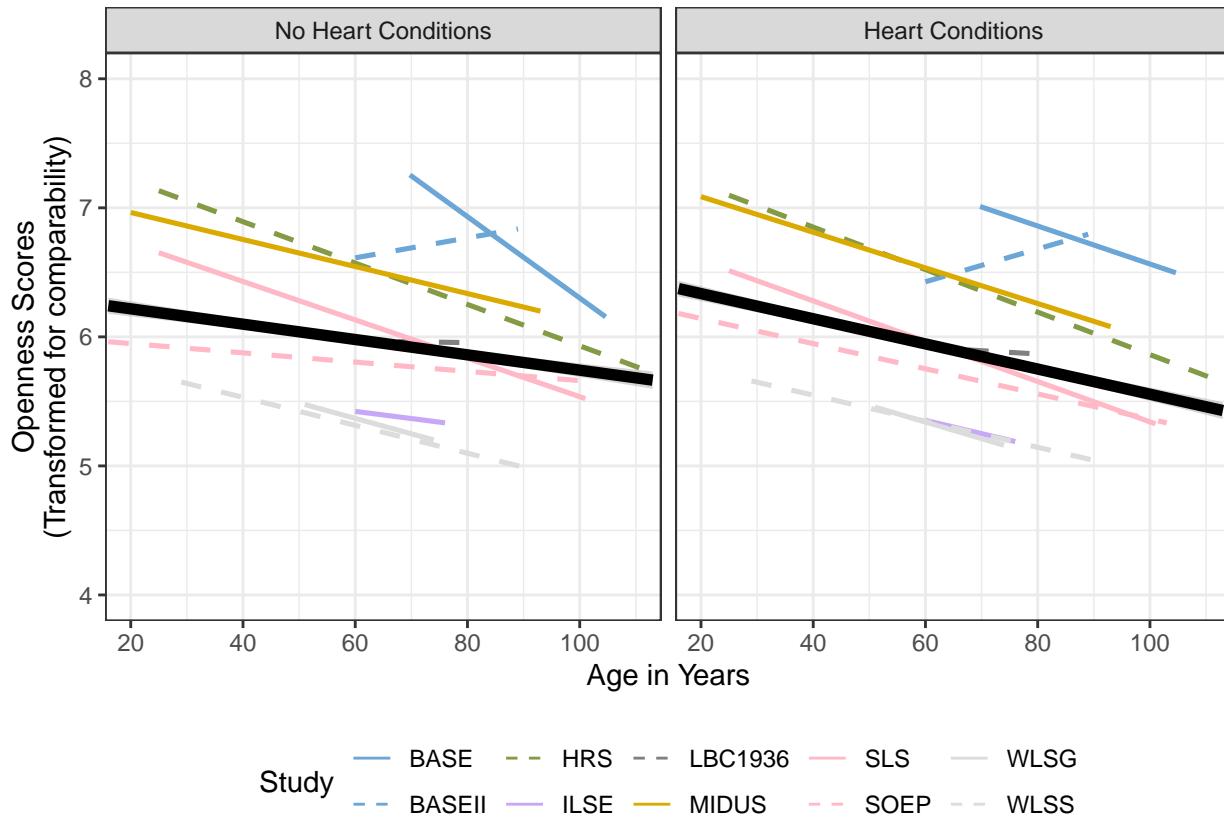


Figure S74: Heart, Plot, Openness. Linear Trajectories of Openness, moderated by heart conditions. Black line indicates average trajectory weighted by N. At the individual study level, few showed evidence that having a heart condition was associated with a steeper decline in openness, and the meta-analytic average was not significant ($p = .105$).

Heart, Plot, unweighted, Openness

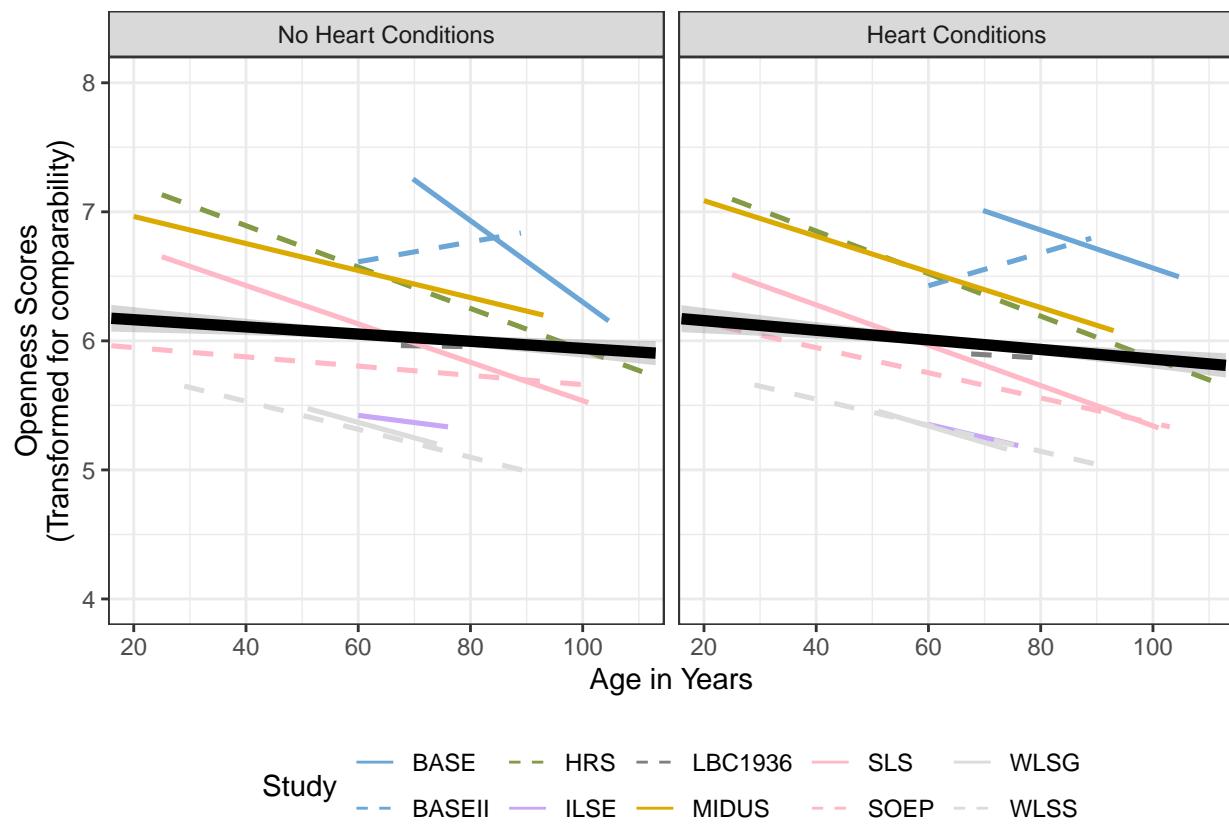


Figure S75: Heart, Plot, unweighted, Openness

Heart, Meta Analysis, Openness

```
##  
## Random-Effects Model (k = 10; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##  13.5705  -27.1410  -23.1410  -22.7465  -21.1410  
##  
## tau^2 (estimated amount of total heterogeneity): 0.0005 (SE = 0.0006)  
## tau (square root of estimated tau^2 value):       0.0219  
## I^2 (total heterogeneity / total variability):   39.60%  
## H^2 (total variability / sampling variability):  1.66  
##  
## Test for Heterogeneity:  
## Q(df = 9) = 14.9231, p-val = 0.0931  
##  
## Model Results:  
##  
## estimate      se     zval    pval    ci.lb    ci.ub  
## -0.0200  0.0123  -1.6192  0.1054  -0.0441  0.0042  
##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 10; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##  13.5785  -27.1569  -21.1569  -20.9186  -15.1569  
##  
## tau^2 (estimated amount of residual heterogeneity):      0.0001 (SE = 0.0004)  
## tau (square root of estimated tau^2 value):            0.0105  
## I^2 (residual heterogeneity / unaccounted variability): 10.52%  
## H^2 (unaccounted variability / sampling variability):  1.12  
## R^2 (amount of heterogeneity accounted for):           76.99%  
##  
## Test for Residual Heterogeneity:  
## QE(df = 8) = 6.1944, p-val = 0.6255  
##  
## Test of Moderators (coefficient 2):  
## QM(df = 1) = 6.2652, p-val = 0.0123  
##  
## Model Results:  
##  
##          estimate      se     zval    pval    ci.lb    ci.ub  
## intrcpt  -0.1590  0.0545  -2.9199  0.0035  -0.2658  -0.0523  **  
## age       0.0024  0.0010   2.5030  0.0123   0.0005   0.0043   *  
##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 10; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc
```

```

##    6.4264 -12.8529    1.1471   -3.1488  113.1471
##
## tau^2 (estimated amount of residual heterogeneity):      0.0000 (SE = 0.0004)
## tau (square root of estimated tau^2 value):             0.0039
## I^2 (residual heterogeneity / unaccounted variability): 1.73%
## H^2 (unaccounted variability / sampling variability):  1.02
## R^2 (amount of heterogeneity accounted for):          96.75%
##
## Test for Residual Heterogeneity:
## QE(df = 4) = 2.7669, p-val = 0.5976
##
## Test of Moderators (coefficients 2:6):
## QM(df = 5) = 11.5469, p-val = 0.0416
##
## Model Results:
##
##           estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt      -0.0020  0.0213  -0.0953  0.9241  -0.0438  0.0398
## scaleBFI-S    -0.0582  0.0255  -2.2822  0.0225  -0.1082  -0.0082 *
## scaleIPIP     -0.0172  0.0717  -0.2392  0.8109  -0.1577  0.1234
## scaleMIDI     -0.0137  0.0246  -0.5573  0.5773  -0.0620  0.0345
## scaleNEO-FFI    0.1458  0.0961   1.5175  0.1291  -0.0425  0.3342
## scaleNEO-PI-R   -0.0054  0.0388  -0.1394  0.8891  -0.0815  0.0706
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Mixed-Effects Model (k = 10; tau^2 estimator: REML)
##
## logLik deviance      AIC      BIC      AICc
## 8.1624 -16.3248 -6.3248 -7.3660  53.6752
##
## tau^2 (estimated amount of residual heterogeneity):      0.0000 (SE = 0.0004)
## tau (square root of estimated tau^2 value):             0.0014
## I^2 (residual heterogeneity / unaccounted variability): 0.21%
## H^2 (unaccounted variability / sampling variability):  1.00
## R^2 (amount of heterogeneity accounted for):          99.57%
##
## Test for Residual Heterogeneity:
## QE(df = 6) = 7.4815, p-val = 0.2786
##
## Test of Moderators (coefficients 2:4):
## QM(df = 3) = 7.3581, p-val = 0.0613
##
## Model Results:
##
##           estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt      -0.0020  0.0212  -0.0968  0.9229  -0.0435  0.0394
## countryGermany -0.0541  0.0250  -2.1612  0.0307  -0.1032  -0.0050 *
## countryU.S.     -0.0126  0.0240  -0.5244  0.6000  -0.0596  0.0344
## countryUK       -0.0171  0.0716  -0.2395  0.8107  -0.1574  0.1231
##
## ---

```

```

## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Mixed-Effects Model (k = 10; tau^2 estimator: REML)
##
##   logLik  deviance      AIC      BIC      AICc
##  11.5494 -23.0988 -17.0988 -16.8604 -11.0988
##
## tau^2 (estimated amount of residual heterogeneity): 0.0005 (SE = 0.0007)
## tau (square root of estimated tau^2 value):        0.0224
## I^2 (residual heterogeneity / unaccounted variability): 35.22%
## H^2 (unaccounted variability / sampling variability): 1.54
## R^2 (amount of heterogeneity accounted for):       0.00%
##
## Test for Residual Heterogeneity:
## QE(df = 8) = 11.4113, p-val = 0.1795
##
## Test of Moderators (coefficient 2):
## QM(df = 1) = 0.0946, p-val = 0.7584
##
## Model Results:
##
##           estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt  0.0054  0.0827  0.0651  0.9481 -0.1567  0.1675
## mo       -0.0074  0.0241 -0.3076  0.7584 -0.0546  0.0398
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

```

Lung, Table, Openness

Table S45: Linear Trajectories of Openness, Moderated by Lung Conditions

coef	BASE	BASEII	EAS	HRS	ILSE	MIDUS	SATSA
Fixed Effects							
Intercept	7.45	6.60	6.91	6.57	5.36	6.53	4.95
	0.13	0.05	0.11	0.01	0.06	0.01	0.02
	p < .001						
Age	-0.28	0.07	-0.08	-0.17	-0.05	-0.11	-0.08
	0.05	0.04	0.05	0.01	0.05	0.01	0.01
	p < .001	p = 0.046	p = 0.059	p < .001	p = 0.18	p < .001	p < .001
lung	0.12	-0.09	0.46	-0.14	0.14	0.06	-0.05
	0.24	0.2	0.45	0.04	0.11	0.04	0.07
Age x lung	p = 0.317	p = 0.321	p = 0.153	p < .001	p = 0.098	p = 0.053	p = 0.263
	-0.01	0.08	-0.34	0.03	-0.01	0.03	0.00
	0.09	0.18	0.21	0.02	0.1	0.02	0.03
	p = 0.458	p = 0.327	p = 0.055	p = 0.067	p = 0.447	p = 0.043	p = 0.463
Random Effects							
τ_{00}	0.48	0.88	1.36	0.65	0.49	0.73	0.72
τ_{01}	-0.03	-0.19	-0.26	0.01	0.02	0.01	0.00
τ_{11}	0.05	0.18	0.10	0.02	0.00	0.00	0.04
σ^2	0.30	0.26	0.20	0.34	0.37	0.32	0.31
N_{people}	516	1,276	702	16,013	404	6,218	1,709
N_{obs}	983	3,818	1,632	34,930	1,006	12,675	6,858
LL	-1192	-4252	-1756	-43959	-1224	-15936	-7856

^a LL = Log Likelihood; Age = age (centered at 60)

Lung, Plot, Openness. Linear Trajectories of Openness, moderated by lung conditions.

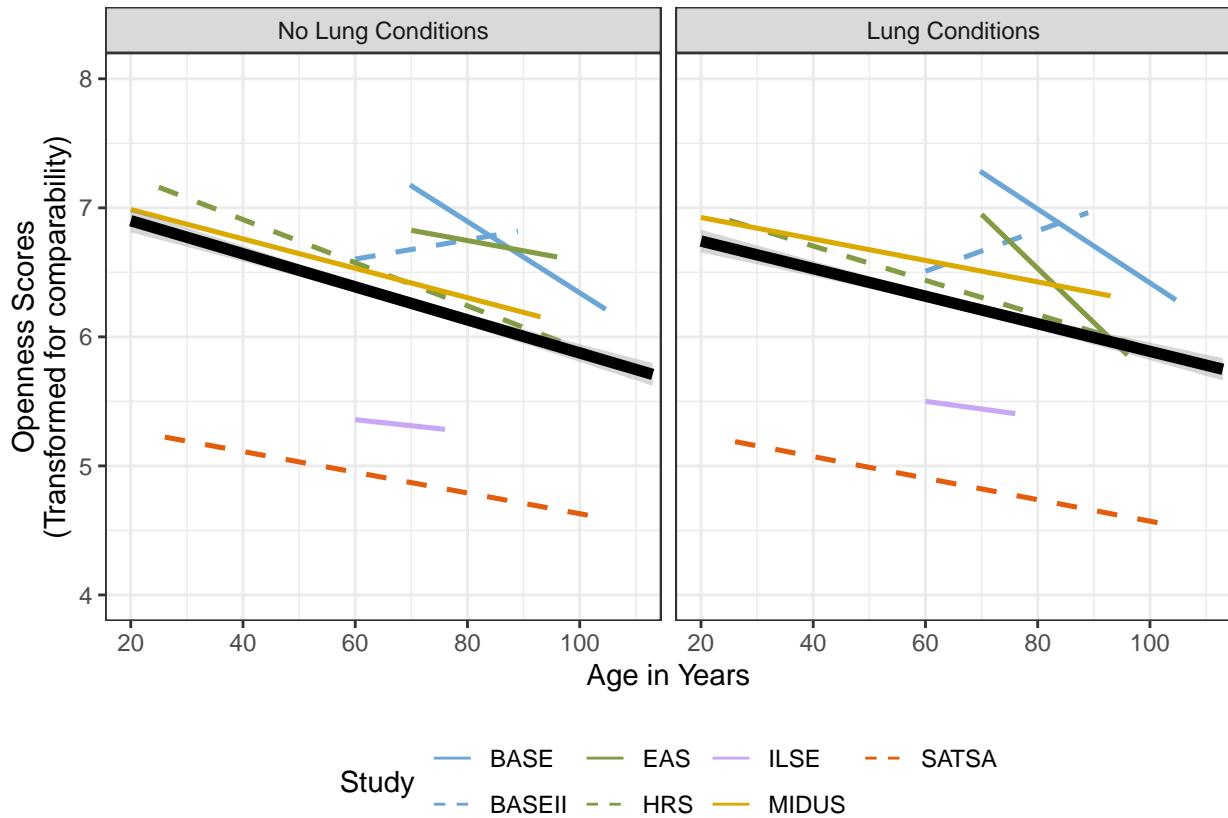


Figure S76: Lung, Plot, Openness. Linear Trajectories of Openness, moderated by lung conditions. Black line indicates average trajectory weighted by N. At the individual study level, none showed evidence that having a lung condition was associated with a steeper decline in openness, and the meta-analytic average was not significant ($p = .057$).

Lung, Plot, unweighted, Openness

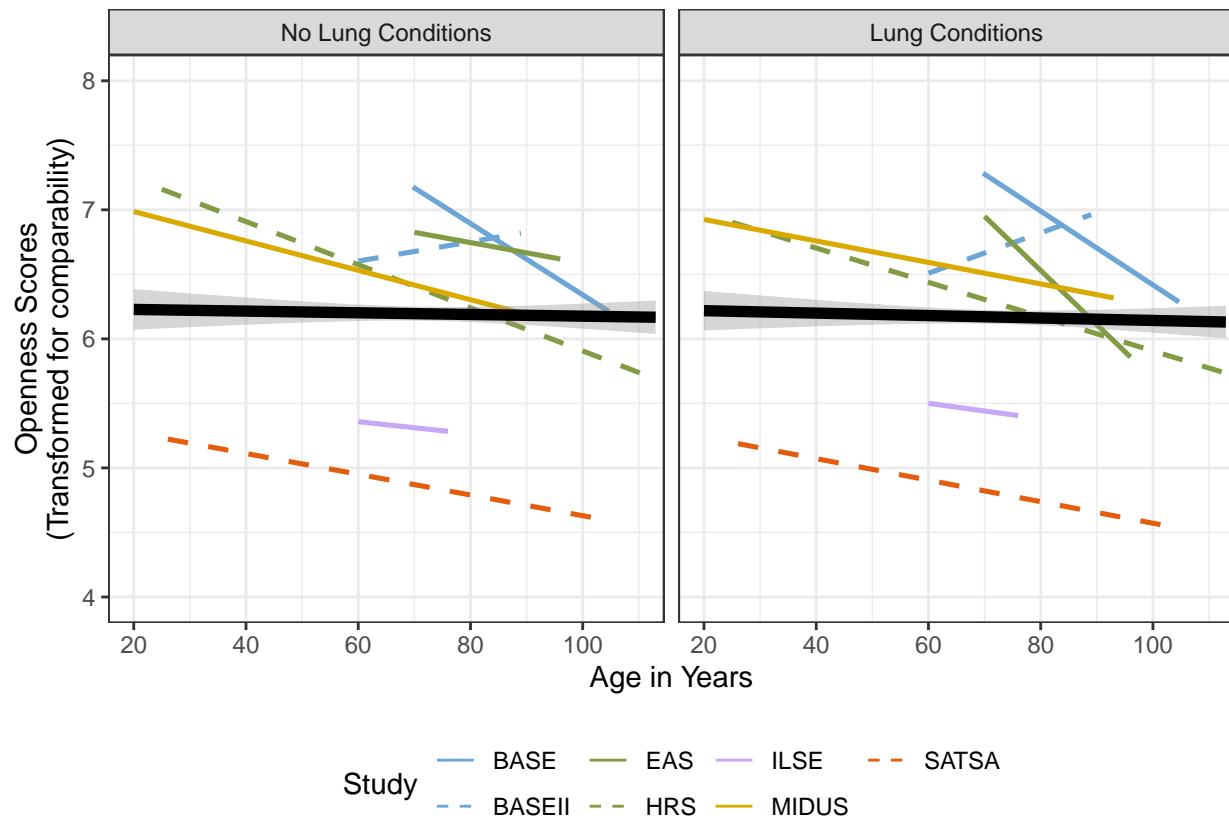


Figure S77: Lung, Plot, unweighted, Openness

Lung, Meta Analysis, Openness

```
##  
## Random-Effects Model (k = 7; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##    8.1304 -16.2607 -12.2607 -12.6772 -8.2607  
##  
## tau^2 (estimated amount of total heterogeneity): 0.0000 (SE = 0.0005)  
## tau (square root of estimated tau^2 value):       0.0020  
## I^2 (total heterogeneity / total variability):   0.26%  
## H^2 (total variability / sampling variability): 1.00  
##  
## Test for Heterogeneity:  
## Q(df = 6) = 4.2848, p-val = 0.6382  
##  
## Model Results:  
##  
## estimate      se     zval    pval    ci.lb    ci.ub  
##  0.0243  0.0127  1.9048  0.0568 -0.0007  0.0493  .  
##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 7; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##    5.8181 -11.6361 -5.6361 -6.8078 18.3639  
##  
## tau^2 (estimated amount of residual heterogeneity):      0.0000 (SE = 0.0012)  
## tau (square root of estimated tau^2 value):            0.0003  
## I^2 (residual heterogeneity / unaccounted variability): 0.00%  
## H^2 (unaccounted variability / sampling variability): 1.00  
## R^2 (amount of heterogeneity accounted for):        98.08%  
##  
## Test for Residual Heterogeneity:  
## QE(df = 5) = 4.1243, p-val = 0.5317  
##  
## Test of Moderators (coefficient 2):  
## QM(df = 1) = 0.1605, p-val = 0.6887  
##  
## Model Results:  
##  
##          estimate      se     zval    pval    ci.lb    ci.ub  
## intrcpt    0.0515  0.0691  0.7461  0.4556 -0.0838  0.1869  
## age       -0.0005  0.0012 -0.4006  0.6887 -0.0028  0.0019  
##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 7; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc
```

```

##    4.4155   -8.8311    3.1689   -4.6722   87.1689
##
## tau^2 (estimated amount of residual heterogeneity):      0 (SE = 0.0006)
## tau (square root of estimated tau^2 value):             0
## I^2 (residual heterogeneity / unaccounted variability): 0.00%
## H^2 (unaccounted variability / sampling variability):  1.00
## R^2 (amount of heterogeneity accounted for):          100.00%
##
## Test for Residual Heterogeneity:
## QE(df = 2) = 0.0159, p-val = 0.9921
##
## Test of Moderators (coefficients 2:5):
## QM(df = 4) = 4.2689, p-val = 0.3708
##
## Model Results:
##
##                                estimate     se     zval    pval    ci.lb    ci.ub
## intrcpt                      0.0824  0.1836  0.4485  0.6538 -0.2775
## scaleEPQ (NE) and NEO-PI (O) -0.0854  0.1867 -0.4577  0.6471 -0.4513
## scaleIPIP                     -0.4220  0.2812 -1.5006  0.1335 -0.9732
## scaleMIDI                      -0.0504  0.1841 -0.2735  0.7845 -0.4113
## scaleNEO-FFI                  -0.0935  0.1950 -0.4794  0.6317 -0.4757
##                                ci.ub
## intrcpt                      0.4422
## scaleEPQ (NE) and NEO-PI (O) 0.2804
## scaleIPIP                     0.1292
## scaleMIDI                      0.3105
## scaleNEO-FFI                  0.2887
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Mixed-Effects Model (k = 7; tau^2 estimator: REML)
##
## logLik  deviance      AIC      BIC      AICc
## 4.5314  -9.0628  -1.0628  -3.5177  38.9372
##
## tau^2 (estimated amount of residual heterogeneity):      0.0000 (SE = 0.0006)
## tau (square root of estimated tau^2 value):             0.0007
## I^2 (residual heterogeneity / unaccounted variability): 0.03%
## H^2 (unaccounted variability / sampling variability):  1.00
## R^2 (amount of heterogeneity accounted for):          88.91%
##
## Test for Residual Heterogeneity:
## QE(df = 4) = 3.2760, p-val = 0.5127
##
## Test of Moderators (coefficients 2:3):
## QM(df = 2) = 1.0082, p-val = 0.6040
##
## Model Results:
##
##                                estimate     se     zval    pval    ci.lb    ci.ub
## intrcpt                      -0.0005  0.0619 -0.0082  0.9935 -0.1218  0.1208

```

```

## countrySweden -0.0026 0.0705 -0.0366 0.9708 -0.1407 0.1355
## countryU.S. 0.0309 0.0635 0.4866 0.6265 -0.0935 0.1553
##
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Mixed-Effects Model (k = 7; tau^2 estimator: REML)
##
##   logLik deviance      AIC      BIC      AICc
## 8.0439 -16.0878 -10.0878 -11.2595 13.9122
##
## tau^2 (estimated amount of residual heterogeneity): 0 (SE = 0.0006)
## tau (square root of estimated tau^2 value): 0
## I^2 (residual heterogeneity / unaccounted variability): 0.00%
## H^2 (unaccounted variability / sampling variability): 1.00
## R^2 (amount of heterogeneity accounted for): 100.00%
##
## Test for Residual Heterogeneity:
## QE(df = 5) = 1.5365, p-val = 0.9088
##
## Test of Moderators (coefficient 2):
## QM(df = 1) = 2.7483, p-val = 0.0974
##
## Model Results:
##
##           estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt  0.0728  0.0319  2.2841  0.0224  0.0103  0.1353  *
## mo       -0.0133  0.0080 -1.6578  0.0974 -0.0289  0.0024  .
##
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

```

Cancer, Table, Openness

Table S46: Linear Trajectories of Openness, Moderated by Cancer

coef	BASEII	EAS	HRS	LBC1936	MIDUS	WLSS
Fixed Effects						
Intercept	6.55	6.85	6.56	5.93	6.54	5.31
	0.05	0.12	0.01	0.05	0.01	0.02
	p < .001					
Age	0.13	-0.07	-0.17	0.00	-0.11	-0.11
	0.04	0.05	0.01	0.03	0.01	0.01
	p = 0.002	p = 0.093	p < .001	p = 0.465	p < .001	p < .001
cancer	0.45	0.40	0.07	0.21	0.07	0.06
	0.16	0.29	0.03	0.15	0.05	0.06
	p = 0.002	p = 0.081	p = 0.015	p = 0.076	p = 0.066	p = 0.166
Age x cancer	-0.47	-0.14	-0.01	-0.08	0.01	-0.04
	0.14	0.14	0.02	0.1	0.02	0.03
	p < .001	p = 0.154	p = 0.257	p = 0.202	p = 0.287	p = 0.113
Random Effects						
τ_{00}	0.87	1.34	0.65	0.84	0.73	0.66
τ_{01}	-0.18	-0.25	0.01	-0.07	0.01	-0.02
τ_{11}	0.17	0.10	0.02	0.08	0.00	0.03
σ^2	0.26	0.20	0.34	0.23	0.33	0.24
N_{people}	1,276	702	15,998	1,031	6,399	3,784
N_{obs}	3,818	1,634	34,895	3,005	12,942	8,348
LL	-4246	-1759	-43913	-3294	-16332	-9772

^a LL = Log Likelihood; ICC = Intra-Class Correlation; Age = age (centered at 60)

Cancer, Plot, Openness. Linear Trajectories of Openness, moderated by cancer.

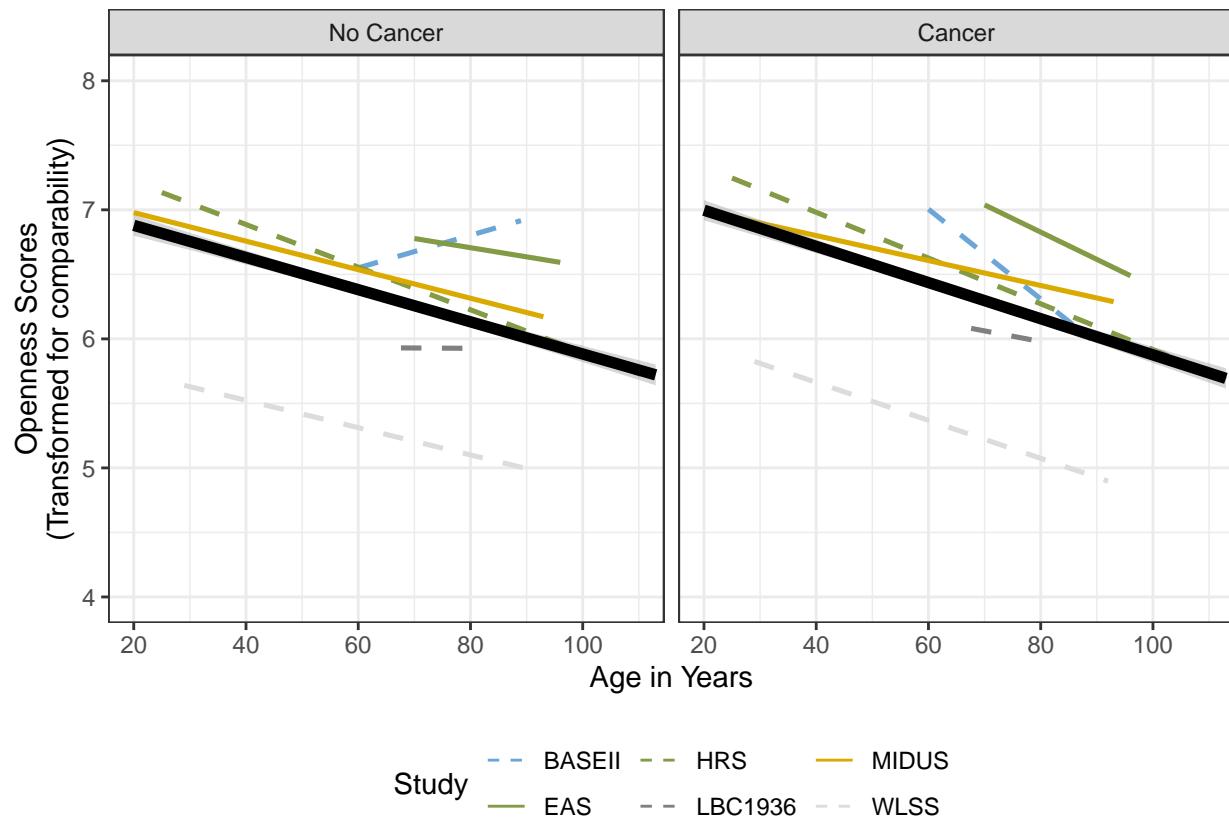


Figure S78: Cancer, Plot, Openness. Linear Trajectories of Openness, moderated by cancer. Black line indicates average trajectory weighted by N. At the individual study level, few showed evidence that having cancer was associated with a steeper decline in openness, and the meta-analytic average was not significant ($p = .244$).

Cancer, Plot, unweighted, Openness

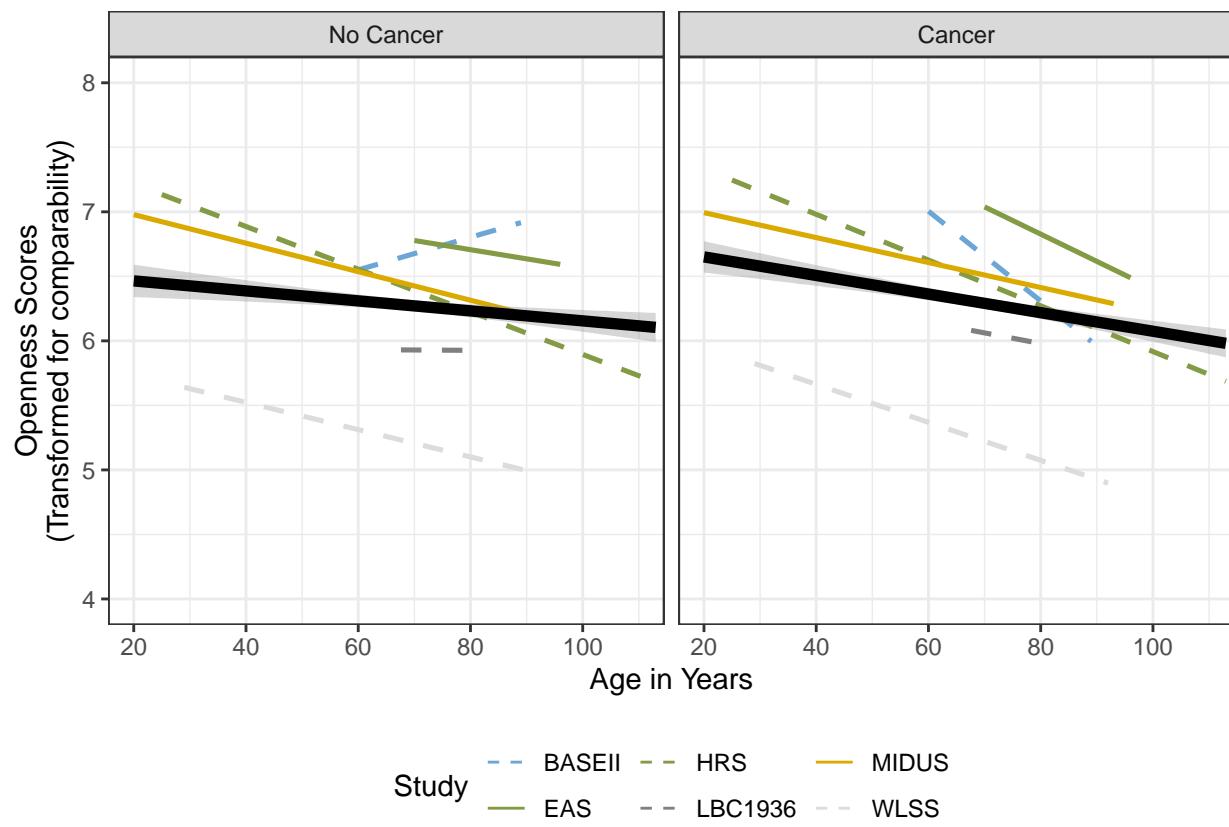


Figure S79: Cancer, Plot, unweighted, Openness

Cancer, Meta Analysis, Openness

```
##  
## Random-Effects Model (k = 6; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##    2.5094   -5.0189   -1.0189   -1.8000   4.9811  
##  
## tau^2 (estimated amount of total heterogeneity): 0 (SE = 0.0006)  
## tau (square root of estimated tau^2 value): 0  
## I^2 (total heterogeneity / total variability): 0.00%  
## H^2 (total variability / sampling variability): 1.00  
##  
## Test for Heterogeneity:  
## QE(df = 5) = 13.6390, p-val = 0.0181  
##  
## Model Results:  
##  
## estimate      se     zval     pval    ci.lb    ci.ub  
## -0.0155  0.0133  -1.1640  0.2444  -0.0416  0.0106  
##  
## ---  
## Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 6; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##    1.6716   -3.3432   2.6568   0.8157  26.6568  
##  
## tau^2 (estimated amount of residual heterogeneity): 0.0094 (SE = 0.0102)  
## tau (square root of estimated tau^2 value): 0.0968  
## I^2 (residual heterogeneity / unaccounted variability): 77.95%  
## H^2 (unaccounted variability / sampling variability): 4.54  
## R^2 (amount of heterogeneity accounted for): 0.00%  
##  
## Test for Residual Heterogeneity:  
## QE(df = 4) = 12.6339, p-val = 0.0132  
##  
## Test of Moderators (coefficient 2):  
## QM(df = 1) = 1.1490, p-val = 0.2838  
##  
## Model Results:  
##  
##          estimate      se     zval     pval    ci.lb    ci.ub  
## intrcpt  0.2325  0.2853  0.8148  0.4152  -0.3267  0.7916  
## age      -0.0050  0.0046 -1.0719  0.2838  -0.0140  0.0041  
##  
## ---  
## Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 6; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc
```

```

##    3.7019   -7.4039    2.5961   -3.9381   62.5961
##
## tau^2 (estimated amount of residual heterogeneity):      0 (SE = 0.0007)
## tau (square root of estimated tau^2 value):             0
## I^2 (residual heterogeneity / unaccounted variability): 0.00%
## H^2 (unaccounted variability / sampling variability):  1.00
## R^2 (amount of heterogeneity accounted for):          0.00%
##
## Test for Residual Heterogeneity:
## QE(df = 2) = 0.8374, p-val = 0.6579
##
## Test of Moderators (coefficients 2:4):
## QM(df = 3) = 12.8015, p-val = 0.0051
##
## Model Results:
##
##           estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt     -0.0414  0.0343  -1.2093  0.2266  -0.1086  0.0257
## scaleBFI-S   -0.4327  0.1466  -2.9507  0.0032  -0.7201  -0.1453  **
## scaleIPIP    -0.0579  0.0856  -0.6760  0.4990  -0.2257  0.1099
## scaleMIDI     0.0386  0.0373   1.0360  0.3002  -0.0345  0.1118
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Mixed-Effects Model (k = 6; tau^2 estimator: REML)
##
## logLik  deviance      AIC      BIC      AICc
## 3.3208   -6.6416    3.3584   -3.1758   63.3584
##
## tau^2 (estimated amount of residual heterogeneity):      0.0000 (SE = 0.0007)
## tau (square root of estimated tau^2 value):             0.0018
## I^2 (residual heterogeneity / unaccounted variability): 0.36%
## H^2 (unaccounted variability / sampling variability):  1.00
## R^2 (amount of heterogeneity accounted for):          0.00%
##
## Test for Residual Heterogeneity:
## QE(df = 2) = 1.6907, p-val = 0.4294
##
## Test of Moderators (coefficients 2:4):
## QM(df = 3) = 11.9414, p-val = 0.0076
##
## Model Results:
##
##           estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt     -0.0414  0.0343  -1.2076  0.2272  -0.1087  0.0258
## countryGermany   -0.4327  0.1467  -2.9503  0.0032  -0.7202  -0.1453  **
## countryU.S.       0.0371  0.0373   0.9936  0.3204  -0.0361  0.1103
## countryUK        -0.0383  0.1015  -0.3770  0.7062  -0.2371  0.1606
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##

```

```

## Mixed-Effects Model (k = 6; tau^2 estimator: REML)
##
##    logLik  deviance      AIC      BIC      AICc
##  2.0660   -4.1319    1.8681   0.0269  25.8681
##
## tau^2 (estimated amount of residual heterogeneity):     0.0000 (SE = 0.0006)
## tau (square root of estimated tau^2 value):            0.0006
## I^2 (residual heterogeneity / unaccounted variability): 0.03%
## H^2 (unaccounted variability / sampling variability):  1.00
## R^2 (amount of heterogeneity accounted for):          0.00%
##
## Test for Residual Heterogeneity:
## QE(df = 4) = 12.1593, p-val = 0.0162
##
## Test of Moderators (coefficient 2):
## QM(df = 1) = 1.4796, p-val = 0.2238
##
## Model Results:
##
##           estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt    0.0250  0.0359   0.6976  0.4854  -0.0453  0.0953
## mo        -0.0129  0.0106  -1.2164  0.2238  -0.0336  0.0079
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

```

Diabetes, Table, Openness

Table S47: Linear Trajectories of Openness, Moderated by Diabetes

coef	BASE	BASEII	EAS	HRS	ILSE	LBC1936	MIDUS	SATSA	SLS	WLSS
Fixed Effects										
Intercept	7.41	6.59	6.96	6.59	5.43	5.96	6.54	4.95	6.11	5.32
Age	0.12 p < .001	0.05 p < .001	0.12 p < .001	0.01 p < .001	0.05 p < .001	0.05 p < .001	0.01 p < .001	0.02 p < .001	0.03 p < .001	0.01 p < .001
diabetes	-0.25 p < .001	0.10 p = 0.013	-0.10 p = 0.032	-0.16 p < .001	-0.06 p = 0.062	0.00 p = 0.488	-0.11 p < .001	-0.08 p < .001	-0.15 p < .001	-0.11 p < .001
Age x diabetes	0.05 p < .001	0.04 p = 0.013	0.05 p = 0.032	0.01 p < .001	0.04 p = 0.062	0.03 p = 0.488	0.01 p < .001	0.01 p < .001	0.01 p < .001	0.01 p < .001
Age x diabetes	0.39 p = 0.085	0.11 p = 0.266	-0.09 p = 0.377	-0.14 p < .001	-0.09 p = 0.27	0.04 p = 0.405	-0.07 p = 0.116	0.01 p = 0.467	-0.23 p = 0.016	-0.12 p = 0.042
Age x diabetes	0.28 p = 0.085	0.17 p = 0.266	0.29 p = 0.377	0.03 p < .001	0.15 p = 0.27	0.18 p = 0.405	0.06 p = 0.116	0.14 p = 0.467	0.11 p = 0.016	0.07 p = 0.042
Age x diabetes	-0.16 p = 0.077	-0.26 p = 0.048	-0.04 p = 0.386	0.00 p = 0.47	0.06 p = 0.337	-0.17 p = 0.064	0.06 p = 0.029	-0.08 p = 0.161	0.01 p = 0.456	-0.05 p = 0.12
Random Effects										
τ_{00}	0.46	0.88	1.38	0.64	0.59	0.85	0.74	0.72	0.80	0.66
τ_{01}	-0.03	-0.19	-0.27	0.01	0.00	-0.07	0.02	0.01	-0.02	-0.02
τ_{11}	0.04	0.18	0.11	0.02	0.02	0.08	0.00	0.04	0.01	0.04
σ^2	0.30	0.26	0.20	0.34	0.37	0.23	0.33	0.32	0.11	0.24
N_{people}	516	1,276	702	16,017	487	1,031	6,252	1,747	1,494	3,780
N_{obs}	983	3,818	1,639	34,934	1,221	3,005	12,738	6,989	3,932	8,343
LL	-1191	-4249	-1760	-43937	-1517	-3293	-16027	-8038	-3418	-9770

^a LL = Log Likelihood; Age = age (centered at 60)

Diabetes, Plot, Openness. Linear Trajectories of Openness, moderated by diabetes.

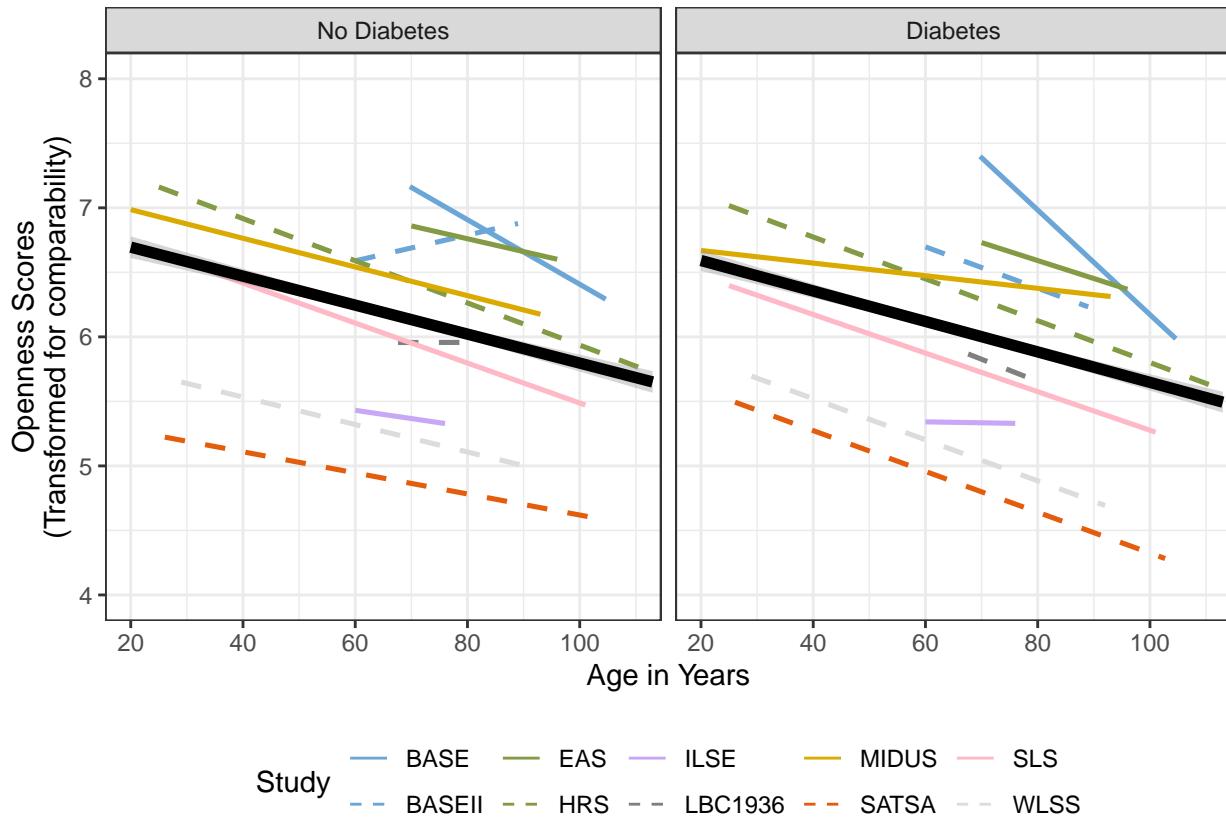


Figure S80: Diabetes, Plot, Openness. Linear Trajectories of Openness, moderated by diabetes. Black line indicates average trajectory weighted by N. At the individual study level, none showed evidence that having diabetes was associated with a steeper decline in openness, and the meta-analytic average was not significant ($p = .465$).

Diabetes, Plot, unweighted, Openness

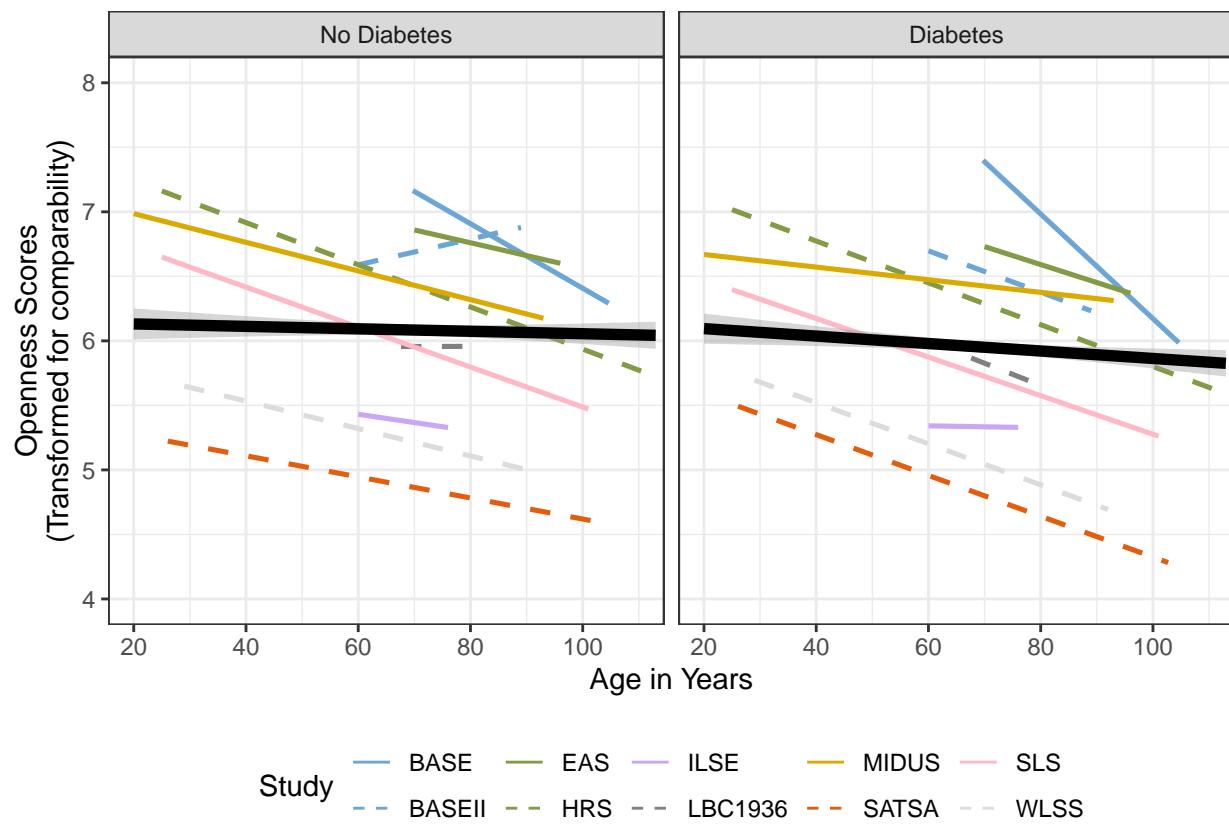


Figure S81: Diabetes, Plot, unweighted, Openness

Diabetes, Meta Analysis, Openness

```
##  
## Random-Effects Model (k = 10; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##    8.6746 -17.3493 -13.3493 -12.9548 -11.3493  
##  
## tau^2 (estimated amount of total heterogeneity): 0.0015 (SE = 0.0021)  
## tau (square root of estimated tau^2 value):       0.0389  
## I^2 (total heterogeneity / total variability):   36.93%  
## H^2 (total variability / sampling variability): 1.59  
##  
## Test for Heterogeneity:  
## Q(df = 9) = 13.3287, p-val = 0.1483  
##  
## Model Results:  
##  
## estimate      se     zval    pval    ci.lb    ci.ub  
## -0.0168  0.0230 -0.7309  0.4649 -0.0618  0.0282  
##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 10; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##    8.2059 -16.4118 -10.4118 -10.1735 -4.4118  
##  
## tau^2 (estimated amount of residual heterogeneity):      0.0017 (SE = 0.0027)  
## tau (square root of estimated tau^2 value):            0.0418  
## I^2 (residual heterogeneity / unaccounted variability): 32.21%  
## H^2 (unaccounted variability / sampling variability): 1.48  
## R^2 (amount of heterogeneity accounted for):          0.00%  
##  
## Test for Residual Heterogeneity:  
## QE(df = 8) = 10.8388, p-val = 0.2110  
##  
## Test of Moderators (coefficient 2):  
## QM(df = 1) = 2.3250, p-val = 0.1273  
##  
## Model Results:  
##  
##           estimate      se     zval    pval    ci.lb    ci.ub  
## intrcpt    0.2027  0.1469   1.3799  0.1676 -0.0852  0.4906  
## age       -0.0036  0.0024  -1.5248  0.1273 -0.0082  0.0010  
##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 10; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc
```

```

##    3.0360   -6.0721    9.9279    2.7168  153.9279
##
## tau^2 (estimated amount of residual heterogeneity):      0.0012 (SE = 0.0026)
## tau (square root of estimated tau^2 value):             0.0341
## I^2 (residual heterogeneity / unaccounted variability): 38.43%
## H^2 (unaccounted variability / sampling variability):  1.62
## R^2 (amount of heterogeneity accounted for):          22.83%
##
## Test for Residual Heterogeneity:
## QE(df = 3) = 4.7992, p-val = 0.1871
##
## Test of Moderators (coefficients 2:7):
## QM(df = 6) = 6.9381, p-val = 0.3266
##
## Model Results:
##
##                                estimate     se     zval    pval    ci.lb    ci.ub
## intrcpt                  -0.0528  0.0565  -0.9356  0.3495  -0.1635
## scaleBFI-S                -0.2073  0.1696  -1.2219  0.2218  -0.5397
## scaleEPQ (NE) and NEO-PI (O) -0.0236  0.1014  -0.2327  0.8160  -0.2224
## scaleIPIP                 -0.0647  0.1068  -0.6056  0.5448  -0.2740
## scaleMIDI                  0.0779  0.0638   1.2223  0.2216  -0.0470
## scaleNEO-FFI                -0.0169  0.1046  -0.1612  0.8719  -0.2218
## scaleNEO-PI-R                0.0583  0.0827   0.7047  0.4810  -0.1038
##
##                                ci.ub
## intrcpt                   0.0578
## scaleBFI-S                 0.1252
## scaleEPQ (NE) and NEO-PI (O) 0.1752
## scaleIPIP                  0.1446
## scaleMIDI                   0.2029
## scaleNEO-FFI                 0.1881
## scaleNEO-PI-R                 0.2204
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Mixed-Effects Model (k = 10; tau^2 estimator: REML)
##
## logLik  deviance      AIC      BIC      AICc
## 5.7266  -11.4531    0.5469  -1.7965  84.5469
##
## tau^2 (estimated amount of residual heterogeneity):      0.0004 (SE = 0.0014)
## tau (square root of estimated tau^2 value):             0.0209
## I^2 (residual heterogeneity / unaccounted variability): 16.66%
## H^2 (unaccounted variability / sampling variability):  1.20
## R^2 (amount of heterogeneity accounted for):          71.15%
##
## Test for Residual Heterogeneity:
## QE(df = 5) = 5.5450, p-val = 0.3530
##
## Test of Moderators (coefficients 2:5):
## QM(df = 4) = 7.1380, p-val = 0.1288
##

```

```

## Model Results:
##
##          estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt   -0.0528  0.0496 -1.0655  0.2867 -0.1500  0.0443
## countryGermany -0.0611  0.0902 -0.6775  0.4981 -0.2379  0.1157
## countrySweden   -0.0236  0.0940 -0.2512  0.8016 -0.2078  0.1606
## countryU.S.      0.0702  0.0535  1.3111  0.1898 -0.0347  0.1751
## countryUK       -0.1194  0.1255 -0.9521  0.3410 -0.3653  0.1264
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Mixed-Effects Model (k = 10; tau^2 estimator: REML)
##
##    logLik  deviance      AIC      BIC      AICc
##    7.8561 -15.7122 -9.7122 -9.4739 -3.7122
##
## tau^2 (estimated amount of residual heterogeneity):      0.0011 (SE = 0.0018)
## tau (square root of estimated tau^2 value):             0.0325
## I^2 (residual heterogeneity / unaccounted variability): 30.10%
## H^2 (unaccounted variability / sampling variability):  1.43
## R^2 (amount of heterogeneity accounted for):           30.18%
##
## Test for Residual Heterogeneity:
## QE(df = 8) = 12.0432, p-val = 0.1493
##
## Test of Moderators (coefficient 2):
## QM(df = 1) = 0.8228, p-val = 0.3644
##
## Model Results:
##
##          estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt   0.0208  0.0431  0.4826  0.6294 -0.0636  0.1052
## mo        -0.0090  0.0099 -0.9071  0.3644 -0.0285  0.0105
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

```

Hypertension, Table, Openness

Table S48: Linear Trajectories of Openness, Moderated by Hypertension

coef	BASE	BASEII	EAS	HRS	ILSE	LBC1936	MIDUS	SATSA	SLS	SOEP	WLSG	WLSS
Fixed Effects												
Intercept	7.50	6.65	7.03	6.62	5.41	5.99	6.55	4.88	6.12	5.81	5.40	5.34
Age	0.15 p < .001	0.06 p < .001	0.17 p < .001	0.01 p < .001	0.06 p < .001	0.06 p < .001	0.01 p < .001	0.07 p < .001	0.03 p < .001	0.01 p < .001	0.01 p < .001	0.02 p < .001
hbp	-0.28 p < .001	0.09 p =	-0.14 p =	-0.15 p < .001	-0.05 p =	-0.02 p =	-0.11 p < .001	-0.02 p =	-0.15 p < .001	-0.03 p < .001	-0.12 p < .001	-0.11 p < .001
Age x hbp	0.06 p < .001	0.05 p =	0.08 p =	0.01 p < .001	0.05 p =	0.04 p =	0.01 p < .001	0.03 p =	0.01 p < .001	0 p < .001	0.01 p < .001	0.01 p < .001
Random Effects												
τ_{00}	0.48	0.86	1.41	0.64	0.60	0.84	0.73	0.72	0.80	0.60	0.70	0.66
τ_{01}	-0.03	-0.18	-0.28	0.01	-0.01	-0.07	0.02	0.01	-0.02	0.03	-0.04	-0.02
σ^2	0.05 0.30 516	0.17 0.26 1,276	0.12 0.20 700	0.02 0.34 16,017	0.02 0.37 486	0.08 0.23 1,031	0.00 0.33 6,249	0.04 0.31 1,771	0.01 0.11 1,497	0.01 0.40 33,601	0.05 0.23 6,829	0.04 0.24 3,796
N_{people}	983	3,818	1,632	34,941	1,218	3,005	12,725	7,053	3,935	74,004	16,536	8,373
N_{obs}	LL	-1192	-4247	-1751	-43947	-1518	-3295	-16010	-8104	-3422	-94081	-19049

^a LL = Log Likelihood; Age = age (centered at 60)

Hypertension, Plot, Openness. Linear Trajectories of Openness, moderated by hypertension.

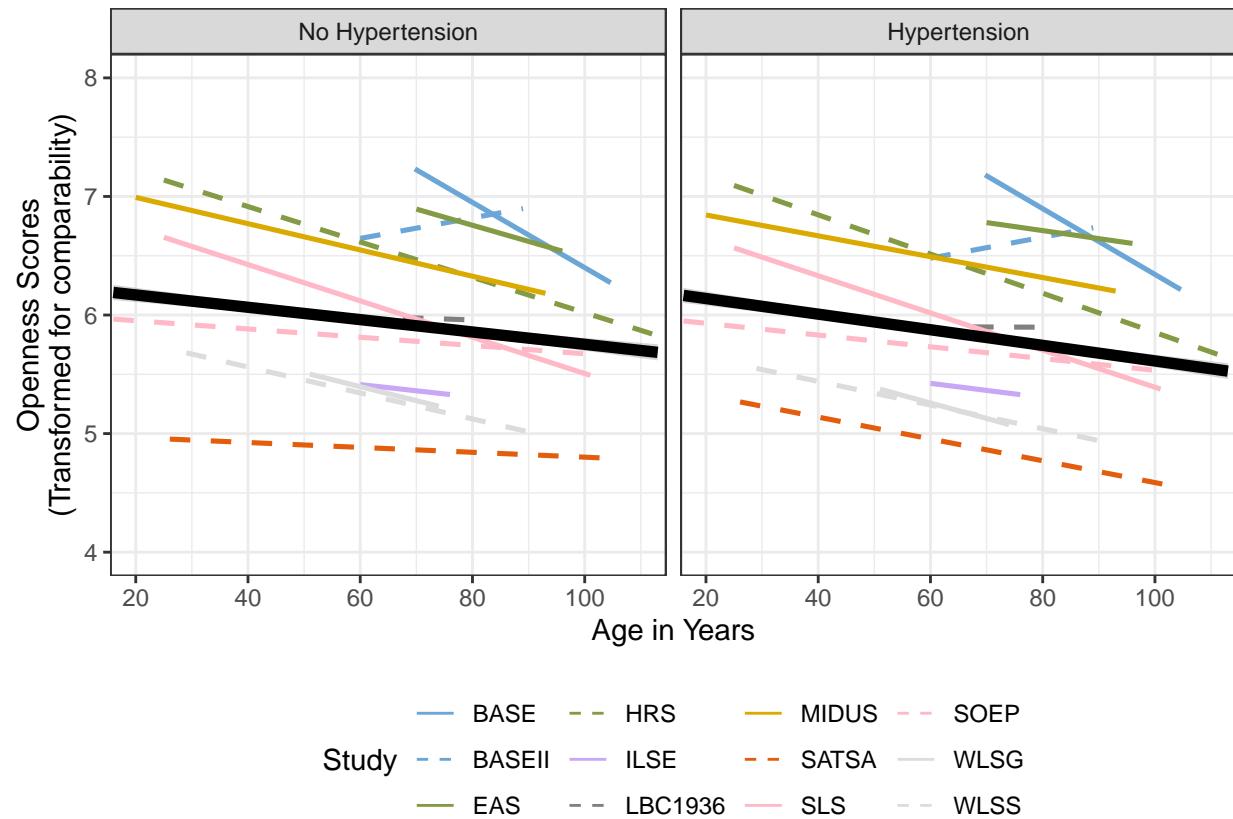


Figure S82: Hypertension, Plot, Openness. Linear Trajectories of Openness, moderated by hypertension. Black line indicates average trajectory weighted by N. At the individual study level, none showed evidence that having hypertension was associated with a steeper decline in openness, and the meta-analytic average was not significant ($p = .08$).

Hypertension, Plot, unweighted, Openness

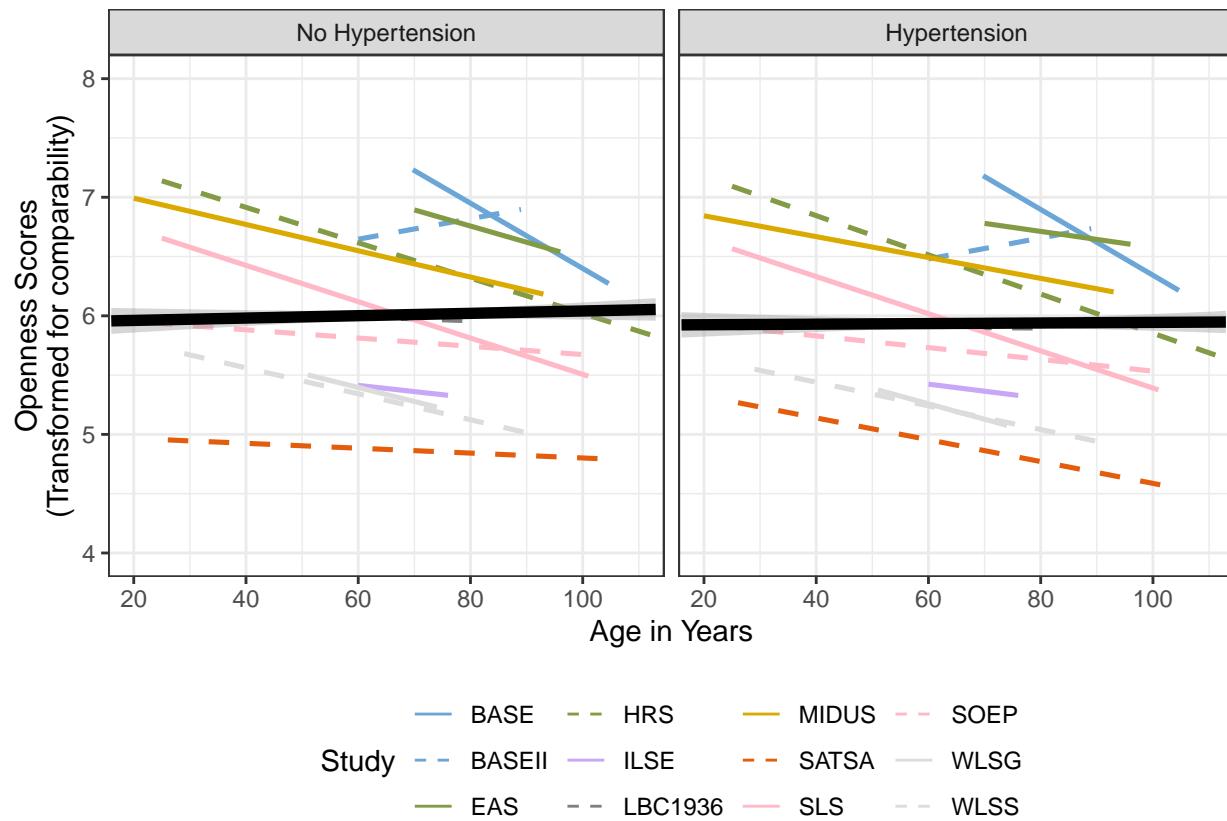


Figure S83: Hypertension, Plot, unweighted, Openness

Hypertension, Meta Analysis, Openness

```
##  
## Random-Effects Model (k = 12; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##  22.0431  -44.0861  -40.0861  -39.2903  -38.5861  
##  
## tau^2 (estimated amount of total heterogeneity): 0 (SE = 0.0001)  
## tau (square root of estimated tau^2 value): 0  
## I^2 (total heterogeneity / total variability): 0.00%  
## H^2 (total variability / sampling variability): 1.00  
##  
## Test for Heterogeneity:  
## Q(df = 11) = 9.6593, p-val = 0.5613  
##  
## Model Results:  
##  
## estimate      se     zval    pval    ci.lb    ci.ub  
## -0.0096  0.0055  -1.7488  0.0803  -0.0203  0.0012 .  
##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 12; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##  19.5077  -39.0154  -33.0154  -32.1077  -29.0154  
##  
## tau^2 (estimated amount of residual heterogeneity): 0.0001 (SE = 0.0002)  
## tau (square root of estimated tau^2 value): 0.0091  
## I^2 (residual heterogeneity / unaccounted variability): 13.23%  
## H^2 (unaccounted variability / sampling variability): 1.15  
## R^2 (amount of heterogeneity accounted for): 0.00%  
##  
## Test for Residual Heterogeneity:  
## QE(df = 10) = 9.3703, p-val = 0.4974  
##  
## Test of Moderators (coefficient 2):  
## QM(df = 1) = 0.3292, p-val = 0.5661  
##  
## Model Results:  
##  
##          estimate      se     zval    pval    ci.lb    ci.ub  
## intrcpt   0.0160  0.0430  0.3712  0.7105  -0.0684  0.1003  
## age       -0.0004  0.0008 -0.5738  0.5661  -0.0019  0.0011  
##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 12; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc
```

```

##    9.5593 -19.1186 -3.1186 -6.2431 140.8814
##
## tau^2 (estimated amount of residual heterogeneity):      0.0002 (SE = 0.0005)
## tau (square root of estimated tau^2 value):             0.0148
## I^2 (residual heterogeneity / unaccounted variability): 26.12%
## H^2 (unaccounted variability / sampling variability):   1.35
## R^2 (amount of heterogeneity accounted for):            0.00%
##
## Test for Residual Heterogeneity:
## QE(df = 5) = 4.2948, p-val = 0.5078
##
## Test of Moderators (coefficients 2:7):
## QM(df = 6) = 4.3111, p-val = 0.6347
##
## Model Results:
##
##                                estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt                  -0.0030  0.0161  -0.1852  0.8531  -0.0345
## scaleBFI-S                 -0.0112  0.0233  -0.4807  0.6308  -0.0568
## scaleEPQ (NE) and NEO-PI (O) -0.0684  0.0387  -1.7686  0.0770  -0.1443
## scaleIPIP                   0.0319  0.0549   0.5822  0.5604  -0.0756
## scaleMIDI                   0.0033  0.0219   0.1490  0.8816  -0.0396
## scaleNEO-FFI                 -0.0017  0.0608  -0.0279  0.9777  -0.1208
## scaleNEO-PI-R                 -0.0005  0.0341  -0.0157  0.9874  -0.0674
##
##                                ci.ub
## intrcpt                     0.0285
## scaleBFI-S                   0.0344
## scaleEPQ (NE) and NEO-PI (O) 0.0074 .
## scaleIPIP                     0.1395
## scaleMIDI                     0.0461
## scaleNEO-FFI                   0.1174
## scaleNEO-PI-R                   0.0663
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Mixed-Effects Model (k = 12; tau^2 estimator: REML)
##
## logLik  deviance      AIC      BIC      AICc
## 13.9675 -27.9350 -15.9350 -16.2595  68.0650
##
## tau^2 (estimated amount of residual heterogeneity):      0.0001 (SE = 0.0003)
## tau (square root of estimated tau^2 value):             0.0109
## I^2 (residual heterogeneity / unaccounted variability): 15.12%
## H^2 (unaccounted variability / sampling variability):   1.18
## R^2 (amount of heterogeneity accounted for):            0.00%
##
## Test for Residual Heterogeneity:
## QE(df = 7) = 4.6098, p-val = 0.7075
##
## Test of Moderators (coefficients 2:5):
## QM(df = 4) = 4.4095, p-val = 0.3534
##

```

```

## Model Results:
##
##          estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt   -0.0034  0.0144  -0.2356  0.8138  -0.0316  0.0248
## countryGermany -0.0104  0.0196  -0.5321  0.5946  -0.0489  0.0280
## countrySweden   -0.0680  0.0367  -1.8540  0.0637  -0.1399  0.0039 .
## countryU.S.      0.0032  0.0185   0.1735  0.8622  -0.0331  0.0396
## countryUK        0.0180  0.0621   0.2895  0.7722  -0.1037  0.1397
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Mixed-Effects Model (k = 12; tau^2 estimator: REML)
##
##    logLik  deviance      AIC      BIC      AICc
##  20.7520 -41.5040 -35.5040 -34.5963 -31.5040
##
## tau^2 (estimated amount of residual heterogeneity):      0 (SE = 0.0001)
## tau (square root of estimated tau^2 value):             0
## I^2 (residual heterogeneity / unaccounted variability): 0.00%
## H^2 (unaccounted variability / sampling variability):  1.00
## R^2 (amount of heterogeneity accounted for):           0.00%
##
## Test for Residual Heterogeneity:
## QE(df = 10) = 8.6127, p-val = 0.5692
##
## Test of Moderators (coefficient 2):
## QM(df = 1) = 1.0466, p-val = 0.3063
##
## Model Results:
##
##          estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt   0.0102  0.0201   0.5065  0.6125  -0.0292  0.0495
## mo       -0.0054  0.0053  -1.0230  0.3063  -0.0159  0.0050
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

```

Baseline Age, Table, Openness

Table S49: Linear Trajectories of Openness, Moderated by Baseline Age

coef	HRS	MIDUS	SATSA	SLS	WLSS
Fixed Effects					
Intercept	6.51	6.53	5.05	6.23	5.30
	0.01	0.02	0.03	0.04	0.02
	p < .001	p < .001	p < .001	p < .001	p < .001
Age	-0.08	-0.10	-0.03	-0.09	-0.10
	0.02	0.01	0.01	0.02	0.01
	p < .001	p < .001	p = 0.01	p < .001	p < .001
b.age	0.17	0.21	-0.06	-0.16	0.02
	0.02	0.04	0.05	0.06	0.05
	p < .001	p < .001	p = 0.118	p = 0.004	p = 0.343
Age x b.age	-0.14	-0.13	-0.16	-0.09	-0.06
	0.02	0.02	0.02	0.03	0.03
	p < .001	p < .001	p < .001	p < .001	p = 0.017
Random Effects					
τ_{00}	0.64	0.73	0.71	0.80	0.65
τ_{01}	0.01	0.02	0.00	-0.02	-0.02
τ_{11}	0.01	0.00	0.04	0.01	0.04
σ^2	0.34	0.33	0.31	0.11	0.24
N_{people}	16,030	6,404	1,788	1,541	4,063
N_{obs}	34,962	12,950	7,102	4,023	8,700
LL	-43957	-16322	-8136	-3494	-10214

^a LL = Log Likelihood; Age = age (centered at 60)

Baseline Age, Plot, Openness. Linear Trajectories of Openness (In the main manuscript, this is Figure 9, in color).

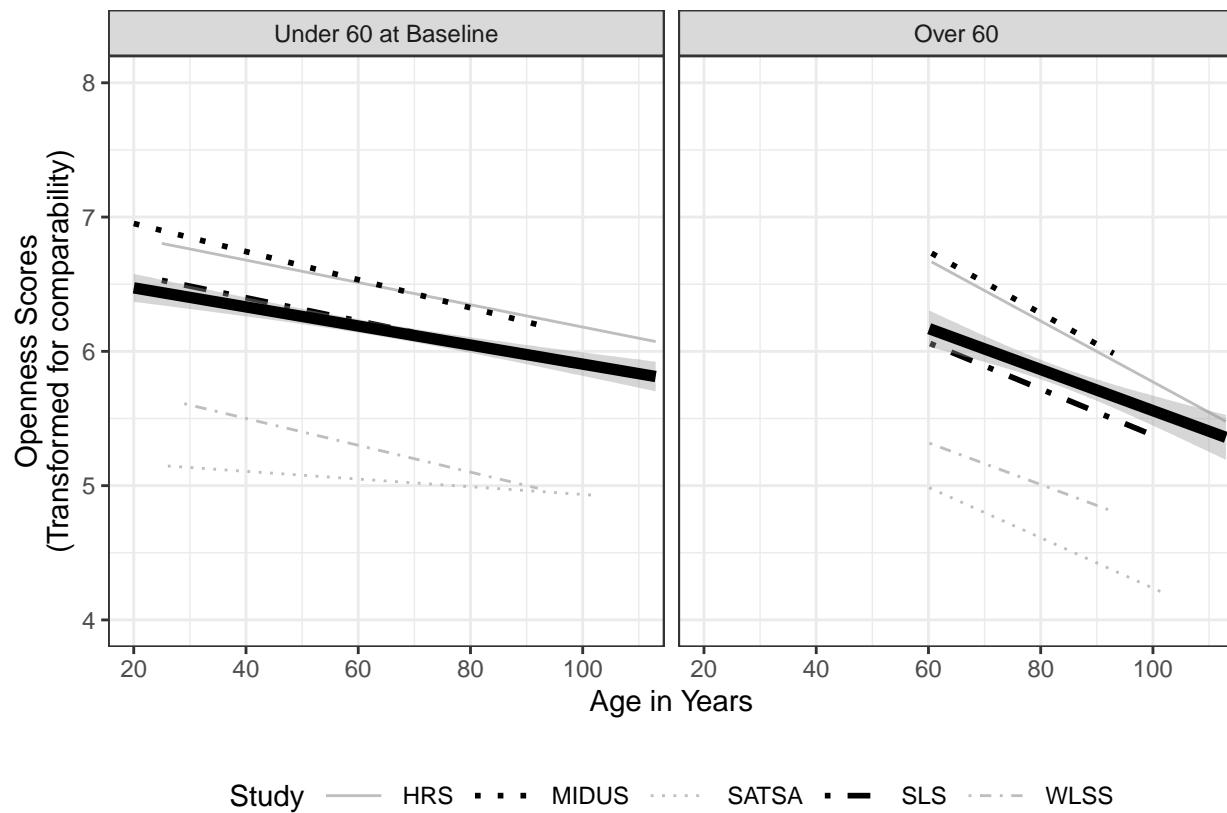


Figure S84: Baseline Age, Plot, Openness. Linear Trajectories of Openness, moderated by baseline age. Black line indicates average trajectory weighted by N. At the individual study level, most showed evidence that being over 60 at baseline was associated with a steeper decline in openness, and the meta-analytic average was not significant ($p < .001$).

Baseline Age Plot, unweighted, Openness

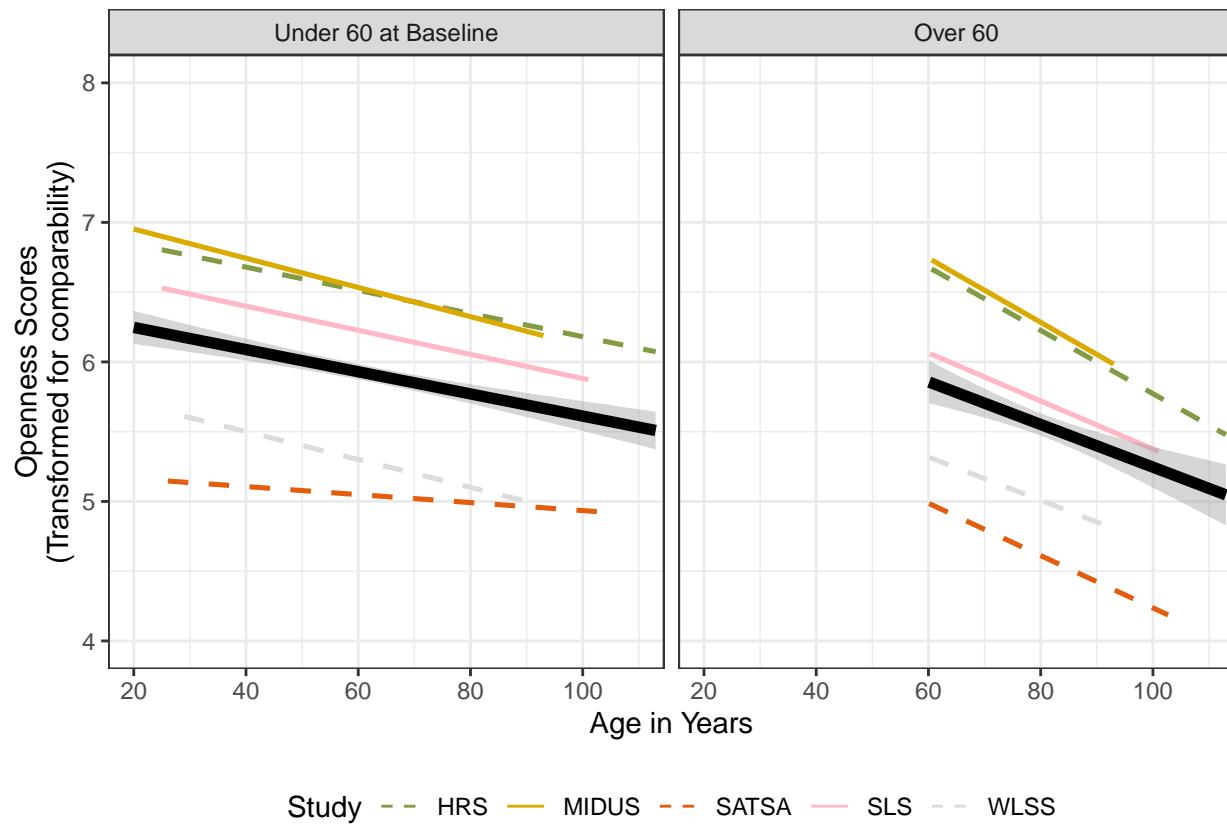


Figure S85: Baseline Age Plot, unweighted, Openness

Baseline Age, Meta Analysis, Openness

```
##  
## Random-Effects Model (k = 5; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##    7.0078  -14.0156  -10.0156  -11.2430   1.9844  
##  
## tau^2 (estimated amount of total heterogeneity): 0.0011 (SE = 0.0012)  
## tau (square root of estimated tau^2 value):       0.0336  
## I^2 (total heterogeneity / total variability):   67.10%  
## H^2 (total variability / sampling variability): 3.04  
##  
## Test for Heterogeneity:  
## Q(df = 4) = 11.6809, p-val = 0.0199  
##  
## Model Results:  
##  
## estimate      se     zval    pval    ci.lb    ci.ub  
## -0.1157  0.0184  -6.2732 <.0001  -0.1519  -0.0796 ***  
##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 5; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##    4.9171  -9.8342  -3.8342  -6.5383  20.1658  
##  
## tau^2 (estimated amount of residual heterogeneity):      0.0016 (SE = 0.0018)  
## tau (square root of estimated tau^2 value):            0.0395  
## I^2 (residual heterogeneity / unaccounted variability): 72.11%  
## H^2 (unaccounted variability / sampling variability): 3.59  
## R^2 (amount of heterogeneity accounted for):          0.00%  
##  
## Test for Residual Heterogeneity:  
## QE(df = 3) = 10.4596, p-val = 0.0150  
##  
## Test of Moderators (coefficient 2):  
## QM(df = 1) = 0.2650, p-val = 0.6067  
##  
## Model Results:  
##  
##           estimate      se     zval    pval    ci.lb    ci.ub  
## intrcpt  -0.0353  0.1569  -0.2247  0.8222  -0.3428  0.2723  
## age       -0.0014  0.0027  -0.5148  0.6067  -0.0066  0.0038  
##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 5; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc
```

```

##    4.2775   -8.5550   -0.5550   -5.7825   39.4450
##
## tau^2 (estimated amount of residual heterogeneity):      0.0002 (SE = 0.0007)
## tau (square root of estimated tau^2 value):             0.0152
## I^2 (residual heterogeneity / unaccounted variability): 31.23%
## H^2 (unaccounted variability / sampling variability):  1.45
## R^2 (amount of heterogeneity accounted for):          79.56%
##
## Test for Residual Heterogeneity:
## QE(df = 2) = 3.0250, p-val = 0.2204
##
## Test of Moderators (coefficients 2:3):
## QM(df = 2) = 6.3295, p-val = 0.0422
##
## Model Results:
##
##           estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt      -0.0554  0.0303  -1.8300  0.0672  -0.1147  0.0039 .
## countrySweden -0.1035  0.0421  -2.4584  0.0140  -0.1860 -0.0210 *
## countryU.S.    -0.0675  0.0341  -1.9817  0.0475  -0.1343 -0.0007 *
## 
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Mixed-Effects Model (k = 5; tau^2 estimator: REML)
##
## logLik  deviance      AIC      BIC      AICc
## 2.7688   -5.5375   4.4625   -5.5375  64.4625
##
## tau^2 (estimated amount of residual heterogeneity):      0 (SE = 0.0006)
## tau (square root of estimated tau^2 value):             0
## I^2 (residual heterogeneity / unaccounted variability): 0.00%
## H^2 (unaccounted variability / sampling variability):  1.00
## R^2 (amount of heterogeneity accounted for):          100.00%
##
## Test for Residual Heterogeneity:
## QE(df = 1) = 0.3818, p-val = 0.5367
##
## Test of Moderators (coefficients 2:4):
## QM(df = 3) = 11.2992, p-val = 0.0102
##
## Model Results:
##
##           estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt      -0.0554  0.0262  -2.1165  0.0343  -0.1067
## scaleEPQ (NE) and NEO-PI (O) -0.1035  0.0362  -2.8597  0.0042  -0.1744
## scaleMIDI      -0.0805  0.0299  -2.6907  0.0071  -0.1391
## scaleNEO-PI-R -0.0303  0.0378  -0.8033  0.4218  -0.1044
## 
##           ci.ub
## intrcpt      -0.0041  *
## scaleEPQ (NE) and NEO-PI (O) -0.0326  **
## scaleMIDI      -0.0219  **
## scaleNEO-PI-R  0.0437

```

```

##
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

##
## Mixed-Effects Model (k = 5; tau^2 estimator: REML)
##
##   logLik  deviance      AIC      BIC      AICc
##   5.2351 -10.4702 -4.4702 -7.1743 19.5298
##
##   ## tau^2 (estimated amount of residual heterogeneity): 0.0012 (SE = 0.0015)
##   ## tau (square root of estimated tau^2 value): 0.0350
##   ## I^2 (residual heterogeneity / unaccounted variability): 69.09%
##   ## H^2 (unaccounted variability / sampling variability): 3.24
##   ## R^2 (amount of heterogeneity accounted for): 0.00%
##   ##
##   ## Test for Residual Heterogeneity:
##   ## QE(df = 3) = 9.6257, p-val = 0.0220
##   ##
##   ## Test of Moderators (coefficient 2):
##   ## QM(df = 1) = 0.9318, p-val = 0.3344
##   ##
##   ## Model Results:
##   ##
##   ##           estimate      se     zval    pval    ci.lb    ci.ub
##   ## intrcpt   -0.0686  0.0523 -1.3112  0.1898 -0.1710  0.0339
##   ## mo        -0.0119  0.0123 -0.9653  0.3344 -0.0360  0.0122
##   ##
##   ## ---
##   ## Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

```

Conscientiousness

Intercept Only Model, Conscientiousness

Table S50: Conscientiousness, Intercept Only Models

coef	BASEII	EAS	HRS	ILSE	ILSE.Y	LBC1936	MIDUS	SLS	SOEP	WLSG	WLSS
Fixed Effects											
	7.67	7.08	7.79	7.33	7.30	7.00	8.08	6.26	8.09	7.71	7.56
Intercept	0.03	0.04	0.01	0.04	0.04	0.03	0.01	0.02	0	0.01	0.01
	p < .001										
Random Effects											
τ_{00}	0.71	0.84	0.67	0.68	0.68	0.78	0.63	0.84	0.53	0.65	0.61
σ^2	0.31	0.29	0.41	0.33	0.33	0.25	0.41	0.15	0.47	0.39	0.35
ICC	0.70	0.74	0.62	0.67	0.67	0.76	0.61	0.84	0.53	0.63	0.63
N_{people}	1,276	713	16,047	497	500	1,032	6,411	1,541	33,612	8,013	4,992
N_{obs}	3,816	1,667	35,019	1,238	1,266	3,014	12,996	4,023	74,026	18,629	10,730
LL	-4435	-2016	-45729	-1518	-1548	-3332	-16976	-3947	-96931	-23848	-13406

^a LL = Log Likelihood; ICC = Intra-Class Correlation

Intercept Only Meta Analysis of ICC's, Conscientiousness

```
##  
## Random-Effects Model (k = 11; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##  10.2892 -20.5784 -16.5784 -15.9732 -14.8641  
##  
## tau^2 (estimated amount of total heterogeneity): 0.0074 (SE = 0.0034)  
## tau (square root of estimated tau^2 value):       0.0863  
## I^2 (total heterogeneity / total variability):   99.53%  
## H^2 (total variability / sampling variability): 212.31  
##  
## Test for Heterogeneity:  
## Q(df = 10) = 4013.7986, p-val < .0001  
##  
## Model Results:  
##  
## estimate      se     zval    pval   ci.lb   ci.ub  
##  0.6726  0.0262  25.6495 <.0001  0.6212  0.7240  ***  
##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 11; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##  10.7332 -21.4663 -15.4663 -14.8747 -10.6663  
##  
## tau^2 (estimated amount of residual heterogeneity):      0.0053 (SE = 0.0026)  
## tau (square root of estimated tau^2 value):            0.0729  
## I^2 (residual heterogeneity / unaccounted variability): 99.25%  
## H^2 (unaccounted variability / sampling variability): 133.69  
## R^2 (amount of heterogeneity accounted for):          28.65%  
##  
## Test for Residual Heterogeneity:  
## QE(df = 9) = 2046.7231, p-val < .0001  
##  
## Test of Moderators (coefficient 2):  
## QM(df = 1) = 4.8877, p-val = 0.0270  
##  
## Model Results:  
##  
##           estimate      se     zval    pval   ci.lb   ci.ub  
## intrcpt    0.3945  0.1277  3.0899  0.0020  0.1443  0.6448  **  
## age        0.0047  0.0021  2.2108  0.0270  0.0005  0.0088   *  
##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 11; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc
```

```

##   6.9618 -13.9236 -3.9236 -4.1941  56.0764
##
## tau^2 (estimated amount of residual heterogeneity):      0.0080 (SE = 0.0043)
## tau (square root of estimated tau^2 value):             0.0893
## I^2 (residual heterogeneity / unaccounted variability): 99.41%
## H^2 (unaccounted variability / sampling variability):  170.86
## R^2 (amount of heterogeneity accounted for):          0.00%
##
## Test for Residual Heterogeneity:
## QE(df = 7) = 1924.0926, p-val < .0001
##
## Test of Moderators (coefficients 2:4):
## QM(df = 3) = 2.3177, p-val = 0.5091
##
## Model Results:
##
##           estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt      0.6304  0.0632  9.9696 <.0001   0.5065  0.7544  ***
## countryGermany 0.0105  0.0778  0.1345  0.8930 -0.1420  0.1629
## countryU.S.    0.0729  0.0775  0.9408  0.3468 -0.0790  0.2248
## countryUK       0.1277  0.1097  1.1648  0.2441 -0.0872  0.3427
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Mixed-Effects Model (k = 11; tau^2 estimator: REML)
##
## logLik  deviance      AIC      BIC      AICc
## 7.3967 -14.7935 -0.7935 -3.5274 111.2065
##
## tau^2 (estimated amount of residual heterogeneity):      0.0030 (SE = 0.0020)
## tau (square root of estimated tau^2 value):             0.0547
## I^2 (residual heterogeneity / unaccounted variability): 98.33%
## H^2 (unaccounted variability / sampling variability):  59.87
## R^2 (amount of heterogeneity accounted for):          59.81%
##
## Test for Residual Heterogeneity:
## QE(df = 5) = 366.4939, p-val < .0001
##
## Test of Moderators (coefficients 2:6):
## QM(df = 5) = 19.5771, p-val = 0.0015
##
## Model Results:
##
##           estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt      0.6304  0.0389  16.2172 <.0001   0.5542  0.7066  ***
## scaleBFI-S    -0.0190  0.0550  -0.3448  0.7303 -0.1268  0.0889
## scaleIPIP      0.1197  0.0553   2.1639  0.0305  0.0113  0.2281   *
## scaleMIDI     -0.0166  0.0550  -0.3016  0.7630 -0.1244  0.0912
## scaleNEO-FFI    0.0408  0.0568   0.7177  0.4729 -0.0706  0.1521
## scaleNEO-PI-R   0.2137  0.0673   3.1779  0.0015  0.0819  0.3455  **
##
## ---

```

```

## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

##
## Mixed-Effects Model (k = 11; tau^2 estimator: REML)
##
##   logLik  deviance      AIC      BIC      AICc
##   9.2522 -18.5045 -12.5045 -11.9128 -7.7045
##
## tau^2 (estimated amount of residual heterogeneity): 0.0075 (SE = 0.0036)
## tau (square root of estimated tau^2 value): 0.0864
## I^2 (residual heterogeneity / unaccounted variability): 99.56%
## H^2 (unaccounted variability / sampling variability): 228.45
## R^2 (amount of heterogeneity accounted for): 0.00%
##
## Test for Residual Heterogeneity:
## QE(df = 9) = 3926.1873, p-val < .0001
##
## Test of Moderators (coefficient 2):
## QM(df = 1) = 0.9657, p-val = 0.3258
##
## Model Results:
##
##             estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt     0.6404  0.0420  15.2593 <.0001   0.5581  0.7226 *** 
## mo          0.0071  0.0072   0.9827  0.3258 -0.0070  0.0212
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

##
## Mixed-Effects Model (k = 11; tau^2 estimator: REML)
##
##   logLik  deviance      AIC      BIC      AICc
## 10.7801 -21.5601 -15.5601 -14.9685 -10.7601
##
## tau^2 (estimated amount of residual heterogeneity): 0.0053 (SE = 0.0026)
## tau (square root of estimated tau^2 value): 0.0729
## I^2 (residual heterogeneity / unaccounted variability): 99.32%
## H^2 (unaccounted variability / sampling variability): 147.27
## R^2 (amount of heterogeneity accounted for): 28.66%
##
## Test for Residual Heterogeneity:
## QE(df = 9) = 3407.7906, p-val < .0001
##
## Test of Moderators (coefficient 2):
## QM(df = 1) = 5.0035, p-val = 0.0253
##
## Model Results:
##
##             estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt     0.7521  0.0419  17.9348 <.0001   0.6699  0.8342 *** 
## interval    -0.0159  0.0071  -2.2369  0.0253 -0.0299 -0.0020   *
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

```

Linear Growth, Fixed Effects Only, Conscientiousness

Table S51: Conscientiousness-Linear Growth Model with Fixed Effects Only

coef	BASEII	EAS	HRS	ILSE	ILSE.Y	LBC1936	MIDUS	SLS	SOEP	WLSG	WLSS
Fixed Effects											
Intercept	7.75	7.39	7.94	7.38	7.26	7.11	8.09	6.27	8.13	7.73	7.57
	0.05	0.11	0.01	0.05	0.06	0.05	0.01	0.03	0.01	0.01	0.01
	p < .001	p < .001	p < .001	p < .001	p < .001	p < .001	p < .001	p < .001	p < .001	p < .001	p < .001
Age	-0.09	-0.15	-0.13	-0.06	-0.03	-0.09	0.01	-0.01	0.05	-0.10	-0.03
	0.04	0.05	0.01	0.04	0.04	0.03	0.01	0.01	0	0.01	0.01
	p = 0.021	p = 0.002	p < .001	p = 0.04	p = 0.195	p < .001	p = 0.168	p = 0.124	p < .001	p < .001	p < .001
Random Effects											
τ_{00}	0.71	0.85	0.66	0.68	0.68	0.78	0.63	0.84	0.51	0.66	0.62
σ^2	0.31	0.29	0.40	0.33	0.33	0.25	0.41	0.15	0.47	0.38	0.34
N_{people}	1,276	713	16,047	488	500	1,032	6,409	1,541	33,612	7,830	4,674
N_{obs}	3,816	1,667	35,019	1,223	1,266	3,013	12,994	4,023	74,026	18,030	9,677
LL	-4433	-2012	-45522	-1498	-1548	-3327	-16973	-3946	-96748	-22924	-12032

^a LL = Log Likelihood; Age = age (centered at 60).

Linear Growth, Fixed and Random Effects, Conscientiousness

Table S52: Linear Trajectories of Conscientiousness

coef	BASEII	EAS	HRS	ILSE	ILSE.Y	LBC1936	MIDUS	SLS	SOEP	WLSG	WLSS
Fixed Effects											
Intercept	7.75	7.39	7.94	7.38	7.26	7.11	8.09	6.28	8.15	7.73	7.58
Age	0.05 p < .001	0.12 p < .001	0.01 p < .001	0.05 p < .001	0.06 p < .001	0.05 p < .001	0.01 p < .001	0.03 p < .001	0.01 p < .001	0.01 p < .001	0.01 p < .001
Age	-0.09 0.04	-0.15 0.06	-0.13 0.01	-0.07 0.04	-0.03 0.04	-0.09 0.03	0.01 0.01	-0.02 0.01	0.04 0	-0.10 0.01	-0.03 0.01
	p = 0.025	p = 0.004	p < .001	p = 0.054	p = 0.21	p = 0.002	p = 0.122	p = 0.054	p < .001	p < .001	p < .001
Random Effects											
τ_{00}	0.71	1.60	0.58	0.72	0.89	1.09	0.63	0.83	0.42	0.67	0.62
τ_{01}	-0.04	-0.39	0.00	-0.08	0.15	-0.26	0.02	-0.05	0.03	0.01	-0.01
τ_{11}	0.09	0.19	0.04	0.17	0.11	0.21	0.02	0.03	0.04	0.06	0.05
σ^2	0.30	0.28	0.39	0.28	0.30	0.21	0.40	0.15	0.46	0.33	0.30
N_{people}	1,276	713	16,047	488	500	1,032	6,409	1,541	33,612	7,830	4,674
N_{obs}	3,816	1,667	35,019	1,223	1,266	3,013	12,994	4,023	74,026	18,030	9,677
LL	-4432	-2010	-45462	-1491	-1545	-3309	-16965	-3934	-96478	-22870	-12012

^a LL = Log Likelihood; Age = age (centered at 60).

Linear Trajectory Plot, Conscientiousness (In the main manuscript, this is Figure 4, in color)

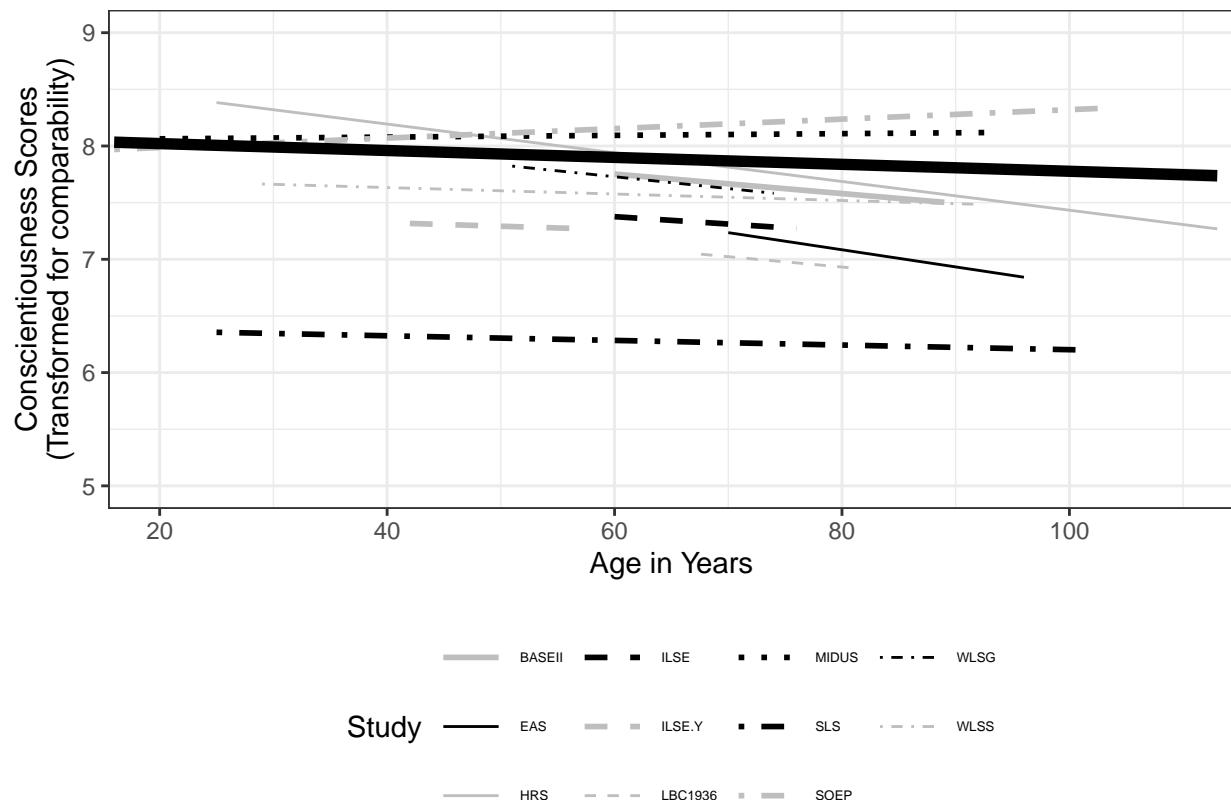


Figure S86: Linear Trajectory Plot, Conscientiousness. Linear change in conscientiousness as a function of age (in years) across 16 studies. Black line indicates average trajectory weighted by N. At the individual study level, most showed evidence of decline and the meta-analytic average was significant ($p = .004$)

Linear Trajectory Plot, unweighted, Conscientiousness

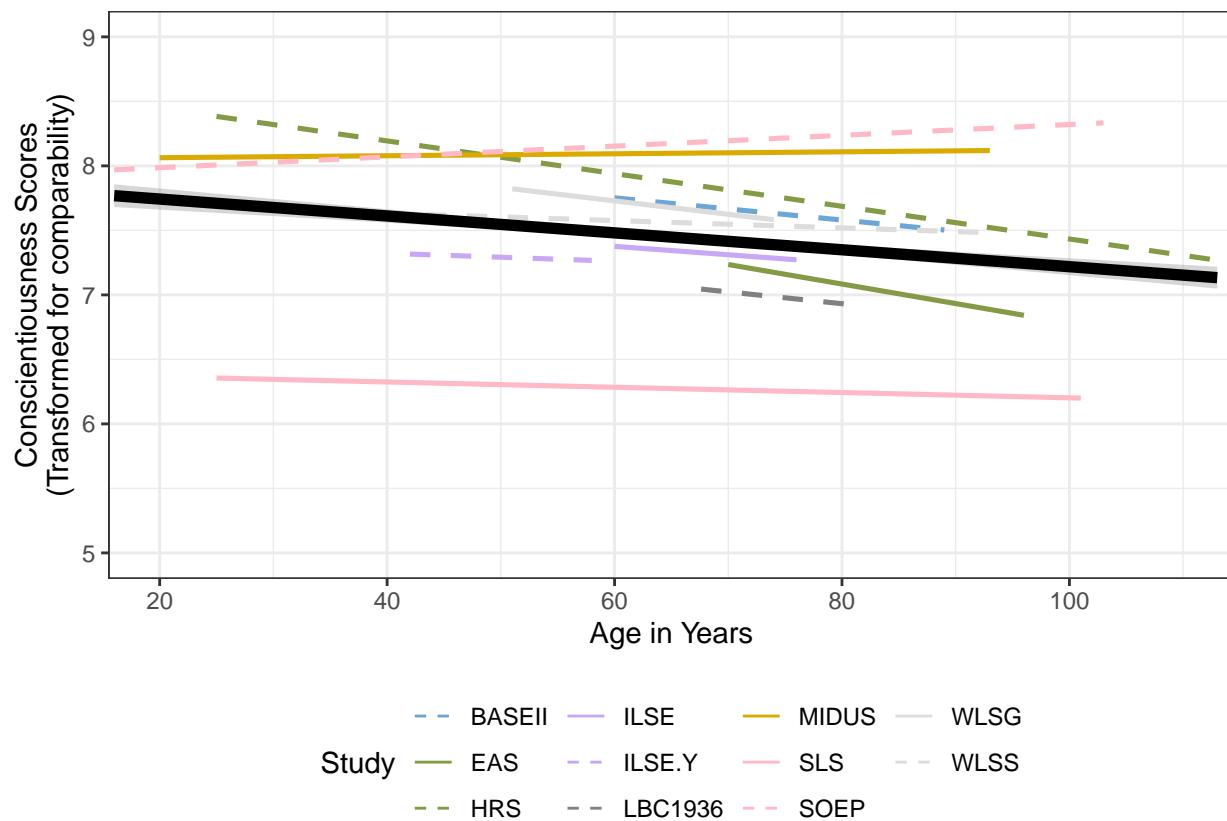


Figure S87: Linear Trajectory Plot, unweighted, Conscientiousness

Linear Meta Analysis, Consciousness

```
##  
## Random-Effects Model (k = 11; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##  13.8969  -27.7938  -23.7938  -23.1886  -22.0795  
##  
## tau^2 (estimated amount of total heterogeneity): 0.0031 (SE = 0.0017)  
## tau (square root of estimated tau^2 value):       0.0560  
## I^2 (total heterogeneity / total variability):   97.72%  
## H^2 (total variability / sampling variability): 43.77  
##  
## Test for Heterogeneity:  
## Q(df = 10) = 884.9934, p-val < .0001  
##  
## Model Results:  
##  
## estimate      se     zval     pval    ci.lb    ci.ub  
## -0.0535  0.0186  -2.8827  0.0039  -0.0899  -0.0171  **  
##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 11; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##  15.3302  -30.6605  -24.6605  -24.0688  -19.8605  
##  
## tau^2 (estimated amount of residual heterogeneity):      0.0017 (SE = 0.0010)  
## tau (square root of estimated tau^2 value):            0.0409  
## I^2 (residual heterogeneity / unaccounted variability): 94.75%  
## H^2 (unaccounted variability / sampling variability): 19.06  
## R^2 (amount of heterogeneity accounted for):          46.79%  
##  
## Test for Residual Heterogeneity:  
## QE(df = 9) = 242.8052, p-val < .0001  
##  
## Test of Moderators (coefficient 2):  
## QM(df = 1) = 8.8881, p-val = 0.0029  
##  
## Model Results:  
##  
##           estimate      se     zval     pval    ci.lb    ci.ub  
## intrcpt    0.1999  0.0853  2.3432  0.0191  0.0327  0.3671  *  
## age        -0.0043  0.0015 -2.9813  0.0029 -0.0072 -0.0015  **  
##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 11; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc
```

```

##    8.9848 -17.9696 -7.9696 -8.2401 52.0304
##
## tau^2 (estimated amount of residual heterogeneity):      0.0039 (SE = 0.0024)
## tau (square root of estimated tau^2 value):             0.0621
## I^2 (residual heterogeneity / unaccounted variability): 96.58%
## H^2 (unaccounted variability / sampling variability):   29.25
## R^2 (amount of heterogeneity accounted for):           0.00%
##
## Test for Residual Heterogeneity:
## QE(df = 7) = 287.9157, p-val < .0001
##
## Test of Moderators (coefficients 2:4):
## QM(df = 3) = 1.0272, p-val = 0.7947
##
## Model Results:
##
##          estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt      -0.0665  0.0443  -1.4995  0.1338  -0.1533  0.0204
## countryGermany  0.0394  0.0567   0.6956  0.4867  -0.0717  0.1505
## countryU.S.     0.0033  0.0554   0.0597  0.9524  -0.1053  0.1120
## countryUK       -0.0249  0.0824  -0.3030  0.7619  -0.1864  0.1365
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Mixed-Effects Model (k = 11; tau^2 estimator: REML)
##
##          logLik  deviance      AIC      BIC     AICc
##        6.2280 -12.4561  1.5439 -1.1900 113.5439
##
## tau^2 (estimated amount of residual heterogeneity):      0.0043 (SE = 0.0032)
## tau (square root of estimated tau^2 value):             0.0659
## I^2 (residual heterogeneity / unaccounted variability): 97.27%
## H^2 (unaccounted variability / sampling variability):   36.67
## R^2 (amount of heterogeneity accounted for):           0.00%
##
## Test for Residual Heterogeneity:
## QE(df = 5) = 267.4634, p-val < .0001
##
## Test of Moderators (coefficients 2:6):
## QM(df = 5) = 2.3209, p-val = 0.8032
##
## Model Results:
##
##          estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt      -0.0664  0.0469  -1.4159  0.1568  -0.1584  0.0255
## scaleBFI-S      0.0559  0.0690   0.8093  0.4183  -0.0794  0.1912
## scaleIPIP      -0.0496  0.0729  -0.6809  0.4959  -0.1925  0.0932
## scaleMIDI       0.0069  0.0663   0.1037  0.9174  -0.1230  0.1367
## scaleNEO-FFI     0.0188  0.0717   0.2628  0.7927  -0.1217  0.1594
## scaleNEO-PI-R     0.0460  0.0819   0.5618  0.5743  -0.1145  0.2064
##
## ---

```

```

## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Mixed-Effects Model (k = 11; tau^2 estimator: REML)
##
##   logLik  deviance      AIC      BIC      AICc
##  12.8923 -25.7847 -19.7847 -19.1930 -14.9847
##
## tau^2 (estimated amount of residual heterogeneity): 0.0031 (SE = 0.0017)
## tau (square root of estimated tau^2 value):        0.0561
## I^2 (residual heterogeneity / unaccounted variability): 97.37%
## H^2 (unaccounted variability / sampling variability): 38.09
## R^2 (amount of heterogeneity accounted for):       0.00%
##
## Test for Residual Heterogeneity:
## QE(df = 9) = 648.0315, p-val < .0001
##
## Test of Moderators (coefficient 2):
## QM(df = 1) = 1.2618, p-val = 0.2613
##
## Model Results:
##
##           estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt  -0.0242  0.0321 -0.7545  0.4505 -0.0870  0.0386
## mo        -0.0072  0.0064 -1.1233  0.2613 -0.0198  0.0054
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

```

Quadratic Table, Conscientiousness

Table S53: Quadratic Trajectories of Conscientiousness

coef	BASEII	EAS	LBC1936	SLS	SOEP
Fixed Effects					
Intercept	7.70 0.07 <i>p < .001</i>	7.32 0.33 <i>p < .001</i>	7.17 0.16 <i>p < .001</i>	6.34 0.03 <i>p < .001</i>	8.25 0.01 <i>p < .001</i>
Age	0.04 0.14 <i>p = 0.374</i>	-0.08 0.32 <i>p = 0.394</i>	-0.17 0.23 <i>p = 0.224</i>	0.01 0.01 <i>p = 0.208</i>	-0.05 0 <i>p < .001</i>
<i>Age</i> ²	-0.07 0.07 <i>p = 0.158</i>	-0.02 0.07 <i>p = 0.415</i>	0.03 0.08 <i>p = 0.358</i>	-0.03 0.01 <i>p < .001</i>	-0.05 0 <i>p < .001</i>
Random Effects					
τ_{00}	0.71	1.60	1.09	0.83	0.43
τ_{01}	-0.04	-0.39	-0.26	-0.04	0.03
τ_{11}	0.08	0.19	0.21	0.03	0.03
σ^2	0.30	0.27	0.21	0.15	0.46
N_{people}	1,276	713	1,032	1,541	33,612
N_{obs}	3,816	1,667	3,013	4,023	74,026
LL	-4431	-2009	-3309	-3920	-95807

^a LL = Log Likelihood; Age = age (centered at 60); Age2 = age (centered at 60) squared.

Quadratic Plot, Conscientiousness

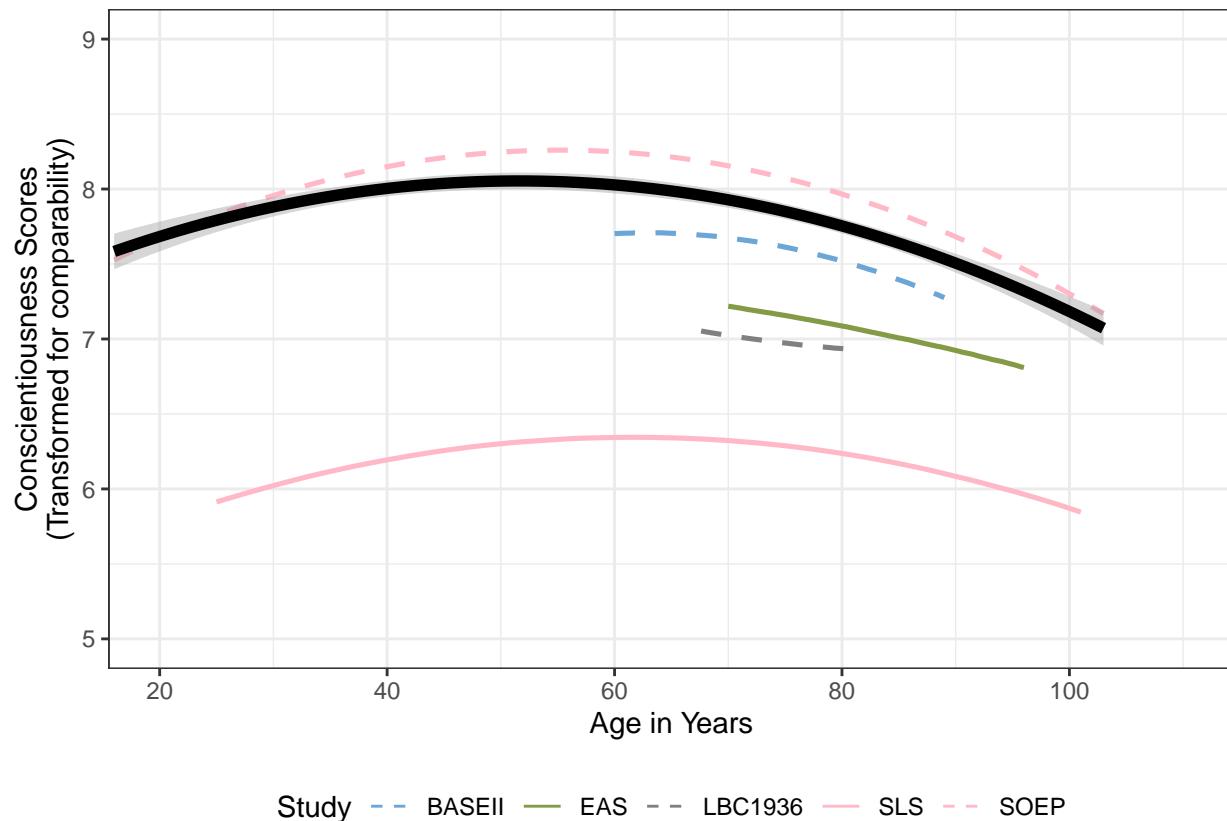
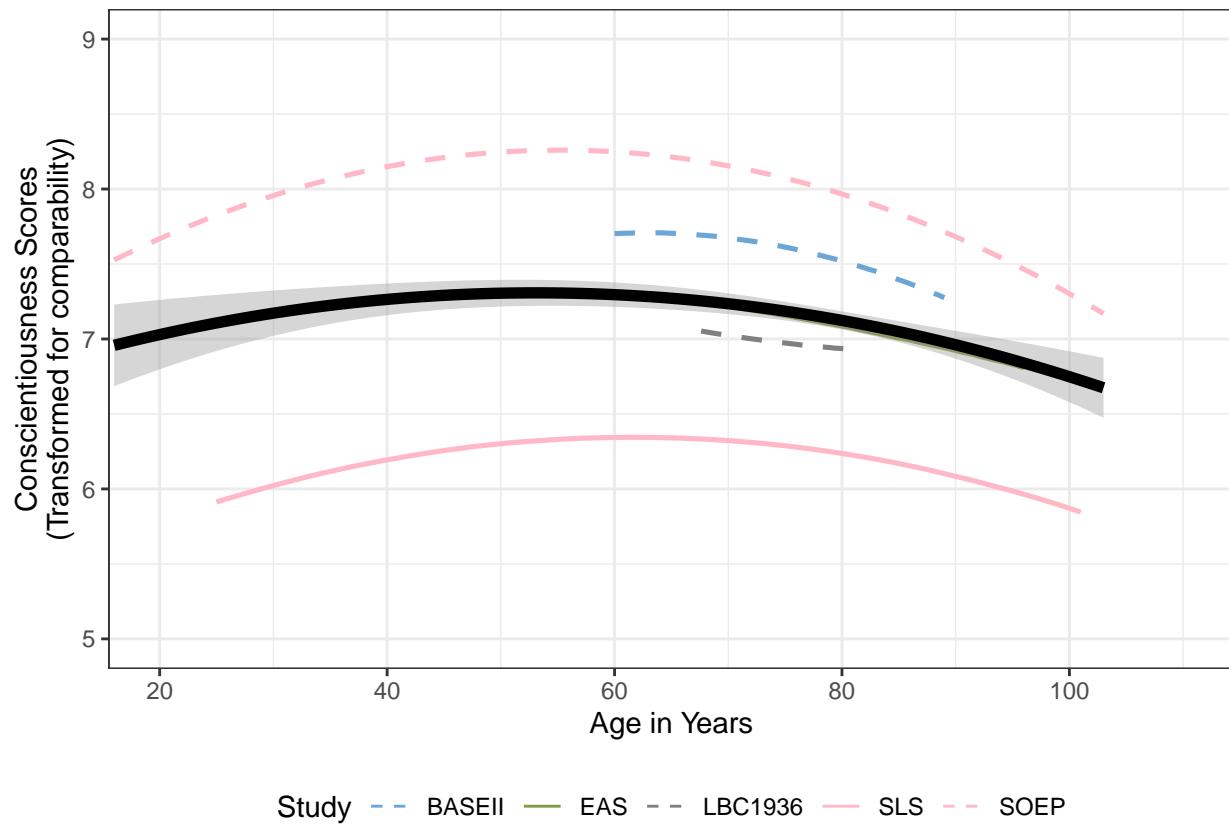


Figure S88: Quadratic Plot, Conscientiousness. Quadratic trajectories of conscientiousness as a function of age (in years) across 16 studies. Black line indicates average trajectory weighted by N. At the individual study level, some showed evidence of an inverted u-shaped curve, but the meta-analytic average was not significant ($p = .459$)

Quadratic Plot, unweighted, Conscientiousness



Study BASEII EAS LBC1936 SLS SOEP

Figure S89: Quadratic Plot, unweighted, Conscientiousness

Quadratic Meta, Conscientiousness

```
##  
## Random-Effects Model (k = 5; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##    3.6770   -7.3539   -3.3539   -4.5813   8.6461  
##  
## tau^2 (estimated amount of total heterogeneity): 0.0013 (SE = 0.0020)  
## tau (square root of estimated tau^2 value):       0.0364  
## I^2 (total heterogeneity / total variability): 76.64%  
## H^2 (total variability / sampling variability): 4.28  
##  
## Test for Heterogeneity:  
## Q(df = 4) = 16.5619, p-val = 0.0024  
##  
## Model Results:  
##  
## estimate      se     zval     pval    ci.lb    ci.ub  
## -0.0192  0.0259  -0.7406  0.4589  -0.0701  0.0316  
##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 5; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##    2.4651   -4.9301   1.0699   -1.6343  25.0699  
##  
## tau^2 (estimated amount of residual heterogeneity):      0 (SE = 0.0068)  
## tau (square root of estimated tau^2 value):             0  
## I^2 (residual heterogeneity / unaccounted variability): 0.00%  
## H^2 (unaccounted variability / sampling variability):  1.00  
## R^2 (amount of heterogeneity accounted for):          100.00%  
##  
## Test for Residual Heterogeneity:  
## QE(df = 3) = 1.0414, p-val = 0.7912  
##  
## Test of Moderators (coefficient 2):  
## QM(df = 1) = 15.5205, p-val < .0001  
##  
## Model Results:  
##  
##           estimate      se     zval     pval    ci.lb    ci.ub  
## intrcpt   -0.2122  0.0433  -4.8984  <.0001  -0.2971  -0.1273  ***  
## age        0.0035  0.0009   3.9396  <.0001   0.0018   0.0053  ***  
##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 5; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc
```

```

##    1.7353   -3.4705    4.5295   -0.6979   44.5295
##
## tau^2 (estimated amount of residual heterogeneity):      0 (SE = 0.0130)
## tau (square root of estimated tau^2 value):             0
## I^2 (residual heterogeneity / unaccounted variability): 0.00%
## H^2 (unaccounted variability / sampling variability):  1.00
## R^2 (amount of heterogeneity accounted for):          100.00%
##
## Test for Residual Heterogeneity:
## QE(df = 2) = 0.5203, p-val = 0.7709
##
## Test of Moderators (coefficients 2:3):
## QM(df = 2) = 16.0416, p-val = 0.0003
##
## Model Results:
##
##           estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt     -0.0456  0.0036 -12.7501 <.0001  -0.0526  -0.0386 *** 
## countryU.S.    0.0567  0.0143    3.9637 <.0001   0.0287   0.0847 *** 
## countryUK     -0.1290  0.2305   -0.5598  0.5756  -0.5808   0.3227
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Mixed-Effects Model (k = 5; tau^2 estimator: REML)
##
## logLik  deviance      AIC      BIC      AICc
## 3.3658   -6.7317   -0.7317  -3.4358  23.2683
##
## tau^2 (estimated amount of residual heterogeneity):      0.0013 (SE = 0.0020)
## tau (square root of estimated tau^2 value):             0.0367
## I^2 (residual heterogeneity / unaccounted variability): 81.63%
## H^2 (unaccounted variability / sampling variability):  5.44
## R^2 (amount of heterogeneity accounted for):          0.00%
##
## Test for Residual Heterogeneity:
## QE(df = 3) = 16.5437, p-val = 0.0009
##
## Test of Moderators (coefficient 2):
## QM(df = 1) = 0.0427, p-val = 0.8364
##
## Model Results:
##
##           estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt     0.0033  0.1119   0.0293  0.9767  -0.2160  0.2226
## mo        -0.0055  0.0267  -0.2065  0.8364  -0.0578  0.0467
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

```

Sex, Table, Conscientiousness

Table S54: Linear Trajectories of Conscientiousness, Moderated by Sex

coef	BASEII	EAS	HRS	ILSE	ILSE.Y	LBC1936	MIDUS	SLS	SOEP	WLSG	WLSS
Fixed Effects											
Intercept	7.60	7.50	7.81	7.50	7.24	7.03	8.00	6.29	8.09	7.72	7.59
Age	0.07 p < .001	0.19 p < .001	0.02 p < .001	0.07 p < .001	0.09 p < .001	0.07 p < .001	0.02 p < .001	0.04 p < .001	0.01 p < .001	0.02 p < .001	0.02 p < .001
Sex	0.01 p = 0.437	-0.22 p = 0.007	-0.12 p < .001	-0.14 p = 0.006	-0.06 p = 0.138	-0.05 p = 0.128	0.03 p < .001	0.00 p = 0.434	0.06 p < .001	-0.12 p < .001	-0.02 p = 0.044
Age x Sex	0.06 p = 0.001	0.09 p = 0.219	0.01 p < .001	0.06 p = 0.004	0.05 p = 0.341	0.04 p = 0.034	0.01 p < .001	0.02 p = 0.442	0.01 p < .001	0.01 p = 0.139	0.01 p = 0.096
Age x Sex	-0.18 p = 0.002	0.12 p = 0.157	-0.01 p = 0.218	0.16 p = 0.025	0.06 p = 0.232	-0.08 p = 0.086	-0.04 p < .001	-0.04 p = 0.057	-0.03 p < .001	0.03 p = 0.014	-0.01 p = 0.266
Random Effects											
τ_{00}	0.70	1.59	0.57	0.70	0.89	1.08	0.62	0.84	0.42	0.67	0.62
τ_{01}	-0.04	-0.38	0.00	-0.06	0.15	-0.25	0.02	-0.05	0.03	0.01	-0.01
τ_{11}	0.08	0.19	0.04	0.16	0.11	0.21	0.02	0.03	0.04	0.06	0.05
σ^2	0.30	0.27	0.39	0.28	0.30	0.21	0.39	0.15	0.46	0.33	0.30
N_{people}	1,276	713	16,047	488	500	1,032	6,390	1,541	33,611	7,830	4,674
N_{obs}	3,816	1,667	35,019	1,223	1,266	3,013	12,965	4,023	74,025	18,030	9,677
LL	-4427	-2009	-45372	-1487	-1545	-3308	-16872	-3933	-96339	-22867	-12011

^a LL = Log Likelihood; Age = age (centered at 60)

Sex, Plot, Conscientiousness

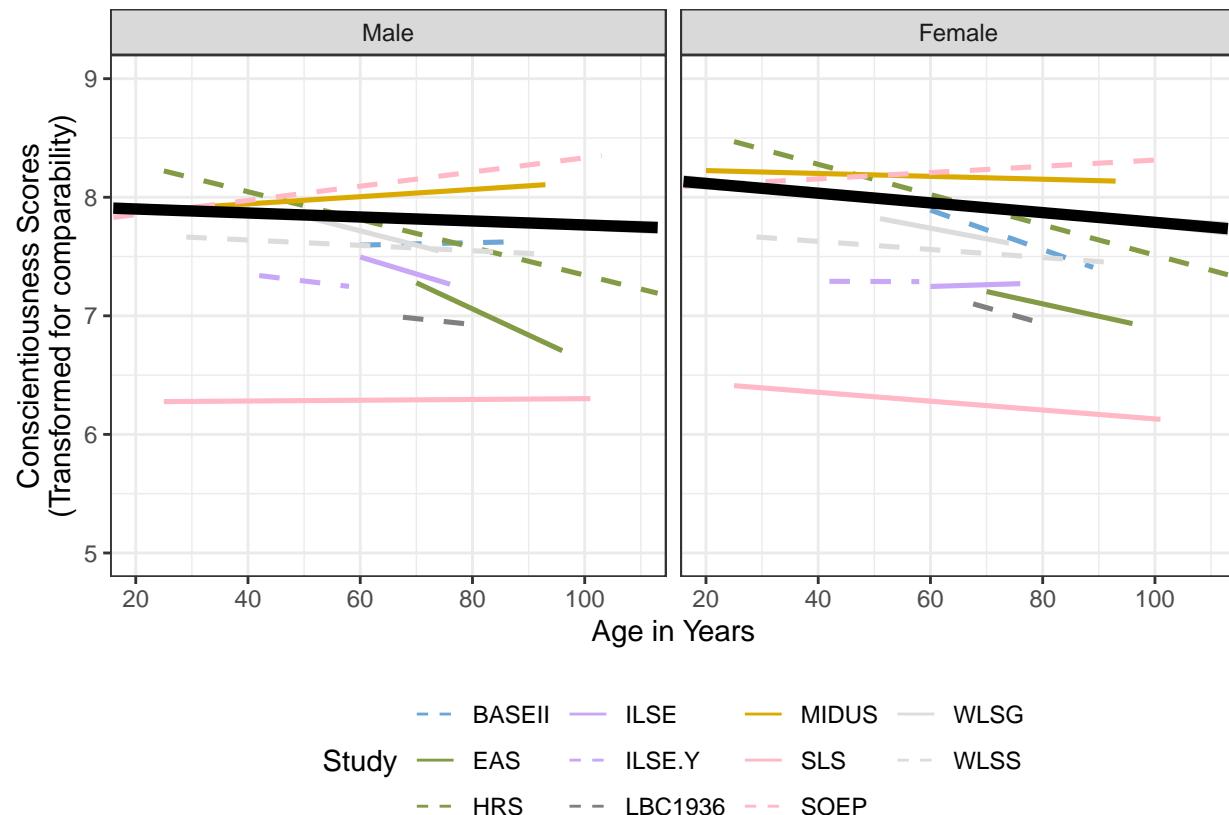


Figure S90: Sex, Plot, Conscientiousness. Linear Trajectories of Conscientiousness, moderated by sex. Black line indicates average trajectory weighted by N. At the individual study level, there was not much evidence that being female was associated with changes in conscientiousness, and the meta-analytic average was not significant ($p = .169$)

Sex, Plot, unweighted, Conscientiousness

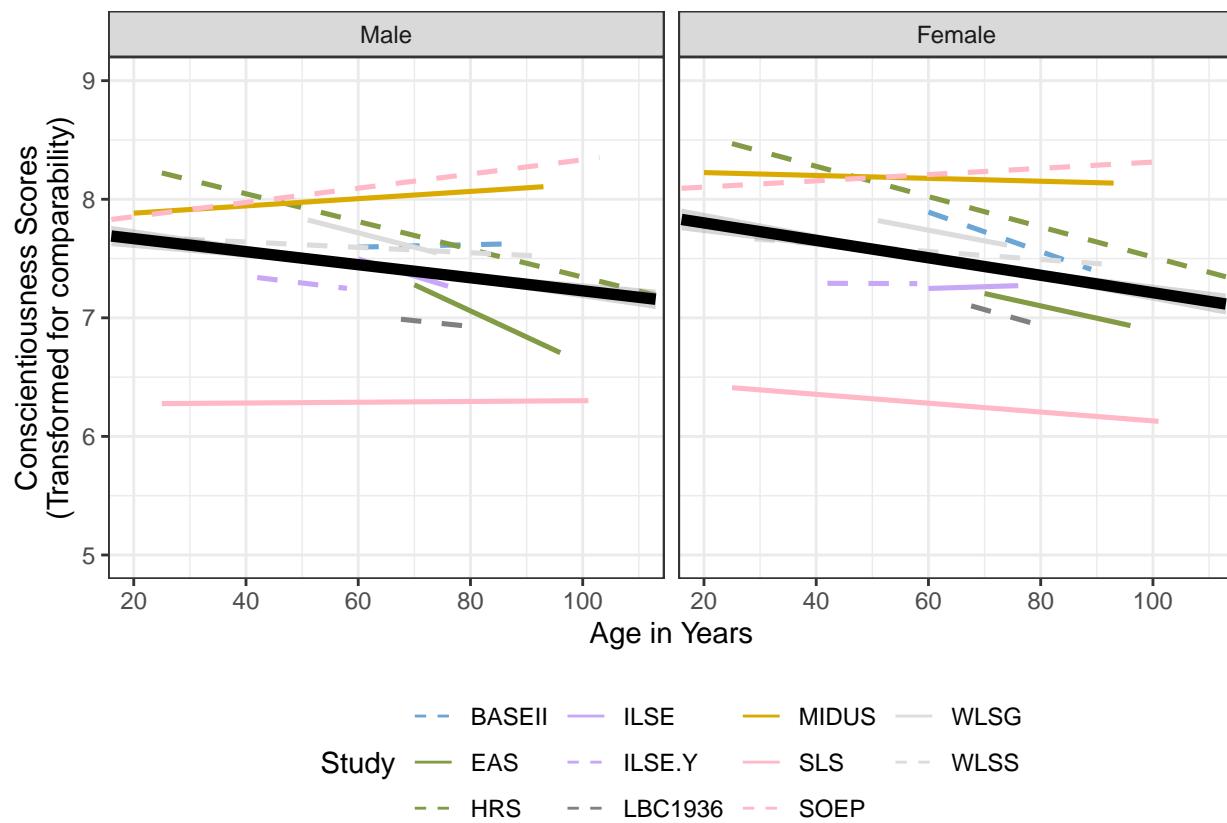


Figure S91: Sex, Plot, unweighted, Conscientiousness

Sex, Meta Analysis, Conscientiousness

```
##  
## Random-Effects Model (k = 11; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##  13.4085 -26.8170 -22.8170 -22.2119 -21.1028  
##  
## tau^2 (estimated amount of total heterogeneity): 0.0007 (SE = 0.0006)  
## tau (square root of estimated tau^2 value):       0.0260  
## I^2 (total heterogeneity / total variability):   69.34%  
## H^2 (total variability / sampling variability): 3.26  
##  
## Test for Heterogeneity:  
## Q(df = 10) = 34.0241, p-val = 0.0002  
##  
## Model Results:  
##  
## estimate      se     zval    pval    ci.lb    ci.ub  
## -0.0160  0.0116 -1.3743  0.1693 -0.0388  0.0068  
##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 11; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##  11.3099 -22.6198 -16.6198 -16.0281 -11.8198  
##  
## tau^2 (estimated amount of residual heterogeneity):      0.0009 (SE = 0.0008)  
## tau (square root of estimated tau^2 value):            0.0297  
## I^2 (residual heterogeneity / unaccounted variability): 70.34%  
## H^2 (unaccounted variability / sampling variability): 3.37  
## R^2 (amount of heterogeneity accounted for):          0.00%  
##  
## Test for Residual Heterogeneity:  
## QE(df = 9) = 30.1473, p-val = 0.0004  
##  
## Test of Moderators (coefficient 2):  
## QM(df = 1) = 0.0013, p-val = 0.9709  
##  
## Model Results:  
##  
##           estimate      se     zval    pval    ci.lb    ci.ub  
## intrcpt  -0.0186  0.0822 -0.2266  0.8207 -0.1797  0.1425  
## age       0.0001  0.0015  0.0365  0.9709 -0.0028  0.0029  
##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 11; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc
```

```

##    8.3806 -16.7613 -6.7613 -7.0317 53.2387
##
## tau^2 (estimated amount of residual heterogeneity):      0.0005 (SE = 0.0006)
## tau (square root of estimated tau^2 value):             0.0214
## I^2 (residual heterogeneity / unaccounted variability): 45.04%
## H^2 (unaccounted variability / sampling variability):   1.82
## R^2 (amount of heterogeneity accounted for):           32.13%
##
## Test for Residual Heterogeneity:
## QE(df = 7) = 17.8267, p-val = 0.0128
##
## Test of Moderators (coefficients 2:4):
## QM(df = 3) = 3.9110, p-val = 0.2712
##
## Model Results:
##
##          estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt      0.0117  0.0189  0.6181  0.5365 -0.0254  0.0488
## countryGermany -0.0355  0.0276 -1.2874  0.1980 -0.0895  0.0185
## countryU.S.    -0.0389  0.0245 -1.5882  0.1122 -0.0869  0.0091
## countryUK      -0.0962  0.0680 -1.4142  0.1573 -0.2295  0.0371
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Mixed-Effects Model (k = 11; tau^2 estimator: REML)
##
##          logLik  deviance      AIC      BIC     AICc
##          6.5725 -13.1450  0.8550 -1.8789 112.8550
##
## tau^2 (estimated amount of residual heterogeneity):      0.0006 (SE = 0.0008)
## tau (square root of estimated tau^2 value):             0.0246
## I^2 (residual heterogeneity / unaccounted variability): 54.84%
## H^2 (unaccounted variability / sampling variability):   2.21
## R^2 (amount of heterogeneity accounted for):           10.54%
##
## Test for Residual Heterogeneity:
## QE(df = 5) = 12.2349, p-val = 0.0317
##
## Test of Moderators (coefficients 2:6):
## QM(df = 5) = 8.2083, p-val = 0.1451
##
## Model Results:
##
##          estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt      0.0114  0.0208  0.5471  0.5843 -0.0293  0.0520
## scaleBFI-S    -0.0550  0.0319 -1.7245  0.0846 -0.1175  0.0075 .
## scaleIPIP     -0.0476  0.0615 -0.7737  0.4391 -0.1681  0.0730
## scaleMIDI     -0.0380  0.0286 -1.3286  0.1840 -0.0941  0.0181
## scaleNEO-FFI    0.0926  0.0616  1.5025  0.1330 -0.0282  0.2134
## scaleNEO-PI-R   -0.0520  0.0412 -1.2624  0.2068 -0.1327  0.0287
##
## ---

```

```

## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Mixed-Effects Model (k = 11; tau^2 estimator: REML)
##
##   logLik  deviance      AIC      BIC      AICc
##  12.1765 -24.3530 -18.3530 -17.7613 -13.5530
##
## tau^2 (estimated amount of residual heterogeneity): 0.0008 (SE = 0.0006)
## tau (square root of estimated tau^2 value):        0.0279
## I^2 (residual heterogeneity / unaccounted variability): 69.29%
## H^2 (unaccounted variability / sampling variability): 3.26
## R^2 (amount of heterogeneity accounted for):       0.00%
##
## Test for Residual Heterogeneity:
## QE(df = 9) = 32.0831, p-val = 0.0002
##
## Test of Moderators (coefficient 2):
## QM(df = 1) = 0.1853, p-val = 0.6668
##
## Model Results:
##
##           estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt  -0.0291  0.0332 -0.8764  0.3808 -0.0942  0.0360
## mo        0.0038  0.0089  0.4305  0.6668 -0.0136  0.0212
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

```

Retirement Status, Table, Conscientiousness

Table S55: Linear Trajectories of Conscientiousness, Moderated by Retirement

coef	BASEII	HRS	ILSE	ILSE.Y	MIDUS	SLS	SOEP	WLSG	WLSS
Fixed Effects									
Intercept	7.69	7.96	7.49	7.26	8.13	6.27	8.22	7.75	7.60
	0.12	0.01	0.13	0.07	0.01	0.03	0.01	0.01	0.02
	p < .001								
Age	-0.23	-0.13	-0.19	-0.03	0.03	0.01	0.07	-0.11	-0.01
	0.2	0.01	0.11	0.04	0.01	0.02	0	0.01	0.01
	p = 0.126	p < .001	p = 0.042	p = 0.237	p < .001	p = 0.331	p < .001	p < .001	p = 0.222
retired	0.10	0.04	-0.13	-0.01	-0.02	0.18	0.01	-0.11	-0.01
	0.13	0.03	0.14	0.17	0.04	0.07	0.02	0.03	0.03
	p = 0.225	p = 0.114	p = 0.18	p = 0.479	p = 0.347	p = 0.007	p = 0.351	p < .001	p = 0.374
Age x retired	0.13	0.04	0.14	-0.01	-0.15	-0.11	-0.16	0.01	-0.07
	0.21	0.02	0.12	0.1	0.02	0.03	0.01	0.02	0.02
	p = 0.27	p = 0.042	p = 0.111	p = 0.465	p < .001	p < .001	p < .001	p = 0.279	p < .001
Random Effects									
τ_{00}	0.71	0.56	0.72	0.89	0.63	0.83	0.42	0.65	0.61
τ_{01}	-0.05	0.01	-0.08	0.15	0.02	-0.04	0.02	0.01	-0.01
τ_{11}	0.09	0.03	0.17	0.11	0.02	0.03	0.03	0.06	0.05
σ^2	0.30	0.38	0.28	0.30	0.39	0.15	0.46	0.33	0.30
N_{people}	1,276	13,489	488	499	6,368	1,513	20,778	7,249	3,920
N_{obs}	3,816	30,461	1,223	1,265	12,919	3,967	56,490	16,953	8,428
LL	-4430	-38803	-1490	-1543	-16827	-3871	-72353	-21382	-10397

^a LL = Log Likelihood; Age = age (centered at 60)

Retirement Status, Plot, Conscientiousness

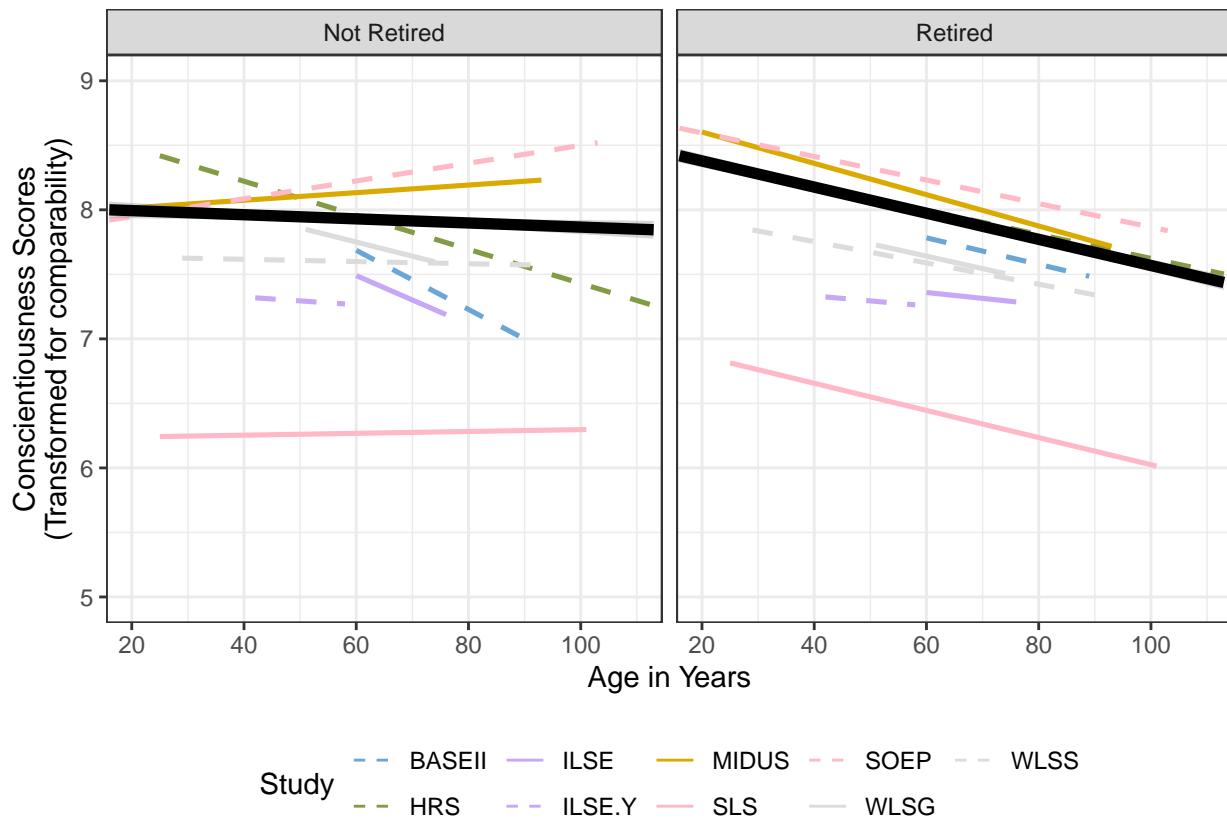


Figure S92: Retirement Status, Plot (Conscientiousness). Linear Trajectories of Conscientiousness, moderated by retirement status. Black line indicates average trajectory weighted by N. At the individual study level, some showed evidence that being retired was associated with greater declines in conscientiousness, and the meta-analytic average was not significant ($p = .093$)

Retirement Status, Plot, unweighted, Conscientiousness

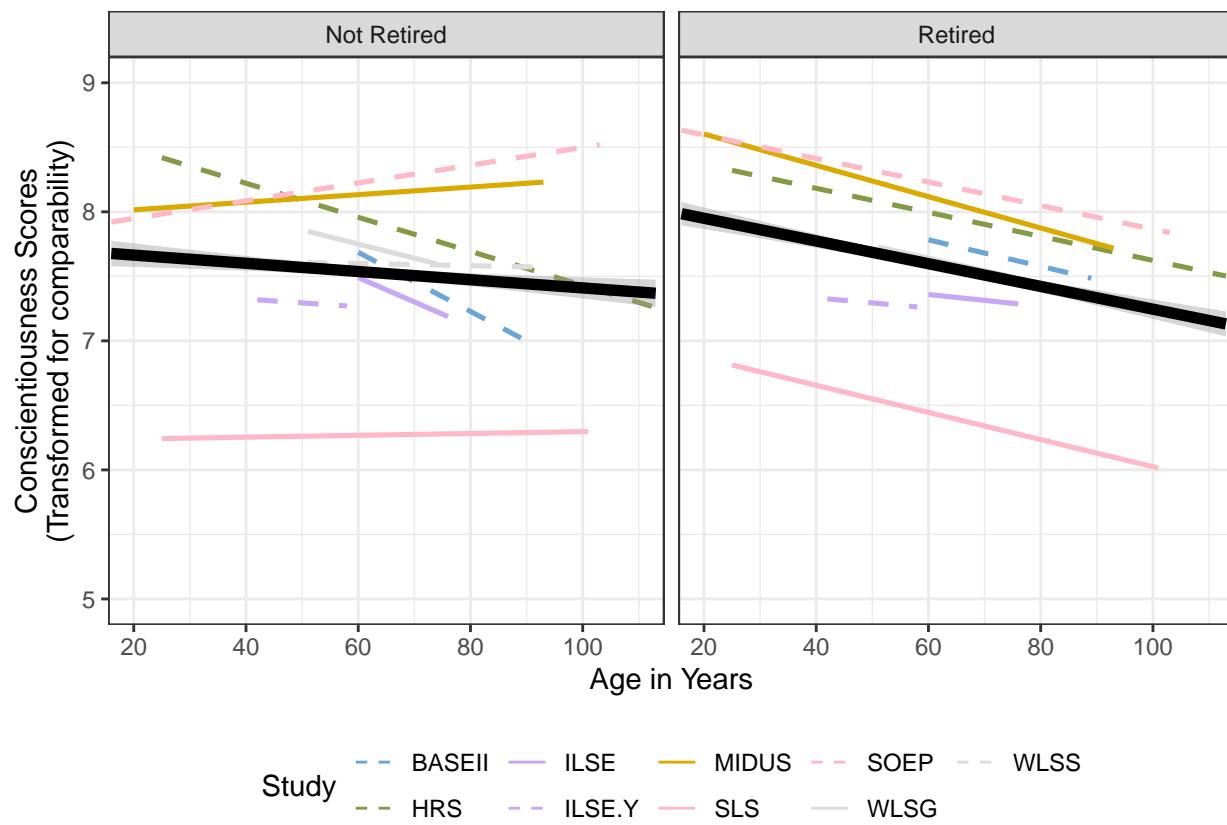


Figure S93: Retirement Status, Plot, unweighted, Conscientiousness

Retirement Status, Meta Analysis, Conscientiousness

```
##  
## Random-Effects Model (k = 9; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##    6.6205 -13.2410   -9.2410  -9.0822  -6.8410  
##  
## tau^2 (estimated amount of total heterogeneity): 0.0068 (SE = 0.0045)  
## tau (square root of estimated tau^2 value):       0.0827  
## I^2 (total heterogeneity / total variability): 91.00%  
## H^2 (total variability / sampling variability): 11.11  
##  
## Test for Heterogeneity:  
## Q(df = 8) = 102.1581, p-val < .0001  
##  
## Model Results:  
##  
## estimate      se     zval     pval    ci.lb    ci.ub  
## -0.0548  0.0326 -1.6798  0.0930 -0.1187  0.0091  .  
##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 9; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##    6.7177 -13.4354   -7.4354  -7.5977  0.5646  
##  
## tau^2 (estimated amount of residual heterogeneity):      0.0045 (SE = 0.0034)  
## tau (square root of estimated tau^2 value):            0.0669  
## I^2 (residual heterogeneity / unaccounted variability): 85.14%  
## H^2 (unaccounted variability / sampling variability):  6.73  
## R^2 (amount of heterogeneity accounted for):          34.48%  
##  
## Test for Residual Heterogeneity:  
## QE(df = 7) = 40.2824, p-val < .0001  
##  
## Test of Moderators (coefficient 2):  
## QM(df = 1) = 3.6595, p-val = 0.0558  
##  
## Model Results:  
##  
##           estimate      se     zval     pval    ci.lb    ci.ub  
## intrcpt  -0.4092  0.1850 -2.2113  0.0270 -0.7719 -0.0465 *  
## age       0.0064  0.0033  1.9130  0.0558 -0.0002  0.0129  .  
##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 9; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc
```

```

##    4.0719   -8.1438   -0.1438   -0.9768   39.8562
##
## tau^2 (estimated amount of residual heterogeneity):      0.0102 (SE = 0.0078)
## tau (square root of estimated tau^2 value):             0.1012
## I^2 (residual heterogeneity / unaccounted variability): 90.10%
## H^2 (unaccounted variability / sampling variability):  10.11
## R^2 (amount of heterogeneity accounted for):          0.00%
##
## Test for Residual Heterogeneity:
## QE(df = 6) = 53.8059, p-val < .0001
##
## Test of Moderators (coefficients 2:3):
## QM(df = 2) = 0.2641, p-val = 0.8763
##
## Model Results:
##
##           estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt      -0.0306  0.0732  -0.4171  0.6766  -0.1741  0.1130
## countryGermany -0.0059  0.1012  -0.0587  0.9532  -0.2042  0.1923
## countryU.S.     -0.0433  0.0950  -0.4563  0.6482  -0.2295  0.1428
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Mixed-Effects Model (k = 9; tau^2 estimator: REML)
##
## logLik  deviance      AIC      BIC      AICc
## 2.5659  -5.1318    6.8682   3.1859   90.8682
##
## tau^2 (estimated amount of residual heterogeneity):      0.0097 (SE = 0.0095)
## tau (square root of estimated tau^2 value):             0.0987
## I^2 (residual heterogeneity / unaccounted variability): 90.63%
## H^2 (unaccounted variability / sampling variability):  10.68
## R^2 (amount of heterogeneity accounted for):          0.00%
##
## Test for Residual Heterogeneity:
## QE(df = 4) = 43.0313, p-val < .0001
##
## Test of Moderators (coefficients 2:5):
## QM(df = 4) = 2.0796, p-val = 0.7211
##
## Model Results:
##
##           estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt      -0.0306  0.0715  -0.4271  0.6693  -0.1708  0.1097
## scaleBFI-S     -0.0839  0.1159  -0.7238  0.4692  -0.3109  0.1432
## scaleMIDI      -0.0249  0.1013  -0.2462  0.8055  -0.2235  0.1737
## scaleNEO-FFI     0.0919  0.1264   0.7268  0.4673  -0.1559  0.3396
## scaleNEO-PI-R     -0.0818  0.1262  -0.6481  0.5169  -0.3292  0.1656
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##

```

```

## Mixed-Effects Model (k = 9; tau^2 estimator: REML)
##
##   logLik  deviance      AIC      BIC      AICc
##   6.1689 -12.3378 -6.3378 -6.5001  1.6622
##
##   tau^2 (estimated amount of residual heterogeneity): 0.0052 (SE = 0.0039)
##   tau (square root of estimated tau^2 value):        0.0723
##   I^2 (residual heterogeneity / unaccounted variability): 85.15%
##   H^2 (unaccounted variability / sampling variability): 6.74
##   R^2 (amount of heterogeneity accounted for):       23.42%
##
## Test for Residual Heterogeneity:
## QE(df = 7) = 46.8851, p-val < .0001
##
## Test of Moderators (coefficient 2):
## QM(df = 1) = 2.2707, p-val = 0.1318
##
## Model Results:
##
##           estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt    0.2566  0.2105  1.2189  0.2229 -0.1560  0.6691
## mo        -0.0949  0.0630 -1.5069  0.1318 -0.2183  0.0285
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

```

Married, Table, Conscientiousness

Table S56: Linear Trajectories of Conscientiousness, Moderated by Marriage

coef	BASEII	EAS	HRS	ILSE	ILSE.Y	LBC1936	MIDUS	SLS	SOEP	WLSG	WLSS
Fixed Effects											
Intercept	7.66	7.13	7.90	7.19	7.05	7.13	8.03	6.20	8.10	7.69	7.47
Age	0.08 p < .001	0.16 p < .001	0.02 p < .001	0.09 p < .001	0.12 p < .001	0.09 p < .001	0.02 p < .001	0.05 p < .001	0.01 p < .001	0.03 p < .001	0.03 p < .001
Age	-0.06 p = 0.175	-0.04 p = 0.312	-0.12 p < .001	-0.06 p = 0.197	-0.06 p = 0.2	-0.19 p < .001	0.01 p = 0.133	-0.02 p = 0.24	0.07 p < .001	-0.11 p < .001	-0.02 p = 0.134
married	0.07 p = 0.21	0.07 p = 0.64	0.01 0.06	0.08 0.26	0.08 0.28	0.06 -0.02	0.01 0.09	0.02 0.11	0 0.08	0.02 0.05	0.02 0.14
Age x married	0.21 p = 0.021	0.64 p = 0.004	0.06 p = 0.003	0.26 p = 0.008	0.28 p = 0.023	-0.02 p = 0.436	0.09 p < .001	0.11 p = 0.029	0.01 p < .001	0.03 p = 0.035	0.03 p < .001
Age x married	-0.07 p = 0.232	-0.29 p = 0.006	0.00 p = 0.392	0.00 p = 0.492	0.04 p = 0.309	0.14 p = 0.023	-0.01 p = 0.241	0.00 p = 0.456	-0.11 p < .001	0.01 p = 0.341	-0.01 p = 0.398
Random Effects											
τ_{00}	0.66	1.56	0.58	0.71	0.87	1.08	0.63	0.83	0.42	0.66	0.61
τ_{01}	-0.02	-0.37	0.00	-0.08	0.15	-0.25	0.02	-0.05	0.02	0.01	-0.01
τ_{11}	0.07	0.18	0.04	0.17	0.11	0.20	0.02	0.03	0.03	0.06	0.05
σ^2	0.30	0.27	0.39	0.28	0.30	0.21	0.40	0.15	0.46	0.33	0.30
N_{people}	1,005	712	15,420	488	499	1,032	6,406	1,504	20,777	7,643	4,456
N_{obs}	3,544	1,664	34,268	1,223	1,265	3,013	12,990	3,954	56,488	17,752	9,368
LL	-4033	-2002	-44372	-1487	-1538	-3304	-16952	-3857	-72208	-22456	-11589

^a LL = Log Likelihood; Age = age (centered at 60)

Married, Plot, Conscientiousness

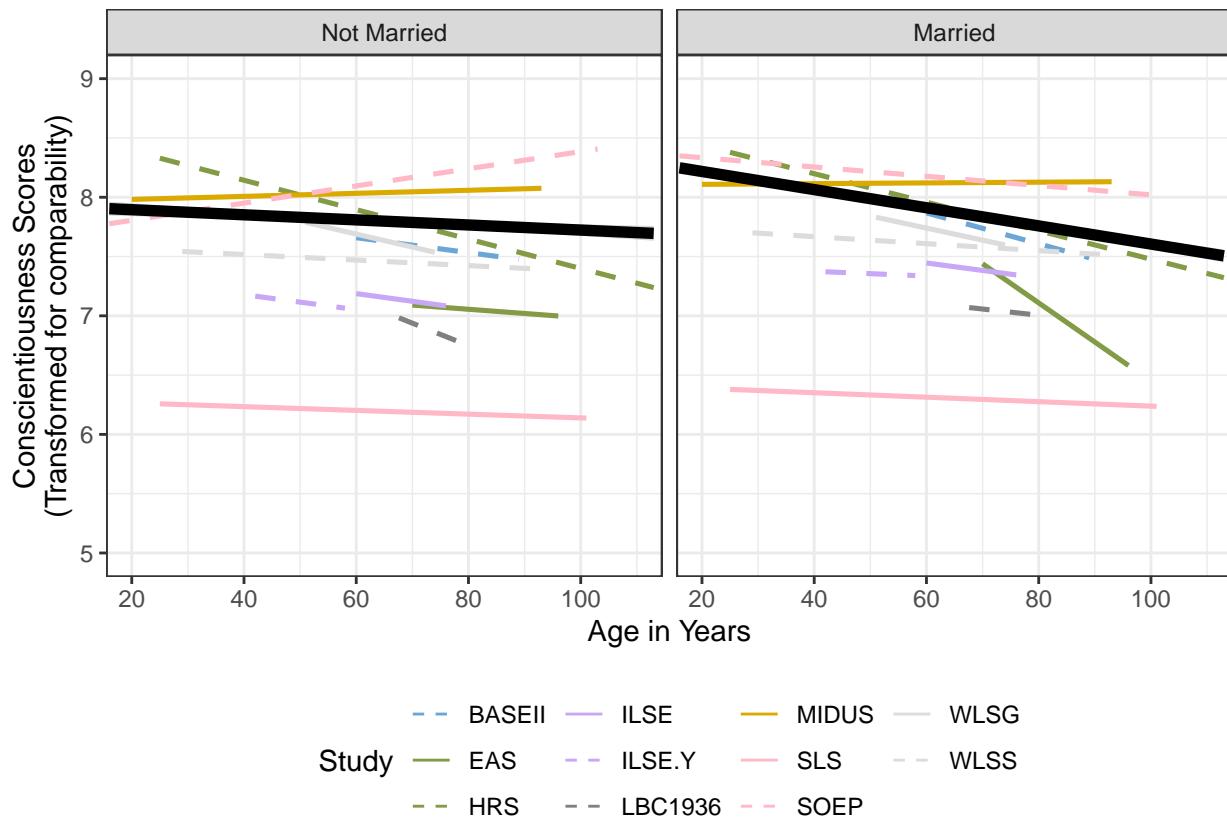


Figure S94: Married, Plot (Conscientiousness). Linear Trajectories of Conscientiousness, moderated by marriage Black line indicates average trajectory weighted by N. At the individual study level, no studies showed strong evidence that being married was associated with greater declines in conscientiousness, and the meta-analytic average was not significant ($p = .365$)

Married, Plot, unweighted, Conscientiousness

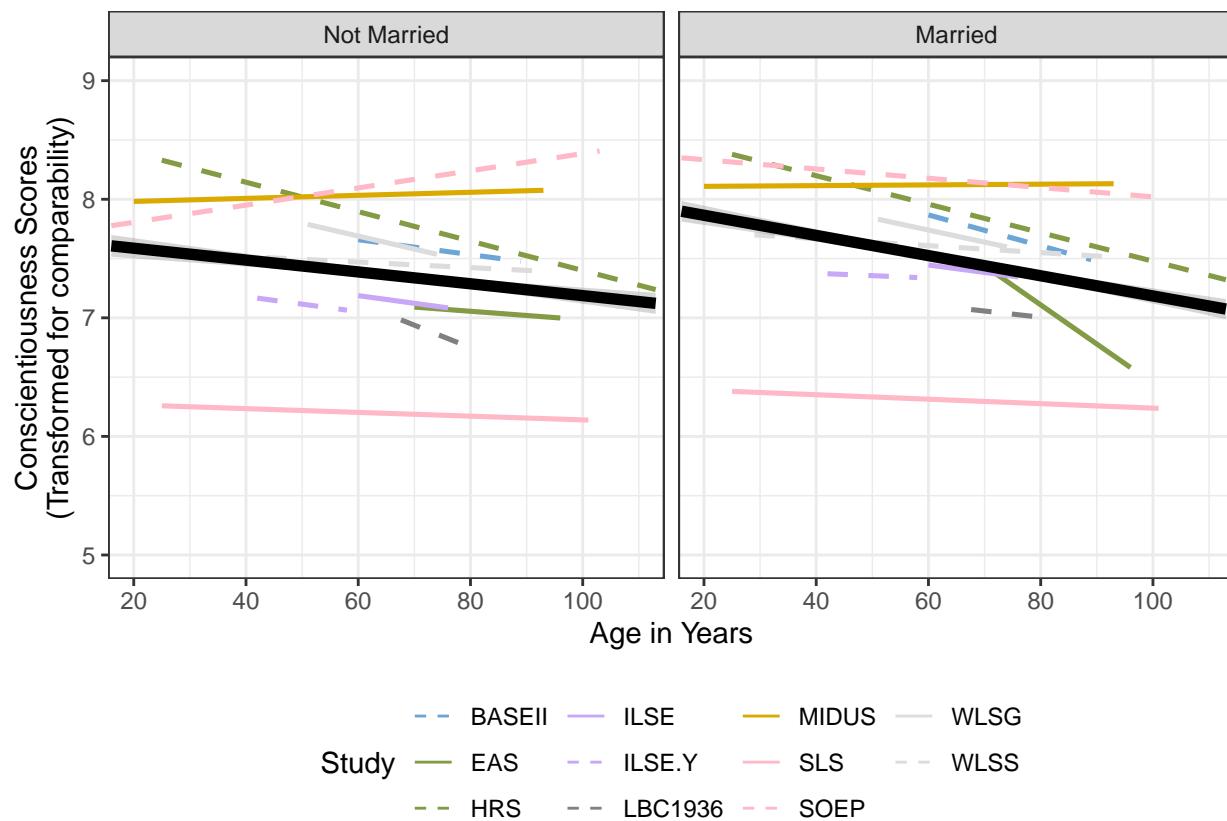


Figure S95: Married, Plot, unweighted, Conscientiousness

Married, Meta Analysis, Conscientiousness

```
##  
## Random-Effects Model (k = 11; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##  10.6762  -21.3525  -17.3525  -16.7473  -15.6382  
##  
## tau^2 (estimated amount of total heterogeneity): 0.0026 (SE = 0.0018)  
## tau (square root of estimated tau^2 value):       0.0511  
## I^2 (total heterogeneity / total variability):   86.49%  
## H^2 (total variability / sampling variability):  7.40  
##  
## Test for Heterogeneity:  
## Q(df = 10) = 127.9998, p-val < .0001  
##  
## Model Results:  
##  
## estimate      se     zval    pval    ci.lb    ci.ub  
## -0.0180  0.0199  -0.9055  0.3652  -0.0571  0.0210  
##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 11; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##  9.0823  -18.1646  -12.1646  -11.5729  -7.3646  
##  
## tau^2 (estimated amount of residual heterogeneity):      0.0028 (SE = 0.0020)  
## tau (square root of estimated tau^2 value):            0.0525  
## I^2 (residual heterogeneity / unaccounted variability): 84.18%  
## H^2 (unaccounted variability / sampling variability):  6.32  
## R^2 (amount of heterogeneity accounted for):          0.00%  
##  
## Test for Residual Heterogeneity:  
## QE(df = 9) = 79.2123, p-val < .0001  
##  
## Test of Moderators (coefficient 2):  
## QM(df = 1) = 0.1172, p-val = 0.7321  
##  
## Model Results:  
##  
##           estimate      se     zval    pval    ci.lb    ci.ub  
## intrcpt   -0.0605  0.1259  -0.4801  0.6311  -0.3073  0.1864  
## age        0.0007  0.0022   0.3423  0.7321  -0.0035  0.0050  
##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 11; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc
```

```

##    9.7205 -19.4410 -9.4410 -9.7115 50.5590
##
## tau^2 (estimated amount of residual heterogeneity):      0.0000 (SE = 0.0002)
## tau (square root of estimated tau^2 value):             0.0006
## I^2 (residual heterogeneity / unaccounted variability): 0.05%
## H^2 (unaccounted variability / sampling variability):  1.00
## R^2 (amount of heterogeneity accounted for):          99.99%
##
## Test for Residual Heterogeneity:
## QE(df = 7) = 11.8165, p-val = 0.1068
##
## Test of Moderators (coefficients 2:4):
## QM(df = 3) = 115.6960, p-val < .0001
##
## Model Results:
##
##           estimate      se     zval   pval    ci.lb    ci.ub
## intrcpt       0.0023  0.0148  0.1538  0.8778 -0.0268  0.0313
## countryGermany -0.1121  0.0163 -6.8930 <.0001 -0.1440 -0.0802 *** 
## countryU.S.    -0.0072  0.0175 -0.4093  0.6824 -0.0415  0.0271
## countryUK        0.1345  0.0700  1.9208  0.0548 -0.0027  0.2717  
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Mixed-Effects Model (k = 11; tau^2 estimator: REML)
##
## logLik  deviance      AIC      BIC      AICc
## 5.4142 -10.8284  3.1716  0.4377 115.1716
##
## tau^2 (estimated amount of residual heterogeneity):      0.0000 (SE = 0.0003)
## tau (square root of estimated tau^2 value):             0.0009
## I^2 (residual heterogeneity / unaccounted variability): 0.11%
## H^2 (unaccounted variability / sampling variability):  1.00
## R^2 (amount of heterogeneity accounted for):          99.97%
##
## Test for Residual Heterogeneity:
## QE(df = 5) = 11.2077, p-val = 0.0474
##
## Test of Moderators (coefficients 2:6):
## QM(df = 5) = 115.7952, p-val < .0001
##
## Model Results:
##
##           estimate      se     zval   pval    ci.lb    ci.ub
## intrcpt       0.0023  0.0148  0.1537  0.8779 -0.0268  0.0313
## scaleBFI-S    -0.1136  0.0163 -6.9733 <.0001 -0.1456 -0.0817 *** 
## scaleIPIP      0.0240  0.0608  0.3938  0.6937 -0.0953  0.1432
## scaleMIDI     -0.0053  0.0178 -0.2971  0.7664 -0.0403  0.0297
## scaleNEO-FFI    0.0210  0.0643  0.3262  0.7443 -0.1051  0.1470
## scaleNEO-PI-R   -0.0053  0.0311 -0.1702  0.8649 -0.0663  0.0557
##
## ---

```

```

## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Mixed-Effects Model (k = 11; tau^2 estimator: REML)
##
##   logLik  deviance      AIC      BIC      AICc
##  12.3222 -24.6443 -18.6443 -18.0527 -13.8443
##
## tau^2 (estimated amount of residual heterogeneity): 0.0018 (SE = 0.0013)
## tau (square root of estimated tau^2 value):        0.0430
## I^2 (residual heterogeneity / unaccounted variability): 80.51%
## H^2 (unaccounted variability / sampling variability): 5.13
## R^2 (amount of heterogeneity accounted for):       29.19%
##
## Test for Residual Heterogeneity:
## QE(df = 9) = 63.6504, p-val < .0001
##
## Test of Moderators (coefficient 2):
## QM(df = 1) = 6.0175, p-val = 0.0142
##
## Model Results:
##
##           estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt    0.0660  0.0388  1.7036  0.0885 -0.0099  0.1420  .
## mo        -0.0235  0.0096 -2.4531  0.0142 -0.0423 -0.0047  *
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

```

\subsection{Divorce, Table, Conscientiousness}

Table S57: Linear Trajectories of Conscientiousness, Moderated by Divorce

coef	BASEII	EAS	HRS	ILSE	ILSE.Y	LBC1936	MIDUS	SLS	SOEP	WLSG	WLSS
Fixed Effects											
Intercept	7.84	7.38	7.94	7.42	7.29	7.14	8.09	6.28	8.15	7.73	7.59
Age	0.06 p < .001	0.13 p < .001	0.01 p < .001	0.05 p < .001	0.07 p < .001	0.05 p < .001	0.01 p < .001	0.03 p < .001	0.01 p < .001	0.01 p < .001	0.01 p < .001
divorce	-0.12 p = 0.013	-0.15 p = 0.008	-0.12 p < .001	-0.06 p = 0.078	-0.01 p = 0.405	-0.09 p = 0.002	0.00 p = 0.38	-0.02 p = 0.11	0.03 p < .001	-0.10 p < .001	-0.03 p < .001
Age x divorce	0.05 p = 0.016	0.06 p = 0.452	0.01 p = 0.412	0.04 p = 0.003	0.04 p = 0.096	0.03 p = 0.064	0.01 p = 0.258	0.01 p = 0.413	0.01 p = 0.433	0.01 p = 0.422	0.01 p = 0.003
τ_{00}	0.65	1.61	0.58	0.71	0.88	1.09	0.63	0.83	0.41	0.66	0.61
τ_{01}	-0.01	-0.40	0.00	-0.08	0.14	-0.26	0.02	-0.05	0.02	0.01	-0.01
σ^2	0.06	0.20	0.04	0.17	0.11	0.21	0.02	0.03	0.03	0.06	0.05
N_{people}	1,005	712	15,420	488	499	1,032	6,406	1,504	20,777	7,641	4,426
N_{obs}	3,544	1,664	34,268	1,223	1,265	3,013	12,990	3,954	56,488	17,749	9,317
LL	-4033	-2005	-44380	-1485	-1541	-3307	-16957	-3858	-72422	-22454	-11526

^a LL = Log Likelihood; Age = age (centered at 60)

Divorce, Plot, Conscientiousness

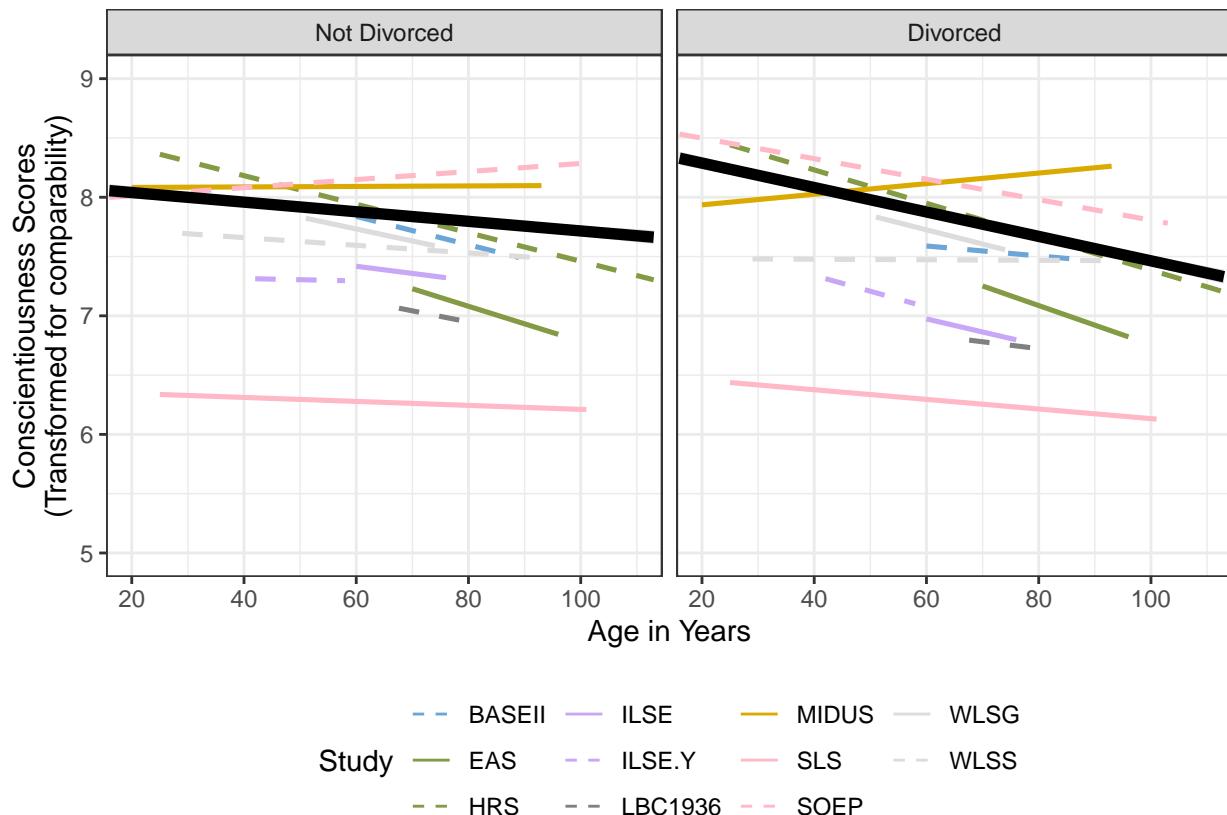


Figure S96: Divorce, Plot (Conscientiousness). Linear Trajectories of Conscientiousness, moderated by divorce. Black line indicates average trajectory weighted by N. At the individual study level, some showed evidence that being divorced was associated with greater declines in conscientiousness, and the meta-analytic average was not significant ($p = .377$)

Divorce, Plot, unweighted, Conscientiousness

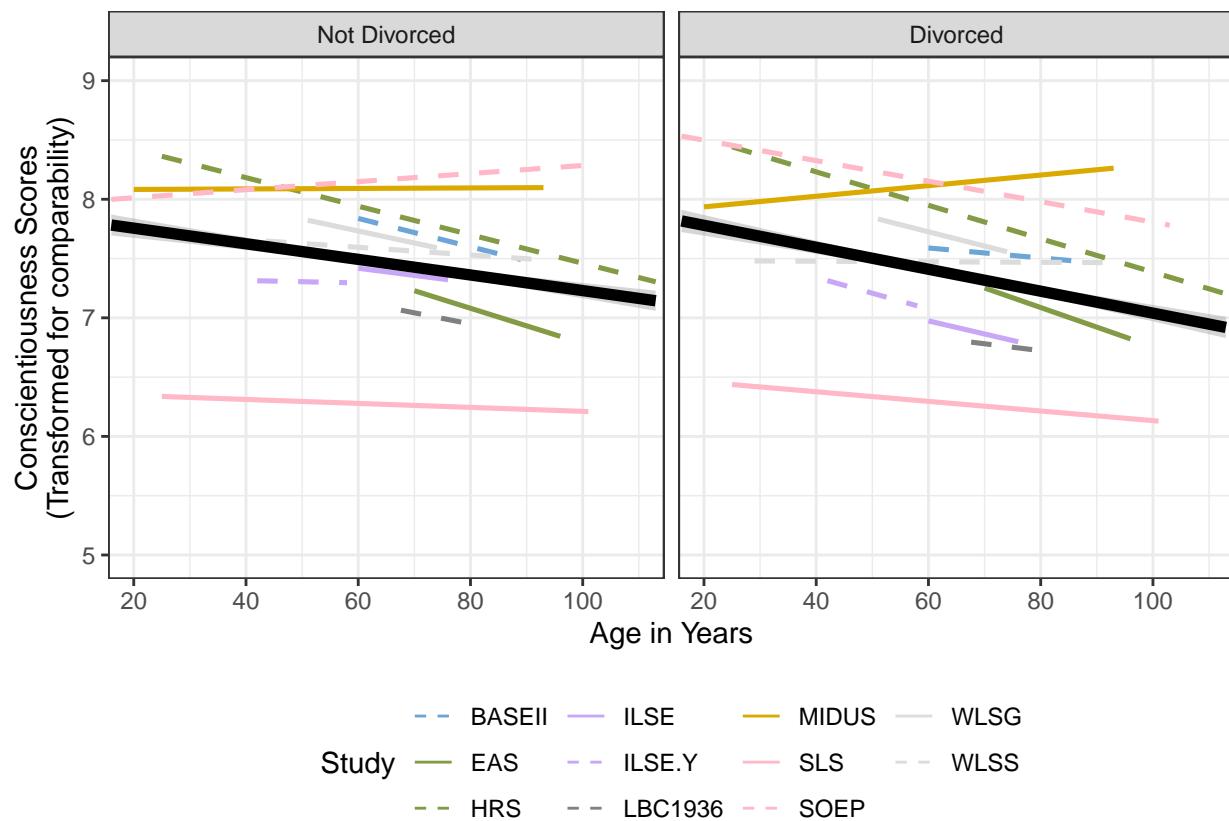


Figure S97: Divorce, Plot, unweighted, Conscientiousness

Divorce, Meta Analysis, Conscientiousness

```
##  
## Random-Effects Model (k = 11; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##  11.6621  -23.3243  -19.3243  -18.7191  -17.6100  
##  
## tau^2 (estimated amount of total heterogeneity): 0.0028 (SE = 0.0021)  
## tau (square root of estimated tau^2 value):       0.0531  
## I^2 (total heterogeneity / total variability):   75.46%  
## H^2 (total variability / sampling variability):  4.08  
##  
## Test for Heterogeneity:  
## Q(df = 10) = 53.5741, p-val < .0001  
##  
## Model Results:  
##  
## estimate      se     zval    pval    ci.lb    ci.ub  
## -0.0196  0.0222 -0.8827  0.3774 -0.0632  0.0239  
##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 11; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##  10.3724  -20.7447  -14.7447  -14.1530  -9.9447  
##  
## tau^2 (estimated amount of residual heterogeneity):      0.0032 (SE = 0.0026)  
## tau (square root of estimated tau^2 value):            0.0566  
## I^2 (residual heterogeneity / unaccounted variability): 73.94%  
## H^2 (unaccounted variability / sampling variability):  3.84  
## R^2 (amount of heterogeneity accounted for):          0.00%  
##  
## Test for Residual Heterogeneity:  
## QE(df = 9) = 50.6250, p-val < .0001  
##  
## Test of Moderators (coefficient 2):  
## QM(df = 1) = 0.4296, p-val = 0.5122  
##  
## Model Results:  
##  
##           estimate      se     zval    pval    ci.lb    ci.ub  
## intrcpt   -0.1142  0.1465 -0.7795  0.4357 -0.4012  0.1729  
## age        0.0017  0.0026  0.6554  0.5122 -0.0034  0.0067  
##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 11; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc
```

```

##   9.0813 -18.1626 -8.1626 -8.4331 51.8374
##
## tau^2 (estimated amount of residual heterogeneity):      0.0010 (SE = 0.0013)
## tau (square root of estimated tau^2 value):             0.0310
## I^2 (residual heterogeneity / unaccounted variability): 43.23%
## H^2 (unaccounted variability / sampling variability):  1.76
## R^2 (amount of heterogeneity accounted for):          65.88%
##
## Test for Residual Heterogeneity:
## QE(df = 7) = 11.7261, p-val = 0.1099
##
## Test of Moderators (coefficients 2:4):
## QM(df = 3) = 8.7303, p-val = 0.0331
##
## Model Results:
##
##           estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt       0.0028  0.0289  0.0958  0.9237 -0.0538  0.0594
## countryGermany -0.1040  0.0423 -2.4595  0.0139 -0.1869 -0.0211 *
## countryU.S.      0.0003  0.0367  0.0076  0.9939 -0.0717  0.0723
## countryUK        0.0328  0.1335  0.2460  0.8057 -0.2288  0.2944
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Mixed-Effects Model (k = 11; tau^2 estimator: REML)
##
## logLik  deviance      AIC      BIC      AICc
## 5.6687 -11.3375  2.6625 -0.0714 114.6625
##
## tau^2 (estimated amount of residual heterogeneity):      0.0015 (SE = 0.0020)
## tau (square root of estimated tau^2 value):             0.0390
## I^2 (residual heterogeneity / unaccounted variability): 57.84%
## H^2 (unaccounted variability / sampling variability):  2.37
## R^2 (amount of heterogeneity accounted for):          46.04%
##
## Test for Residual Heterogeneity:
## QE(df = 5) = 11.1706, p-val = 0.0481
##
## Test of Moderators (coefficients 2:6):
## QM(df = 5) = 6.0463, p-val = 0.3017
##
## Model Results:
##
##           estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt       0.0035  0.0334  0.1035  0.9176 -0.0620  0.0689
## scaleBFI-S     -0.0988  0.0516 -1.9167  0.0553 -0.1999  0.0022 .
## scaleIPIP       0.0127  0.1103  0.1149  0.9086 -0.2034  0.2288
## scaleMIDI       0.0070  0.0453  0.1546  0.8772 -0.0818  0.0958
## scaleNEO-FFI    -0.1005  0.0946 -1.0622  0.2882 -0.2860  0.0850
## scaleNEO-PI-R    -0.0273  0.0655 -0.4165  0.6770 -0.1557  0.1012
##
## ---

```

```

## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Mixed-Effects Model (k = 11; tau^2 estimator: REML)
##
##   logLik  deviance      AIC      BIC      AICc
## 10.8139 -21.6277 -15.6277 -15.0360 -10.8277
##
## tau^2 (estimated amount of residual heterogeneity): 0.0028 (SE = 0.0021)
## tau (square root of estimated tau^2 value):        0.0528
## I^2 (residual heterogeneity / unaccounted variability): 75.19%
## H^2 (unaccounted variability / sampling variability): 4.03
## R^2 (amount of heterogeneity accounted for):       1.16%
##
## Test for Residual Heterogeneity:
## QE(df = 9) = 41.6113, p-val < .0001
##
## Test of Moderators (coefficient 2):
## QM(df = 1) = 0.0951, p-val = 0.7578
##
## Model Results:
##
##           estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt  -0.0050  0.0525 -0.0946  0.9247 -0.1079  0.0979
## mo        -0.0041  0.0134 -0.3084  0.7578 -0.0305  0.0222
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

```

Widow, Table, Conscientiousness

Table S58: Linear Trajectories of Conscientiousness, Moderated by Widowhood

coef	BASEII	EAS	HRS	ILSE	LBC1936	SLS	SOEP
Fixed Effects							
Intercept	7.78	7.59	7.95	7.38	7.11	6.28	8.15
	0.05	0.14	0.01	0.05	0.05	0.03	0.01
	p < .001	p < .001					
Age	-0.11	-0.27	-0.13	-0.07	-0.08	-0.01	0.03
	0.05	0.07	0.01	0.04	0.03	0.01	0
	p = 0.012	p < .001	p < .001	p = 0.062	p = 0.01	p = 0.294	p < .001
widow	-0.04	-0.63	-0.05	-0.05	0.06	0.19	0.25
	0.19	0.27	0.03	0.15	0.14	0.14	0.03
	p = 0.408	p = 0.01	p = 0.036	p = 0.374	p = 0.325	p = 0.077	p < .001
Age x widow	0.09	0.32	-0.02	0.01	-0.11	-0.13	-0.21
	0.15	0.12	0.02	0.12	0.09	0.05	0.02
	p = 0.27	p = 0.004	p = 0.247	p = 0.451	p = 0.114	p = 0.008	p < .001
Random Effects							
τ_{00}	0.68	1.53	0.58	0.72	1.09	0.83	0.41
τ_{01}	-0.03	-0.34	0.00	-0.08	-0.25	-0.05	0.02
τ_{11}	0.08	0.17	0.04	0.17	0.21	0.03	0.03
σ^2	0.30	0.27	0.39	0.28	0.21	0.15	0.46
N_{people}	1,005	712	15,420	488	1,032	1,504	20,777
N_{obs}	3,544	1,664	34,268	1,223	3,013	3,954	56,488
LL	-4036	-2002	-44377	-1491	-3308	-3855	-72393

^a LL = Log Likelihood; Age = age (centered at 60)

Widow, Plot, Conscientiousness

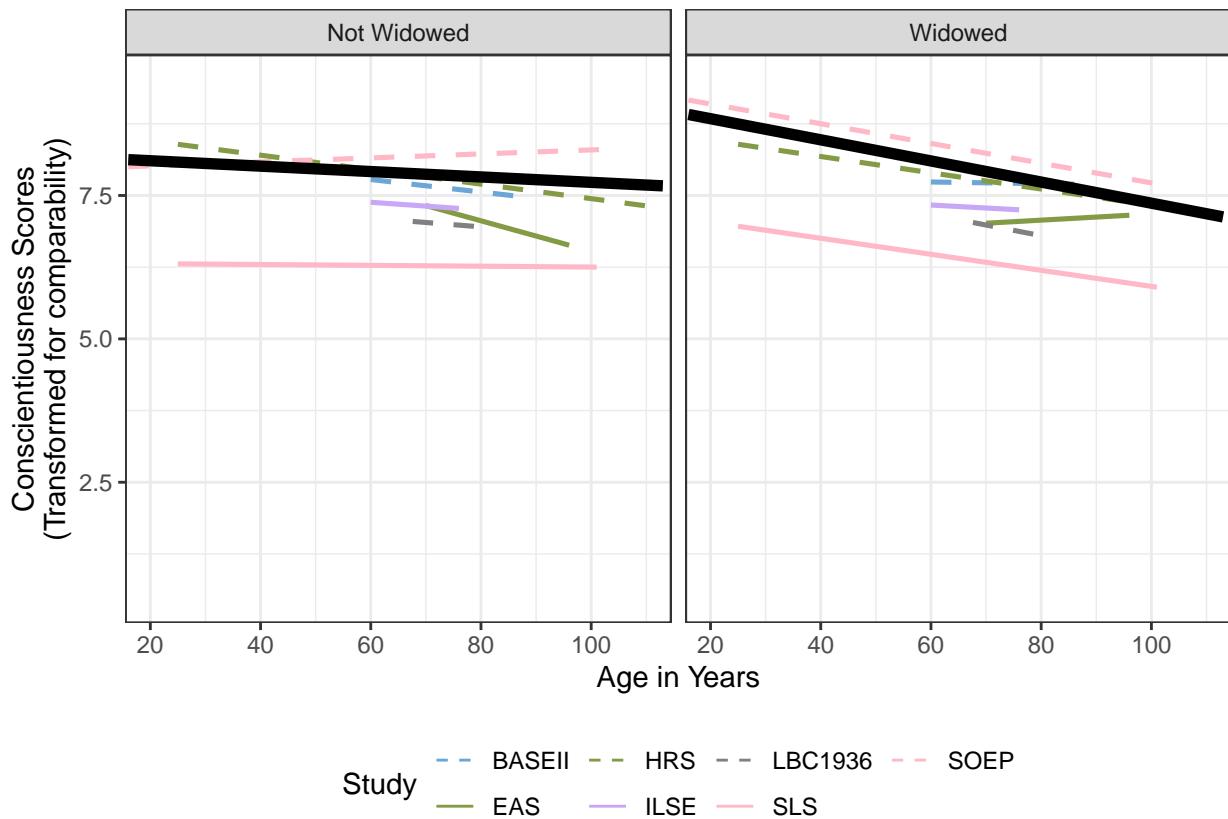


Figure S98: Widow, Plot (Conscientiousness). Linear Trajectories of Conscientiousness, moderated by widowhood. Black line indicates average trajectory weighted by N. At the individual study level, some showed evidence that being widowed was associated with greater declines in conscientiousness, and the meta-analytic average was not significant ($p = .572$)

Widow, Plot, unweighted, Conscientiousness

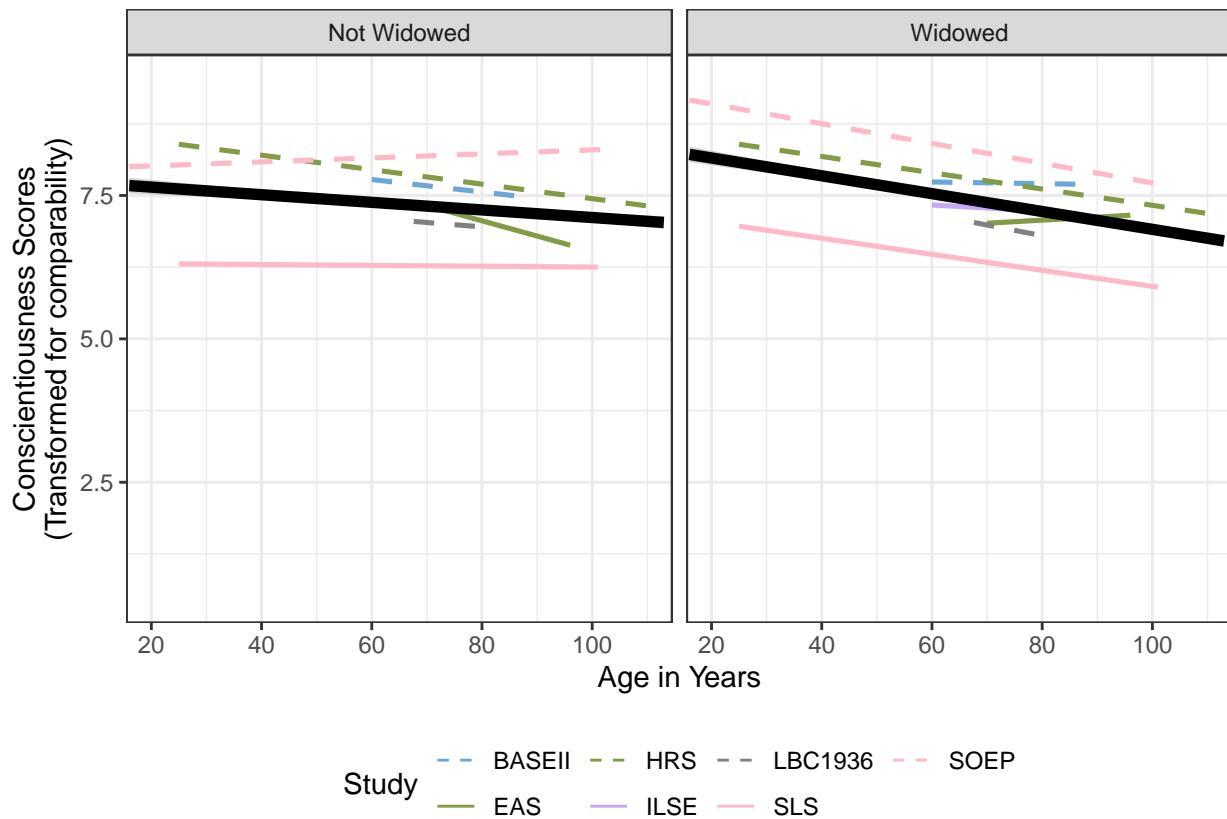


Figure S99: Widow, Plot, unweighted, Conscientiousness

Widow, Meta Analysis, Conscientiousness

```
##  
## Random-Effects Model (k = 7; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##    2.0921   -4.1842   -0.1842   -0.6007   3.8158  
##  
## tau^2 (estimated amount of total heterogeneity): 0.0193 (SE = 0.0150)  
## tau (square root of estimated tau^2 value):       0.1390  
## I^2 (total heterogeneity / total variability): 91.28%  
## H^2 (total variability / sampling variability): 11.47  
##  
## Test for Heterogeneity:  
## Q(df = 6) = 59.9897, p-val < .0001  
##  
## Model Results:  
##  
## estimate      se     zval     pval    ci.lb    ci.ub  
## -0.0347  0.0615  -0.5645  0.5724  -0.1553  0.0858  
##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 7; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##    3.6519   -7.3038   -1.3038   -2.4755   22.6962  
##  
## tau^2 (estimated amount of residual heterogeneity):      0.0028 (SE = 0.0050)  
## tau (square root of estimated tau^2 value):            0.0531  
## I^2 (residual heterogeneity / unaccounted variability): 37.20%  
## H^2 (unaccounted variability / sampling variability):  1.59  
## R^2 (amount of heterogeneity accounted for):           85.44%  
##  
## Test for Residual Heterogeneity:  
## QE(df = 5) = 8.2736, p-val = 0.1418  
##  
## Test of Moderators (coefficient 2):  
## QM(df = 1) = 11.6123, p-val = 0.0007  
##  
## Model Results:  
##  
##          estimate      se     zval     pval    ci.lb    ci.ub  
## intrcpt  -0.7377  0.1961  -3.7621  0.0002  -1.1220  -0.3534 ***  
## age       0.0108  0.0032   3.4077  0.0007   0.0046   0.0169 ***  
##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 7; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc
```

```

##    0.8026   -1.6053    6.3947    3.9399   46.3947
##
## tau^2 (estimated amount of residual heterogeneity):      0.0294 (SE = 0.0264)
## tau (square root of estimated tau^2 value):             0.1715
## I^2 (residual heterogeneity / unaccounted variability): 86.87%
## H^2 (unaccounted variability / sampling variability):   7.61
## R^2 (amount of heterogeneity accounted for):            0.00%
##
## Test for Residual Heterogeneity:
## QE(df = 4) = 18.9974, p-val = 0.0008
##
## Test of Moderators (coefficients 2:3):
## QM(df = 2) = 0.5704, p-val = 0.7519
##
## Model Results:
##
##           estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt     -0.0646  0.1155  -0.5591  0.5761  -0.2909  0.1618
## countryU.S.    0.0949  0.1576   0.6024  0.5469  -0.2140  0.4038
## countryUK     -0.0443  0.2256  -0.1964  0.8443  -0.4865  0.3979
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Mixed-Effects Model (k = 7; tau^2 estimator: REML)
##
## logLik  deviance      AIC      BIC      AICc
## -0.1595    0.3191   12.3191   4.4779   96.3191
##
## tau^2 (estimated amount of residual heterogeneity):      0.0571 (SE = 0.0688)
## tau (square root of estimated tau^2 value):             0.2389
## I^2 (residual heterogeneity / unaccounted variability): 82.95%
## H^2 (unaccounted variability / sampling variability):   5.87
## R^2 (amount of heterogeneity accounted for):            0.00%
##
## Test for Residual Heterogeneity:
## QE(df = 2) = 11.8061, p-val = 0.0027
##
## Test of Moderators (coefficients 2:5):
## QM(df = 4) = 0.7290, p-val = 0.9477
##
## Model Results:
##
##           estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt     -0.0818  0.1832  -0.4464  0.6553  -0.4409  0.2773
## scaleIPIP      0.1769  0.2602   0.6798  0.4966  -0.3331  0.6869
## scaleMIDI      0.0662  0.3019   0.2191  0.8265  -0.5256  0.6579
## scaleNEO-FFI     0.0967  0.3248   0.2978  0.7658  -0.5399  0.7334
## scaleNEO-PI-R    -0.0506  0.3059  -0.1654  0.8686  -0.6502  0.5490
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##

```

```

## Mixed-Effects Model (k = 7; tau^2 estimator: REML)
##
##    logLik  deviance      AIC      BIC      AICc
##  3.4743   -6.9487   -0.9487   -2.1204   23.0513
##
## tau^2 (estimated amount of residual heterogeneity):     0.0098 (SE = 0.0092)
## tau (square root of estimated tau^2 value):            0.0988
## I^2 (residual heterogeneity / unaccounted variability): 85.23%
## H^2 (unaccounted variability / sampling variability):  6.77
## R^2 (amount of heterogeneity accounted for):          49.52%
##
## Test for Residual Heterogeneity:
## QE(df = 5) = 58.1203, p-val < .0001
##
## Test of Moderators (coefficient 2):
## QM(df = 1) = 5.3558, p-val = 0.0207
##
## Model Results:
##
##           estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt   -0.1962  0.0792  -2.4783  0.0132  -0.3513  -0.0410  *
## mo        0.0305  0.0132   2.3143  0.0207   0.0047   0.0563  *
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

```

Health, Table, Conscientiousness

Table S59: Linear Trajectories of Conscientiousness, Moderated by Health Conditions

coef	BASEII	EAS	HRS	ILSE	LBC1936	MIDUS	SLS	SOEP	WLSG	WLSS
Fixed Effects										
Intercept	7.74	7.83	8.05	7.50	7.15	8.17	6.32	8.18	7.78	7.64
Age	0.07 p < .001	0.22 p < .001	0.02 p < .001	0.07 p < .001	0.07 p < .001	0.02 p < .001	0.03 p < .001	0.01 p < .001	0.01 p < .001	0.02 p < .001
health	-0.04 p = 0.252	-0.35 p < .001	-0.10 p < .001	-0.10 p = 0.044	-0.06 p = 0.111	0.03 p < .001	0.01 p = 0.259	0.06 p < .001	-0.09 p < .001	-0.01 p = 0.199
Age x health	0.07 p = 0.392	0.1 p = 0.009	0.01 p < .001	0.06 p = 0.014	0.05 p = 0.266	0.01 p < .001	0.02 p = 0.133	0.01 p = 0.003	0.01 p < .001	0.01 p < .001
health	0.03 0.1	-0.62 0.26	-0.17 0.02	-0.21 0.1	-0.06 0.1	-0.17 0.03	-0.06 0.06	-0.03 0.01	-0.12 0.02	-0.10 0.03
Age x health	-0.07 p = 0.204	0.29 p = 0.009	-0.01 p = 0.217	0.07 p = 0.202	-0.07 p = 0.138	-0.04 p = 0.003	-0.06 p = 0.015	-0.10 p < .001	-0.05 p = 0.003	-0.06 p = 0.002
Random Effects										
τ_{00}	0.71	1.47	0.57	0.71	1.09	0.63	0.83	0.42	0.66	0.61
τ_{01}	-0.04	-0.32	0.00	-0.08	-0.26	0.02	-0.05	0.03	0.01	-0.01
τ_{11}	0.08	0.16	0.04	0.17	0.21	0.02	0.03	0.04	0.06	0.05
σ^2	0.30	0.28	0.39	0.28	0.21	0.40	0.15	0.46	0.32	0.30
N_{people}	1,276	713	16,046	488	1,032	6,409	1,535	33,612	6,836	3,820
N_{obs}	3,816	1,667	35,017	1,223	3,013	12,994	4,000	74,026	16,590	8,435
LL	-4431	-2007	-45404	-1489	-3306	-16944	-3915	-96384	-20853	-10374

^a LL = Log Likelihood; Age = age (centered at 60)

Health, Plot, Conscientiousness

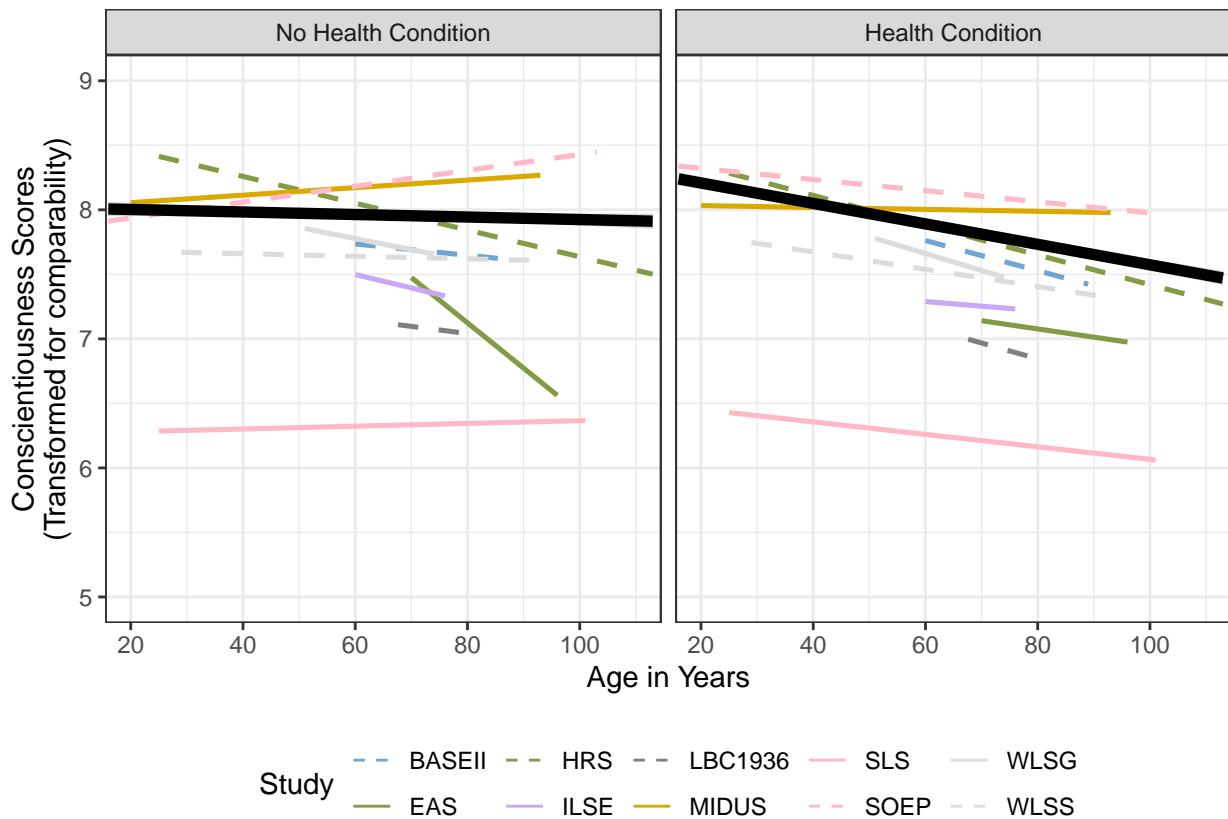


Figure S100: Health, Plot (Conscientiousness). Linear Trajectories of Conscientiousness, moderated by health. Black line indicates average trajectory weighted by N. At the individual study level, a few showed evidence that having a health condition was associated with greater declines in conscientiousness, and the meta-analytic average was significant ($p = .001$).

Health, Plot, unweighted, Conscientiousness

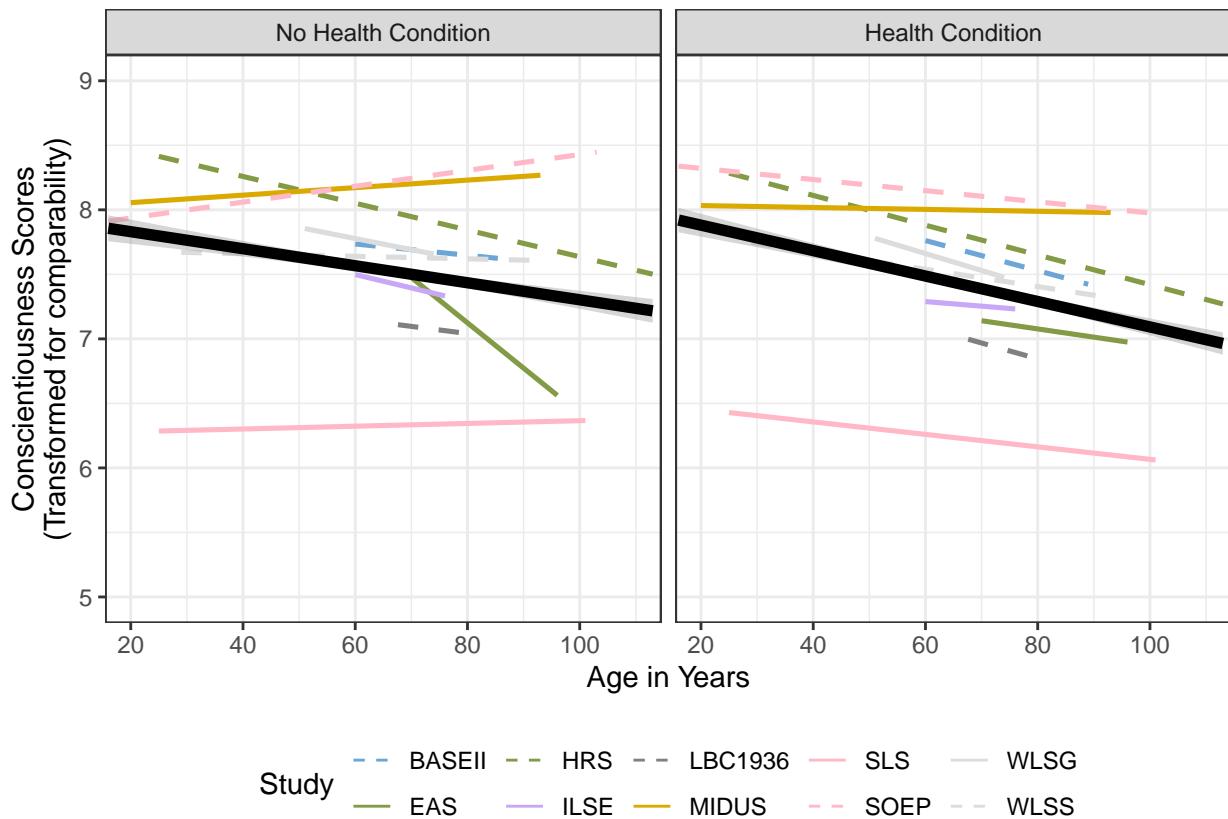


Figure S101: Health, Plot, unweighted (Conscientiousness). Linear Trajectories of Conscientiousness, moderated by heart conditions. Black line indicates average trajectory weighted by N. At the individual study level, some showed evidence that having a heart condition was associated with greater declines in conscientiousness, and the meta-analytic average was significant ($p = .012$).

Health, Meta Analysis, Conscientiousness

```
##  
## Random-Effects Model (k = 10; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##  11.4006  -22.8012  -18.8012  -18.4067  -16.8012  
##  
## tau^2 (estimated amount of total heterogeneity): 0.0011 (SE = 0.0008)  
## tau (square root of estimated tau^2 value):       0.0326  
## I^2 (total heterogeneity / total variability):   74.72%  
## H^2 (total variability / sampling variability):  3.96  
##  
## Test for Heterogeneity:  
## Q(df = 9) = 56.4678, p-val < .0001  
##  
## Model Results:  
##  
## estimate      se     zval    pval    ci.lb    ci.ub  
## -0.0467  0.0142  -3.2979  0.0010  -0.0745  -0.0190  ***  
##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 10; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##  11.1036  -22.2071  -16.2071  -15.9688  -10.2071  
##  
## tau^2 (estimated amount of residual heterogeneity):      0.0007 (SE = 0.0007)  
## tau (square root of estimated tau^2 value):            0.0270  
## I^2 (residual heterogeneity / unaccounted variability): 63.15%  
## H^2 (unaccounted variability / sampling variability):  2.71  
## R^2 (amount of heterogeneity accounted for):           31.56%  
##  
## Test for Residual Heterogeneity:  
## QE(df = 8) = 31.0111, p-val = 0.0001  
##  
## Test of Moderators (coefficient 2):  
## QM(df = 1) = 4.0883, p-val = 0.0432  
##  
## Model Results:  
##  
##          estimate      se     zval    pval    ci.lb    ci.ub  
## intrcpt  -0.2090  0.0803  -2.6021  0.0093  -0.3664  -0.0516  **  
## age       0.0029  0.0014   2.0220  0.0432   0.0001   0.0057   *  
##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 10; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc
```

```

##    7.0233 -14.0465 -4.0465 -5.0877 55.9535
##
## tau^2 (estimated amount of residual heterogeneity):      0.0001 (SE = 0.0003)
## tau (square root of estimated tau^2 value):             0.0078
## I^2 (residual heterogeneity / unaccounted variability): 9.64%
## H^2 (unaccounted variability / sampling variability):   1.11
## R^2 (amount of heterogeneity accounted for):           94.24%
##
## Test for Residual Heterogeneity:
## QE(df = 6) = 14.4420, p-val = 0.0251
##
## Test of Moderators (coefficients 2:4):
## QM(df = 3) = 24.7491, p-val < .0001
##
## Model Results:
##
##          estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt     -0.0501  0.0138  -3.6297  0.0003  -0.0771  -0.0230  ***
## countryGermany -0.0512  0.0175  -2.9190  0.0035  -0.0855  -0.0168  **
## countryU.S.      0.0228  0.0174   1.3132  0.1891  -0.0112   0.0568
## countryUK       -0.0174  0.0639  -0.2720  0.7856  -0.1427   0.1079
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Mixed-Effects Model (k = 10; tau^2 estimator: REML)
##
##          logLik  deviance      AIC      BIC     AICc
##          5.3695 -10.7391   3.2609 -1.0350  115.2609
##
## tau^2 (estimated amount of residual heterogeneity):      0.0000 (SE = 0.0003)
## tau (square root of estimated tau^2 value):             0.0046
## I^2 (residual heterogeneity / unaccounted variability): 4.30%
## H^2 (unaccounted variability / sampling variability):   1.04
## R^2 (amount of heterogeneity accounted for):           97.98%
##
## Test for Residual Heterogeneity:
## QE(df = 4) = 8.6685, p-val = 0.0699
##
## Test of Moderators (coefficients 2:6):
## QM(df = 5) = 39.5750, p-val < .0001
##
## Model Results:
##
##          estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt     -0.0500  0.0130  -3.8339  0.0001  -0.0755  -0.0244  ***
## scaleBFI-S     -0.0544  0.0158  -3.4418  0.0006  -0.0854  -0.0234  ***
## scaleIPIP      0.0558  0.0568   0.9820  0.3261  -0.0556   0.1672
## scaleMIDI      0.0249  0.0167   1.4918  0.1357  -0.0078   0.0577
## scaleNEO-FFI    0.1181  0.0829   1.4245  0.1543  -0.0444   0.2806
## scaleNEO-PI-R   -0.0091  0.0304  -0.2992  0.7648  -0.0688   0.0506
##
## ---

```

```

## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Mixed-Effects Model (k = 10; tau^2 estimator: REML)
##
##   logLik  deviance      AIC      BIC      AICc
##  12.2353 -24.4707 -18.4707 -18.2323 -12.4707
##
## tau^2 (estimated amount of residual heterogeneity): 0.0015 (SE = 0.0011)
## tau (square root of estimated tau^2 value):        0.0387
## I^2 (residual heterogeneity / unaccounted variability): 79.61%
## H^2 (unaccounted variability / sampling variability): 4.90
## R^2 (amount of heterogeneity accounted for):       0.00%
##
## Test for Residual Heterogeneity:
## QE(df = 8) = 52.2387, p-val < .0001
##
## Test of Moderators (coefficient 2):
## QM(df = 1) = 4.3162, p-val = 0.0378
##
## Model Results:
##
##           estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt  -0.1171  0.0383 -3.0559  0.0022 -0.1923 -0.0420  **
## mo        0.0203  0.0097  2.0775  0.0378  0.0011  0.0394   *
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

```

Heart, Table, Conscientiousness

Table S60: Linear Trajectories of Conscientiousness, Moderated by Heart Conditions

coef	BASEII	HRS	ILSE	LBC1936	MIDUS	SLS	SOEP	WLSG	WLSS
Fixed Effects									
Intercept	7.75	7.97	7.40	7.13	8.12	6.30	8.16	7.75	7.61
	0.05	0.01	0.05	0.06	0.01	0.03	0.01	0.01	0.02
	p < .001								
Age	-0.09	-0.11	-0.07	-0.09	0.02	-0.01	0.05	-0.10	-0.03
	0.05	0.01	0.04	0.04	0.01	0.02	0	0.01	0.01
	p = 0.029	p < .001	p = 0.045	p = 0.006	p = 0.013	p = 0.349	p < .001	p < .001	p = 0.001
heart	0.08	-0.17	-0.41	-0.08	-0.18	0.12	0.04	-0.10	-0.10
	0.16	0.03	0.23	0.11	0.04	0.08	0.02	0.05	0.05
	p = 0.304	p < .001	p = 0.035	p = 0.246	p < .001	p = 0.068	p = 0.055	p = 0.017	p = 0.035
Age x heart	0.00	0.00	0.13	-0.02	-0.03	-0.12	-0.10	-0.03	-0.02
	0.13	0.02	0.28	0.07	0.02	0.04	0.01	0.03	0.04
	p = 0.498	p = 0.455	p = 0.32	p = 0.407	p = 0.052	p < .001	p < .001	p = 0.164	p = 0.329
Random Effects									
τ_{00}	0.71	0.57	0.72	1.09	0.63	0.80	0.42	0.66	0.61
τ_{01}	-0.04	0.00	-0.08	-0.26	0.02	-0.04	0.03	0.01	-0.01
τ_{11}	0.08	0.04	0.17	0.21	0.02	0.03	0.04	0.07	0.05
σ^2	0.30	0.39	0.28	0.21	0.40	0.14	0.46	0.32	0.30
N_{people}	1,276	16,030	488	1,032	6,391	1,271	33,612	6,836	3,791
N_{obs}	3,816	34,985	1,223	3,013	12,958	3,185	74,026	16,590	8,381
LL	-4431	-45371	-1489	-3308	-16909	-3103	-96450	-20866	-10296

^a LL = Log Likelihood; Age = age (centered at 60)

Heart, Plot, Conscientiousness

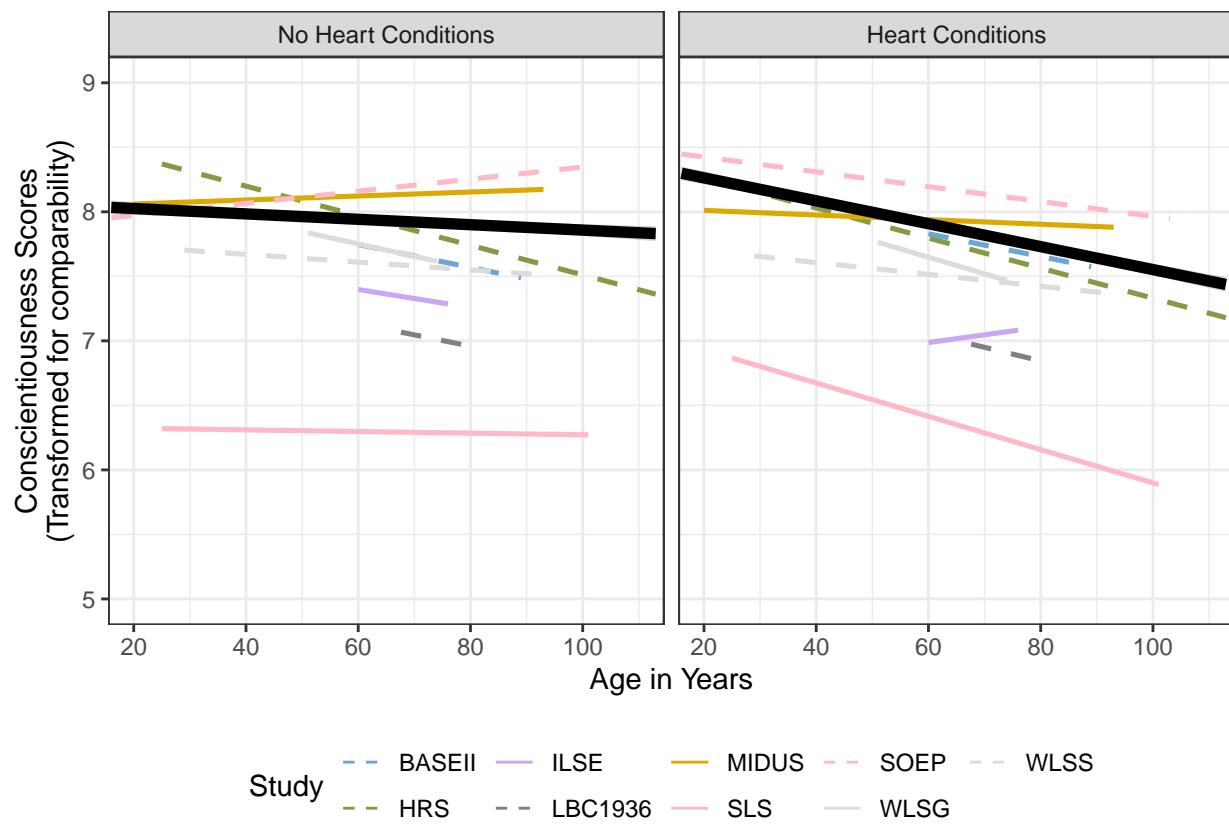


Figure S102: Heart, Plot, Conscientiousness

Heart, Plot, unweighted, Conscientiousness

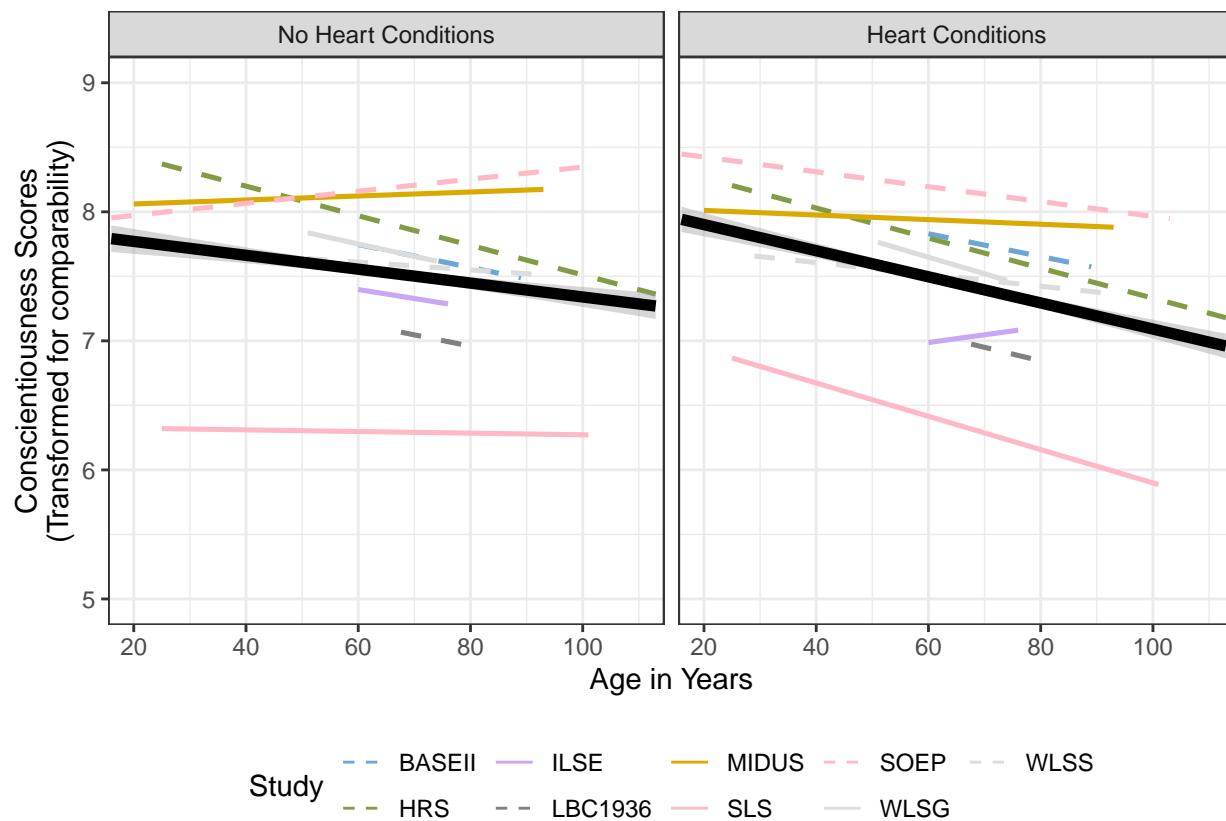


Figure S103: Heart, Plot, unweighted, Conscientiousness

Heart, Meta Analysis, Consciousness

```
##  
## Random-Effects Model (k = 9; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##  10.6770  -21.3540  -17.3540  -17.1951  -14.9540  
##  
## tau^2 (estimated amount of total heterogeneity): 0.0017 (SE = 0.0014)  
## tau (square root of estimated tau^2 value):        0.0407  
## I^2 (total heterogeneity / total variability):   68.76%  
## H^2 (total variability / sampling variability):  3.20  
##  
## Test for Heterogeneity:  
## Q(df = 8) = 30.5916, p-val = 0.0002  
##  
## Model Results:  
##  
## estimate      se     zval     pval    ci.lb    ci.ub  
## -0.0474  0.0189  -2.5036  0.0123  -0.0846  -0.0103  *  
##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 9; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##  9.0140  -18.0280  -12.0280  -12.1903  -4.0280  
##  
## tau^2 (estimated amount of residual heterogeneity):      0.0017 (SE = 0.0017)  
## tau (square root of estimated tau^2 value):            0.0411  
## I^2 (residual heterogeneity / unaccounted variability): 62.40%  
## H^2 (unaccounted variability / sampling variability):  2.66  
## R^2 (amount of heterogeneity accounted for):          0.00%  
##  
## Test for Residual Heterogeneity:  
## QE(df = 7) = 18.2372, p-val = 0.0109  
##  
## Test of Moderators (coefficient 2):  
## QM(df = 1) = 0.6304, p-val = 0.4272  
##  
## Model Results:  
##  
##           estimate      se     zval     pval    ci.lb    ci.ub  
## intrcpt  -0.1436  0.1227  -1.1707  0.2417  -0.3841  0.0968  
## age       0.0017  0.0022   0.7940  0.4272  -0.0025  0.0059  
##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 9; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc
```

```

##   6.0155 -12.0310 -2.0310 -3.9838  57.9690
##
## tau^2 (estimated amount of residual heterogeneity):      0.0016 (SE = 0.0019)
## tau (square root of estimated tau^2 value):             0.0396
## I^2 (residual heterogeneity / unaccounted variability): 60.91%
## H^2 (unaccounted variability / sampling variability):  2.56
## R^2 (amount of heterogeneity accounted for):          5.50%
##
## Test for Residual Heterogeneity:
## QE(df = 5) = 10.8760, p-val = 0.0539
##
## Test of Moderators (coefficients 2:4):
## QM(df = 3) = 1.7458, p-val = 0.6268
##
## Model Results:
##
##           estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt      -0.0244  0.0371  -0.6590  0.5099  -0.0971  0.0482
## countryGermany -0.0667  0.0544  -1.2256  0.2204  -0.1734  0.0400
## countryU.S.     -0.0185  0.0457  -0.4049  0.6856  -0.1081  0.0711
## countryUK        0.0071  0.0914   0.0772  0.9385  -0.1721  0.1862
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Mixed-Effects Model (k = 9; tau^2 estimator: REML)
##
## logLik  deviance      AIC      BIC      AICc
## 5.8639 -11.7278  2.2722 -4.0375 114.2722
##
## tau^2 (estimated amount of residual heterogeneity):      0.0001 (SE = 0.0005)
## tau (square root of estimated tau^2 value):             0.0071
## I^2 (residual heterogeneity / unaccounted variability): 6.16%
## H^2 (unaccounted variability / sampling variability):  1.07
## R^2 (amount of heterogeneity accounted for):          96.97%
##
## Test for Residual Heterogeneity:
## QE(df = 3) = 2.1949, p-val = 0.5330
##
## Test of Moderators (coefficients 2:6):
## QM(df = 5) = 23.8663, p-val = 0.0002
##
## Model Results:
##
##           estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt      -0.0247  0.0248  -0.9966  0.3189  -0.0734  0.0239
## scaleBFI-S     -0.0782  0.0293  -2.6656  0.0077  -0.1357 -0.0207  **
## scaleIPIP       0.0073  0.0780   0.0942  0.9249  -0.1455  0.1602
## scaleMIDI       0.0106  0.0283   0.3760  0.7069  -0.0448  0.0661
## scaleNEO-FFI     0.1544  0.2781   0.5551  0.5788  -0.3907  0.6994
## scaleNEO-PI-R    -0.0979  0.0447  -2.1898  0.0285  -0.1856 -0.0103  *
##
## ---

```

```

## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Mixed-Effects Model (k = 9; tau^2 estimator: REML)
##
##   logLik  deviance      AIC      BIC      AICc
##  12.3132 -24.6264 -18.6264 -18.7887 -10.6264
##
## tau^2 (estimated amount of residual heterogeneity):      0 (SE = 0.0004)
## tau (square root of estimated tau^2 value):               0
## I^2 (residual heterogeneity / unaccounted variability): 0.00%
## H^2 (unaccounted variability / sampling variability):   1.00
## R^2 (amount of heterogeneity accounted for):            100.00%
##
## Test for Residual Heterogeneity:
## QE(df = 7) = 4.2818, p-val = 0.7468
##
## Test of Moderators (coefficient 2):
## QM(df = 1) = 26.3098, p-val < .0001
##
## Model Results:
##
##           estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt    0.2462  0.0590  4.1754  <.0001   0.1306   0.3617  ***
## mo        -0.0873  0.0170 -5.1293  <.0001  -0.1206  -0.0539  ***
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

```

Lung, Table, Conscientiousness

Table S61: Linear Trajectories of Conscientiousness, Moderated by Lung Conditions

coef	BASEII	EAS	HRS	ILSE	MIDUS
Fixed Effects					
Intercept	7.74	7.43	7.97	7.40	8.13
	0.05	0.13	0.01	0.06	0.01
	p < .001				
Age	-0.08	-0.16	-0.13	-0.06	0.01
	0.05	0.06	0.01	0.06	0.01
	p = 0.034	p = 0.004	p < .001	p = 0.141	p = 0.019
lung	0.13	-0.64	-0.31	-0.15	-0.14
	0.2	0.51	0.04	0.12	0.04
	p = 0.261	p = 0.104	p < .001	p = 0.101	p < .001
Age x lung	-0.06	0.09	0.05	0.00	-0.02
	0.19	0.25	0.02	0.1	0.02
	p = 0.37	p = 0.361	p = 0.023	p = 0.49	p = 0.118
Random Effects					
τ_{00}	0.71	1.61	0.57	0.75	0.62
τ_{01}	-0.04	-0.40	0.00	-0.11	0.02
τ_{11}	0.09	0.21	0.04	0.20	0.02
σ^2	0.30	0.28	0.39	0.28	0.39
N_{people}	1,276	702	16,030	404	6,219
N_{obs}	3,816	1,632	34,987	1,006	12,715
LL	-4432	-1967	-45360	-1239	-16543

^a LL = Log Likelihood; Age = age (centered at 60)

Lung, Plot, Conscientiousness

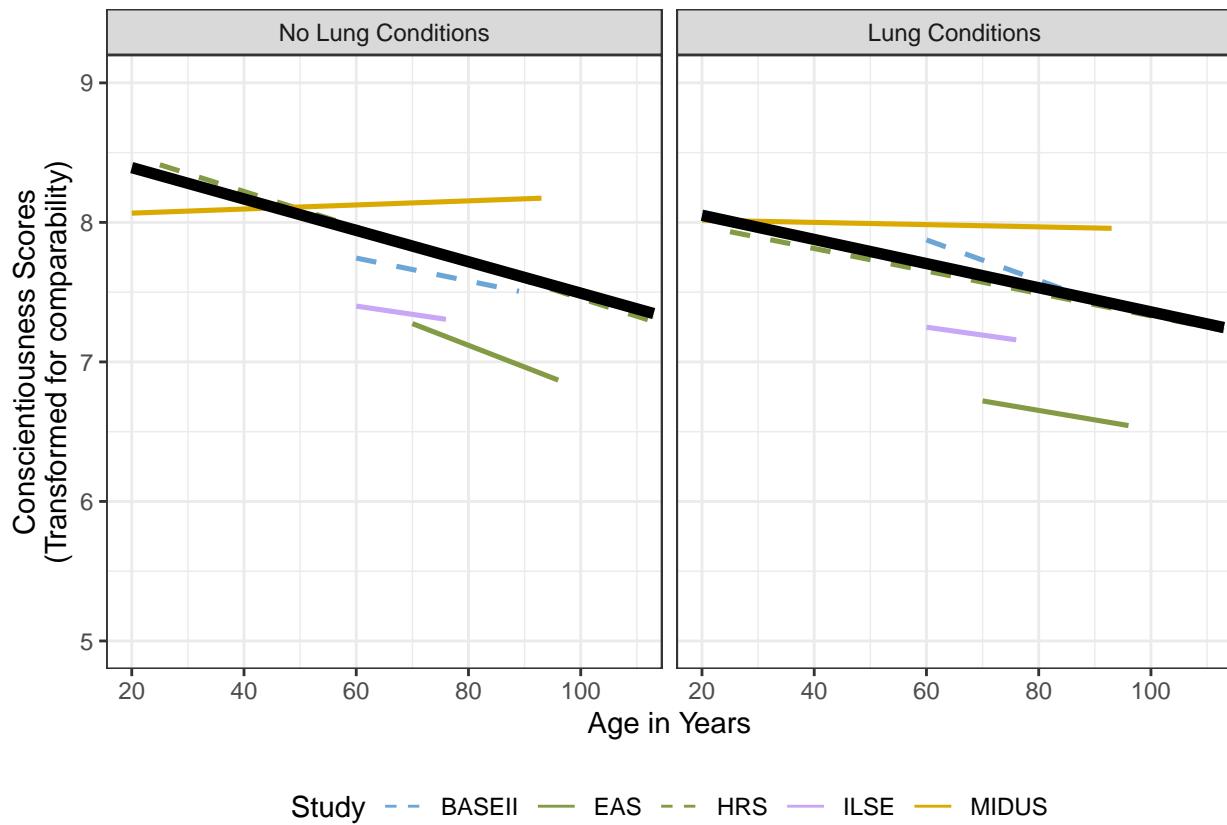


Figure S104: Lung, Plot (Conscientiousness). Linear Trajectories of Conscientiousness, moderated by lung conditions. Black line indicates average trajectory weighted by N. At the individual study level, none showed strong evidence that having a lung condition was associated with greater declines in conscientiousness, and the meta-analytic average was not significant ($p = .746$).

Lung, Plot, unweighted, Conscientiousness

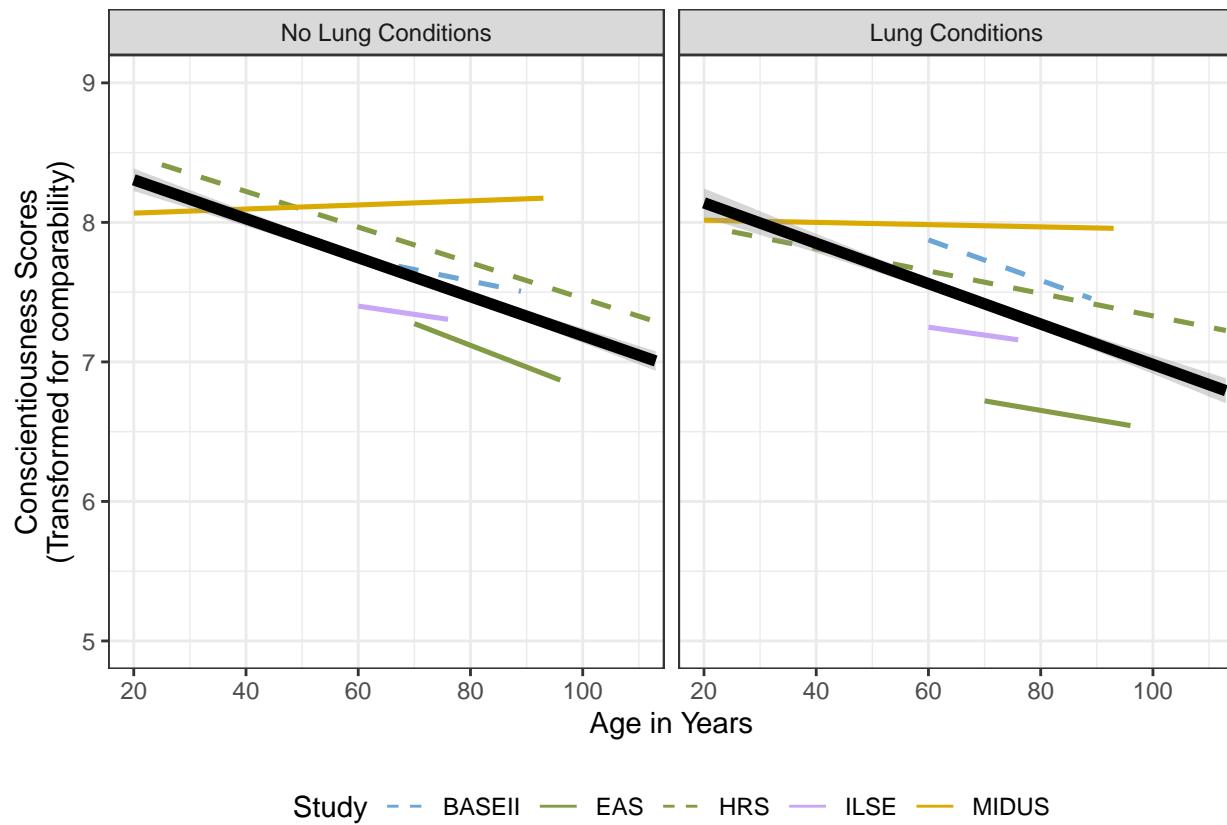


Figure S105: Lung, Plot, unweighted, Conscientiousness

Lung, Meta Analysis, Conscientiousness

```
##  
## Random-Effects Model (k = 5; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##    4.3401   -8.6802   -4.6802   -5.9077   7.3198  
##  
## tau^2 (estimated amount of total heterogeneity): 0.0014 (SE = 0.0025)  
## tau (square root of estimated tau^2 value):       0.0373  
## I^2 (total heterogeneity / total variability): 45.26%  
## H^2 (total variability / sampling variability): 1.83  
##  
## Test for Heterogeneity:  
## Q(df = 4) = 5.5435, p-val = 0.2359  
##  
## Model Results:  
##  
## estimate      se     zval     pval    ci.lb    ci.ub  
##  0.0093  0.0288  0.3243  0.7457  -0.0471  0.0657  
##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 5; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##    3.2139   -6.4277   -0.4277   -3.1319  23.5723  
##  
## tau^2 (estimated amount of residual heterogeneity):      0 (SE = 0.0079)  
## tau (square root of estimated tau^2 value):             0  
## I^2 (residual heterogeneity / unaccounted variability): 0.00%  
## H^2 (unaccounted variability / sampling variability):  1.00  
## R^2 (amount of heterogeneity accounted for):          100.00%  
##  
## Test for Residual Heterogeneity:  
## QE(df = 3) = 0.3774, p-val = 0.9449  
##  
## Test of Moderators (coefficient 2):  
## QM(df = 1) = 5.1662, p-val = 0.0230  
##  
## Model Results:  
##  
##           estimate      se     zval     pval    ci.lb    ci.ub  
## intrcpt   -0.1696  0.0782  -2.1695  0.0300  -0.3228  -0.0164  *## age        0.0031  0.0014   2.2729  0.0230   0.0004   0.0058  *##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 5; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc
```

```

##    3.0842   -6.1685   -0.1685   -2.8726   23.8315
##
## tau^2 (estimated amount of residual heterogeneity):      0.0017 (SE = 0.0031)
## tau (square root of estimated tau^2 value):             0.0414
## I^2 (residual heterogeneity / unaccounted variability): 56.13%
## H^2 (unaccounted variability / sampling variability):  2.28
## R^2 (amount of heterogeneity accounted for):          0.00%
##
## Test for Residual Heterogeneity:
## QE(df = 3) = 5.5056, p-val = 0.1383
##
## Test of Moderators (coefficient 2):
## QM(df = 1) = 0.0641, p-val = 0.8001
##
## Model Results:
##
##           estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt      -0.0136  0.0961  -0.1417  0.8873  -0.2019  0.1746
## countryU.S.    0.0257  0.1015   0.2532  0.8001  -0.1732  0.2246
## 
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Mixed-Effects Model (k = 5; tau^2 estimator: REML)
##
##    logLik  deviance      AIC      BIC      AICC
##    1.5877   -3.1753    6.8247  -3.1753   66.8247
##
## tau^2 (estimated amount of residual heterogeneity):      0.0020 (SE = 0.0035)
## tau (square root of estimated tau^2 value):             0.0446
## I^2 (residual heterogeneity / unaccounted variability): 81.14%
## H^2 (unaccounted variability / sampling variability):  5.30
## R^2 (amount of heterogeneity accounted for):          0.00%
##
## Test for Residual Heterogeneity:
## QE(df = 1) = 5.3014, p-val = 0.0213
##
## Test of Moderators (coefficients 2:4):
## QM(df = 3) = 0.2420, p-val = 0.9705
##
## Model Results:
##
##           estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt      -0.0627  0.1936  -0.3241  0.7459  -0.4421  0.3166
## scaleIPIP      0.1506  0.3171   0.4748  0.6350  -0.4710  0.7721
## scaleMIDI      0.0737  0.1967   0.3745  0.7080  -0.3118  0.4592
## scaleNEO-FFI    0.0653  0.2236   0.2921  0.7702  -0.3730  0.5036
## 
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Mixed-Effects Model (k = 5; tau^2 estimator: REML)
##

```

```

##   logLik  deviance      AIC      BIC      AICc
##  3.7870   -7.5740   -1.5740   -4.2782   22.4260
##
## tau^2 (estimated amount of residual heterogeneity): 0.0014 (SE = 0.0026)
## tau (square root of estimated tau^2 value):        0.0380
## I^2 (residual heterogeneity / unaccounted variability): 53.09%
## H^2 (unaccounted variability / sampling variability): 2.13
## R^2 (amount of heterogeneity accounted for):       0.00%
##
## Test for Residual Heterogeneity:
## QE(df = 3) = 5.4546, p-val = 0.1414
##
## Test of Moderators (coefficient 2):
## QM(df = 1) = 0.0769, p-val = 0.7816
##
## Model Results:
##
##           estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt   -0.0078  0.0683  -0.1139  0.9093  -0.1417  0.1261
## mo         0.0054  0.0193   0.2772  0.7816  -0.0325  0.0432
## 
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

```

Cancer, Table, Conscientiousness

Table S62: Linear Trajectories of Conscientiousness, Moderated by Cancer

coef	BASEII	EAS	HRS	LBC1936	MIDUS	WLSS
Fixed Effects						
Intercept	7.76	7.43	7.94	7.11	8.10	7.60
	0.05	0.13	0.01	0.05	0.01	0.02
	p < .001					
Age	-0.10	-0.16	-0.13	-0.08	0.01	-0.03
	0.05	0.06	0.01	0.03	0.01	0.01
	p = 0.012	p = 0.006	p < .001	p = 0.005	p = 0.026	p < .001
cancer	-0.10	-0.21	-0.03	0.08	0.00	0.06
	0.16	0.33	0.03	0.16	0.05	0.06
	p = 0.255	p = 0.259	p = 0.185	p = 0.296	p = 0.482	p = 0.133
Age x cancer	0.20	0.03	0.01	-0.08	-0.09	-0.02
	0.15	0.16	0.02	0.1	0.03	0.04
	p = 0.087	p = 0.42	p = 0.37	p = 0.219	p < .001	p = 0.263
Random Effects						
τ_{00}	0.71	1.68	0.58	1.09	0.63	0.61
τ_{01}	-0.04	-0.43	0.00	-0.26	0.02	-0.01
τ_{11}	0.08	0.22	0.04	0.21	0.02	0.05
σ^2	0.30	0.27	0.39	0.21	0.40	0.30
N_{people}	1,276	702	16,016	1,032	6,404	3,785
N_{obs}	3,816	1,634	34,953	3,013	12,986	8,364
LL	-4430	-1973	-45376	-3309	-16951	-10286

^a LL = Log Likelihood; Age = age (centered at 60)

Cancer, Plot, Conscientiousness

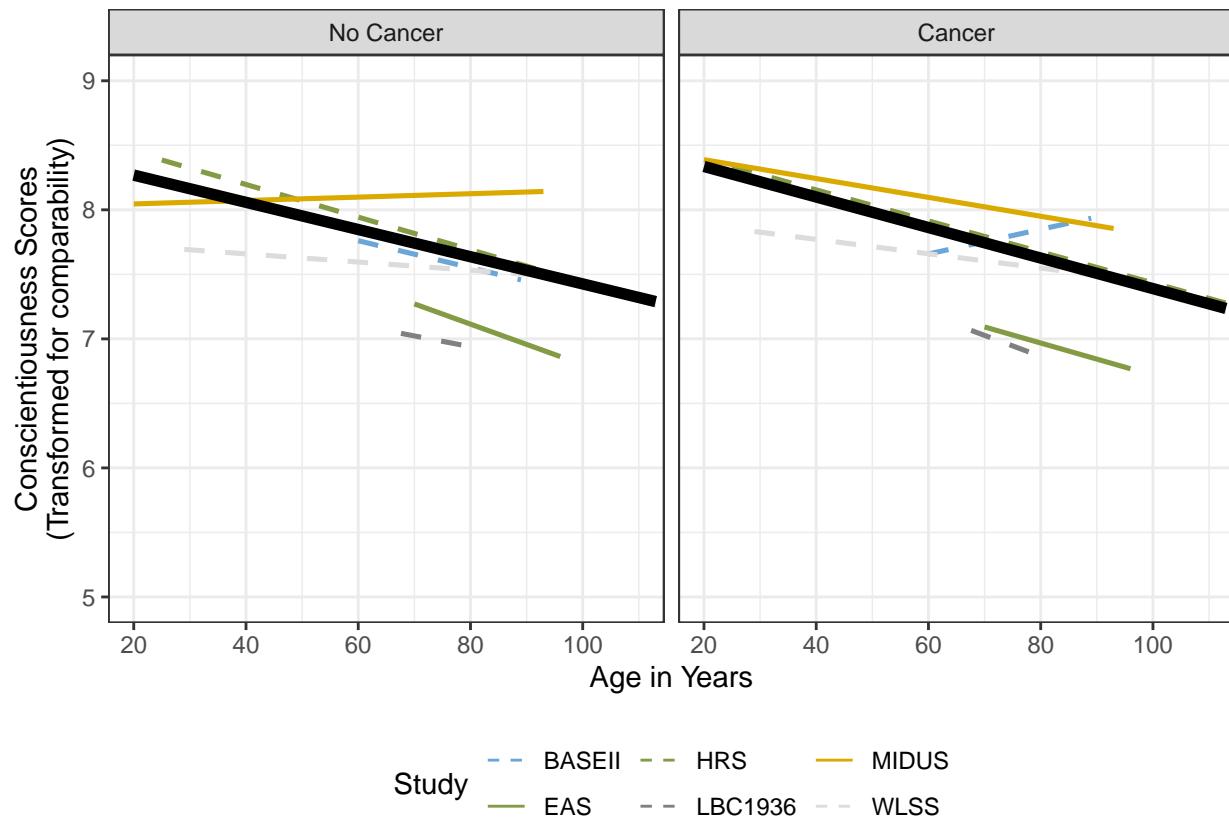


Figure S106: Cancer, Plot (Conscientiousness). Linear Trajectories of Conscientiousness, moderated by cancer. Black line indicates average trajectory weighted by N. At the individual study level, none showed evidence that having cancer was associated with greater declines in conscientiousness, and the meta-analytic average was not significant ($p = .311$)

Cancer, Plot, unweighted, Conscientiousness

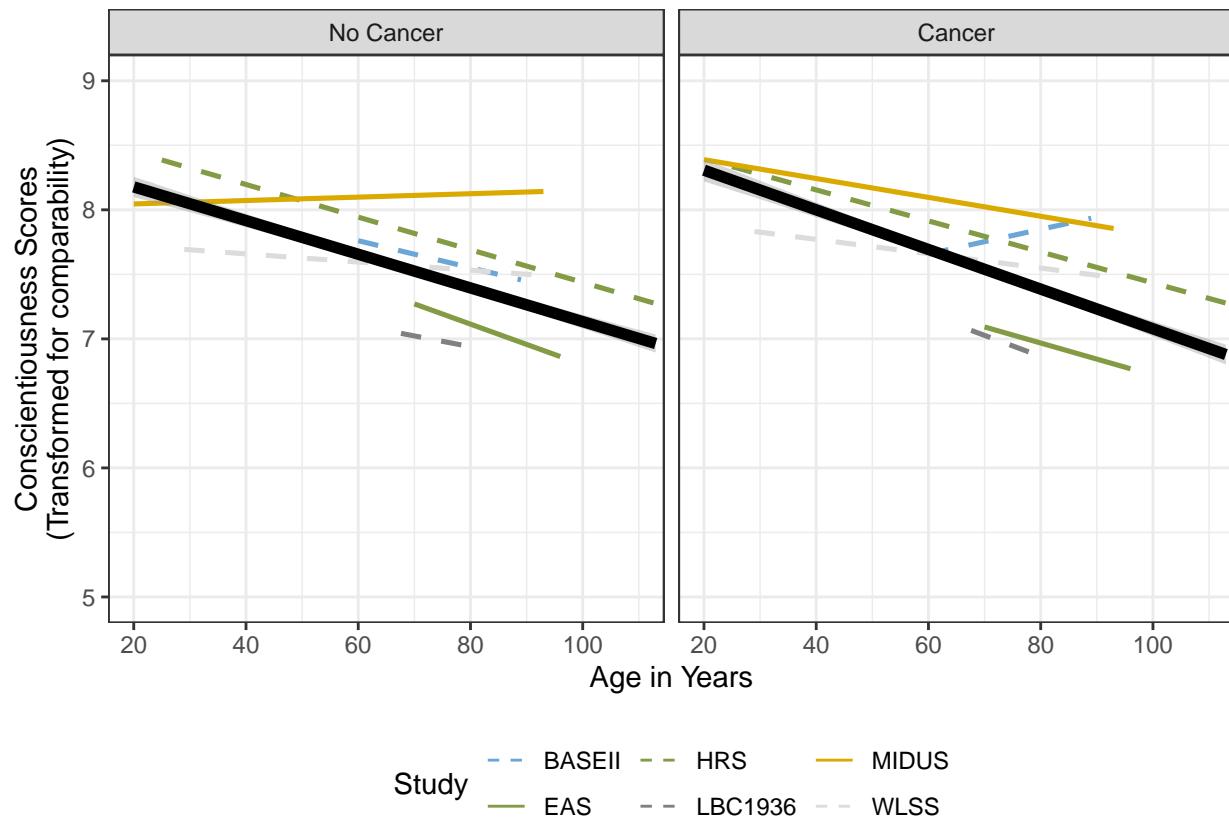


Figure S107: Cancer, Plot, unweighted, Conscientiousness

Cancer, Meta Analysis, Conscientiousness

```
##  
## Random-Effects Model (k = 6; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##    5.2745 -10.5489 -6.5489 -7.3300 -0.5489  
##  
## tau^2 (estimated amount of total heterogeneity): 0.0017 (SE = 0.0024)  
## tau (square root of estimated tau^2 value):       0.0407  
## I^2 (total heterogeneity / total variability):   50.25%  
## H^2 (total variability / sampling variability): 2.01  
##  
## Test for Heterogeneity:  
## Q(df = 5) = 10.7431, p-val = 0.0567  
##  
## Model Results:  
##  
## estimate      se     zval    pval    ci.lb    ci.ub  
## -0.0270  0.0267 -1.0124  0.3113 -0.0794  0.0253  
##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 6; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##    4.9162 -9.8324 -3.8324 -5.6735 20.1676  
##  
## tau^2 (estimated amount of residual heterogeneity):      0.0000 (SE = 0.0015)  
## tau (square root of estimated tau^2 value):            0.0002  
## I^2 (residual heterogeneity / unaccounted variability): 0.00%  
## H^2 (unaccounted variability / sampling variability):  1.00  
## R^2 (amount of heterogeneity accounted for):          100.00%  
##  
## Test for Residual Heterogeneity:  
## QE(df = 4) = 3.2198, p-val = 0.5217  
##  
## Test of Moderators (coefficient 2):  
## QM(df = 1) = 7.5227, p-val = 0.0061  
##  
## Model Results:  
##  
##           estimate      se     zval    pval    ci.lb    ci.ub  
## intrcpt  -0.2581  0.0866 -2.9789  0.0029 -0.4279 -0.0883 **  
## age       0.0039  0.0014  2.7428  0.0061  0.0011  0.0067 **  
##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 6; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc
```

```

##    2.2441   -4.4881    5.5119   -1.0224   65.5119
##
## tau^2 (estimated amount of residual heterogeneity):      0.0032 (SE = 0.0051)
## tau (square root of estimated tau^2 value):             0.0562
## I^2 (residual heterogeneity / unaccounted variability): 75.27%
## H^2 (unaccounted variability / sampling variability):   4.04
## R^2 (amount of heterogeneity accounted for):           0.00%
##
## Test for Residual Heterogeneity:
## QE(df = 2) = 8.1331, p-val = 0.0171
##
## Test of Moderators (coefficients 2:4):
## QM(df = 3) = 2.2990, p-val = 0.5127
##
## Model Results:
##
##          estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt     -0.0240  0.0678  -0.3542  0.7232  -0.1569  0.1089
## countryGermany  0.2241  0.1715   1.3063  0.1915  -0.1121  0.5603
## countryU.S.    -0.0096  0.0796  -0.1210  0.9037  -0.1656  0.1463
## countryUK      -0.0551  0.1349  -0.4086  0.6828  -0.3195  0.2093
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Mixed-Effects Model (k = 6; tau^2 estimator: REML)
##
##          logLik  deviance      AIC      BIC      AICc
##          2.1608   -4.3216   5.6784  -0.8559   65.6784
##
## tau^2 (estimated amount of residual heterogeneity):      0.0033 (SE = 0.0053)
## tau (square root of estimated tau^2 value):             0.0572
## I^2 (residual heterogeneity / unaccounted variability): 75.88%
## H^2 (unaccounted variability / sampling variability):   4.15
## R^2 (amount of heterogeneity accounted for):           0.00%
##
## Test for Residual Heterogeneity:
## QE(df = 2) = 8.3484, p-val = 0.0154
##
## Test of Moderators (coefficients 2:4):
## QM(df = 3) = 2.1551, p-val = 0.5408
##
## Model Results:
##
##          estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt     -0.0240  0.0686  -0.3500  0.7264  -0.1585  0.1105
## scaleBFI-S    0.2241  0.1722   1.3013  0.1931  -0.1134  0.5616
## scaleIPIP     -0.0194  0.1185  -0.1638  0.8699  -0.2516  0.2128
## scaleMIDI     -0.0139  0.0813  -0.1709  0.8643  -0.1733  0.1455
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##

```

```

## Mixed-Effects Model (k = 6; tau^2 estimator: REML)
##
##    logLik  deviance      AIC      BIC      AICc
##    4.3841   -8.7682   -2.7682   -4.6093   21.2318
##
##    tau^2 (estimated amount of residual heterogeneity):     0.0018 (SE = 0.0025)
##    tau (square root of estimated tau^2 value):            0.0419
##    I^2 (residual heterogeneity / unaccounted variability): 56.61%
##    H^2 (unaccounted variability / sampling variability):  2.30
##    R^2 (amount of heterogeneity accounted for):          0.00%
##
## Test for Residual Heterogeneity:
## QE(df = 4) = 10.5759, p-val = 0.0318
##
## Test of Moderators (coefficient 2):
## QM(df = 1) = 0.1861, p-val = 0.6662
##
## Model Results:
##
##           estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt   -0.0461  0.0521  -0.8844  0.3765  -0.1482  0.0561
## mo        0.0056  0.0129   0.4313  0.6662  -0.0198  0.0309
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

```

Diabetes, Table, Conscientiousness

Table S63: Linear Trajectories of Conscientiousness, Moderated by Diabetes

coef	BASEII	EAS	HRS	ILSE	LBC1936	MIDUS	SLS	WLSS
Fixed Effects								
Intercept	7.76	7.46	7.99	7.37	7.12	8.12	6.30	7.61
	0.05	0.13	0.01	0.05	0.05	0.01	0.03	0.01
	p < .001							
Age	-0.08	-0.17	-0.12	-0.07	-0.08	0.02	-0.01	-0.03
	0.05	0.06	0.01	0.04	0.03	0.01	0.01	0.01
	p = 0.045	p = 0.003	p < .001	p = 0.041	p = 0.007	p = 0.012	p = 0.134	p < .001
diabetes	-0.06	-0.36	-0.26	0.05	0.00	-0.39	-0.24	-0.17
	0.17	0.32	0.03	0.15	0.18	0.06	0.12	0.07
	p = 0.373	p = 0.131	p < .001	p = 0.377	p = 0.493	p < .001	p = 0.02	p = 0.006
Age x diabetes	-0.12	0.12	0.00	0.09	-0.19	0.00	-0.03	-0.01
	0.16	0.16	0.02	0.14	0.12	0.03	0.06	0.05
	p = 0.234	p = 0.233	p = 0.414	p = 0.265	p = 0.058	p = 0.464	p = 0.319	p = 0.388
Random Effects								
τ_{00}	0.71	1.58	0.57	0.72	1.09	0.62	0.83	0.61
τ_{01}	-0.05	-0.39	0.00	-0.07	-0.26	0.02	-0.05	-0.01
τ_{11}	0.09	0.20	0.04	0.17	0.21	0.02	0.03	0.05
σ^2	0.30	0.28	0.39	0.28	0.21	0.39	0.15	0.30
N_{people}	1,276	702	16,034	487	1,032	6,253	1,494	3,781
N_{obs}	3,816	1,639	34,991	1,221	3,013	12,778	3,932	8,359
LL	-4430	-1977	-45332	-1487	-3306	-16622	-3836	-10262

^a LL = Log Likelihood; Age = age (centered at 60)

Diabetes, Plot, Conscientiousness

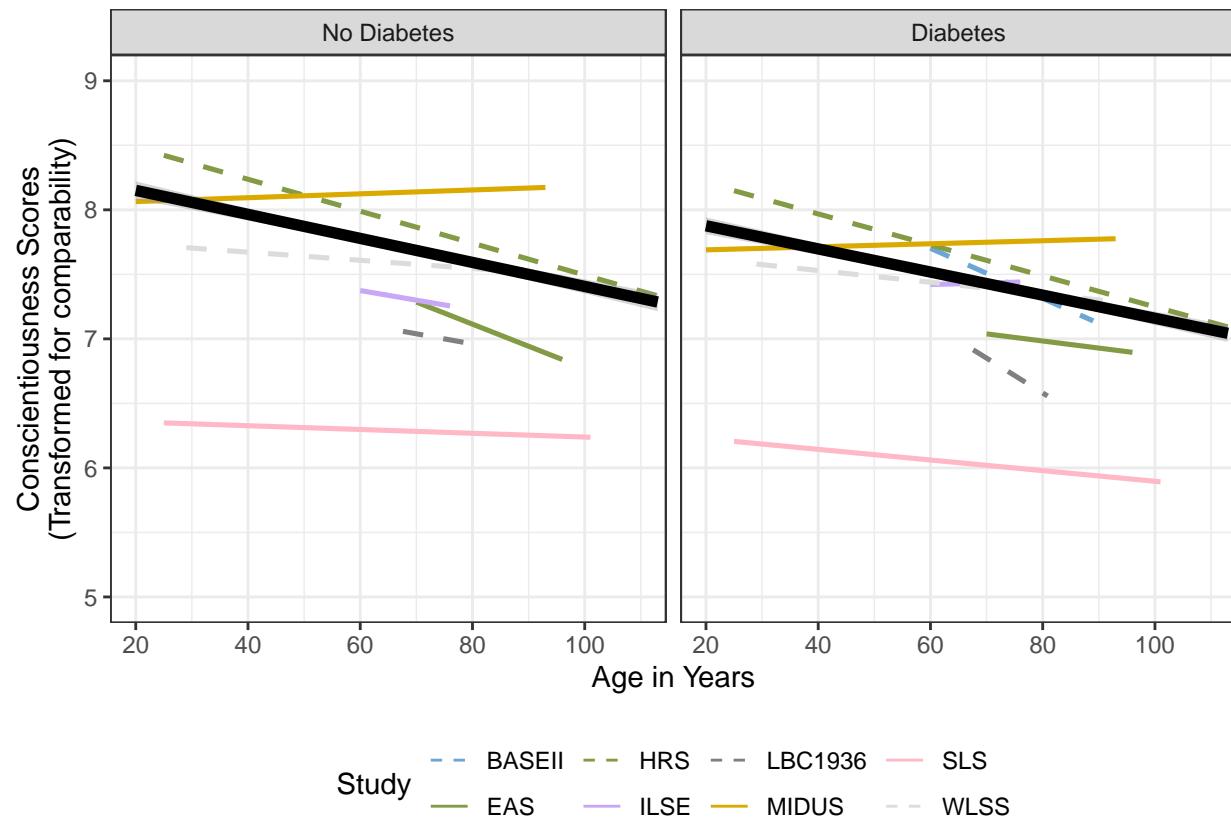


Figure S108: Diabetes, Plot (Conscientiousness). Linear Trajectories of Conscientiousness, moderated by diabetes. Black line indicates average trajectory weighted by N. At the individual study level, none showed evidence that having diabetes was associated with greater declines in conscientiousness, and the meta-analytic average was not significant ($p = .863$).

Diabetes, Plot, unweighted, Conscientiousness

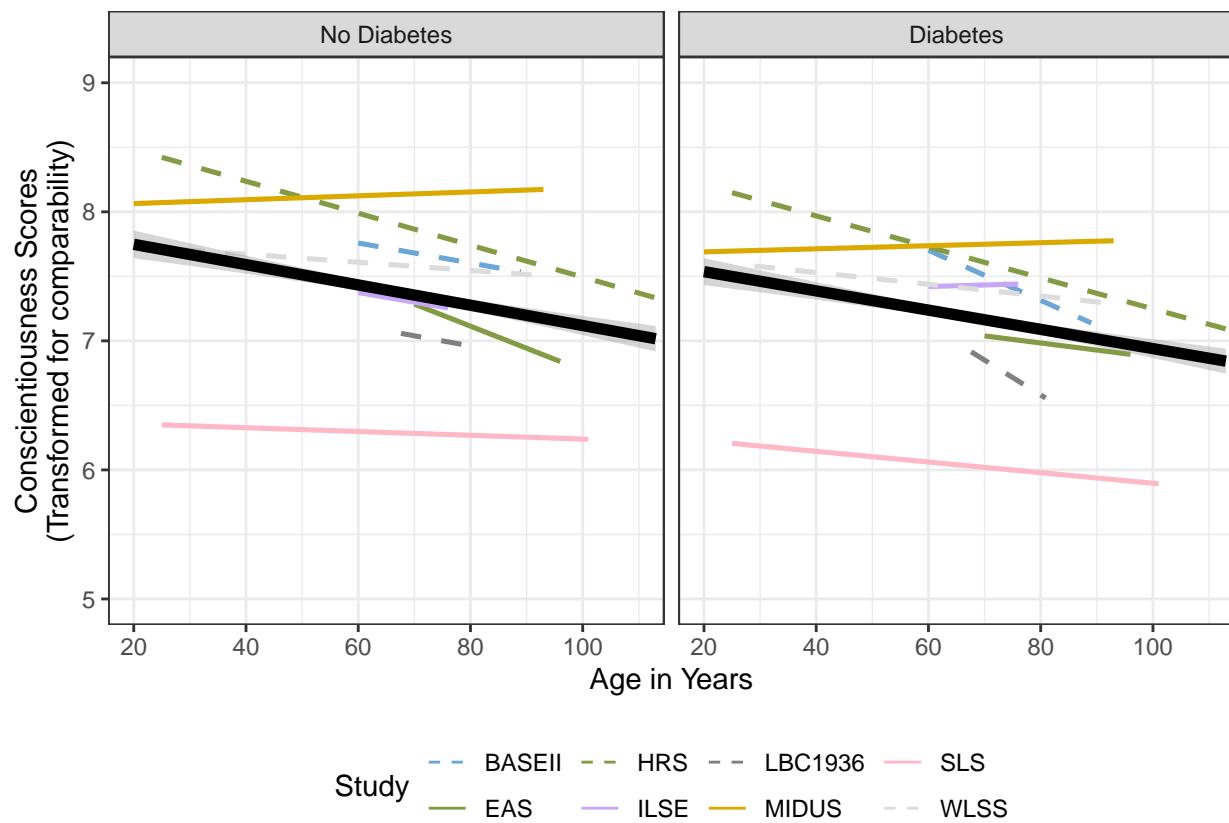


Figure S109: Diabetes, Plot, unweighted, Conscientiousness

Diabetes, Meta Analysis, Conscientiousness

```
##  
## Random-Effects Model (k = 8; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##    9.2564 -18.5127 -14.5127 -14.6209 -11.5127  
##  
## tau^2 (estimated amount of total heterogeneity): 0 (SE = 0.0008)  
## tau (square root of estimated tau^2 value): 0  
## I^2 (total heterogeneity / total variability): 0.00%  
## H^2 (total variability / sampling variability): 1.00  
##  
## Test for Heterogeneity:  
## Q(df = 7) = 4.2621, p-val = 0.7491  
##  
## Model Results:  
##  
## estimate      se     zval     pval    ci.lb    ci.ub  
## -0.0024  0.0140 -0.1727  0.8629 -0.0298  0.0250  
##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 8; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##    7.0372 -14.0744 -14.0744 -8.6991   3.9256  
##  
## tau^2 (estimated amount of residual heterogeneity): 0 (SE = 0.0018)  
## tau (square root of estimated tau^2 value): 0  
## I^2 (residual heterogeneity / unaccounted variability): 0.00%  
## H^2 (unaccounted variability / sampling variability): 1.00  
## R^2 (amount of heterogeneity accounted for): 0.00%  
##  
## Test for Residual Heterogeneity:  
## QE(df = 6) = 4.2153, p-val = 0.6476  
##  
## Test of Moderators (coefficient 2):  
## QM(df = 1) = 0.0468, p-val = 0.8287  
##  
## Model Results:  
##  
##          estimate      se     zval     pval    ci.lb    ci.ub  
## intrcpt  -0.0251  0.1056 -0.2374  0.8124 -0.2321  0.1819  
## age       0.0004  0.0016  0.2164  0.8287 -0.0029  0.0036  
##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 8; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc
```

```

##    5.9696 -11.9392 -1.9392 -5.0077 58.0608
##
## tau^2 (estimated amount of residual heterogeneity):      0 (SE = 0.0010)
## tau (square root of estimated tau^2 value):             0
## I^2 (residual heterogeneity / unaccounted variability): 0.00%
## H^2 (unaccounted variability / sampling variability):  1.00
## R^2 (amount of heterogeneity accounted for):          0.00%
##
## Test for Residual Heterogeneity:
## QE(df = 4) = 1.7198, p-val = 0.7871
##
## Test of Moderators (coefficients 2:4):
## QM(df = 3) = 2.5423, p-val = 0.4677
##
## Model Results:
##
##              estimate      se     zval   pval    ci.lb    ci.ub
## intrcpt      -0.0141  0.0493  -0.2856  0.7752 -0.1107  0.0826
## countryGermany  0.0145  0.1157   0.1253  0.9003 -0.2122  0.2412
## countryU.S.    0.0155  0.0515   0.3006  0.7637 -0.0854  0.1164
## countryUK      -0.1775  0.1312  -1.3525  0.1762 -0.4347  0.0797
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Mixed-Effects Model (k = 8; tau^2 estimator: REML)
##
## logLik  deviance      AIC      BIC      AICc
## 2.5166  -5.0331  8.9669  -0.1811 120.9669
##
## tau^2 (estimated amount of residual heterogeneity):      0.0000 (SE = 0.0011)
## tau (square root of estimated tau^2 value):             0.0009
## I^2 (residual heterogeneity / unaccounted variability): 0.05%
## H^2 (unaccounted variability / sampling variability):  1.00
## R^2 (amount of heterogeneity accounted for):          0.00%
##
## Test for Residual Heterogeneity:
## QE(df = 2) = 2.3837, p-val = 0.3037
##
## Test of Moderators (coefficients 2:6):
## QM(df = 5) = 1.8780, p-val = 0.8658
##
## Model Results:
##
##              estimate      se     zval   pval    ci.lb    ci.ub
## intrcpt      -0.0141  0.0493  -0.2856  0.7752 -0.1107  0.0826
## scaleBFI-S    -0.1027  0.1681  -0.6108  0.5413 -0.4322  0.2268
## scaleIPIP     -0.0645  0.1086  -0.5937  0.5527 -0.2773  0.1483
## scaleMIDI      0.0165  0.0517   0.3188  0.7498 -0.0848  0.1178
## scaleNEO-FFI    0.1007  0.1464   0.6879  0.4915 -0.1863  0.3877
## scaleNEO-PI-R   -0.0125  0.0751  -0.1665  0.8678 -0.1597  0.1347
##
## ---

```

```

## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

##
## Mixed-Effects Model (k = 8; tau^2 estimator: REML)
##
##   logLik  deviance      AIC      BIC      AICc
##   8.3205 -16.6411 -10.6411 -11.2658    1.3589
##
## tau^2 (estimated amount of residual heterogeneity):      0 (SE = 0.0009)
## tau (square root of estimated tau^2 value):               0
## I^2 (residual heterogeneity / unaccounted variability): 0.00%
## H^2 (unaccounted variability / sampling variability):   1.00
## R^2 (amount of heterogeneity accounted for):            0.00%
##
## Test for Residual Heterogeneity:
## QE(df = 6) = 4.0764, p-val = 0.6663
##
## Test of Moderators (coefficient 2):
## QM(df = 1) = 0.1857, p-val = 0.6665
##
## Model Results:
##
##           estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt  -0.0189  0.0408 -0.4640  0.6426 -0.0989  0.0610
## mo        0.0052  0.0121  0.4309  0.6665 -0.0184  0.0288
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

```

Hypertension, Table, Conscientiousness

Table S64: Linear Trajectories of Conscientiousness, Moderated by Hypertension

coef	BASEII	EAS	HRS	ILSE	LBC1936	MIDUS	SLS	SOEP	WLSG	WLSS
Fixed Effects										
Intercept	7.74	7.74	8.03	7.45	7.18	8.13	6.30	8.17	7.77	7.64
Age	0.06 p < .001	0.19 p < .001	0.01 p < .001	0.06 p < .001	0.06 p < .001	0.01 p < .001	0.03 p < .001	0.01 p < .001	0.01 p < .001	0.02 p < .001
hbp	-0.06 0.06 p = 0.152 0.03 0.1 p = 0.388 -0.07 0.09 p = 0.229	-0.31 -0.12 -0.10 -0.17 -0.17 0.02 0.1 p = 0.006 0.29 0.01 0.08 0.06 -0.02 0.03 p = 0.174 p = 0.165 p = 0.376 p = 0.092 p = 0.208 -0.02 0.06 p = 0.208 p < .001 -0.05 0.01 0.01 -0.11 0.02 p = 0.005 p < .001 -0.05 0.03 0.03 -0.07	-0.10 0.02 0.04 -0.18 -0.18 0.1 0.1 p = 0.039 0.04 0.02 -0.02 0.03 0.03 0.06 -0.02 0.02 0.03 -0.02 -0.05 0.01 -0.11 0.02 p = 0.003 p = 0.243 -0.05 -0.03 0.01 -0.12 -0.12 0.03 0.03 -0.05 0.02 0.02 -0.07	0.02 -0.01 0.01 -0.16 -0.16 0.03 0.03 p < .001 p = 0.208 -0.02 0.06 0.06 -0.02 0.03 p = 0.208 p < .001 -0.05 0.01 0.01 -0.11 0.02 p = 0.005 p < .001 -0.05 0.03 0.03 -0.07	0.01 0.06 0 0 0 0.01 0 p < .001 p = 0.021 -0.11 0.01 0.01 -0.11 0.02 p = 0.005 p < .001 -0.05 0.03 0.03 -0.07	0.01 -0.09 0.01 -0.09 -0.09 0.01 0.01 p < .001 p < .001 -0.12 -0.12 0.03 0.03 -0.05 0.02 p = 0.005 p < .001 -0.05 0.03 0.03 -0.07	0.01 -0.09 0.01 -0.09 -0.09 0.01 0.01 p < .001 p < .001 -0.12 -0.12 0.03 0.03 -0.05 0.02 p = 0.005 p < .001 -0.05 0.03 0.03 -0.07			
Random Effects										
τ_{00}	0.71	1.49	0.57	0.72	1.09	0.63	0.83	0.42	0.66	0.61
τ_{01}	-0.04	-0.34	0.00	-0.08	-0.26	0.02	-0.05	0.03	0.01	-0.01
τ_{11}	0.08	0.17	0.04	0.17	0.21	0.02	0.03	0.04	0.07	0.05
σ^2	0.30	0.27	0.39	0.28	0.21	0.39	0.15	0.46	0.32	0.30
N_{people}	1,276	700	16,034	486	1,032	6,251	1,497	33,612	6,836	3,797
N_{obs}	3,816	1,632	34,998	1,218	3,013	12,766	3,935	74,026	16,590	8,389
LL	-4431	-1965	-45381	-1485	-3306	-16632	-3845	-96401	-20855	-10307

^a LL = Log Likelihood; Age = age (centered at 60)

Hypertension, Plot, Conscientiousness

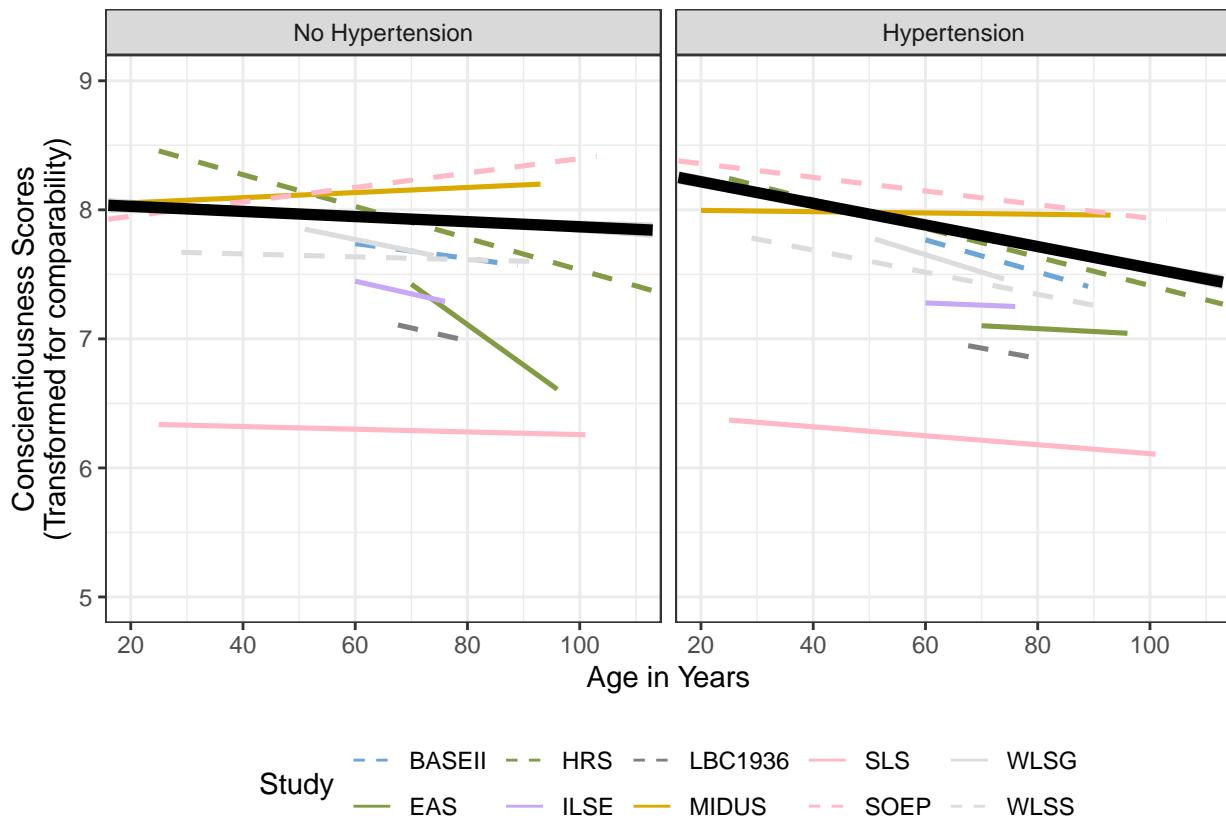


Figure S110: Hypertension, Plot (Conscientiousness). Linear Trajectories of Conscientiousness, moderated by hypertension. Black line indicates average trajectory weighted by N. At the individual study level, few showed evidence that having hypertension was associated with greater declines in conscientiousness, and the meta-analytic average was not significant ($p = .135$).

Hypertension, Plot, unweighted, Conscientiousness

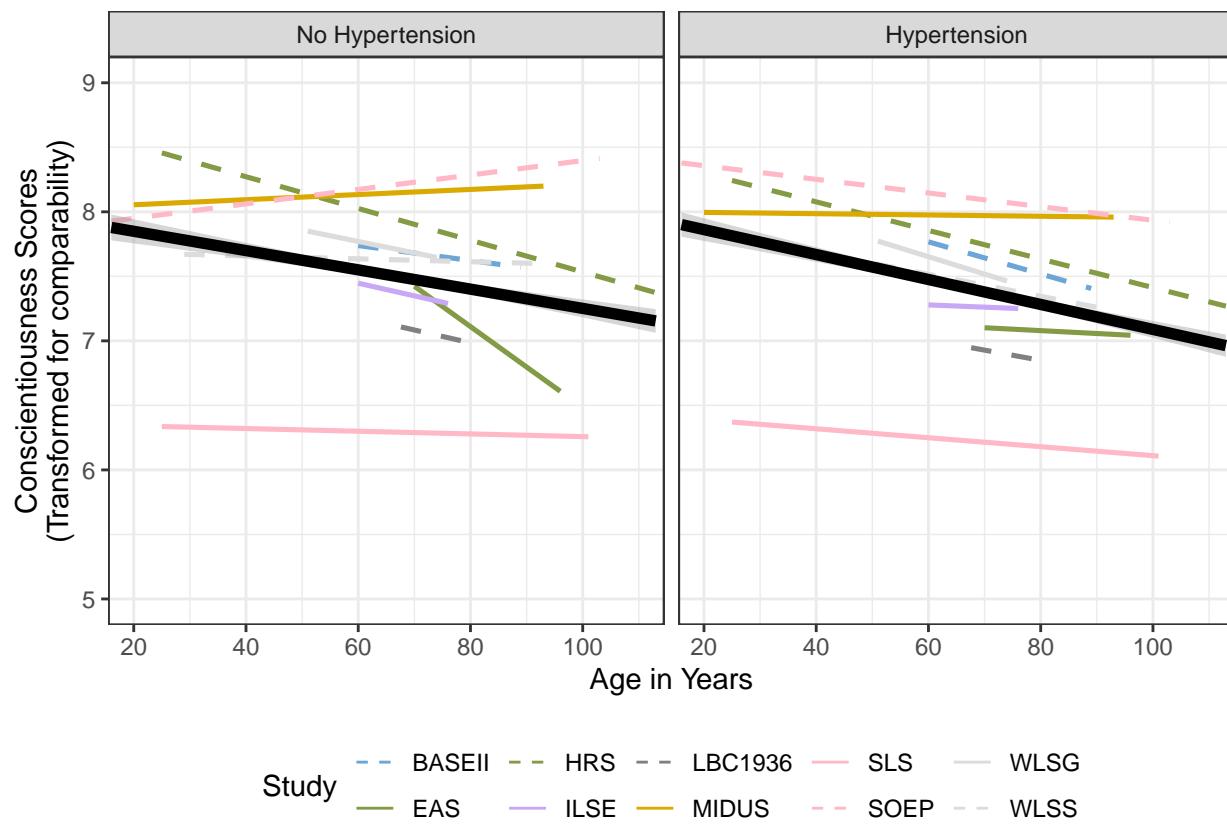


Figure S111: Hypertension, Plot, unweighted, Conscientiousness

Hypertension, Meta Analysis, Conscientiousness

```
##  
## Random-Effects Model (k = 10; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##    9.6426 -19.2853 -15.2853 -14.8908 -13.2853  
##  
## tau^2 (estimated amount of total heterogeneity): 0.0023 (SE = 0.0016)  
## tau (square root of estimated tau^2 value):       0.0481  
## I^2 (total heterogeneity / total variability):   84.02%  
## H^2 (total variability / sampling variability):  6.26  
##  
## Test for Heterogeneity:  
## Q(df = 9) = 80.1117, p-val < .0001  
##  
## Model Results:  
##  
## estimate      se     zval    pval    ci.lb    ci.ub  
## -0.0289  0.0193 -1.4966  0.1345 -0.0668  0.0090  
##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 10; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##   11.2488 -22.4975 -16.4975 -16.2592 -10.4975  
##  
## tau^2 (estimated amount of residual heterogeneity):      0.0009 (SE = 0.0009)  
## tau (square root of estimated tau^2 value):            0.0306  
## I^2 (residual heterogeneity / unaccounted variability): 61.75%  
## H^2 (unaccounted variability / sampling variability):  2.61  
## R^2 (amount of heterogeneity accounted for):           59.53%  
##  
## Test for Residual Heterogeneity:  
## QE(df = 8) = 25.1012, p-val = 0.0015  
##  
## Test of Moderators (coefficient 2):  
## QM(df = 1) = 9.0982, p-val = 0.0026  
##  
## Model Results:  
##  
##          estimate      se     zval    pval    ci.lb    ci.ub  
## intrcpt  -0.3023  0.0892 -3.3880  0.0007 -0.4772 -0.1274 ***  
## age       0.0047  0.0016  3.0163  0.0026  0.0017  0.0078   **  
##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 10; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc
```

```

##   6.2796 -12.5591 -2.5591 -3.6003 57.4409
##
## tau^2 (estimated amount of residual heterogeneity): 0.0004 (SE = 0.0007)
## tau (square root of estimated tau^2 value): 0.0205
## I^2 (residual heterogeneity / unaccounted variability): 37.22%
## H^2 (unaccounted variability / sampling variability): 1.59
## R^2 (amount of heterogeneity accounted for): 81.87%
##
## Test for Residual Heterogeneity:
## QE(df = 6) = 16.0229, p-val = 0.0136
##
## Test of Moderators (coefficients 2:4):
## QM(df = 3) = 13.9514, p-val = 0.0030
##
## Model Results:
##
##          estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt -0.0586 0.0202 -2.9066 0.0037 -0.0981 -0.0191  **
## countryGermany -0.0365 0.0291 -1.2532 0.2102 -0.0936 0.0206
## countryU.S. 0.0563 0.0258 2.1790 0.0293 0.0057 0.1070  *
## countryUK 0.0788 0.0702 1.1222 0.2618 -0.0588 0.2165
##
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Mixed-Effects Model (k = 10; tau^2 estimator: REML)
##
## logLik deviance      AIC      BIC      AICc
## 5.7335 -11.4671 2.5329 -1.7630 114.5329
##
## tau^2 (estimated amount of residual heterogeneity): 0.0003 (SE = 0.0006)
## tau (square root of estimated tau^2 value): 0.0171
## I^2 (residual heterogeneity / unaccounted variability): 32.80%
## H^2 (unaccounted variability / sampling variability): 1.49
## R^2 (amount of heterogeneity accounted for): 87.32%
##
## Test for Residual Heterogeneity:
## QE(df = 4) = 8.0672, p-val = 0.0891
##
## Test of Moderators (coefficients 2:6):
## QM(df = 5) = 25.5039, p-val = 0.0001
##
## Model Results:
##
##          estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt -0.0583 0.0185 -3.1513 0.0016 -0.0946 -0.0221  **
## scaleBFI-S -0.0486 0.0264 -1.8401 0.0658 -0.1004 0.0032 .
## scaleIPIP 0.1447 0.0606 2.3895 0.0169 0.0260 0.2634  *
## scaleMIDI 0.0551 0.0248 2.2248 0.0261 0.0066 0.1036  *
## scaleNEO-FFI 0.1392 0.0867 1.6057 0.1083 -0.0307 0.3092
## scaleNEO-PI-R 0.0340 0.0391 0.8712 0.3837 -0.0426 0.1106
##
## ---

```

```

## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Mixed-Effects Model (k = 10; tau^2 estimator: REML)
##
##   logLik  deviance      AIC      BIC      AICc
##  11.0973 -22.1947 -16.1947 -15.9564 -10.1947
##
## tau^2 (estimated amount of residual heterogeneity): 0.0023 (SE = 0.0016)
## tau (square root of estimated tau^2 value):        0.0483
## I^2 (residual heterogeneity / unaccounted variability): 83.82%
## H^2 (unaccounted variability / sampling variability): 6.18
## R^2 (amount of heterogeneity accounted for):       0.00%
##
## Test for Residual Heterogeneity:
## QE(df = 8) = 77.3334, p-val < .0001
##
## Test of Moderators (coefficient 2):
## QM(df = 1) = 5.3650, p-val = 0.0205
##
## Model Results:
##
##           estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt  -0.1119  0.0408  -2.7438  0.0061  -0.1918  -0.0320  **
## mo        0.0226  0.0097   2.3162  0.0205   0.0035   0.0416   *
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

```

Baseline Age, Table, Conscientiousness

Table S65: Linear Trajectories of Conscientiousness, Moderated by Baseline Age

coef	HRS	MIDUS	SLS	WLSS
Fixed Effects				
Intercept	7.92	8.14	6.31	7.58
	0.01	0.02	0.04	0.02
	p < .001	p < .001	p < .001	p < .001
Age	0.00	0.03	0.06	-0.01
	0.02	0.01	0.02	0.01
	p = 0.457	p < .001	p = 0.003	p = 0.297
b.age	0.12	0.03	0.17	0.27
	0.02	0.04	0.06	0.05
	p < .001	p = 0.255	p = 0.005	p < .001
Age x b.age	-0.18	-0.16	-0.18	-0.22
	0.02	0.02	0.03	0.03
	p < .001	p < .001	p < .001	p < .001
Random Effects				
τ_{00}	0.58	0.63	0.83	0.61
τ_{01}	0.01	0.02	-0.04	-0.01
τ_{11}	0.04	0.01	0.03	0.05
σ^2	0.39	0.39	0.15	0.30
N_{people}	16,047	6,409	1,541	4,063
N_{obs}	35,019	12,994	4,023	8,716
LL	-45414	-16939	-3917	-10736

^a LL = Log Likelihood; Age = age (centered at 60)

Baseline Age, Plot, Conscientiousness (In the main manuscript, this is Figure 10, in color).

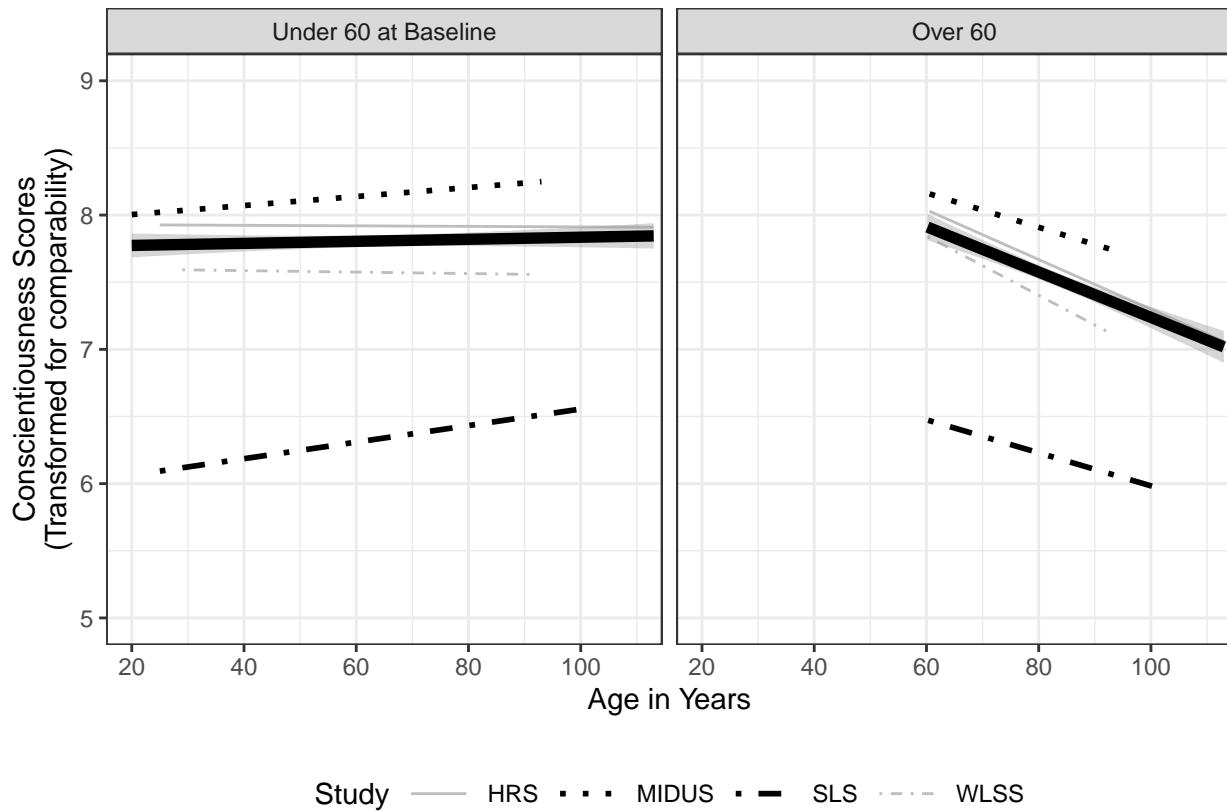


Figure S112: Baseline Age, Plot, Conscientiousness. Linear Trajectories of Conscientiousness, moderated by baseline age. Black line indicates average trajectory weighted by N. At the individual study level, most showed evidence that being over 60 at baseline was associated with greater declines in conscientiousness, and the meta-analytic average was significant ($p = .001$).

Baseline Age Plot, unweighted, Conscientiousness

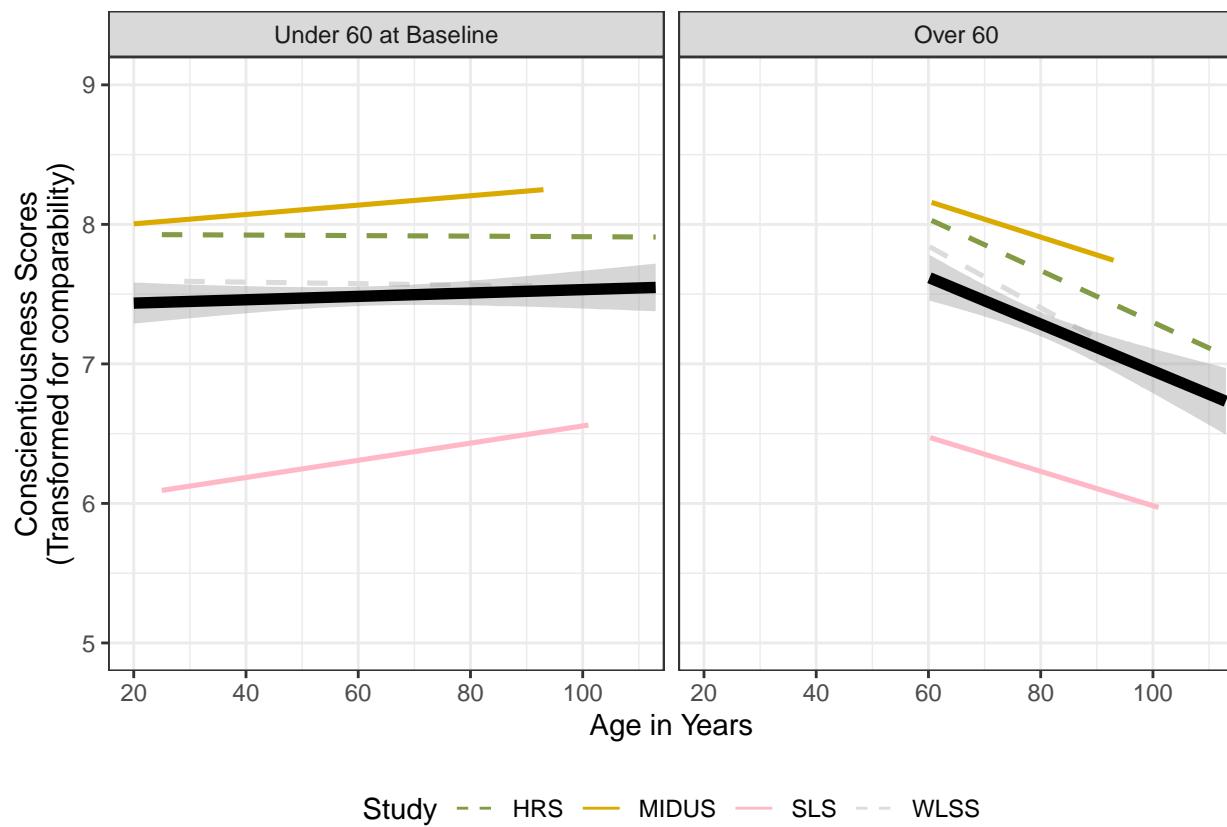


Figure S113: Baseline Age Plot, unweighted, Conscientiousness

Baseline Age, Meta Analysis, Conscientiousness

```
##  
## Random-Effects Model (k = 4; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##    7.1669 -14.3339 -10.3339 -12.1367  1.6661  
##  
## tau^2 (estimated amount of total heterogeneity): 0 (SE = 0.0005)  
## tau (square root of estimated tau^2 value): 0  
## I^2 (total heterogeneity / total variability): 0.00%  
## H^2 (total variability / sampling variability): 1.00  
##  
## Test for Heterogeneity:  
## Q(df = 3) = 2.0195, p-val = 0.5684  
##  
## Model Results:  
##  
## estimate      se     zval   pval   ci.lb   ci.ub  
## -0.1837  0.0126 -14.6212 <.0001 -0.2083 -0.1591 ***  
##  
## ---  
## Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 4; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##    4.3736 -8.7472 -2.7472 -6.6677 21.2528  
##  
## tau^2 (estimated amount of residual heterogeneity): 0 (SE = 0.0008)  
## tau (square root of estimated tau^2 value): 0  
## I^2 (residual heterogeneity / unaccounted variability): 0.00%  
## H^2 (unaccounted variability / sampling variability): 1.00  
## R^2 (amount of heterogeneity accounted for): 0.00%  
##  
## Test for Residual Heterogeneity:  
## QE(df = 2) = 1.9204, p-val = 0.3828  
##  
## Test of Moderators (coefficient 2):  
## QM(df = 1) = 0.0991, p-val = 0.7529  
##  
## Model Results:  
##  
##          estimate      se     zval   pval   ci.lb   ci.ub  
## intrcpt  -0.1581  0.0822 -1.9226  0.0545 -0.3193  0.0031 .  
## age       -0.0004  0.0014 -0.3148  0.7529 -0.0031  0.0023  
##  
## ---  
## Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 4; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc
```

```

##    5.2387 -10.4773 -4.4773 -8.3979 19.5227
##
## tau^2 (estimated amount of residual heterogeneity):      0 (SE = 0.0006)
## tau (square root of estimated tau^2 value):             0
## I^2 (residual heterogeneity / unaccounted variability): 0.00%
## H^2 (unaccounted variability / sampling variability):   1.00
## R^2 (amount of heterogeneity accounted for):           0.00%
##
## Test for Residual Heterogeneity:
## QE(df = 2) = 0.5517, p-val = 0.7589
##
## Test of Moderators (coefficient 2):
## QM(df = 1) = 1.4679, p-val = 0.2257
##
## Model Results:
##
##          estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt     -0.2153  0.0290  -7.4325 <.0001  -0.2721  -0.1585 *** 
## countryU.S.    0.0390  0.0322   1.2116  0.2257  -0.0241   0.1020
## 
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Mixed-Effects Model (k = 4; tau^2 estimator: REML)
##
##    logLik  deviance      AIC      BIC      AICC
##    2.6470  -5.2939    2.7061  -5.2939   42.7061
##
## tau^2 (estimated amount of residual heterogeneity):      0 (SE = 0.0007)
## tau (square root of estimated tau^2 value):             0
## I^2 (residual heterogeneity / unaccounted variability): 0.00%
## H^2 (unaccounted variability / sampling variability):   1.00
## R^2 (amount of heterogeneity accounted for):           0.00%
##
## Test for Residual Heterogeneity:
## QE(df = 1) = 0.4651, p-val = 0.4953
##
## Test of Moderators (coefficients 2:3):
## QM(df = 2) = 1.5544, p-val = 0.4597
##
## Model Results:
##
##          estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt     -0.2153  0.0290  -7.4325 <.0001  -0.2721  -0.1585 *** 
## scaleMIDI     0.0410  0.0329   1.2463  0.2126  -0.0235   0.1054
## scaleNEO-PI-R  0.0307  0.0427   0.7180  0.4727  -0.0531   0.1144
## 
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Mixed-Effects Model (k = 4; tau^2 estimator: REML)
##
##    logLik  deviance      AIC      BIC      AICC

```

```

##    4.5673   -9.1345   -3.1345   -7.0551   20.8655
##
## tau^2 (estimated amount of residual heterogeneity):      0.0000 (SE = 0.0006)
## tau (square root of estimated tau^2 value):             0.0023
## I^2 (residual heterogeneity / unaccounted variability): 0.87%
## H^2 (unaccounted variability / sampling variability):  1.01
## R^2 (amount of heterogeneity accounted for):          0.00%
##
## Test for Residual Heterogeneity:
## QE(df = 2) = 2.0184, p-val = 0.3645
##
## Test of Moderators (coefficient 2):
## QM(df = 1) = 0.0011, p-val = 0.9741
##
## Model Results:
##
##           estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt   -0.1802  0.1093  -1.6480  0.0994  -0.3945  0.0341  .
## mo        -0.0011  0.0344  -0.0324  0.9741  -0.0685  0.0662
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

```

Agreeableness

Intercept Only Model, Agreeableness

Table S66: Agreeableness, Intercept Only Models

coef	BASEII	EAS	HRS	ILSE	ILSE.Y	LBC1936	MIDUS	SLS	SOEP	WLSG	WLSS
Fixed Effects											
	7.04	7.62	8.38	6.74	6.62	7.74	8.26	6.74	7.37	7.61	7.48
Intercept	0.02	0.03	0.01	0.04	0.04	0.03	0.01	0.02	0	0.01	0.01
	p < .001										
Random Effects											
τ_{00}	0.61	0.60	0.66	0.64	0.68	0.75	0.64	0.80	0.50	0.60	0.58
σ^2	0.36	0.35	0.41	0.35	0.33	0.28	0.38	0.20	0.49	0.37	0.36
ICC	0.63	0.63	0.62	0.65	0.67	0.73	0.63	0.80	0.51	0.62	0.61
N_{people}	1,276	713	16,053	497	500	1,031	6,410	1,541	33,618	8,014	4,993
N_{obs}	3,818	1,667	34,915	1,238	1,266	3,014	12,994	4,023	74,056	18,618	10,722
LL	-4567	-2016	-45516	-1522	-1546	-3448	-16719	-4263	-97131	-23252	-13358

^a LL = Log Likelihood; ICC = Intra-Class Correlation

Intercept Only Meta Analysis of ICC's, Agreeableness

```
##  
## Random-Effects Model (k = 11; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##  11.9190 -23.8380 -19.8380 -19.2329 -18.1237  
##  
## tau^2 (estimated amount of total heterogeneity): 0.0054 (SE = 0.0025)  
## tau (square root of estimated tau^2 value):       0.0732  
## I^2 (total heterogeneity / total variability):   99.16%  
## H^2 (total variability / sampling variability): 119.64  
##  
## Test for Heterogeneity:  
## Q(df = 10) = 2121.4749, p-val < .0001  
##  
## Model Results:  
##  
## estimate      se     zval    pval    ci.lb    ci.ub  
##  0.6444  0.0223  28.8397 <.0001  0.6006  0.6881 ***  
##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 11; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##  10.7813 -21.5626 -15.5626 -14.9709 -10.7626  
##  
## tau^2 (estimated amount of residual heterogeneity):      0.0053 (SE = 0.0025)  
## tau (square root of estimated tau^2 value):            0.0725  
## I^2 (residual heterogeneity / unaccounted variability): 99.04%  
## H^2 (unaccounted variability / sampling variability): 104.14  
## R^2 (amount of heterogeneity accounted for):          1.90%  
##  
## Test for Residual Heterogeneity:  
## QE(df = 9) = 1274.7103, p-val < .0001  
##  
## Test of Moderators (coefficient 2):  
## QM(df = 1) = 1.0991, p-val = 0.2945  
##  
## Model Results:  
##  
##           estimate      se     zval    pval    ci.lb    ci.ub  
## intrcpt    0.5133  0.1270  4.0421 <.0001   0.2644  0.7621 ***  
## age        0.0022  0.0021  1.0484  0.2945 -0.0019  0.0063  
##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 11; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc
```

```

##    8.2510 -16.5020 -6.5020 -6.7725 53.4980
##
## tau^2 (estimated amount of residual heterogeneity):      0.0055 (SE = 0.0030)
## tau (square root of estimated tau^2 value):             0.0739
## I^2 (residual heterogeneity / unaccounted variability): 98.90%
## H^2 (unaccounted variability / sampling variability):   90.82
## R^2 (amount of heterogeneity accounted for):           0.00%
##
## Test for Residual Heterogeneity:
## QE(df = 7) = 830.6388, p-val < .0001
##
## Test of Moderators (coefficients 2:4):
## QM(df = 3) = 2.7243, p-val = 0.4361
##
## Model Results:
##
##          estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt      0.6144  0.0524  11.7166 <.0001   0.5116   0.7172  ***
## countryGermany -0.0019  0.0645 -0.0300  0.9761 -0.1284   0.1246
## countryU.S.       0.0561  0.0644  0.8708  0.3839 -0.0701   0.1823
## countryUK        0.1113  0.0911  1.2215  0.2219 -0.0673   0.2898
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Mixed-Effects Model (k = 11; tau^2 estimator: REML)
##
##          logLik  deviance      AIC      BIC     AICc
##          7.9624 -15.9249 -1.9249 -4.6588 110.0751
##
## tau^2 (estimated amount of residual heterogeneity):      0.0023 (SE = 0.0015)
## tau (square root of estimated tau^2 value):             0.0478
## I^2 (residual heterogeneity / unaccounted variability): 97.30%
## H^2 (unaccounted variability / sampling variability):   37.01
## R^2 (amount of heterogeneity accounted for):           57.29%
##
## Test for Residual Heterogeneity:
## QE(df = 5) = 137.0486, p-val < .0001
##
## Test of Moderators (coefficients 2:6):
## QM(df = 5) = 17.8115, p-val = 0.0032
##
## Model Results:
##
##          estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt      0.6144  0.0341  18.0198 <.0001   0.5476   0.6813  ***
## scaleBFI-S     -0.0480  0.0483 -0.9938  0.3203 -0.1428   0.0467
## scaleIPIP       0.0675  0.0493  1.3701  0.1706 -0.0291   0.1641
## scaleMIDI       0.0101  0.0482  0.2100  0.8336 -0.0844   0.1046
## scaleNEO-FFI     0.0458  0.0498  0.9197  0.3577 -0.0518   0.1435
## scaleNEO-PI-R     0.1841  0.0591  3.1169  0.0018   0.0683   0.2998  **
##
## ---

```

```

## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Mixed-Effects Model (k = 11; tau^2 estimator: REML)
##
##   logLik  deviance      AIC      BIC      AICc
## 10.2848 -20.5696 -14.5696 -13.9779 -9.7696
##
## tau^2 (estimated amount of residual heterogeneity): 0.0059 (SE = 0.0028)
## tau (square root of estimated tau^2 value): 0.0769
## I^2 (residual heterogeneity / unaccounted variability): 99.29%
## H^2 (unaccounted variability / sampling variability): 140.79
## R^2 (amount of heterogeneity accounted for): 0.00%
##
## Test for Residual Heterogeneity:
## QE(df = 9) = 2118.1297, p-val < .0001
##
## Test of Moderators (coefficient 2):
## QM(df = 1) = 0.0062, p-val = 0.9375
##
## Model Results:
##
##           estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt  0.6467  0.0377  17.1645 <.0001  0.5728  0.7205 *** 
## mo       -0.0005  0.0066 -0.0785  0.9375 -0.0134  0.0123
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Mixed-Effects Model (k = 11; tau^2 estimator: REML)
##
##   logLik  deviance      AIC      BIC      AICc
## 10.8015 -21.6030 -15.6030 -15.0113 -10.8030
##
## tau^2 (estimated amount of residual heterogeneity): 0.0053 (SE = 0.0025)
## tau (square root of estimated tau^2 value): 0.0725
## I^2 (residual heterogeneity / unaccounted variability): 99.11%
## H^2 (unaccounted variability / sampling variability): 112.50
## R^2 (amount of heterogeneity accounted for): 1.92%
##
## Test for Residual Heterogeneity:
## QE(df = 9) = 2062.9174, p-val < .0001
##
## Test of Moderators (coefficient 2):
## QM(df = 1) = 1.1573, p-val = 0.2820
##
## Model Results:
##
##           estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt  0.6828  0.0420  16.2551 <.0001  0.6004  0.7651 *** 
## interval -0.0077  0.0071 -1.0758  0.2820 -0.0216  0.0063
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

```

Linear Growth, Fixed Effects Only, Agreeableness

Table S67: Linear Trajectories of Agreeableness, Fixed Effects Only

coef	BASEII	EAS	HRS	ILSE	ILSE.Y	LBC1936	MIDUS	SLS	SOEP	WLSG	WLSS
Fixed Effects											
	7.15	7.43	8.46	6.70	6.72	7.80	8.26	6.66	7.40	7.61	7.48
Intercept	0.05	0.11	0.01	0.05	0.06	0.05	0.01	0.03	0.01	0.01	0.01
	p < .001	p < .001	p < .001	p < .001	p < .001	p < .001	p < .001	p < .001	p < .001	p < .001	p < .001
Age	-0.12	0.10	-0.07	0.06	0.09	-0.04	-0.01	0.14	0.03	0.03	0.07
	0.04	0.05	0.01	0.04	0.04	0.03	0.01	0.01	0	0.01	0.01
	p = 0.003	p = 0.03	p < .001	p = 0.048	p = 0.006	p = 0.067	p = 0.119	p < .001	p < .001	p < .001	p < .001
Random Effects											
τ_{00}	0.61	0.59	0.66	0.62	0.68	0.75	0.65	0.78	0.49	0.60	0.57
σ^2	0.36	0.35	0.40	0.35	0.33	0.28	0.38	0.19	0.49	0.36	0.35
N_{people}	1,276	713	16,053	488	500	1,031	6,408	1,541	33,618	7,829	4,674
N_{obs}	3,818	1,667	34,915	1,223	1,266	3,013	12,992	4,023	74,056	18,021	9,669
LL	-4563	-2014	-45447	-1496	-1543	-3446	-16716	-4203	-97066	-22390	-11950

^a LL = Log Likelihood; Age = age (centered at 60).

Linear Growth, Fixed and Random Effects, Agreeableness

Table S68: Linear Trajectories of Agreeableness

coef	BASEII	EAS	HRS	ILSE	ILSE.Y	LBC1936	MIDUS	SLS	SOEP	WLSG	WLSS
Fixed Effects											
Intercept	7.15	7.43	8.46	6.70	6.72	7.80	8.26	6.66	7.40	7.61	7.48
Age	0.05 p < .001	0.12 p < .001	0.01 p < .001	0.05 p < .001	0.06 p < .001	0.05 p < .001	0.01 p < .001	0.03 p < .001	0.01 p < .001	0.01 p < .001	0.01 p < .001
Age	-0.12 0.04	0.10 0.06	-0.07 0.01	0.06 0.04	0.09 0.04	-0.05 0.03	-0.01 0.01	0.14 0.01	0.03 0	0.03 0.01	0.07 0.01
	p = 0.003	p = 0.042	p < .001	p = 0.061	p = 0.009	p = 0.066	p = 0.109	p < .001	p < .001	p < .001	p < .001
Random Effects											
τ_{00}	0.67	1.53	0.62	0.68	0.79	0.85	0.63	0.77	0.51	0.63	0.58
τ_{01}	-0.06	-0.48	0.00	-0.06	0.12	-0.08	-0.01	-0.02	0.01	-0.03	-0.03
τ_{11}	0.06	0.23	0.03	0.07	0.14	0.07	0.00	0.01	0.00	0.08	0.03
σ^2	0.36	0.33	0.40	0.32	0.28	0.27	0.38	0.19	0.49	0.30	0.32
N_{people}	1,276	713	16,053	488	500	1,031	6,408	1,541	33,618	7,829	4,674
N_{obs}	3,818	1,667	34,915	1,223	1,266	3,013	12,992	4,023	74,056	18,021	9,669
LL	-4563	-2011	-45424	-1495	-1538	-3444	-16714	-4201	-97057	-22324	-11936

^a LL = Log Likelihood; Age = age (centered at 60).

Linear Trajectory Plot, Agreeableness. In the main manuscript, this is Figure 5, in color.

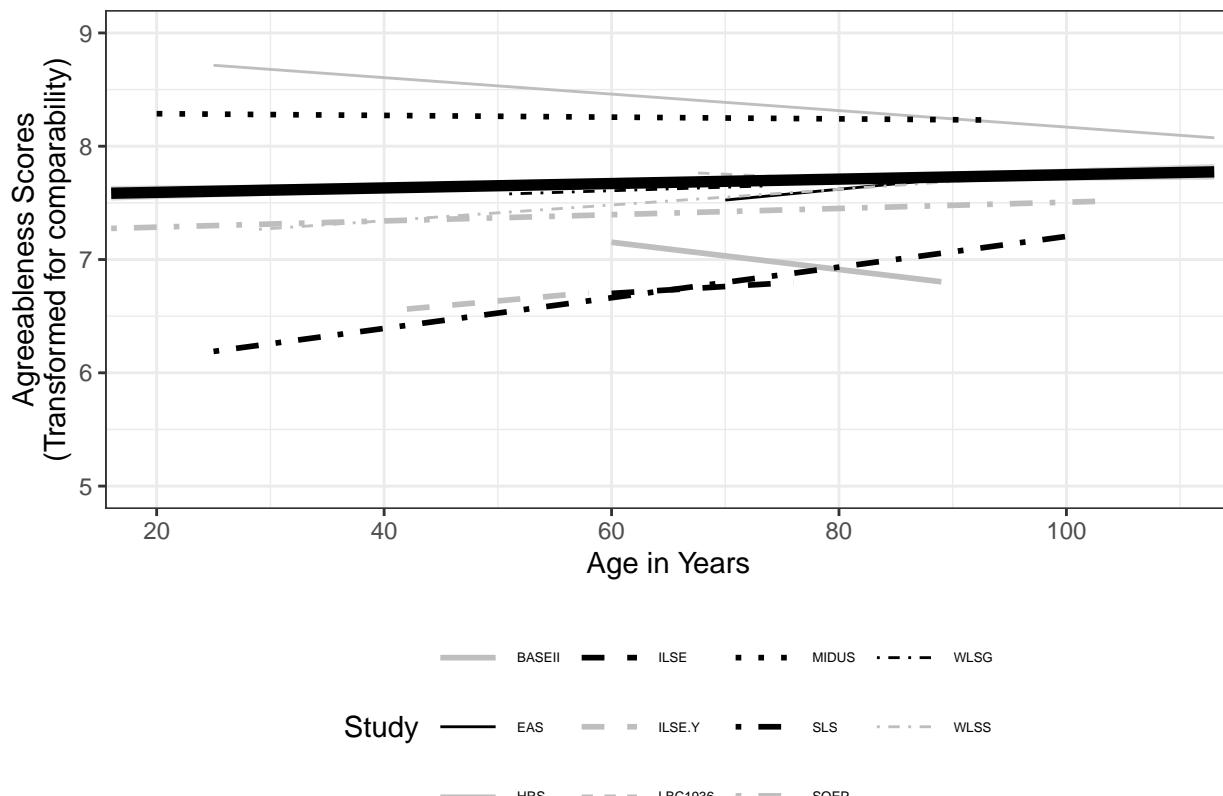


Figure S114: Linear Trajectory Plot, Agreeableness. Linear Trajectories of Agreeableness. Black line indicates average trajectory weighted by N. At the individual study level, there were variations of slope, and the meta-analytic average was not significant ($p = .30$).

Linear Trajectory Plot, unweighted, Agreeableness

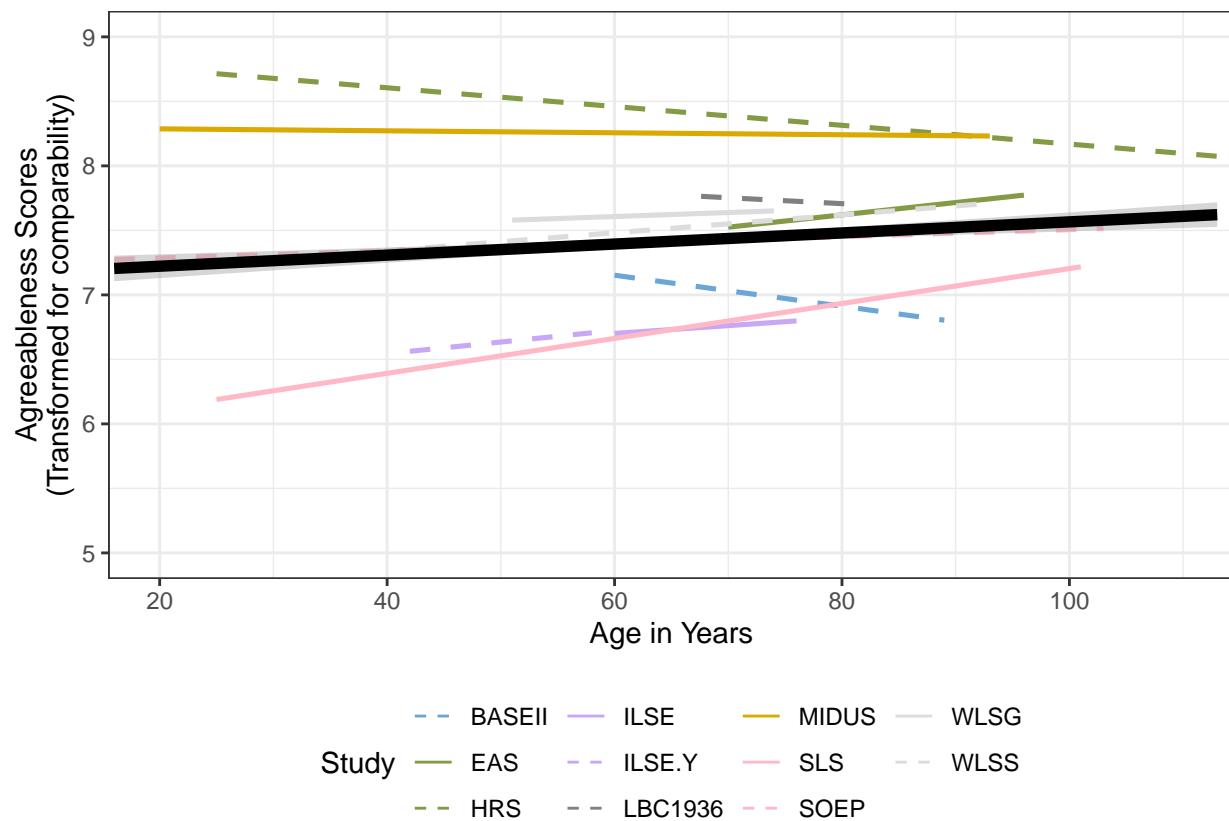


Figure S115: Linear Trajectory Plot, unweighted, Agreeableness

Linear Meta Analysis, Agreeableness

```
##  
## Random-Effects Model (k = 11; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##  11.4862  -22.9725  -18.9725  -18.3673  -17.2582  
##  
## tau^2 (estimated amount of total heterogeneity): 0.0049 (SE = 0.0025)  
## tau (square root of estimated tau^2 value):        0.0704  
## I^2 (total heterogeneity / total variability):   98.63%  
## H^2 (total variability / sampling variability): 72.79  
##  
## Test for Heterogeneity:  
## Q(df = 10) = 371.5973, p-val < .0001  
##  
## Model Results:  
##  
## estimate      se     zval    pval    ci.lb    ci.ub  
##  0.0237  0.0227  1.0456  0.2958  -0.0207  0.0681  
##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 11; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##  10.1765  -20.3531  -14.3531  -13.7614  -9.5531  
##  
## tau^2 (estimated amount of residual heterogeneity):      0.0051 (SE = 0.0027)  
## tau (square root of estimated tau^2 value):            0.0715  
## I^2 (residual heterogeneity / unaccounted variability): 98.34%  
## H^2 (unaccounted variability / sampling variability): 60.08  
## R^2 (amount of heterogeneity accounted for):          0.00%  
##  
## Test for Residual Heterogeneity:  
## QE(df = 9) = 285.8512, p-val < .0001  
##  
## Test of Moderators (coefficient 2):  
## QM(df = 1) = 0.6215, p-val = 0.4305  
##  
## Model Results:  
##  
##           estimate      se     zval    pval    ci.lb    ci.ub  
## intrcpt    0.1279  0.1341  0.9533  0.3404  -0.1350  0.3908  
## age       -0.0018  0.0023 -0.7884  0.4305  -0.0062  0.0026  
##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 11; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc
```

```

##    7.1691 -14.3382 -4.3382 -4.6086 55.6618
##
## tau^2 (estimated amount of residual heterogeneity):      0.0066 (SE = 0.0039)
## tau (square root of estimated tau^2 value):             0.0813
## I^2 (residual heterogeneity / unaccounted variability): 98.04%
## H^2 (unaccounted variability / sampling variability):   51.10
## R^2 (amount of heterogeneity accounted for):           0.00%
##
## Test for Residual Heterogeneity:
## QE(df = 7) = 248.6440, p-val < .0001
##
## Test of Moderators (coefficients 2:4):
## QM(df = 3) = 0.9148, p-val = 0.8219
##
## Model Results:
##
##          estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt       0.0503  0.0577  0.8705  0.3840 -0.0629  0.1634
## countryGermany -0.0333  0.0726 -0.4581  0.6469 -0.1756  0.1091
## countryU.S.    -0.0180  0.0717 -0.2514  0.8015 -0.1586  0.1225
## countryUK      -0.0959  0.1042 -0.9208  0.3572 -0.3002  0.1083
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Mixed-Effects Model (k = 11; tau^2 estimator: REML)
##
##          logLik  deviance      AIC      BIC     AICc
##        6.4349 -12.8698  1.1302 -1.6037 113.1302
##
## tau^2 (estimated amount of residual heterogeneity):      0.0033 (SE = 0.0025)
## tau (square root of estimated tau^2 value):             0.0573
## I^2 (residual heterogeneity / unaccounted variability): 96.58%
## H^2 (unaccounted variability / sampling variability):   29.24
## R^2 (amount of heterogeneity accounted for):           33.66%
##
## Test for Residual Heterogeneity:
## QE(df = 5) = 81.1371, p-val < .0001
##
## Test of Moderators (coefficients 2:6):
## QM(df = 5) = 9.0630, p-val = 0.1066
##
## Model Results:
##
##          estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt       0.0502  0.0409  1.2273  0.2197 -0.0300  0.1304
## scaleBFI-S    -0.0796  0.0608 -1.3085  0.1907 -0.1987  0.0396
## scaleIPIP     -0.0396  0.0648 -0.6103  0.5417 -0.1666  0.0875
## scaleMIDI     -0.0904  0.0578 -1.5646  0.1177 -0.2036  0.0228
## scaleNEO-FFI    0.0251  0.0637  0.3941  0.6935 -0.0998  0.1500
## scaleNEO-PI-R    0.0851  0.0716  1.1894  0.2343 -0.0551  0.2254
##
## ---

```

```

## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Mixed-Effects Model (k = 11; tau^2 estimator: REML)
##
##   logLik  deviance      AIC      BIC      AICc
## 10.2744 -20.5488 -14.5488 -13.9571 -9.7488
##
## tau^2 (estimated amount of residual heterogeneity): 0.0051 (SE = 0.0027)
## tau (square root of estimated tau^2 value): 0.0716
## I^2 (residual heterogeneity / unaccounted variability): 98.45%
## H^2 (unaccounted variability / sampling variability): 64.68
## R^2 (amount of heterogeneity accounted for): 0.00%
##
## Test for Residual Heterogeneity:
## QE(df = 9) = 323.7405, p-val < .0001
##
## Test of Moderators (coefficient 2):
## QM(df = 1) = 0.5845, p-val = 0.4446
##
## Model Results:
##
##           estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt  0.0001  0.0385  0.0023  0.9981 -0.0754  0.0756
## mo       0.0056  0.0073  0.7645  0.4446 -0.0088  0.0200
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

```

Quadratic Table, Agreeableness

Table S69: Quadratic Trajectories of Agreeableness

coef	BASEII	EAS	LBC1936	SLS	SOEP
Fixed Effects					
Intercept	7.21	7.12	7.93	6.75	7.37
	0.07	0.34	0.17	0.03	0.01
	p < .001	p < .001	p < .001	p < .001	p < .001
Age	-0.25	0.41	-0.25	0.17	0.05
	0.14	0.32	0.25	0.01	0
	p = 0.036	p = 0.101	p = 0.157	p < .001	p < .001
Age ²	0.07	-0.08	0.07	-0.04	0.01
	0.07	0.08	0.09	0.01	0
	p = 0.159	p = 0.161	p = 0.203	p < .001	p < .001
Random Effects					
τ_{00}	0.67	1.51	0.85	0.77	0.50
τ_{01}	-0.06	-0.47	-0.08	-0.02	0.01
τ_{11}	0.05	0.23	0.07	0.02	0.00
σ^2	0.36	0.33	0.27	0.19	0.49
N_{people}	1,276	713	1,031	1,541	33,618
N_{obs}	3,818	1,667	3,013	4,023	74,056
LL	-4562	-2011	-3444	-4180	-97026

^a LL = Log Likelihood; Age = age (centered at 60); Age2 = age (centered at 60) squared.

Quadratic Plot, Agreeableness

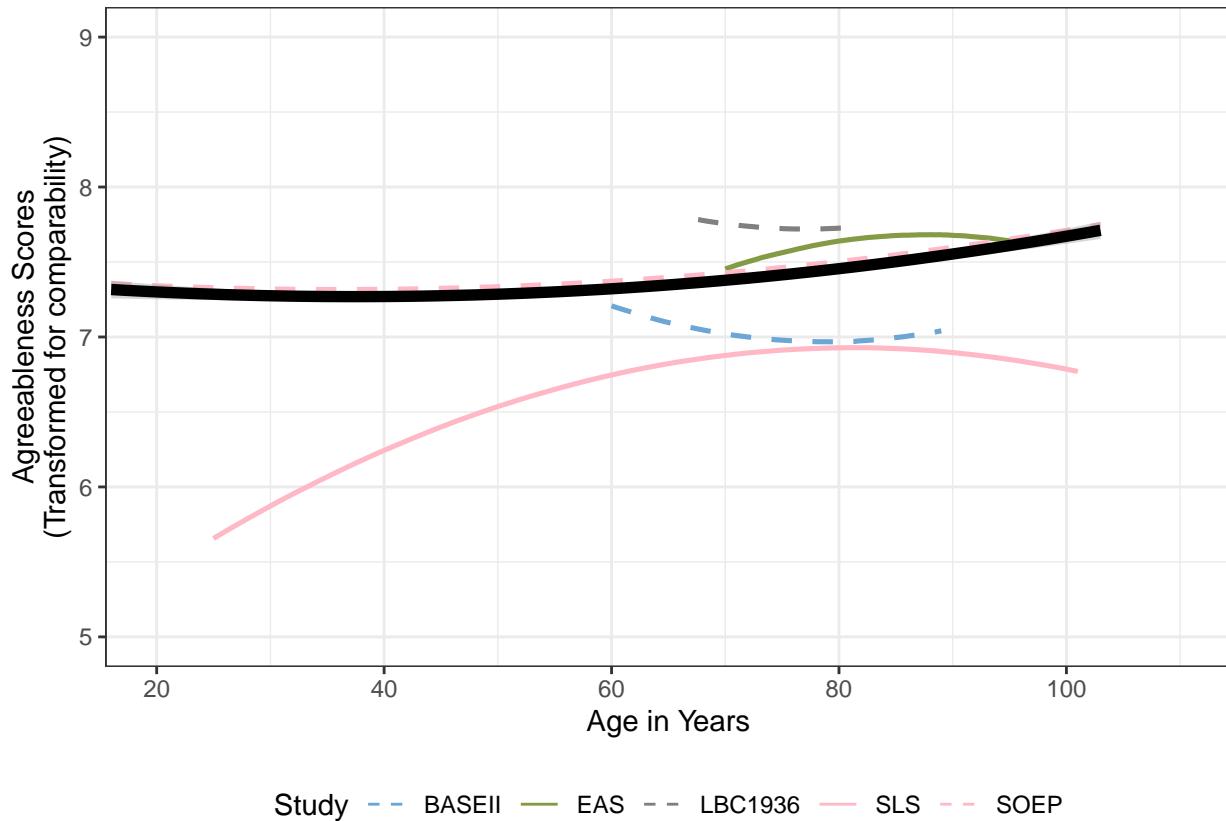


Figure S116: Quadratic Plot, Agreeableness (Main Manuscript Figure 10). Quadratic Trajectories of Agreeableness. Black line indicates average trajectory weighted by N. At the individual study level, there was not much evidence of a quadratic relationship, and the meta-analytic average was not significant ($p = .78$).

Quadratic Plot, unweighted, Agreeableness

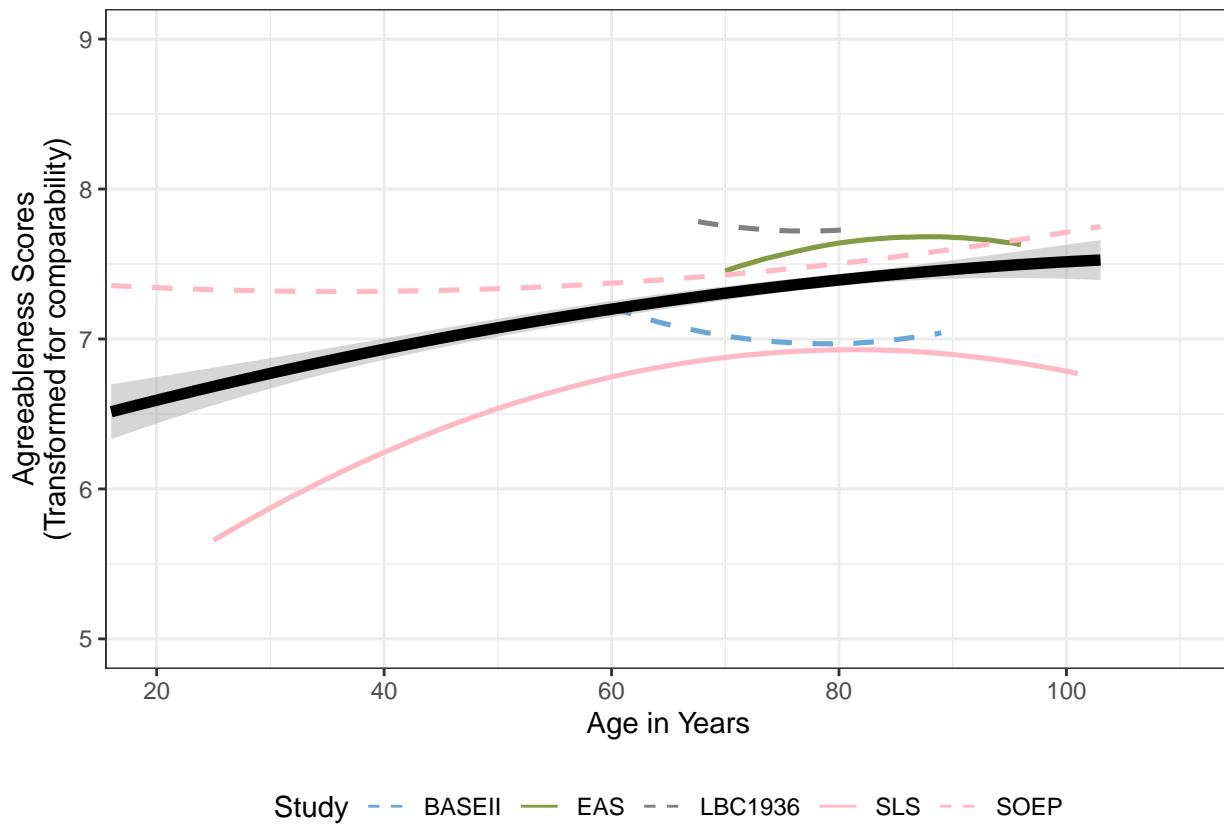


Figure S117: Quadratic Plot, unweighted, Agreeableness

Quadratic Meta, Agreeableness

```
##  
## Random-Effects Model (k = 5; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##   -0.1011    0.2021    4.2021   2.9747   16.2021  
##  
## tau^2 (estimated amount of total heterogeneity): 0.0262 (SE = 0.0289)  
## tau (square root of estimated tau^2 value):       0.1617  
## I^2 (total heterogeneity / total variability): 98.47%  
## H^2 (total variability / sampling variability): 65.54  
##  
## Test for Heterogeneity:  
## Q(df = 4) = 83.2841, p-val < .0001  
##  
## Model Results:  
##  
## estimate      se     zval     pval    ci.lb    ci.ub  
##  0.0262  0.0925  0.2829  0.7772 -0.1551  0.2074  
##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 5; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##   -0.6199    1.2399    7.2399   4.5357   31.2399  
##  
## tau^2 (estimated amount of residual heterogeneity):      0.0471 (SE = 0.0585)  
## tau (square root of estimated tau^2 value):            0.2171  
## I^2 (residual heterogeneity / unaccounted variability): 78.68%  
## H^2 (unaccounted variability / sampling variability):  4.69  
## R^2 (amount of heterogeneity accounted for):          0.00%  
##  
## Test for Residual Heterogeneity:  
## QE(df = 3) = 14.1663, p-val = 0.0027  
##  
## Test of Moderators (coefficient 2):  
## QM(df = 1) = 0.0050, p-val = 0.9435  
##  
## Model Results:  
##  
##           estimate      se     zval     pval    ci.lb    ci.ub  
## intrcpt    0.0686  0.7386  0.0929  0.9260 -1.3790  1.5162  
## age       -0.0008  0.0118 -0.0709  0.9435 -0.0240  0.0224  
##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 5; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc
```

```

##    0.2942   -0.5885    7.4115    2.1841   47.4115
##
## tau^2 (estimated amount of residual heterogeneity):      0.0250 (SE = 0.0449)
## tau (square root of estimated tau^2 value):             0.1581
## I^2 (residual heterogeneity / unaccounted variability): 60.15%
## H^2 (unaccounted variability / sampling variability):  2.51
## R^2 (amount of heterogeneity accounted for):          4.47%
##
## Test for Residual Heterogeneity:
## QE(df = 2) = 5.0939, p-val = 0.0783
##
## Test of Moderators (coefficients 2:3):
## QM(df = 2) = 2.9682, p-val = 0.2267
##
## Model Results:
##
##           estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt     -0.0611  0.1266  -0.4824  0.6295  -0.3092  0.1871
## countryU.S.    0.2713  0.1926   1.4087  0.1589  -0.1062  0.6488
## countryUK     -0.1914  0.3221  -0.5943  0.5523  -0.8228  0.4399
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Mixed-Effects Model (k = 5; tau^2 estimator: REML)
##
## logLik  deviance      AIC      BIC      AICc
## 0.3350  -0.6700    5.3300   2.6259   29.3300
##
## tau^2 (estimated amount of residual heterogeneity):      0.0299 (SE = 0.0331)
## tau (square root of estimated tau^2 value):             0.1730
## I^2 (residual heterogeneity / unaccounted variability): 98.99%
## H^2 (unaccounted variability / sampling variability):  99.31
## R^2 (amount of heterogeneity accounted for):          0.00%
##
## Test for Residual Heterogeneity:
## QE(df = 3) = 82.0538, p-val < .0001
##
## Test of Moderators (coefficient 2):
## QM(df = 1) = 1.2053, p-val = 0.2723
##
## Model Results:
##
##           estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt    -0.1451  0.1820  -0.7973  0.4253  -0.5017  0.2115
## mo         0.0347  0.0316   1.0978  0.2723  -0.0273  0.0968
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

```

Sex, Table, Agreeableness

Table S70: Linear Trajectories of Agreeableness, Moderated by Sex

coef	BASEII	EAS	HRS	ILSE	ILSE.Y	LBC1936	MIDUS	SLS	SOEP	WLSG	WLSS
Fixed Effects											
Intercept	7.01	7.24	8.14	6.57	6.61	7.36	7.96	6.35	7.21	7.38	7.51
Age	0.07 p < .001	0.18 p < .001	0.02 p < .001	0.07 p < .001	0.08 p < .001	0.07 p < .001	0.02 p < .001	0.04 p < .001	0.01 p < .001	0.01 p < .001	0.02 p < .001
Sex	-0.07 p = 0.137	0.12 p = 0.072	-0.05 p < .001	-0.05 p = 0.18	0.13 p = 0.008	0.02 p = 0.331	-0.01 p = 0.124	0.14 p < .001	0.02 p < .001	0.02 p = 0.058	0.08 p < .001
Age x Sex	0.06 p = 0.002	0.09 p = 0.087	0.01 p < .001	0.05 p = 0.002	0.05 p = 0.024	0.04 p < .001	0.01 p < .001	0.02 p < .001	0.01 p < .001	0.01 p < .001	0.01 p = 0.034
Age x Sex	-0.07 p = 0.156	-0.05 p = 0.334	-0.02 p = 0.048	0.22 p = 0.002	-0.08 p = 0.157	-0.12 p = 0.02	0.01 p = 0.333	-0.01 p = 0.278	0.02 p < .001	0.03 p = 0.022	-0.01 p = 0.267
Random Effects											
τ_{00}	0.64	1.48	0.55	0.67	0.77	0.65	0.56	0.69	0.47	0.58	0.58
τ_{01}	-0.05	-0.46	-0.01	-0.08	0.12	-0.05	-0.01	-0.02	0.01	-0.03	-0.03
τ_{11}	0.05	0.23	0.03	0.07	0.13	0.06	0.00	0.02	0.00	0.07	0.03
σ^2	0.36	0.33	0.40	0.32	0.28	0.27	0.37	0.19	0.49	0.30	0.32
N_{people}	1,276	713	16,053	488	500	1,031	6,389	1,541	33,617	7,829	4,674
N_{obs}	3,818	1,667	34,915	1,223	1,266	3,013	12,963	4,023	74,055	18,021	9,669
LL	-4554	-2006	-44827	-1476	-1529	-3362	-16362	-4129	-96419	-22085	-11934

^a LL = Log Likelihood; Age = age (centered at 60)

Sex, Plot, Agreeableness

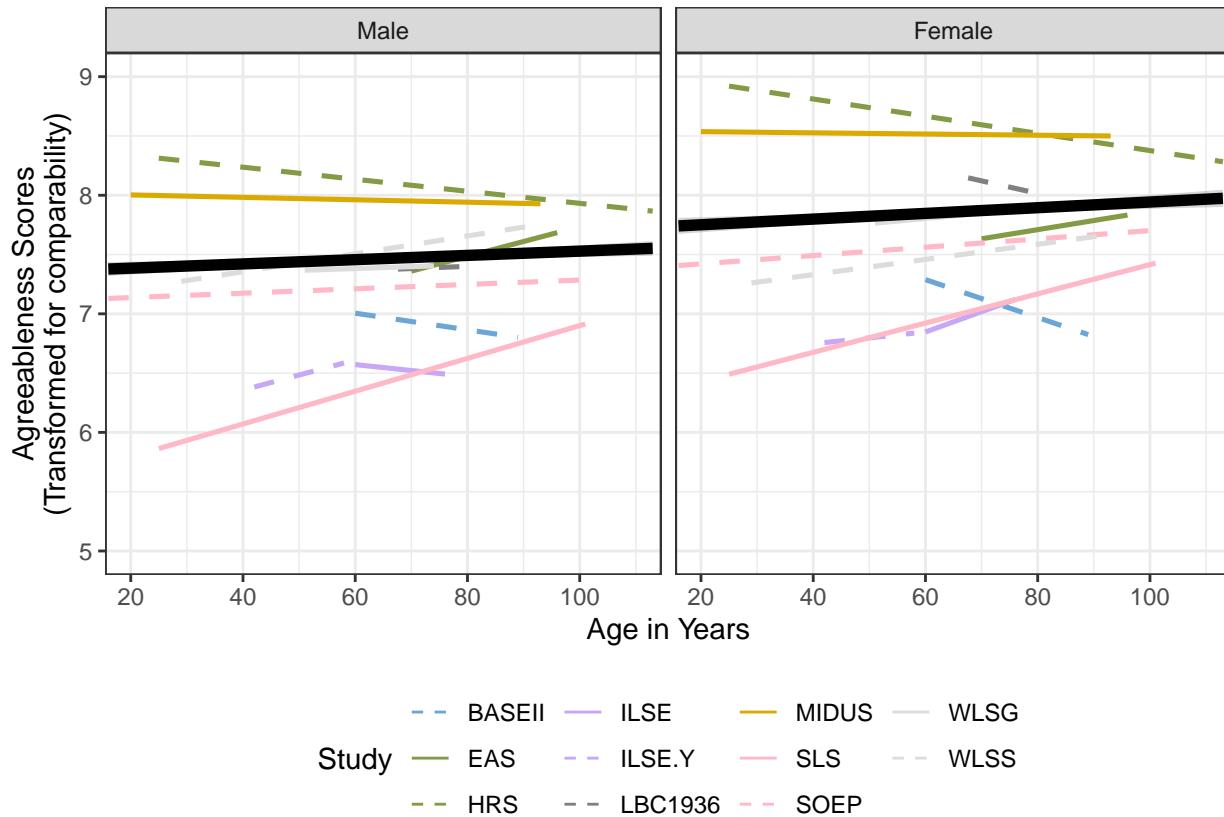


Figure S118: Sex, Plot, Agreeableness. Linear Trajectories of Agreeableness, Moderated by sex. Black line indicates average trajectory weighted by N. At the individual study level, there was not much evidence of an association with gender, and the meta-analytic average was not significant ($p = .89$)

Sex, Plot, unweighted, Agreeableness

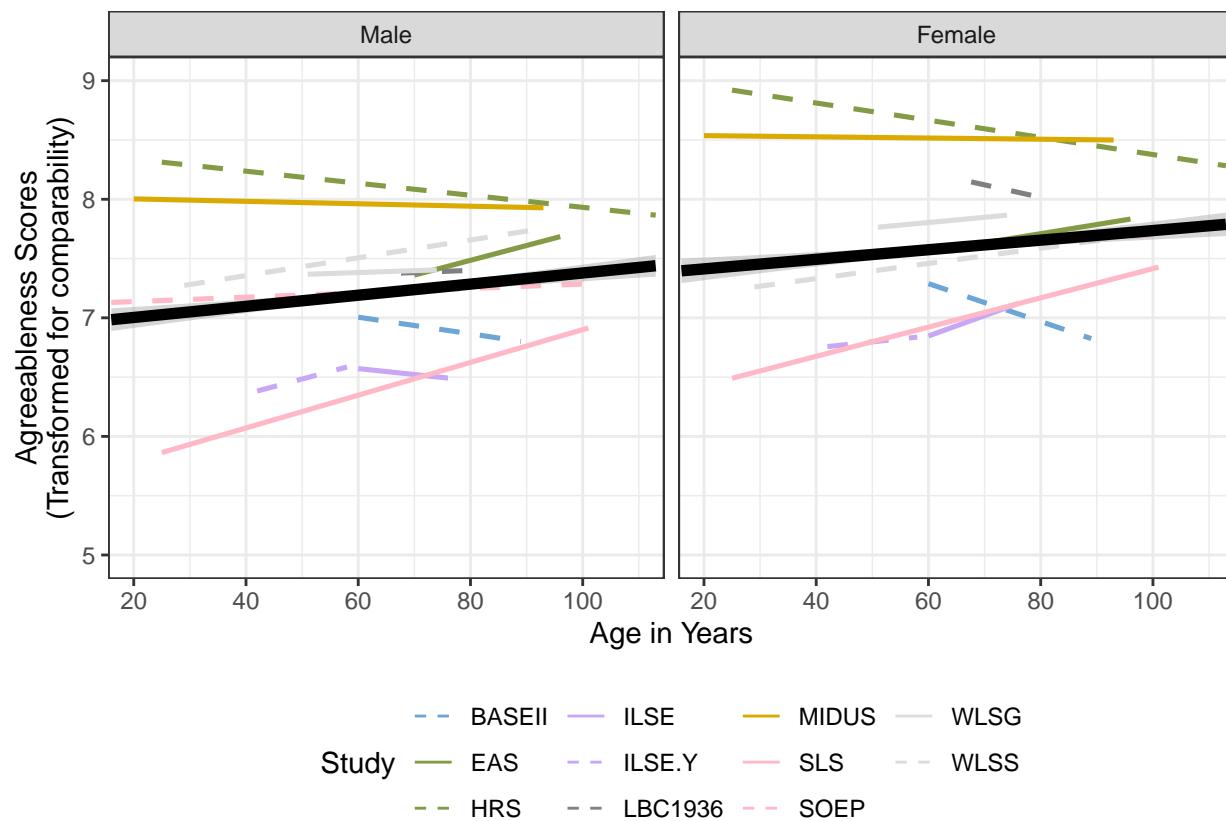


Figure S119: Sex, Plot, unweighted, Agreeableness

Sex, Meta Analysis, Agreeableness

```
##  
## Random-Effects Model (k = 11; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##  13.5292 -27.0584 -23.0584 -22.4532 -21.3441  
##  
## tau^2 (estimated amount of total heterogeneity): 0.0003 (SE = 0.0003)  
## tau (square root of estimated tau^2 value):       0.0175  
## I^2 (total heterogeneity / total variability):   52.79%  
## H^2 (total variability / sampling variability):  2.12  
##  
## Test for Heterogeneity:  
## Q(df = 10) = 27.1594, p-val = 0.0025  
##  
## Model Results:  
##  
## estimate      se     zval    pval    ci.lb    ci.ub  
##  0.0012  0.0088  0.1378  0.8904 -0.0161  0.0185  
##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 11; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##  12.8233 -25.6466 -19.6466 -19.0549 -14.8466  
##  
## tau^2 (estimated amount of residual heterogeneity):      0 (SE = 0.0001)  
## tau (square root of estimated tau^2 value):             0  
## I^2 (residual heterogeneity / unaccounted variability): 0.00%  
## H^2 (unaccounted variability / sampling variability):  1.00  
## R^2 (amount of heterogeneity accounted for):          100.00%  
##  
## Test for Residual Heterogeneity:  
## QE(df = 9) = 18.5771, p-val = 0.0290  
##  
## Test of Moderators (coefficient 2):  
## QM(df = 1) = 8.5823, p-val = 0.0034  
##  
## Model Results:  
##  
##           estimate      se     zval    pval    ci.lb    ci.ub  
## intrcpt    0.0966  0.0297  3.2474  0.0012  0.0383  0.1549  **  
## age       -0.0017  0.0006 -2.9296  0.0034 -0.0029 -0.0006  **  
##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 11; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc
```

```

##   9.2737 -18.5474 -8.5474 -8.8178 51.4526
##
## tau^2 (estimated amount of residual heterogeneity):      0.0003 (SE = 0.0004)
## tau (square root of estimated tau^2 value):             0.0159
## I^2 (residual heterogeneity / unaccounted variability): 32.49%
## H^2 (unaccounted variability / sampling variability):  1.48
## R^2 (amount of heterogeneity accounted for):          17.33%
##
## Test for Residual Heterogeneity:
## QE(df = 7) = 15.4335, p-val = 0.0308
##
## Test of Moderators (coefficients 2:4):
## QM(df = 3) = 6.2186, p-val = 0.1014
##
## Model Results:
##
##           estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt       0.0109  0.0158  0.6885  0.4911 -0.0201  0.0419
## countryGermany 0.0068  0.0223  0.3039  0.7612 -0.0369  0.0504
## countryU.S.    -0.0206  0.0204 -1.0092  0.3129 -0.0605  0.0194
## countryUK      -0.1350  0.0644 -2.0963  0.0361 -0.2613 -0.0088 *
## 
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Mixed-Effects Model (k = 11; tau^2 estimator: REML)
##
## logLik deviance      AIC      BIC      AICc
## 5.2195 -10.4391  3.5609  0.8270 115.5609
##
## tau^2 (estimated amount of residual heterogeneity):      0.0007 (SE = 0.0009)
## tau (square root of estimated tau^2 value):             0.0260
## I^2 (residual heterogeneity / unaccounted variability): 59.24%
## H^2 (unaccounted variability / sampling variability):  2.45
## R^2 (amount of heterogeneity accounted for):          0.00%
##
## Test for Residual Heterogeneity:
## QE(df = 5) = 14.6232, p-val = 0.0121
##
## Test of Moderators (coefficients 2:6):
## QM(df = 5) = 5.5395, p-val = 0.3536
##
## Model Results:
##
##           estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt       0.0098  0.0215  0.4534  0.6503 -0.0324  0.0519
## scaleBFI-S    -0.0012  0.0333 -0.0361  0.9712 -0.0664  0.0640
## scaleIPIP     -0.1150  0.0610 -1.8873  0.0591 -0.2345  0.0044 .
## scaleMIDI     -0.0178  0.0296 -0.6003  0.5483 -0.0759  0.0403
## scaleNEO-FFI    0.0601  0.0611  0.9847  0.3248 -0.0596  0.1799
## scaleNEO-PI-R   -0.0247  0.0422 -0.5854  0.5583 -0.1074  0.0580
## 
## ---

```

```

## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Mixed-Effects Model (k = 11; tau^2 estimator: REML)
##
##   logLik  deviance      AIC      BIC      AICc
##  12.2698 -24.5396 -18.5396 -17.9480 -13.7396
##
## tau^2 (estimated amount of residual heterogeneity): 0.0004 (SE = 0.0004)
## tau (square root of estimated tau^2 value):        0.0195
## I^2 (residual heterogeneity / unaccounted variability): 54.07%
## H^2 (unaccounted variability / sampling variability): 2.18
## R^2 (amount of heterogeneity accounted for):       0.00%
##
## Test for Residual Heterogeneity:
## QE(df = 9) = 26.6267, p-val = 0.0016
##
## Test of Moderators (coefficient 2):
## QM(df = 1) = 0.2981, p-val = 0.5851
##
## Model Results:
##
##           estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt  0.0160  0.0297  0.5389  0.5900 -0.0422  0.0742
## mo       -0.0045  0.0082 -0.5460  0.5851 -0.0205  0.0116
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

```

Retirement Status, Table, Agreeableness

Table S71: Linear Trajectories of Agreeableness, Moderated by Retirement

coef	BASEII	HRS	ILSE	ILSE.Y	MIDUS	SLS	SOEP	WLSG	WLSS
Fixed Effects									
Intercept	7.24	8.47	6.61	6.73	8.25	6.74	7.31	7.61	7.49
	0.12	0.01	0.13	0.07	0.01	0.03	0.01	0.01	0.02
	p < .001								
Age	-0.23	-0.08	-0.01	0.08	0.00	0.18	-0.01	0.03	0.08
	0.21	0.01	0.11	0.04	0.01	0.02	0	0.01	0.01
	p = 0.137	p < .001	p = 0.444	p = 0.023	p = 0.373	p < .001	p = 0.088	p < .001	p < .001
retired	-0.11	0.01	0.10	0.00	0.14	-0.07	0.10	-0.03	0.02
	0.13	0.03	0.14	0.16	0.04	0.07	0.02	0.03	0.03
	p = 0.208	p = 0.401	p = 0.238	p = 0.498	p < .001	p = 0.168	p < .001	p = 0.147	p = 0.261
Age x retired	0.13	0.02	0.09	0.03	-0.11	-0.10	0.05	-0.01	-0.02
	0.22	0.02	0.11	0.1	0.02	0.03	0.01	0.02	0.02
	p = 0.281	p = 0.169	p = 0.217	p = 0.377	p < .001	p = 0.001	p < .001	p = 0.354	p = 0.148
Random Effects									
τ_{00}	0.67	0.61	0.68	0.79	0.63	0.77	0.50	0.62	0.57
τ_{01}	-0.06	0.00	-0.06	0.12	-0.01	-0.02	0.01	-0.03	-0.03
τ_{11}	0.06	0.02	0.07	0.14	0.00	0.01	0.00	0.08	0.03
σ^2	0.36	0.38	0.32	0.28	0.37	0.19	0.48	0.30	0.32
N_{people}	1,276	13,493	488	499	6,367	1,513	20,778	7,248	3,921
N_{obs}	3,818	30,363	1,223	1,265	12,917	3,967	56,513	16,943	8,421
LL	-4563	-38926	-1493	-1536	-16585	-4121	-72925	-20972	-10343

^a LL = Log Likelihood; Age = age (centered at 60)

Retirement Status, Plot, Agreeableness

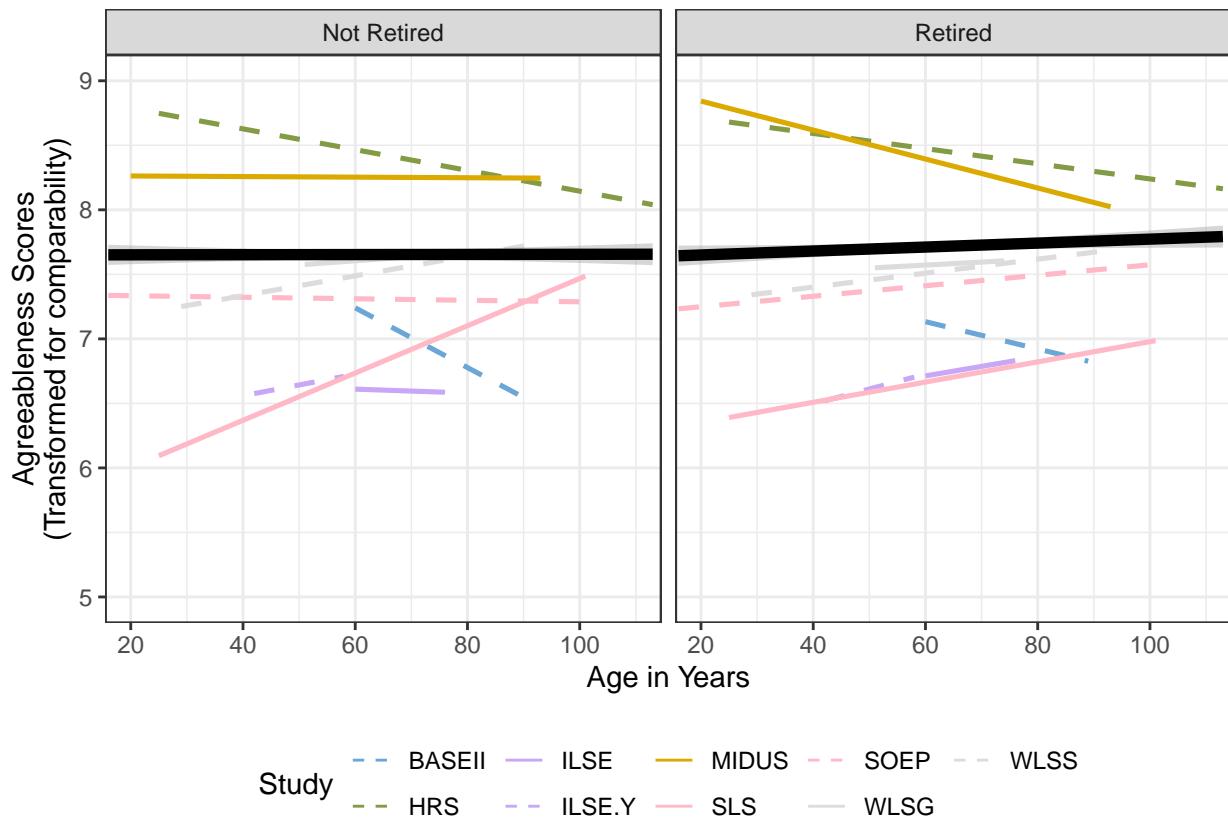


Figure S120: Retirement Status, Plot, Agreeableness. Linear Trajectories of Agreeableness, moderated by retirement status. Black line indicates average trajectory weighted by N. At the individual study level, few showed evidence that being retired was associated with changes in agreeableness, and the meta-analytic average was not significant ($p = .46$)

Retirement Status, Plot, unweighted, Agreeableness

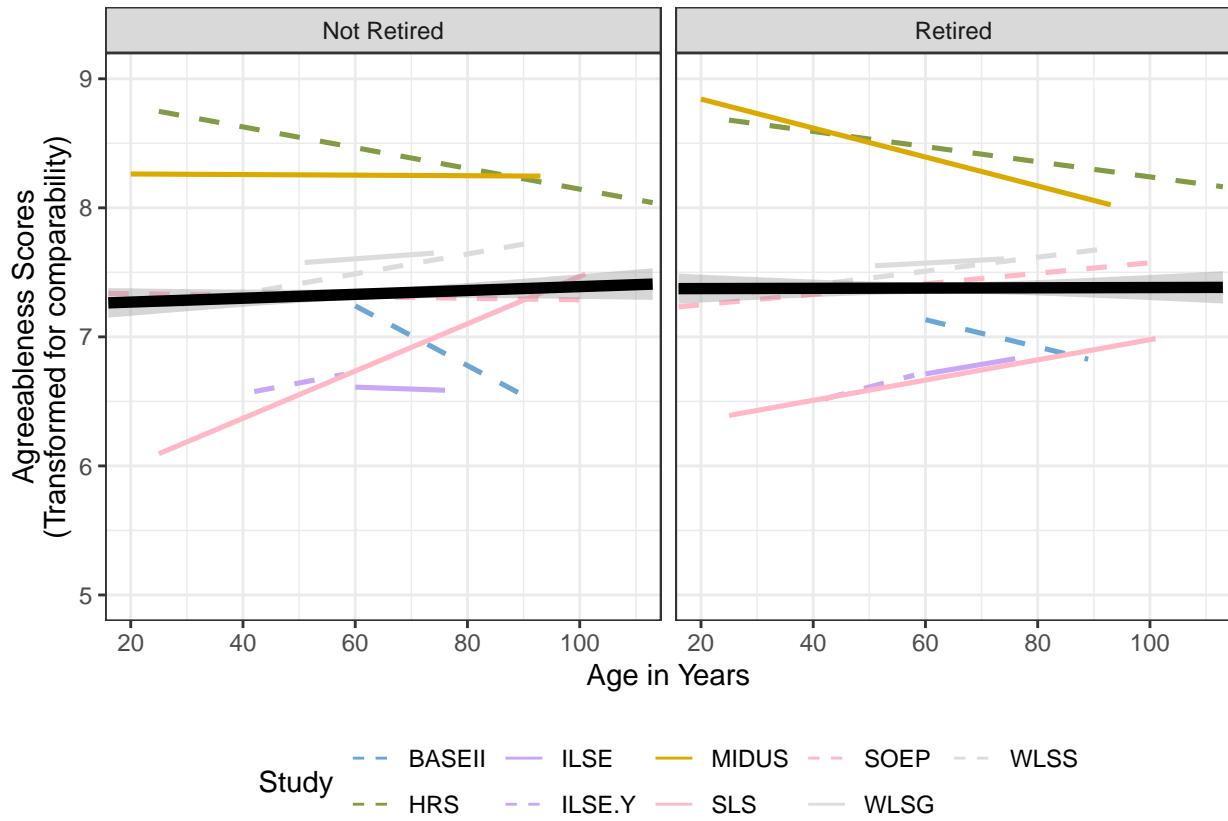


Figure S121: Retirement Status, Plot, unweighted, Agreeableness

Retirement Status, Meta Analysis, Agreeableness

```
##  
## Random-Effects Model (k = 9; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##    8.9908 -17.9816 -13.9816 -13.8228 -11.5816  
##  
## tau^2 (estimated amount of total heterogeneity): 0.0033 (SE = 0.0024)  
## tau (square root of estimated tau^2 value):       0.0576  
## I^2 (total heterogeneity / total variability):   83.51%  
## H^2 (total variability / sampling variability):  6.07  
##  
## Test for Heterogeneity:  
## Q(df = 8) = 51.4259, p-val < .0001  
##  
## Model Results:  
##  
## estimate      se     zval    pval    ci.lb    ci.ub  
## -0.0178  0.0242 -0.7367  0.4613 -0.0652  0.0296  
##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 9; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##    7.4315 -14.8630 -8.8630 -9.0253 -0.8630  
##  
## tau^2 (estimated amount of residual heterogeneity):      0.0040 (SE = 0.0031)  
## tau (square root of estimated tau^2 value):            0.0635  
## I^2 (residual heterogeneity / unaccounted variability): 84.26%  
## H^2 (unaccounted variability / sampling variability):  6.36  
## R^2 (amount of heterogeneity accounted for):          0.00%  
##  
## Test for Residual Heterogeneity:  
## QE(df = 7) = 50.5418, p-val < .0001  
##  
## Test of Moderators (coefficient 2):  
## QM(df = 1) = 0.0502, p-val = 0.8227  
##  
## Model Results:  
##  
##           estimate      se     zval    pval    ci.lb    ci.ub  
## intrcpt  -0.0566  0.1776 -0.3186  0.7501 -0.4046  0.2915  
## age       0.0007  0.0032  0.2241  0.8227 -0.0055  0.0070  
##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 9; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc
```

```

##    7.4823 -14.9646 -6.9646 -7.7975 33.0354
##
## tau^2 (estimated amount of residual heterogeneity):      0.0024 (SE = 0.0024)
## tau (square root of estimated tau^2 value):             0.0493
## I^2 (residual heterogeneity / unaccounted variability): 68.76%
## H^2 (unaccounted variability / sampling variability):   3.20
## R^2 (amount of heterogeneity accounted for):           26.81%
##
## Test for Residual Heterogeneity:
## QE(df = 6) = 19.7260, p-val = 0.0031
##
## Test of Moderators (coefficients 2:3):
## QM(df = 2) = 4.5538, p-val = 0.1026
##
## Model Results:
##
##              estimate     se     zval    pval    ci.lb    ci.ub
## intrcpt      -0.0155  0.0381  -0.4060  0.6847  -0.0902  0.0593
## countryGermany  0.0678  0.0571   1.1878  0.2349  -0.0441  0.1797
## countryU.S.    -0.0461  0.0500  -0.9209  0.3571  -0.1441  0.0520
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Mixed-Effects Model (k = 9; tau^2 estimator: REML)
##
## logLik  deviance      AIC      BIC      AICc
## 4.5490  -9.0980  2.9020  -0.7802  86.9020
##
## tau^2 (estimated amount of residual heterogeneity):      0.0032 (SE = 0.0036)
## tau (square root of estimated tau^2 value):             0.0565
## I^2 (residual heterogeneity / unaccounted variability): 76.74%
## H^2 (unaccounted variability / sampling variability):   4.30
## R^2 (amount of heterogeneity accounted for):           3.84%
##
## Test for Residual Heterogeneity:
## QE(df = 4) = 16.9991, p-val = 0.0019
##
## Test of Moderators (coefficients 2:5):
## QM(df = 4) = 4.4185, p-val = 0.3523
##
## Model Results:
##
##              estimate     se     zval    pval    ci.lb    ci.ub
## intrcpt      -0.0155  0.0428  -0.3613  0.7179  -0.0995  0.0685
## scaleBFI-S     0.0669  0.0704   0.9510  0.3416  -0.0710  0.2049
## scaleMIDI     -0.0284  0.0608  -0.4672  0.6403  -0.1476  0.0908
## scaleNEO-FFI    0.0734  0.0959   0.7652  0.4442  -0.1145  0.2612
## scaleNEO-PI-R   -0.0893  0.0788  -1.1341  0.2568  -0.2437  0.0651
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##

```

```

## Mixed-Effects Model (k = 9; tau^2 estimator: REML)
##
##    logLik  deviance      AIC      BIC      AICc
##    7.3491 -14.6982 -8.6982 -8.8604 -0.6982
##
##    tau^2 (estimated amount of residual heterogeneity):     0.0041 (SE = 0.0032)
##    tau (square root of estimated tau^2 value):            0.0638
##    I^2 (residual heterogeneity / unaccounted variability): 81.91%
##    H^2 (unaccounted variability / sampling variability):  5.53
##    R^2 (amount of heterogeneity accounted for):          0.00%
##
## Test for Residual Heterogeneity:
## QE(df = 7) = 37.2981, p-val < .0001
##
## Test of Moderators (coefficient 2):
## QM(df = 1) = 0.0051, p-val = 0.9432
##
## Model Results:
##
##           estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt   -0.0306  0.1898 -0.1610  0.8721 -0.4026  0.3414
## mo        0.0040  0.0568  0.0713  0.9432 -0.1073  0.1154
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

```

Married, Table, Agreeableness

Table S72: Linear Trajectories of Agreeableness, Moderated by Marriage

coef	BASEII	EAS	HRS	ILSE	ILSE.Y	LBC1936	MIDUS	SLS	SOEP	WLSG	WLSS
Fixed Effects											
Intercept	7.24	7.34	8.51	6.84	6.51	7.86	8.27	6.68	7.44	7.53	7.43
Age	0.08 p < .001	0.15 p < .001	0.02 p < .001	0.09 p < .001	0.12 p < .001	0.09 p < .001	0.02 p < .001	0.05 p < .001	0.01 p < .001	0.02 p < .001	0.03 p < .001
married	-0.16 p = 0.009	0.16 p = 0.013	-0.07 p < .001	0.05 p = 0.261	0.06 p = 0.229	-0.05 p = 0.179	-0.02 p = 0.052	0.13 p < .001	0.05 p < .001	0.05 p = 0.004	0.07 p < .001
Age x married	0.07 p = 0.091	0.07 p = 0.142	0.01 p = 0.001	0.07 p = 0.04	0.07 p = 0.019	0.06 p = 0.23	0.01 p = 0.245	0.02 p = 0.329	0 p < .001	0.02 p < .001	0.02 p = 0.011
τ_{00}	0.11 p = 0.091	0.24 p = 0.142	0.02 p = 0.001	0.11 p = 0.04	0.14 p = 0.019	0.11 p = 0.23	0.03 p = 0.245	0.06 p = 0.329	0.01 p < .001	0.03 p < .001	0.03 p = 0.011
τ_{01}	-0.14 p = 0.298	0.26 p = 0.069	-0.07 p = 0.098	-0.19 p = 0.419	0.28 p = 0.303	-0.08 p = 0.445	-0.02 p = 0.124	-0.02 p = 0.484	-0.09 p < .001	0.09 p = 0.176	0.08 p = 0.394
Random Effects											
τ_{11}	0.05	0.23	0.03	0.07	0.13	0.07	0.00	0.01	0.00	0.07	0.03
σ^2	0.35	0.33	0.40	0.32	0.28	0.27	0.38	0.19	0.49	0.30	0.32
N_{people}	1,005	712	15,426	488	499	1,031	6,405	1,504	20,777	7,642	4,456
N_{obs}	3,546	1,664	34,165	1,223	1,265	3,013	12,988	3,954	56,511	17,743	9,360
LL	-4170	-2007	-44306	-1493	-1532	-3444	-16707	-4119	-72926	-21965	-11523

^a LL = Log Likelihood; Age = age (centered at 60)

Married, Plot, Agreeableness

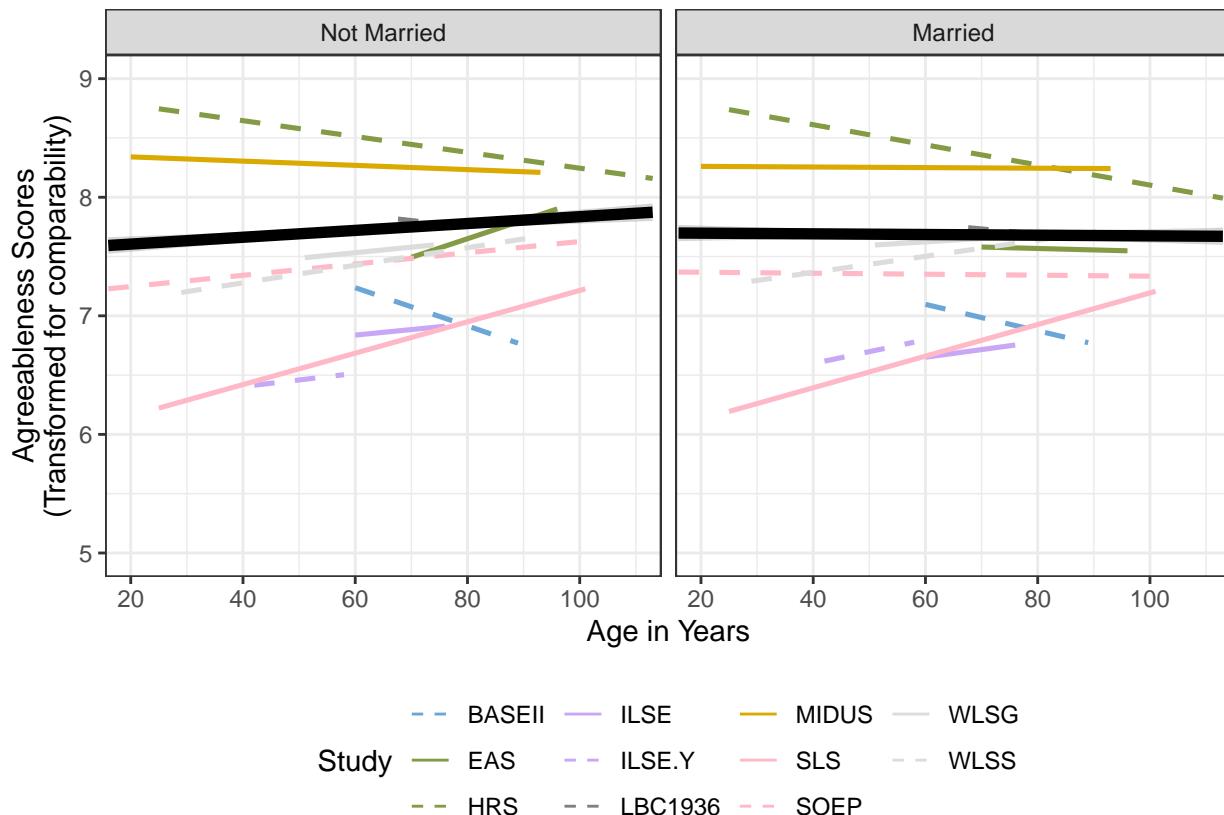


Figure S122: Married, Plot, Agreeableness. Linear Trajectories of Agreeableness, moderated by marriage. Black line indicates average trajectory weighted by N. At the individual study level, none showed evidence that being married was associated with greater declines in agreeableness, and the meta-analytic average was not significant ($p = .18$).

Married, Plot, unweighted, Agreeableness

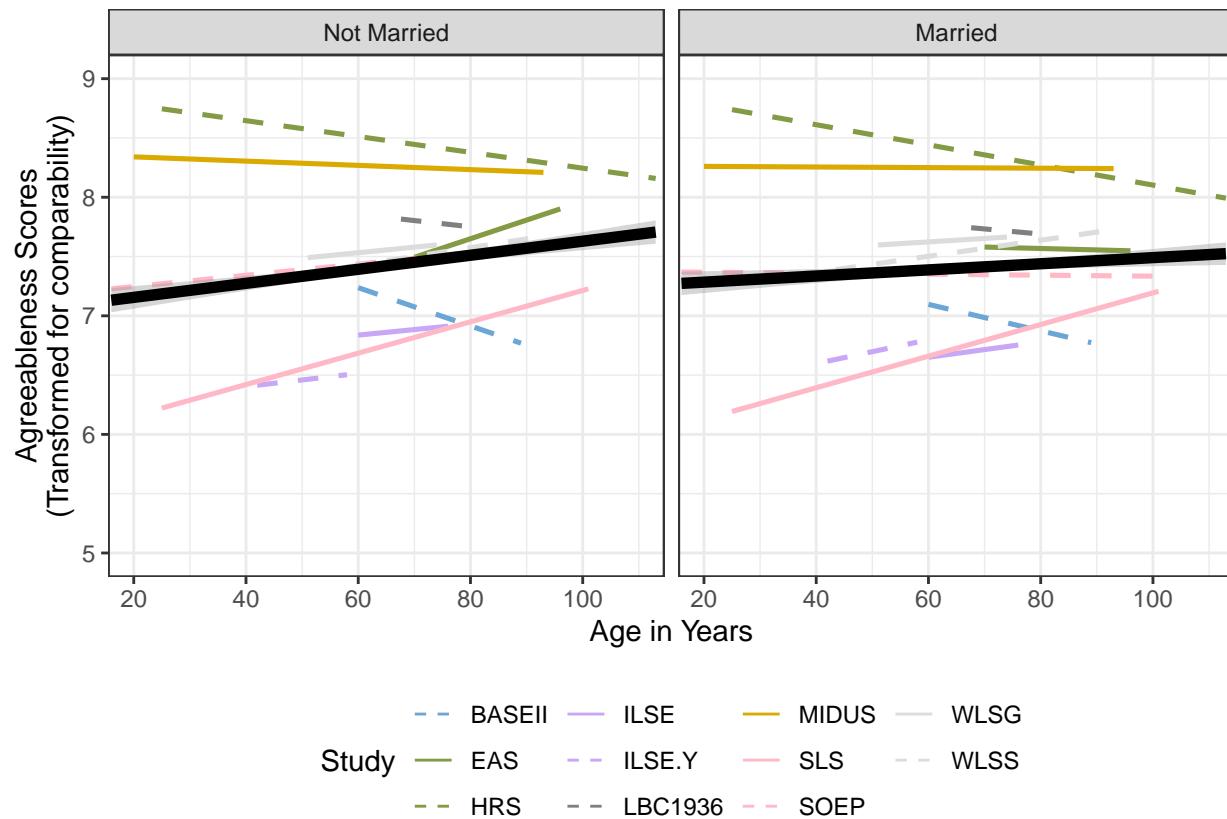


Figure S123: Married, Plot, unweighted, Agreeableness

Married, Meta Analysis, Agreeableness

```
##  
## Random-Effects Model (k = 11; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##  17.2920 -34.5841 -30.5841 -29.9789 -28.8698  
##  
## tau^2 (estimated amount of total heterogeneity): 0.0005 (SE = 0.0005)  
## tau (square root of estimated tau^2 value):       0.0225  
## I^2 (total heterogeneity / total variability):   56.72%  
## H^2 (total variability / sampling variability):  2.31  
##  
## Test for Heterogeneity:  
## Q(df = 10) = 30.0000, p-val = 0.0009  
##  
## Model Results:  
##  
## estimate      se     zval    pval    ci.lb    ci.ub  
## -0.0146  0.0110 -1.3281  0.1842 -0.0361  0.0069  
##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 11; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##  15.1104 -30.2208 -24.2208 -23.6291 -19.4208  
##  
## tau^2 (estimated amount of residual heterogeneity):      0.0006 (SE = 0.0006)  
## tau (square root of estimated tau^2 value):            0.0248  
## I^2 (residual heterogeneity / unaccounted variability): 55.76%  
## H^2 (unaccounted variability / sampling variability):  2.26  
## R^2 (amount of heterogeneity accounted for):          0.00%  
##  
## Test for Residual Heterogeneity:  
## QE(df = 9) = 27.1005, p-val = 0.0013  
##  
## Test of Moderators (coefficient 2):  
## QM(df = 1) = 0.0001, p-val = 0.9934  
##  
## Model Results:  
##  
##           estimate      se     zval    pval    ci.lb    ci.ub  
## intrcpt  -0.0134  0.0743 -0.1803  0.8569 -0.1590  0.1322  
## age       -0.0000  0.0013 -0.0083  0.9934 -0.0026  0.0026  
##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 11; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc
```

```

## 11.7480 -23.4961 -13.4961 -13.7665 46.5039
##
## tau^2 (estimated amount of residual heterogeneity): 0.0001 (SE = 0.0004)
## tau (square root of estimated tau^2 value): 0.0117
## I^2 (residual heterogeneity / unaccounted variability): 16.80%
## H^2 (unaccounted variability / sampling variability): 1.20
## R^2 (amount of heterogeneity accounted for): 72.78%
##
## Test for Residual Heterogeneity:
## QE(df = 7) = 8.3197, p-val = 0.3053
##
## Test of Moderators (coefficients 2:4):
## QM(df = 3) = 6.7460, p-val = 0.0805
##
## Model Results:
##
##          estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt      -0.0127  0.0168 -0.7549  0.4503 -0.0457  0.0203
## countryGermany -0.0334  0.0212 -1.5730  0.1157 -0.0750  0.0082
## countryU.S.       0.0104  0.0205  0.5072  0.6120 -0.0297  0.0505
## countryUK        0.0220  0.0706  0.3123  0.7548 -0.1163  0.1604
##
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Mixed-Effects Model (k = 11; tau^2 estimator: REML)
##
##          logLik   deviance      AIC      BIC     AICc
## 8.2453 -16.4906 -2.4906 -5.2246 109.5094
##
## tau^2 (estimated amount of residual heterogeneity): 0.0002 (SE = 0.0004)
## tau (square root of estimated tau^2 value): 0.0134
## I^2 (residual heterogeneity / unaccounted variability): 22.62%
## H^2 (unaccounted variability / sampling variability): 1.29
## R^2 (amount of heterogeneity accounted for): 64.29%
##
## Test for Residual Heterogeneity:
## QE(df = 5) = 6.1734, p-val = 0.2897
##
## Test of Moderators (coefficients 2:6):
## QM(df = 5) = 7.3082, p-val = 0.1987
##
## Model Results:
##
##          estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt      -0.0126  0.0175 -0.7240  0.4691 -0.0469  0.0216
## scaleBFI-S     -0.0365  0.0228 -1.6000  0.1096 -0.0813  0.0082
## scaleIPIP      -0.0251  0.0616 -0.4078  0.6834 -0.1459  0.0956
## scaleMIDI       0.0117  0.0221  0.5288  0.5970 -0.0316  0.0550
## scaleNEO-FFI     0.0438  0.0645  0.6798  0.4966 -0.0825  0.1702
## scaleNEO-PI-R     0.0137  0.0351  0.3915  0.6954 -0.0550  0.0824
##
## ---

```

```

## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Mixed-Effects Model (k = 11; tau^2 estimator: REML)
##
##   logLik  deviance      AIC      BIC      AICc
##  17.3907 -34.7814 -28.7814 -28.1897 -23.9814
##
## tau^2 (estimated amount of residual heterogeneity): 0.0003 (SE = 0.0004)
## tau (square root of estimated tau^2 value):        0.0185
## I^2 (residual heterogeneity / unaccounted variability): 44.65%
## H^2 (unaccounted variability / sampling variability): 1.81
## R^2 (amount of heterogeneity accounted for):       31.88%
##
## Test for Residual Heterogeneity:
## QE(df = 9) = 15.2234, p-val = 0.0850
##
## Test of Moderators (coefficient 2):
## QM(df = 1) = 3.2088, p-val = 0.0732
##
## Model Results:
##
##           estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt  0.0360  0.0306  1.1785  0.2386 -0.0239  0.0959
## mo       -0.0150  0.0084 -1.7913  0.0732 -0.0314  0.0014 .
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

```

Divorce, Table, Agreeableness

Table S73: Linear Trajectories of Agreeableness, Moderated by Divorce

coef	BASEII	EAS	HRS	ILSE	ILSE.Y	LBC1936	MIDUS	SLS	SOEP	WLSG	WLSS
Fixed Effects											
Intercept	7.10	7.43	8.44	6.72	6.76	7.80	8.25	6.67	7.38	7.61	7.49
Age	0.06 p < .001	0.13 p < .001	0.01 p < .001	0.05 p < .001	0.07 p < .001	0.05 p < .001	0.01 p < .001	0.03 p < .001	0.01 p < .001	0.01 p < .001	0.01 p < .001
divorce	-0.08 0.05 p = 0.083	0.10 0.06 p = 0.043	-0.08 0.01 p < .001	0.04 0.04 p = 0.157	0.10 0.04 p = 0.006	-0.05 0.03 p = 0.069	0.00 0.01 p = 0.302	0.13 0.01 p < .001	0.02 0 p < .001	0.03 0.01 p < .001	0.07 0.01 p < .001
Age x divorce	0.22 0.12 p = 0.033	0.07 0.32 p = 0.418	0.22 0.03 p < .001	-0.21 0.16 p = 0.106	-0.25 0.16 p = 0.059	-0.05 0.19 p = 0.403	0.06 0.04 p = 0.043	-0.04 0.08 p = 0.316	-0.02 0.02 p = 0.162	-0.06 0.03 p = 0.031	-0.07 0.04 p = 0.059
τ_{00}	0.62	1.52	0.62	0.68	0.78	0.85	0.63	0.77	0.50	0.62	0.57
τ_{01}	-0.03	-0.47	-0.01	-0.06	0.12	-0.09	-0.01	-0.01	0.01	-0.03	-0.03
τ_{11}	0.03	0.23	0.03	0.07	0.13	0.07	0.00	0.01	0.00	0.08	0.03
σ^2	0.36	0.33	0.40	0.32	0.28	0.27	0.38	0.19	0.49	0.30	0.32
N_{people}	1,005	712	15,426	488	499	1,031	6,405	1,504	20,777	7,640	4,426
N_{obs}	3,546	1,664	34,165	1,223	1,265	3,013	12,988	3,954	56,511	17,740	9,309
LL	-4169	-2008	-44284	-1493	-1534	-3444	-16704	-4119	-72957	-21967	-11464

^a LL = Log Likelihood; Age = age (centered at 60)

Divorce, Plot, Agreeableness

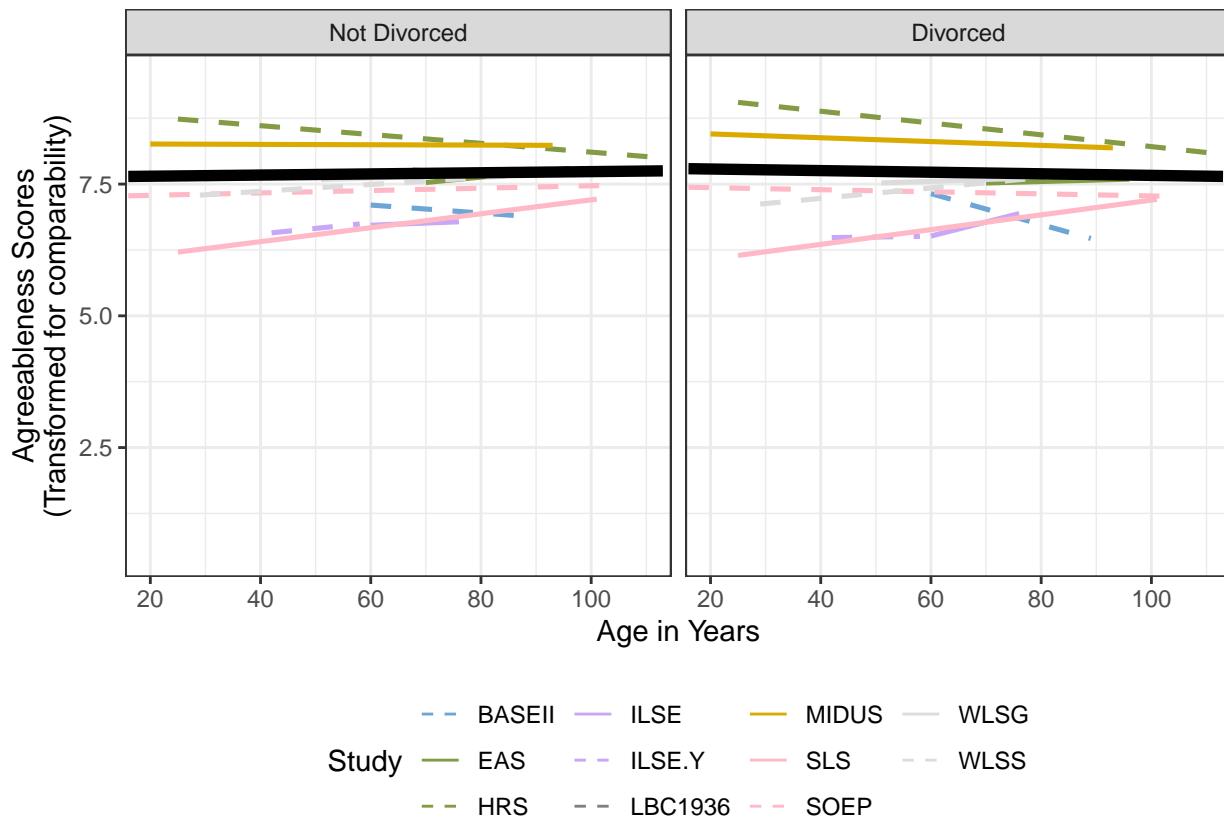


Figure S124: Divorce, Plot, Agreeableness. Linear Trajectories of Agreeableness, moderated by divorce. Black line indicates average trajectory weighted by N. At the individual study level, few showed evidence that being divorced was associated with greater declines in agreeableness, and the meta-analytic average was significant ($p = .039$)

Divorce, Plot, unweighted, Agreeableness

Divorce, Meta Analysis, Agreeableness

```
##  
## Random-Effects Model (k = 11; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##  13.1133  -26.2266  -22.2266  -21.6214  -20.5123  
##  
## tau^2 (estimated amount of total heterogeneity): 0.0002 (SE = 0.0004)  
## tau (square root of estimated tau^2 value):       0.0134  
## I^2 (total heterogeneity / total variability):   16.95%  
## H^2 (total variability / sampling variability):  1.20  
##  
## Test for Heterogeneity:  
## Q(df = 10) = 14.6166, p-val = 0.1467  
##  
## Model Results:  
##  
## estimate      se     zval    pval    ci.lb    ci.ub  
## -0.0210  0.0102  -2.0571  0.0397  -0.0411  -0.0010  *  
##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 11; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##  10.9487  -21.8974  -15.8974  -15.3058  -11.0974  
##  
## tau^2 (estimated amount of residual heterogeneity):      0.0004 (SE = 0.0006)  
## tau (square root of estimated tau^2 value):            0.0196  
## I^2 (residual heterogeneity / unaccounted variability): 26.28%  
## H^2 (unaccounted variability / sampling variability):  1.36  
## R^2 (amount of heterogeneity accounted for):          0.00%  
##  
## Test for Residual Heterogeneity:  
## QE(df = 9) = 14.3812, p-val = 0.1094  
##  
## Test of Moderators (coefficient 2):  
## QM(df = 1) = 0.0603, p-val = 0.8061  
##  
## Model Results:  
##  
##           estimate      se     zval    pval    ci.lb    ci.ub  
## intrcpt  -0.0378  0.0753  -0.5018  0.6158  -0.1853  0.1097  
## age       0.0003  0.0014   0.2455  0.8061  -0.0023  0.0030  
##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 11; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc
```

```

##    9.5014 -19.0028 -9.0028 -9.2732 50.9972
##
## tau^2 (estimated amount of residual heterogeneity): 0.0000 (SE = 0.0004)
## tau (square root of estimated tau^2 value): 0.0005
## I^2 (residual heterogeneity / unaccounted variability): 0.02%
## H^2 (unaccounted variability / sampling variability): 1.00
## R^2 (amount of heterogeneity accounted for): 99.88%
##
## Test for Residual Heterogeneity:
## QE(df = 7) = 8.3555, p-val = 0.3023
##
## Test of Moderators (coefficients 2:4):
## QM(df = 3) = 6.2584, p-val = 0.0997
##
## Model Results:
##
##          estimate      se     zval   pval    ci.lb    ci.ub
## intrcpt       0.0139  0.0182  0.7660  0.4437 -0.0217  0.0496
## countryGermany -0.0576  0.0235 -2.4524  0.0142 -0.1037 -0.0116 *
## countryU.S.    -0.0412  0.0219 -1.8804  0.0601 -0.0842  0.0017 .
## countryUK      -0.0008  0.1261 -0.0067  0.9947 -0.2480  0.2463
##
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Mixed-Effects Model (k = 11; tau^2 estimator: REML)
##
## logLik deviance      AIC      BIC      AICc
## 6.1518 -12.3037  1.6963 -1.0376 113.6963
##
## tau^2 (estimated amount of residual heterogeneity): 0.0000 (SE = 0.0004)
## tau (square root of estimated tau^2 value): 0.0029
## I^2 (residual heterogeneity / unaccounted variability): 0.81%
## H^2 (unaccounted variability / sampling variability): 1.01
## R^2 (amount of heterogeneity accounted for): 95.20%
##
## Test for Residual Heterogeneity:
## QE(df = 5) = 7.0156, p-val = 0.2195
##
## Test of Moderators (coefficients 2:6):
## QM(df = 5) = 7.4917, p-val = 0.1866
##
## Model Results:
##
##          estimate      se     zval   pval    ci.lb    ci.ub
## intrcpt       0.0140  0.0183  0.7634  0.4452 -0.0219  0.0499
## scaleBFI-S    -0.0600  0.0239 -2.5098  0.0121 -0.1069 -0.0132 *
## scaleIPIP     -0.0337  0.1005 -0.3354  0.7373 -0.2307  0.1632
## scaleMIDI     -0.0443  0.0225 -1.9729  0.0485 -0.0884 -0.0003 *
## scaleNEO-FFI    0.0089  0.0845  0.1053  0.9161 -0.1567  0.1745
## scaleNEO-PI-R   -0.0063  0.0455 -0.1381  0.8901 -0.0954  0.0829
##
## ---

```

```

## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Mixed-Effects Model (k = 11; tau^2 estimator: REML)
##
##   logLik  deviance      AIC      BIC      AICc
##  12.4192 -24.8384 -18.8384 -18.2467 -14.0384
##
## tau^2 (estimated amount of residual heterogeneity): 0.0001 (SE = 0.0004)
## tau (square root of estimated tau^2 value):        0.0089
## I^2 (residual heterogeneity / unaccounted variability): 8.27%
## H^2 (unaccounted variability / sampling variability): 1.09
## R^2 (amount of heterogeneity accounted for):       55.75%
##
## Test for Residual Heterogeneity:
## QE(df = 9) = 13.4874, p-val = 0.1418
##
## Test of Moderators (coefficient 2):
## QM(df = 1) = 0.9113, p-val = 0.3398
##
## Model Results:
##
##           estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt  0.0124  0.0374  0.3303  0.7412 -0.0609  0.0856
## mo       -0.0102  0.0107 -0.9546  0.3398 -0.0313  0.0108
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

```

Widow, Table, Agreeableness

Table S74: Linear Trajectories of Agreeableness, Moderated by Widowhood

coef	BASEII	EAS	HRS	ILSE	LBC1936	SLS	SOEP
Fixed Effects							
Intercept	7.14	7.48	8.46	6.66	7.77	6.66	7.34
	0.05	0.14	0.01	0.05	0.05	0.03	0.01
	p < .001						
Age	-0.15	0.04	-0.07	0.10	-0.04	0.14	0.01
	0.05	0.07	0.01	0.04	0.03	0.01	0
	p < .001	p = 0.301	p < .001	p = 0.008	p = 0.118	p < .001	p = 0.015
widow	0.27	0.02	0.03	0.37	0.19	0.35	0.32
	0.19	0.26	0.03	0.15	0.14	0.14	0.03
	p = 0.071	p = 0.474	p = 0.167	p = 0.007	p = 0.088	p = 0.006	p < .001
Age x widow	0.09	0.09	-0.03	-0.31	-0.05	-0.13	0.00
	0.16	0.12	0.02	0.12	0.09	0.06	0.02
	p = 0.271	p = 0.233	p = 0.087	p = 0.004	p = 0.276	p = 0.009	p = 0.463
Random Effects							
τ_{00}	0.62	1.48	0.62	0.66	0.84	0.77	0.49
τ_{01}	-0.03	-0.45	-0.01	-0.04	-0.08	-0.01	0.00
τ_{11}	0.03	0.22	0.03	0.06	0.07	0.01	0.00
σ^2	0.36	0.33	0.40	0.32	0.27	0.19	0.48
N_{people}	1,005	712	15,426	488	1,031	1,504	20,777
N_{obs}	3,546	1,664	34,165	1,223	3,013	3,954	56,511
LL	-4163	-2005	-44322	-1490	-3443	-4115	-72870

^a LL = Log Likelihood; Age = age (centered at 60)

Widow, Plot, Agreeableness

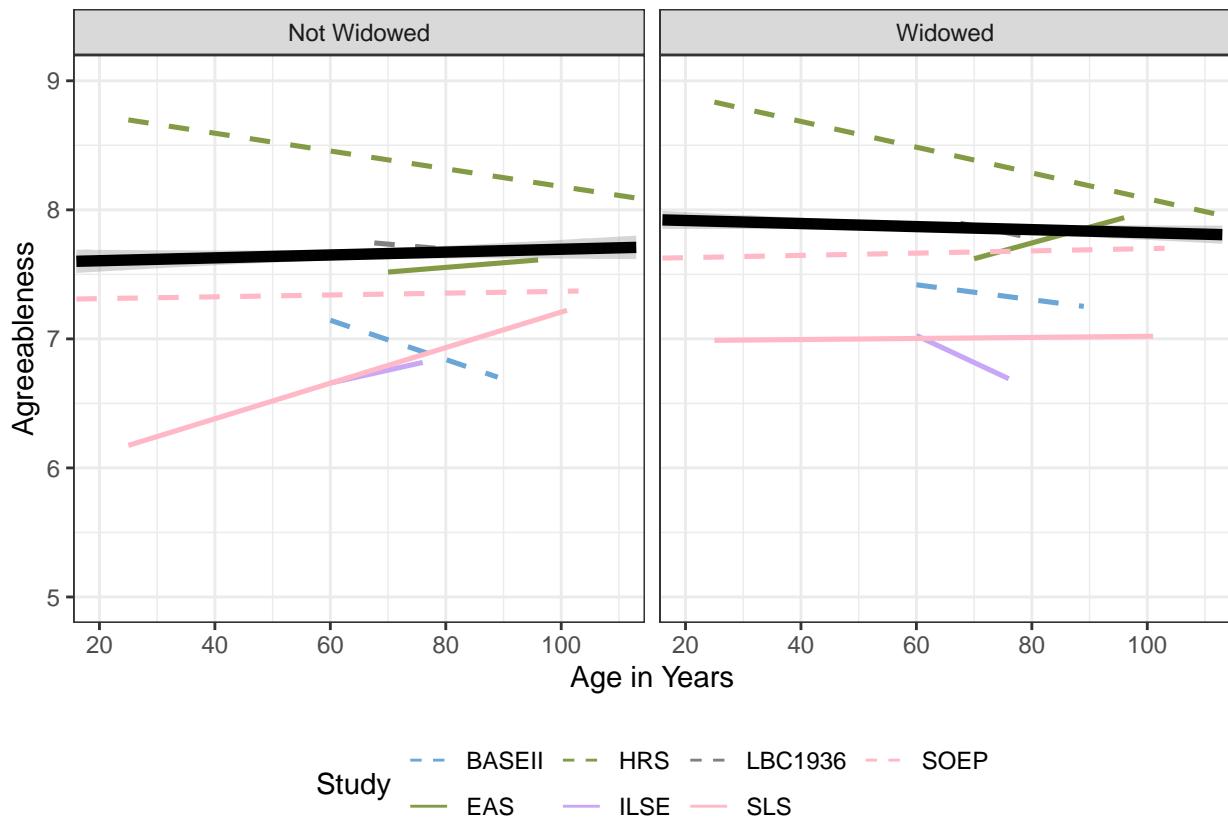


Figure S125: Widow, Plot, Agreeableness. Linear Trajectories of Agreeableness, moderated by widowhood. Black line indicates average trajectory weighted by N. At the individual study level, few showed evidence that being widowed was associated with greater declines in agreeableness, and the meta-analytic average was not significant ($p = .15$)

Widow, Plot, unweighted, Agreeableness

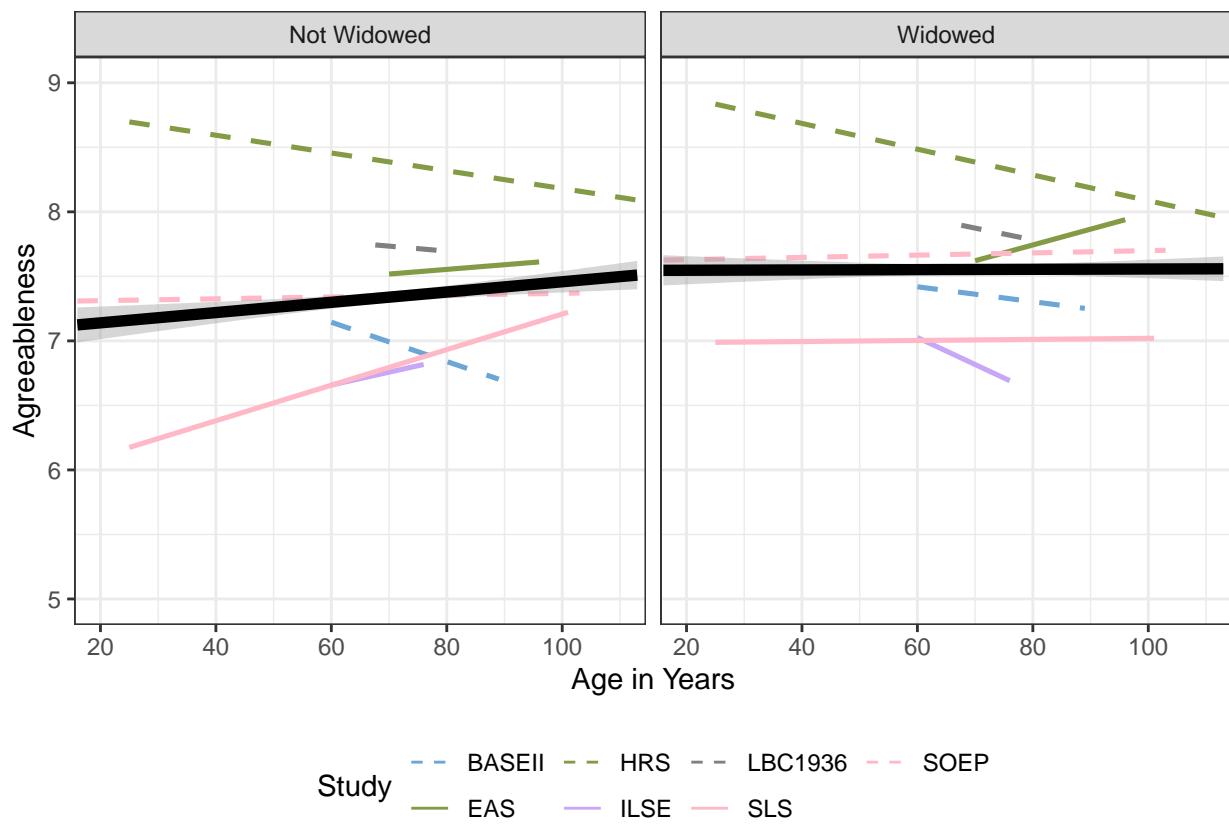


Figure S126: Widow, Plot, unweighted, Agreeableness

Widow, Meta Analysis, Agreeableness

```
##  
## Random-Effects Model (k = 7; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##    4.4108   -8.8216   -4.8216   -5.2381   -0.8216  
##  
## tau^2 (estimated amount of total heterogeneity): 0.0028 (SE = 0.0035)  
## tau (square root of estimated tau^2 value):       0.0530  
## I^2 (total heterogeneity / total variability): 60.81%  
## H^2 (total variability / sampling variability): 2.55  
##  
## Test for Heterogeneity:  
## Q(df = 6) = 13.4900, p-val = 0.0359  
##  
## Model Results:  
##  
## estimate      se     zval    pval    ci.lb    ci.ub  
## -0.0446  0.0310  -1.4400  0.1499  -0.1054  0.0161  
##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 7; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##    2.8688   -5.7377   0.2623   -0.9093  24.2623  
##  
## tau^2 (estimated amount of residual heterogeneity): 0.0073 (SE = 0.0085)  
## tau (square root of estimated tau^2 value):       0.0852  
## I^2 (residual heterogeneity / unaccounted variability): 60.42%  
## H^2 (unaccounted variability / sampling variability): 2.53  
## R^2 (amount of heterogeneity accounted for): 0.00%  
##  
## Test for Residual Heterogeneity:  
## QE(df = 5) = 11.5518, p-val = 0.0415  
##  
## Test of Moderators (coefficient 2):  
## QM(df = 1) = 0.0126, p-val = 0.9106  
##  
## Model Results:  
##  
##          estimate      se     zval    pval    ci.lb    ci.ub  
## intrcpt  -0.0825  0.2857  -0.2887  0.7728  -0.6425  0.4775  
## age       0.0005  0.0045   0.1123  0.9106  -0.0083  0.0093  
##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 7; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc
```

```

##    1.8220   -3.6440    4.3560    1.9012   44.3560
##
## tau^2 (estimated amount of residual heterogeneity):      0.0114 (SE = 0.0127)
## tau (square root of estimated tau^2 value):             0.1068
## I^2 (residual heterogeneity / unaccounted variability): 71.70%
## H^2 (unaccounted variability / sampling variability):   3.53
## R^2 (amount of heterogeneity accounted for):           0.00%
##
## Test for Residual Heterogeneity:
## QE(df = 4) = 11.4692, p-val = 0.0218
##
## Test of Moderators (coefficients 2:3):
## QM(df = 2) = 0.0304, p-val = 0.9849
##
## Model Results:
##
##          estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt     -0.0626  0.0806  -0.7759  0.4378  -0.2206  0.0955
## countryU.S.    0.0189  0.1082   0.1744  0.8616  -0.1932  0.2310
## countryUK      0.0097  0.1605   0.0605  0.9518  -0.3049  0.3243
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Mixed-Effects Model (k = 7; tau^2 estimator: REML)
##
##          logLik  deviance      AIC      BIC      AICc
##          2.0048   -4.0097   7.9903   0.1492  91.9903
##
## tau^2 (estimated amount of residual heterogeneity):      0 (SE = 0.0115)
## tau (square root of estimated tau^2 value):             0
## I^2 (residual heterogeneity / unaccounted variability): 0.00%
## H^2 (unaccounted variability / sampling variability):   1.00
## R^2 (amount of heterogeneity accounted for):           100.00%
##
## Test for Residual Heterogeneity:
## QE(df = 2) = 1.2370, p-val = 0.5387
##
## Test of Moderators (coefficients 2:5):
## QM(df = 4) = 12.2530, p-val = 0.0156
##
## Model Results:
##
##          estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt      0.0028  0.0176   0.1610  0.8721  -0.0316  0.0373
## scaleIPIP     -0.0057  0.0732  -0.0776  0.9382  -0.1490  0.1377
## scaleMIDI     -0.0338  0.0287  -1.1761  0.2395  -0.0901  0.0225
## scaleNEO-FFI    -0.3117  0.1173  -2.6569  0.0079  -0.5416  -0.0817  **
## scaleNEO-PI-R    -0.1365  0.0590  -2.3136  0.0207  -0.2522  -0.0209   *
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##

```

```

## Mixed-Effects Model (k = 7; tau^2 estimator: REML)
##
##   logLik  deviance      AIC      BIC      AICc
##  3.8728   -7.7456   -1.7456   -2.9173   22.2544
##
## tau^2 (estimated amount of residual heterogeneity):     0.0036 (SE = 0.0043)
## tau (square root of estimated tau^2 value):            0.0600
## I^2 (residual heterogeneity / unaccounted variability): 68.46%
## H^2 (unaccounted variability / sampling variability):  3.17
## R^2 (amount of heterogeneity accounted for):          0.00%
##
## Test for Residual Heterogeneity:
## QE(df = 5) = 12.0140, p-val = 0.0346
##
## Test of Moderators (coefficient 2):
## QM(df = 1) = 1.2529, p-val = 0.2630
##
## Model Results:
##
##           estimate      se    zval    pval    ci.lb    ci.ub
## intrcpt   -0.1010  0.0591  -1.7097  0.0873  -0.2167  0.0148  .
## mo        0.0123  0.0110   1.1193  0.2630  -0.0092  0.0338
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

```

Health, Table, Agreeableness

Table S75: Linear Trajectories of Agreeableness, Moderated by Health Conditions

coef	BASEII	EAS	HRS	ILSE	LBC1936	MIDUS	SLS	SOEP	WLSG	WLSS
Fixed Effects										
Intercept	7.10	7.25	8.45	6.81	7.82	8.21	6.77	7.40	7.64	7.51
Age	0.07 p < .001	0.22 p < .001	0.02 p < .001	0.07 p < .001	0.07 p < .001	0.02 p < .001	0.03 p < .001	0.01 p < .001	0.01 p < .001	0.02 p < .001
health	0.00 0.07 p = 0.499	0.19 0.1 p = 0.028	-0.03 0.01 p = 0.004	0.07 0.06 p = 0.131	-0.05 0.04 p = 0.125	-0.01 0.01 p = 0.201	0.17 0.02 p < .001	0.03 0 p < .001	0.03 0.01 p < .001	0.08 0.01 p < .001
Age x health	0.08 0.1 p = 0.196	0.26 0.26 p = 0.16	0.02 0.02 p = 0.154	-0.18 0.1 p = 0.029	-0.04 0.1 p = 0.338	0.11 0.03 p < .001	-0.22 0.06 p < .001	-0.02 0.01 p = 0.032	-0.09 0.02 p < .001	-0.06 0.03 p < .001
health	-0.20 0.09 p = 0.011	-0.14 0.12 p = 0.121	-0.05 0.01 p < .001	-0.01 0.08 p = 0.444	0.01 0.06 p = 0.433	-0.02 0.01 p = 0.103	-0.04 0.03 p = 0.061	0.02 0.01 p = 0.002	0.01 0.02 p = 0.232	-0.04 0.02 p = 0.019
Random Effects										
τ_{00}	0.66	1.52	0.62	0.67	0.85	0.63	0.76	0.51	0.62	0.58
τ_{01}	-0.04	-0.47	0.00	-0.06	-0.08	-0.01	-0.02	0.01	-0.03	-0.03
τ_{11}	0.03	0.23	0.03	0.07	0.07	0.00	0.01	0.00	0.08	0.03
σ^2	0.36	0.33	0.40	0.32	0.27	0.38	0.19	0.49	0.30	0.32
N_{people}	1,276	713	16,052	488	1,031	6,408	1,535	33,618	6,836	3,819
N_{obs}	3,818	1,667	34,913	1,223	3,013	12,992	4,000	74,056	16,582	8,426
LL	-4558	-2010	-45414	-1492	-3444	-16701	-4170	-97051	-20423	-10339

^a LL = Log Likelihood; Age = age (centered at 60)

Health, Plot, Agreeableness

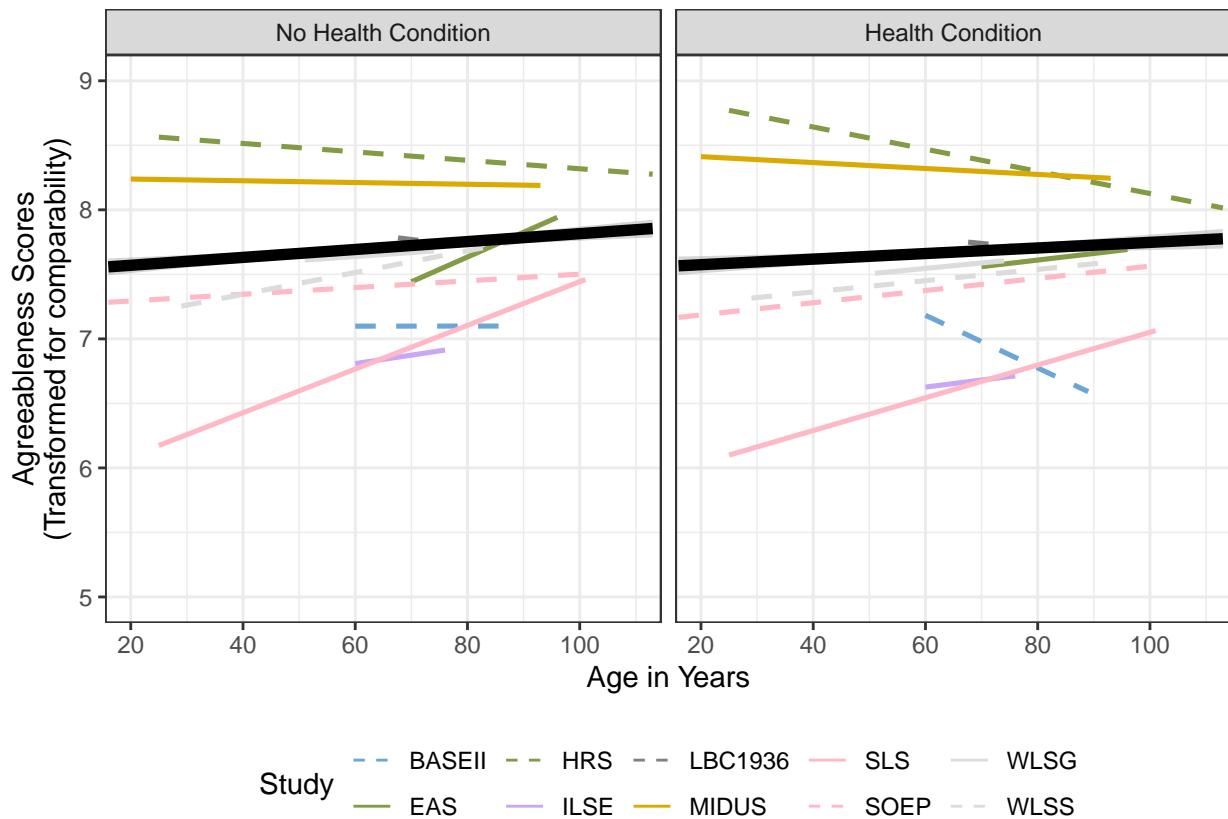


Figure S127: Health, Plot, Agreeableness. Linear Trajectories of Agreeableness, Moderated by Health Conditions. Black line indicates average trajectory weighted by N. At the individual study level, none showed evidence that having a health condition was associated with changes in agreeableness, and the meta-analytic average was not significant ($p = .108$).

Health, Plot, unweighted, Agreeableness

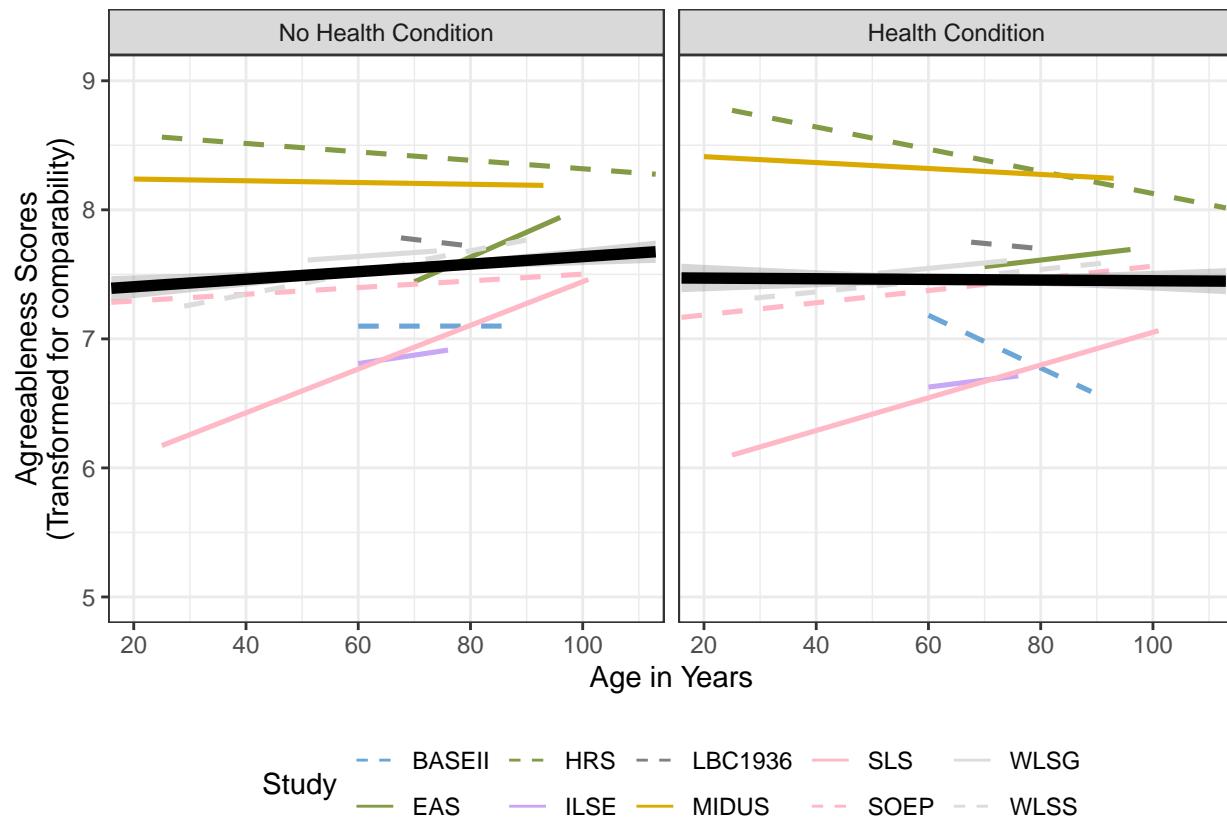


Figure S128: Health, Plot, unweighted, Agreeableness

Health, Meta Analysis, Agreeableness

```
##  
## Random-Effects Model (k = 10; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##  13.7294 -27.4589 -23.4589 -23.0644 -21.4589  
##  
## tau^2 (estimated amount of total heterogeneity): 0.0008 (SE = 0.0007)  
## tau (square root of estimated tau^2 value):       0.0288  
## I^2 (total heterogeneity / total variability):   70.96%  
## H^2 (total variability / sampling variability):  3.44  
##  
## Test for Heterogeneity:  
## Q(df = 9) = 36.8733, p-val < .0001  
##  
## Model Results:  
##  
## estimate      se     zval    pval    ci.lb    ci.ub  
## -0.0207  0.0129 -1.6056  0.1084 -0.0460  0.0046  
##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 10; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##  13.7283 -27.4566 -21.4566 -21.2183 -15.4566  
##  
## tau^2 (estimated amount of residual heterogeneity):      0.0003 (SE = 0.0004)  
## tau (square root of estimated tau^2 value):            0.0187  
## I^2 (residual heterogeneity / unaccounted variability): 46.66%  
## H^2 (unaccounted variability / sampling variability):  1.87  
## R^2 (amount of heterogeneity accounted for):          57.97%  
##  
## Test for Residual Heterogeneity:  
## QE(df = 8) = 15.9299, p-val = 0.0434  
##  
## Test of Moderators (coefficient 2):  
## QM(df = 1) = 6.1556, p-val = 0.0131  
##  
## Model Results:  
##  
##           estimate      se     zval    pval    ci.lb    ci.ub  
## intrcpt    0.1373  0.0629  2.1828  0.0290  0.0140  0.2605  *  
## age        -0.0028  0.0011 -2.4810  0.0131 -0.0050 -0.0006  *  
##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 10; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc
```

```

##   8.1584 -16.3168 -6.3168 -7.3580 53.6832
##
## tau^2 (estimated amount of residual heterogeneity): 0.0008 (SE = 0.0009)
## tau (square root of estimated tau^2 value): 0.0274
## I^2 (residual heterogeneity / unaccounted variability): 57.59%
## H^2 (unaccounted variability / sampling variability): 2.36
## R^2 (amount of heterogeneity accounted for): 9.59%
##
## Test for Residual Heterogeneity:
## QE(df = 6) = 15.3879, p-val = 0.0174
##
## Test of Moderators (coefficients 2:4):
## QM(df = 3) = 1.9314, p-val = 0.5868
##
## Model Results:
##
##          estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt      -0.0128  0.0231 -0.5547  0.5791 -0.0581  0.0325
## countryGermany 0.0135  0.0346  0.3910  0.6958 -0.0544  0.0815
## countryU.S.    -0.0258  0.0297 -0.8663  0.3863 -0.0841  0.0325
## countryUK       0.0230  0.0707  0.3258  0.7446 -0.1155  0.1615
##
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Mixed-Effects Model (k = 10; tau^2 estimator: REML)
##
##          logLik  deviance      AIC      BIC      AICc
##        4.1341 -8.2681  5.7319  1.4359 117.7319
##
## tau^2 (estimated amount of residual heterogeneity): 0.0025 (SE = 0.0026)
## tau (square root of estimated tau^2 value): 0.0497
## I^2 (residual heterogeneity / unaccounted variability): 84.38%
## H^2 (unaccounted variability / sampling variability): 6.40
## R^2 (amount of heterogeneity accounted for): 0.00%
##
## Test for Residual Heterogeneity:
## QE(df = 4) = 15.5755, p-val = 0.0036
##
## Test of Moderators (coefficients 2:6):
## QM(df = 5) = 0.2790, p-val = 0.9980
##
## Model Results:
##
##          estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt      -0.0138  0.0373 -0.3692  0.7120 -0.0870  0.0594
## scaleBFI-S    -0.0092  0.0585 -0.1580  0.8744 -0.1239  0.1054
## scaleIPIP     -0.0164  0.0770 -0.2126  0.8317 -0.1672  0.1345
## scaleMIDI     -0.0208  0.0522 -0.3980  0.6906 -0.1231  0.0815
## scaleNEO-FFI    0.0027  0.1004  0.0265  0.9788 -0.1940  0.1994
## scaleNEO-PI-R   -0.0286  0.0680 -0.4209  0.6738 -0.1618  0.1046
##
## ---

```

```

## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Mixed-Effects Model (k = 10; tau^2 estimator: REML)
##
##   logLik  deviance      AIC      BIC      AICc
##  12.7580 -25.5160 -19.5160 -19.2777 -13.5160
##
## tau^2 (estimated amount of residual heterogeneity): 0.0009 (SE = 0.0008)
## tau (square root of estimated tau^2 value):        0.0308
## I^2 (residual heterogeneity / unaccounted variability): 72.14%
## H^2 (unaccounted variability / sampling variability): 3.59
## R^2 (amount of heterogeneity accounted for):       0.00%
##
## Test for Residual Heterogeneity:
## QE(df = 8) = 33.8447, p-val < .0001
##
## Test of Moderators (coefficient 2):
## QM(df = 1) = 0.6242, p-val = 0.4295
##
## Model Results:
##
##           estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt  0.0045  0.0354  0.1280  0.8982 -0.0649  0.0740
## mo       -0.0074  0.0093 -0.7900  0.4295 -0.0257  0.0109
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

```

Heart, Table, Agreeableness

Table S76: Linear Trajectories of Agreeableness, Moderated by Heart Conditions

coef	BASEII	HRS	ILSE	LBC1936	MIDUS	SLS	SOEP	WLSG	WLSS
Fixed Effects									
Intercept	7.14	8.46	6.72	7.82	8.25	6.71	7.39	7.62	7.50
	0.05	0.01	0.05	0.06	0.01	0.03	0.01	0.01	0.01
	p < .001								
Age	-0.10	-0.06	0.06	-0.05	-0.01	0.16	0.03	0.03	0.07
	0.05	0.01	0.04	0.03	0.01	0.02	0	0.01	0.01
	p = 0.019	p < .001	p = 0.052	p = 0.078	p = 0.194	p < .001	p < .001	p < .001	p < .001
heart	0.13	-0.02	-0.23	-0.09	0.05	-0.14	-0.05	-0.10	-0.12
	0.17	0.03	0.23	0.11	0.04	0.08	0.02	0.05	0.05
	p = 0.221	p = 0.265	p = 0.161	p = 0.222	p = 0.097	p = 0.045	p = 0.021	p = 0.021	p = 0.012
Age x heart	-0.17	-0.03	-0.30	0.01	-0.02	-0.07	0.05	0.00	0.00
	0.14	0.02	0.27	0.07	0.02	0.04	0.01	0.03	0.04
	p = 0.112	p = 0.047	p = 0.134	p = 0.423	p = 0.131	p = 0.039	p < .001	p = 0.465	p = 0.469
Random Effects									
τ_{00}	0.66	0.62	0.68	0.85	0.63	0.76	0.51	0.62	0.58
τ_{01}	-0.05	0.00	-0.07	-0.09	-0.01	-0.02	0.01	-0.03	-0.03
τ_{11}	0.05	0.03	0.08	0.07	0.00	0.02	0.00	0.08	0.03
σ^2	0.36	0.40	0.32	0.27	0.38	0.19	0.49	0.30	0.32
N_{people}	1,276	16,036	488	1,031	6,390	1,271	33,618	6,836	3,790
N_{obs}	3,818	34,881	1,223	3,013	12,956	3,185	74,056	16,582	8,372
LL	-4562	-45378	-1492	-3444	-16656	-3324	-97051	-20428	-10280

^a LL = Log Likelihood; Age = age (centered at 60)

Heart, Plot, Agreeableness

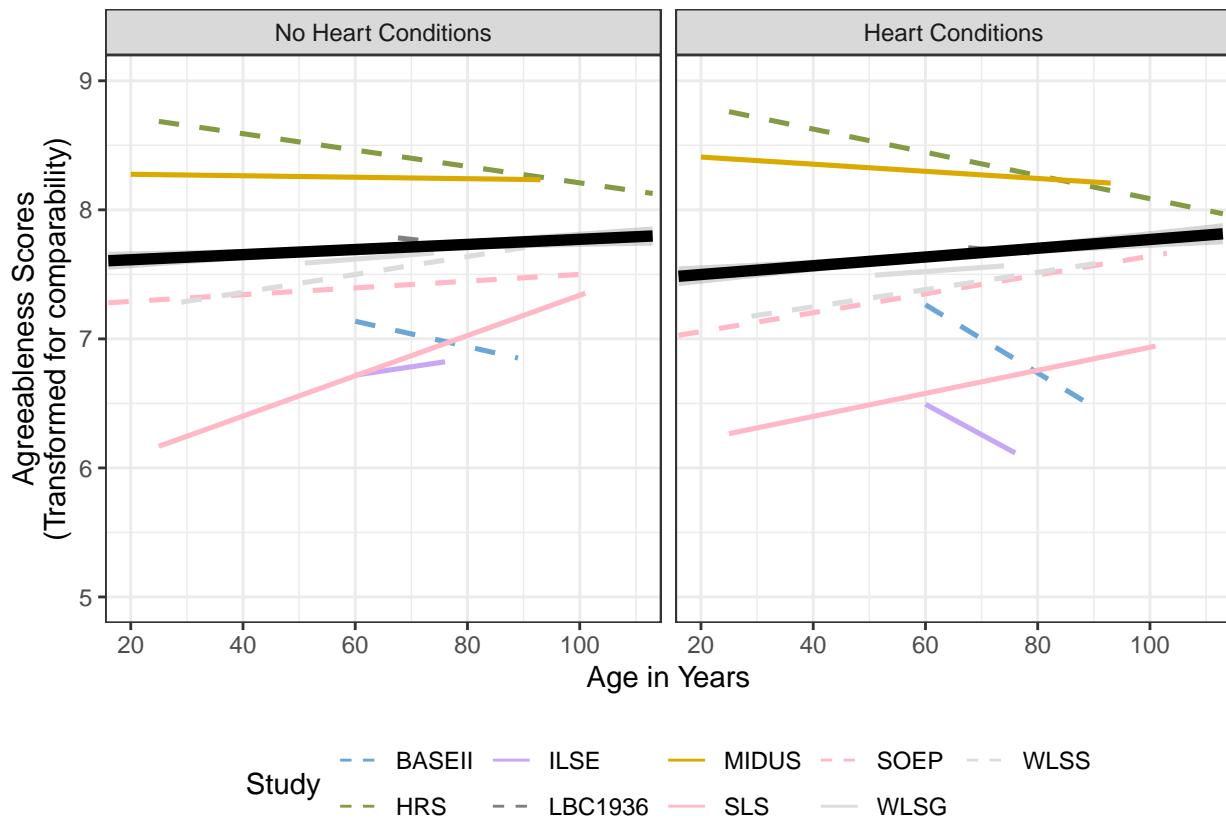


Figure S129: Heart, Plot, Agreeableness. Linear Trajectories of Agreeableness, moderated by heart conditions. Black line indicates average trajectory weighted by N. At the individual study level, few showed evidence that having having a heart condition was associated with greater declines in agreeableness, and the meta-analytic average was not significant ($p = .55$).

Heart, Plot, unweighted, Agreeableness

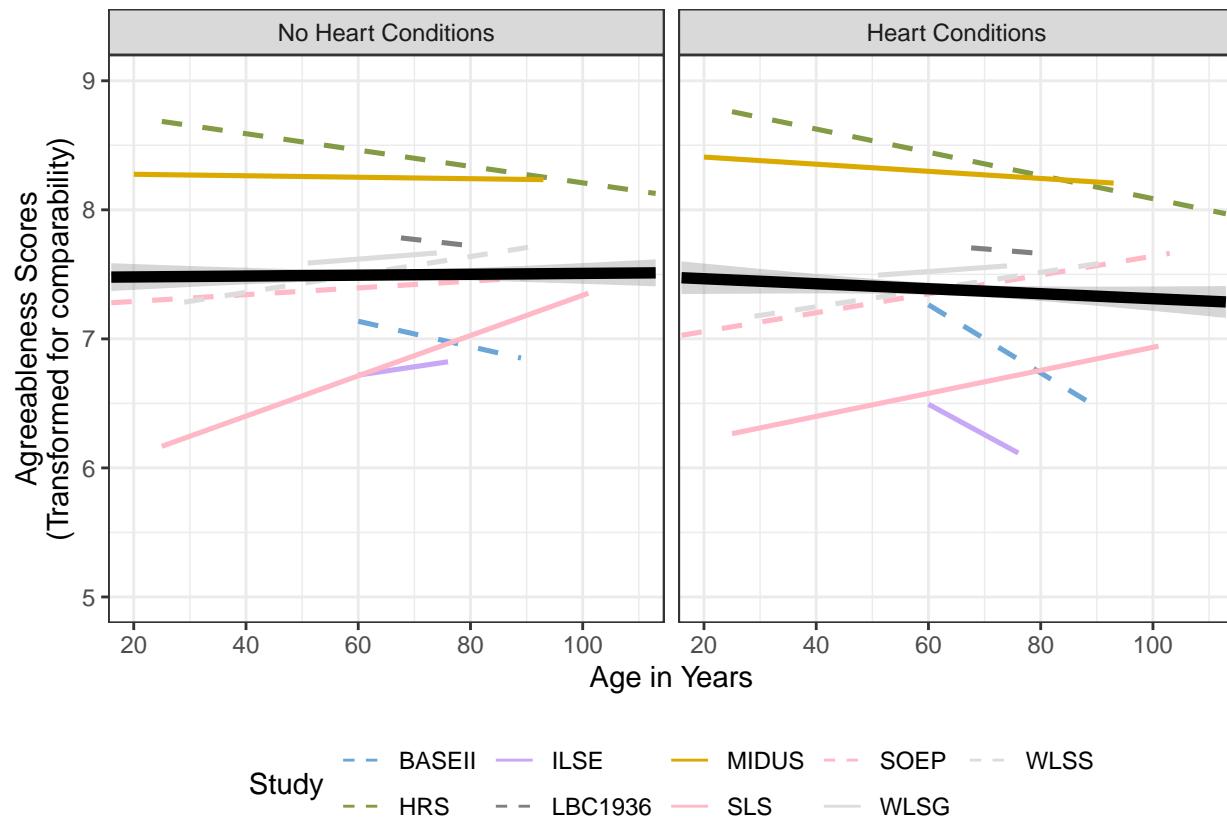


Figure S130: Heart, Plot, unweighted, Agreeableness

Heart, Meta Analysis, Agreeableness

```
##  
## Random-Effects Model (k = 9; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##  11.1195 -22.2390 -18.2390 -18.0801 -15.8390  
##  
## tau^2 (estimated amount of total heterogeneity): 0.0010 (SE = 0.0010)  
## tau (square root of estimated tau^2 value):       0.0311  
## I^2 (total heterogeneity / total variability):   57.49%  
## H^2 (total variability / sampling variability): 2.35  
##  
## Test for Heterogeneity:  
## Q(df = 8) = 22.1714, p-val = 0.0046  
##  
## Model Results:  
##  
## estimate      se     zval    pval    ci.lb    ci.ub  
## -0.0094  0.0158 -0.5948  0.5520 -0.0403  0.0215  
##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 9; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##  9.8928 -19.7856 -13.7856 -13.9479 -5.7856  
##  
## tau^2 (estimated amount of residual heterogeneity):      0.0008 (SE = 0.0010)  
## tau (square root of estimated tau^2 value):            0.0274  
## I^2 (residual heterogeneity / unaccounted variability): 43.72%  
## H^2 (unaccounted variability / sampling variability):  1.78  
## R^2 (amount of heterogeneity accounted for):          22.54%  
##  
## Test for Residual Heterogeneity:  
## QE(df = 7) = 13.3226, p-val = 0.0646  
##  
## Test of Moderators (coefficient 2):  
## QM(df = 1) = 2.1600, p-val = 0.1416  
##  
## Model Results:  
##  
##           estimate      se     zval    pval    ci.lb    ci.ub  
## intrcpt    0.1245  0.0915  1.3602  0.1738 -0.0549  0.3038  
## age        -0.0024  0.0016 -1.4697  0.1416 -0.0056  0.0008  
##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 9; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc
```

```

##    7.4998 -14.9995 -4.9995 -6.9523 55.0005
##
## tau^2 (estimated amount of residual heterogeneity):      0 (SE = 0.0004)
## tau (square root of estimated tau^2 value):             0
## I^2 (residual heterogeneity / unaccounted variability): 0.00%
## H^2 (unaccounted variability / sampling variability):   1.00
## R^2 (amount of heterogeneity accounted for):           100.00%
##
## Test for Residual Heterogeneity:
## QE(df = 5) = 5.1621, p-val = 0.3964
##
## Test of Moderators (coefficients 2:4):
## QM(df = 3) = 17.0093, p-val = 0.0007
##
## Model Results:
##
##          estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt     -0.0028  0.0239  -0.1175  0.9065  -0.0496  0.0440
## countryGermany  0.0468  0.0273   1.7147  0.0864  -0.0067  0.1003 .
## countryU.S.    -0.0259  0.0266  -0.9732  0.3305  -0.0780  0.0262
## countryUK       0.0168  0.0763   0.2202  0.8257  -0.1327  0.1663
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Mixed-Effects Model (k = 9; tau^2 estimator: REML)
##
##          logLik  deviance      AIC      BIC     AICc
##        5.7700 -11.5400    2.4600 -3.8498  114.4600
##
## tau^2 (estimated amount of residual heterogeneity):      0.0000 (SE = 0.0004)
## tau (square root of estimated tau^2 value):             0.0015
## I^2 (residual heterogeneity / unaccounted variability): 0.31%
## H^2 (unaccounted variability / sampling variability):   1.00
## R^2 (amount of heterogeneity accounted for):           99.77%
##
## Test for Residual Heterogeneity:
## QE(df = 3) = 2.4314, p-val = 0.4878
##
## Test of Moderators (coefficients 2:6):
## QM(df = 5) = 19.5570, p-val = 0.0015
##
## Model Results:
##
##          estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt     -0.0028  0.0239  -0.1174  0.9065  -0.0497  0.0440
## scaleBFI-S      0.0476  0.0274   1.7394  0.0820  -0.0060  0.1013 .
## scaleIPIP       0.0168  0.0763   0.2202  0.8257  -0.1327  0.1663
## scaleMIDI      -0.0219  0.0269  -0.8127  0.4164  -0.0746  0.0309
## scaleNEO-FFI    -0.2979  0.2729  -1.0917  0.2750  -0.8327  0.2369
## scaleNEO-PI-R    -0.0640  0.0449  -1.4276  0.1534  -0.1520  0.0239
##
## ---

```

```

## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Mixed-Effects Model (k = 9; tau^2 estimator: REML)
##
##   logLik  deviance      AIC      BIC      AICc
##   9.2577 -18.5154 -12.5154 -12.6776 -4.5154
##
## tau^2 (estimated amount of residual heterogeneity): 0.0008 (SE = 0.0010)
## tau (square root of estimated tau^2 value):        0.0286
## I^2 (residual heterogeneity / unaccounted variability): 45.39%
## H^2 (unaccounted variability / sampling variability): 1.83
## R^2 (amount of heterogeneity accounted for):       15.86%
##
## Test for Residual Heterogeneity:
## QE(df = 7) = 11.9462, p-val = 0.1023
##
## Test of Moderators (coefficient 2):
## QM(df = 1) = 0.6339, p-val = 0.4259
##
## Model Results:
##
##           estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt  -0.0917  0.1053 -0.8702  0.3842 -0.2981  0.1148
## mo        0.0246  0.0309  0.7962  0.4259 -0.0360  0.0852
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

```

Lung, Table, Agreeableness

Table S77: Linear Trajectories of Agreeableness, Moderated by Lung Conditions

coef	BASEII	EAS	HRS	ILSE	MIDUS
Fixed Effects					
Intercept	7.14	7.43	8.46	6.71	8.24
	0.05	0.12	0.01	0.06	0.01
	p < .001				
Age	-0.10	0.10	-0.07	0.05	0.00
	0.05	0.06	0.01	0.05	0.01
	p = 0.016	p = 0.036	p < .001	p = 0.15	p = 0.253
lung	0.23	0.12	0.03	-0.09	0.08
	0.21	0.48	0.04	0.11	0.04
	p = 0.139	p = 0.399	p = 0.199	p = 0.222	p = 0.01
Age x lung	-0.42	-0.12	-0.06	0.07	-0.02
	0.19	0.23	0.02	0.09	0.02
	p = 0.015	p = 0.297	p = 0.004	p = 0.212	p = 0.149
Random Effects					
τ_{00}	0.67	1.52	0.62	0.61	0.63
τ_{01}	-0.06	-0.48	0.00	-0.01	-0.01
τ_{11}	0.05	0.24	0.03	0.05	0.00
σ^2	0.36	0.33	0.40	0.32	0.37
N_{people}	1,276	702	16,036	404	6,218
N_{obs}	3,818	1,632	34,883	1,006	12,713
LL	-4559	-1968	-45378	-1215	-16303

^a LL = Log Likelihood; Age = age (centered at 60)

Lung, Plot, Agreeableness

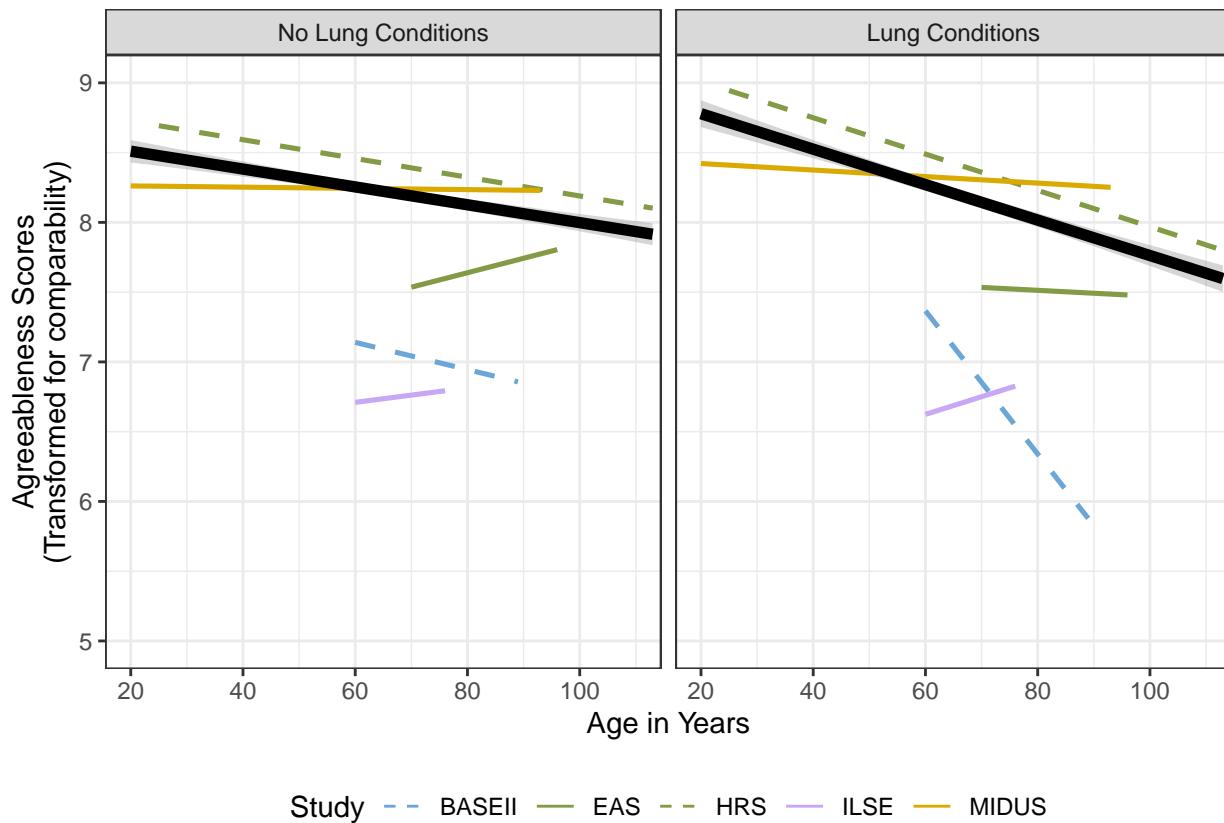


Figure S131: Lung, Plot, Agreeableness. Linear Trajectories of Agreeableness, moderated by lung conditions. Black line indicates average trajectory weighted by N. At the individual study level, few showed evidence that having a lung condition was associated with greater declines in agreeableness, and the meta-analytic average was not significant ($p = .07$)

Lung, Plot, unweighted, Agreeableness

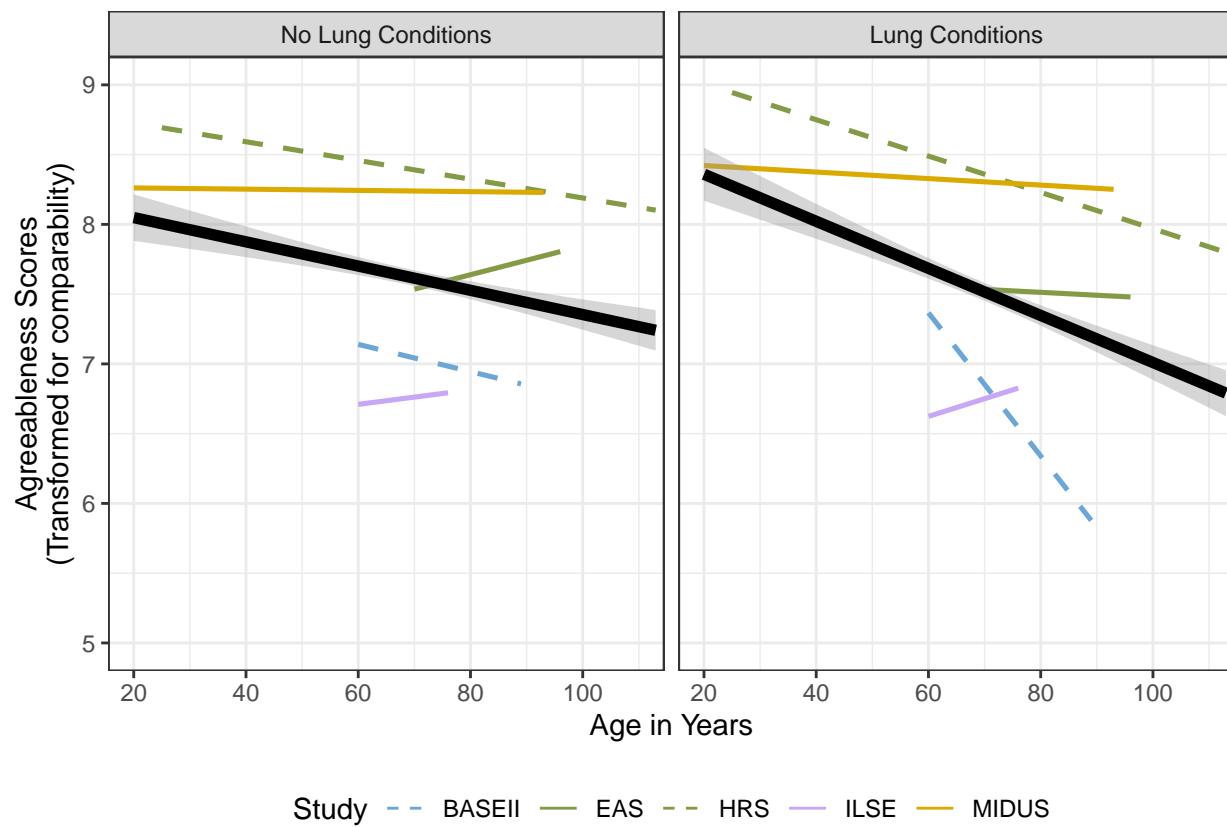


Figure S132: Lung, Plot, unweighted, Agreeableness

Lung, Meta Analysis, Agreeableness

```
##  
## Random-Effects Model (k = 5; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##    2.5000   -5.0000   -1.0000   -2.2275   11.0000  
##  
## tau^2 (estimated amount of total heterogeneity): 0.0006 (SE = 0.0014)  
## tau (square root of estimated tau^2 value):       0.0236  
## I^2 (total heterogeneity / total variability): 25.84%  
## H^2 (total variability / sampling variability): 1.35  
##  
## Test for Heterogeneity:  
## Q(df = 4) = 7.6237, p-val = 0.1064  
##  
## Model Results:  
##  
## estimate      se     zval    pval    ci.lb    ci.ub  
## -0.0382  0.0214  -1.7826  0.0746  -0.0802  0.0038 .  
##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 5; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##    0.9490   -1.8981    4.1019    1.3978   28.1019  
##  
## tau^2 (estimated amount of residual heterogeneity):      0.0044 (SE = 0.0120)  
## tau (square root of estimated tau^2 value):            0.0663  
## I^2 (residual heterogeneity / unaccounted variability): 29.22%  
## H^2 (unaccounted variability / sampling variability):  1.41  
## R^2 (amount of heterogeneity accounted for):          0.00%  
##  
## Test for Residual Heterogeneity:  
## QE(df = 3) = 5.2202, p-val = 0.1564  
##  
## Test of Moderators (coefficient 2):  
## QM(df = 1) = 0.5112, p-val = 0.4746  
##  
## Model Results:  
##  
##           estimate      se     zval    pval    ci.lb    ci.ub  
## intrcpt    0.1318  0.2491   0.5290  0.5968  -0.3565  0.6201  
## age        -0.0030  0.0041  -0.7150  0.4746  -0.0111  0.0052  
##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 5; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc
```

```

##    1.1143   -2.2285    3.7715    1.0673   27.7715
##
## tau^2 (estimated amount of residual heterogeneity):      0.0008 (SE = 0.0017)
## tau (square root of estimated tau^2 value):             0.0274
## I^2 (residual heterogeneity / unaccounted variability): 36.80%
## H^2 (unaccounted variability / sampling variability):   1.58
## R^2 (amount of heterogeneity accounted for):            0.00%
##
## Test for Residual Heterogeneity:
## QE(df = 3) = 7.5824, p-val = 0.0555
##
## Test of Moderators (coefficient 2):
## QM(df = 1) = 0.0336, p-val = 0.8545
##
## Model Results:
##
##           estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt      -0.0233  0.0869  -0.2681  0.7886  -0.1936  0.1470
## countryU.S.   -0.0165  0.0902  -0.1833  0.8545  -0.1933  0.1602
## 
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Mixed-Effects Model (k = 5; tau^2 estimator: REML)
##
## logLik  deviance      AIC      BIC      AICC
## 2.0496  -4.0991    5.9009  -4.0991   65.9009
##
## tau^2 (estimated amount of residual heterogeneity):      0.0005 (SE = 0.0014)
## tau (square root of estimated tau^2 value):             0.0230
## I^2 (residual heterogeneity / unaccounted variability): 54.36%
## H^2 (unaccounted variability / sampling variability):   2.19
## R^2 (amount of heterogeneity accounted for):            5.43%
##
## Test for Residual Heterogeneity:
## QE(df = 1) = 2.1911, p-val = 0.1388
##
## Test of Moderators (coefficients 2:4):
## QM(df = 3) = 5.2992, p-val = 0.1512
##
## Model Results:
##
##           estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt      -0.4153  0.1939  -2.1423  0.0322  -0.7952  -0.0354 *
## scaleIPIP      0.2907  0.3044   0.9552  0.3395  -0.3058   0.8873
## scaleMIDI      0.3768  0.1951   1.9317  0.0534  -0.0055   0.7592 .
## scaleNEO-FFI    0.4898  0.2163   2.2645  0.0235   0.0659   0.9138 *
## 
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Mixed-Effects Model (k = 5; tau^2 estimator: REML)
##

```

```

##   logLik deviance      AIC      BIC      AICc
## 1.9933 -3.9865  2.0135 -0.6907 26.0135
##
## tau^2 (estimated amount of residual heterogeneity): 0.0006 (SE = 0.0014)
## tau (square root of estimated tau^2 value): 0.0239
## I^2 (residual heterogeneity / unaccounted variability): 31.93%
## H^2 (unaccounted variability / sampling variability): 1.47
## R^2 (amount of heterogeneity accounted for): 0.00%
##
## Test for Residual Heterogeneity:
## QE(df = 3) = 7.3040, p-val = 0.0628
##
## Test of Moderators (coefficient 2):
## QM(df = 1) = 0.3015, p-val = 0.5830
##
## Model Results:
##
##           estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt -0.0073  0.0604 -0.1203  0.9043 -0.1257  0.1111
## mo       -0.0099  0.0181 -0.5491  0.5830 -0.0454  0.0255
## 
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

```

Cancer, Table, Agreeableness

Table S78: Linear Trajectories of Agreeableness, Moderated by Cancer

coef	BASEII	EAS	HRS	LBC1936	MIDUS	WLSS
Fixed Effects						
Intercept	7.16	7.45	8.45	7.77	8.25	7.49
	0.05	0.13	0.01	0.05	0.01	0.01
	p < .001					
Age	-0.12	0.09	-0.07	-0.04	-0.01	0.07
	0.05	0.06	0.01	0.03	0.01	0.01
	p = 0.005	p = 0.063	p < .001	p = 0.123	p = 0.15	p < .001
cancer	-0.08	-0.07	0.08	0.28	0.17	0.07
	0.16	0.31	0.03	0.16	0.05	0.06
	p = 0.303	p = 0.407	p = 0.009	p = 0.038	p < .001	p = 0.096
Age x cancer	0.00	0.02	-0.04	-0.08	-0.06	-0.06
	0.15	0.15	0.02	0.1	0.03	0.04
	p = 0.495	p = 0.438	p = 0.03	p = 0.214	p = 0.013	p = 0.052
Random Effects						
τ_{00}	0.67	1.56	0.61	0.84	0.63	0.58
τ_{01}	-0.06	-0.50	0.00	-0.08	-0.01	-0.03
τ_{11}	0.06	0.24	0.03	0.07	0.00	0.03
σ^2	0.36	0.33	0.40	0.27	0.38	0.32
N_{people}	1,276	702	16,021	1,031	6,403	3,784
N_{obs}	3,818	1,634	34,850	3,013	12,984	8,355
LL	-4562	-1969	-45333	-3442	-16696	-10261

^a LL = Log Likelihood; Age = age (centered at 60)

Cancer, Plot, Agreeableness

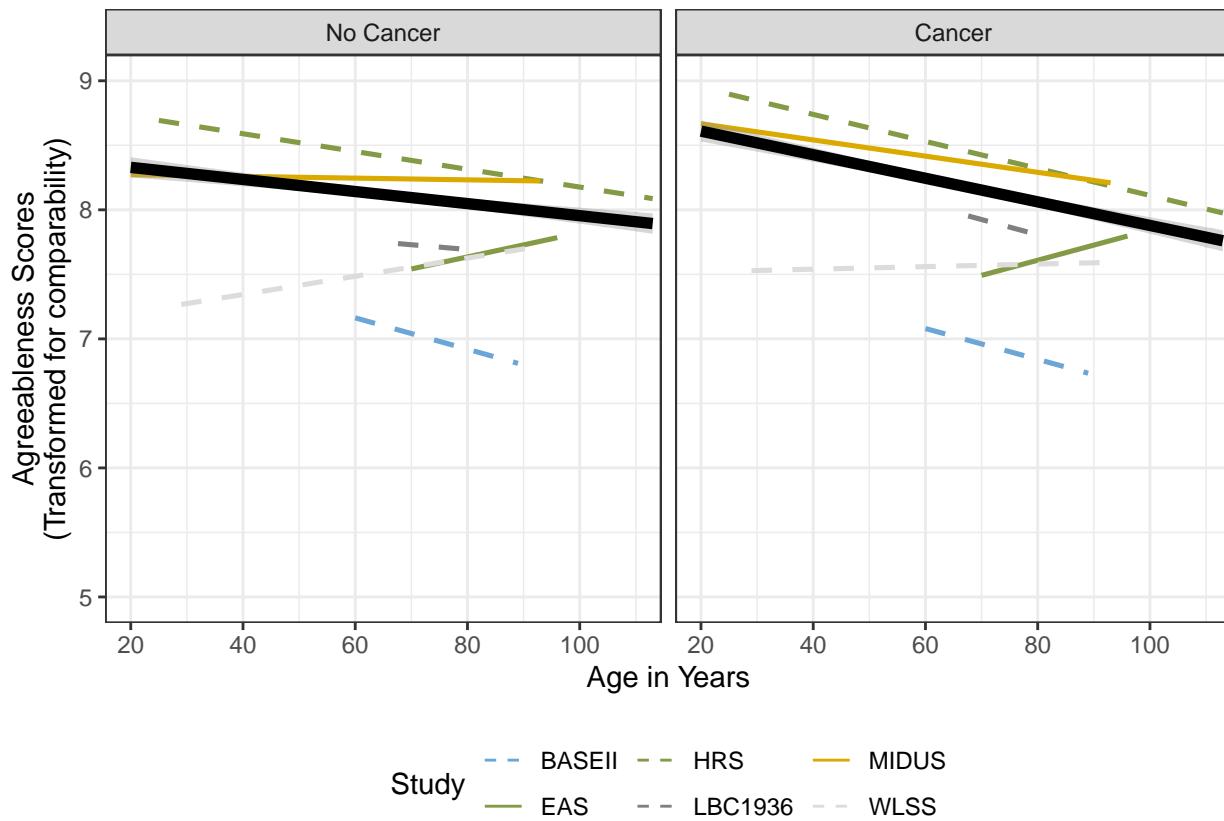


Figure S133: Cancer, Plot, Agreeableness. Linear Trajectories of Agreeableness, moderated by cancer. Black line indicates average trajectory weighted by N. At the individual study level, none appeared to show evidence that having cancer was associated with greater declines in agreeableness, and yet the meta-analytic average was significant ($p = .001$)

Cancer, Plot, unweighted, Agreeableness

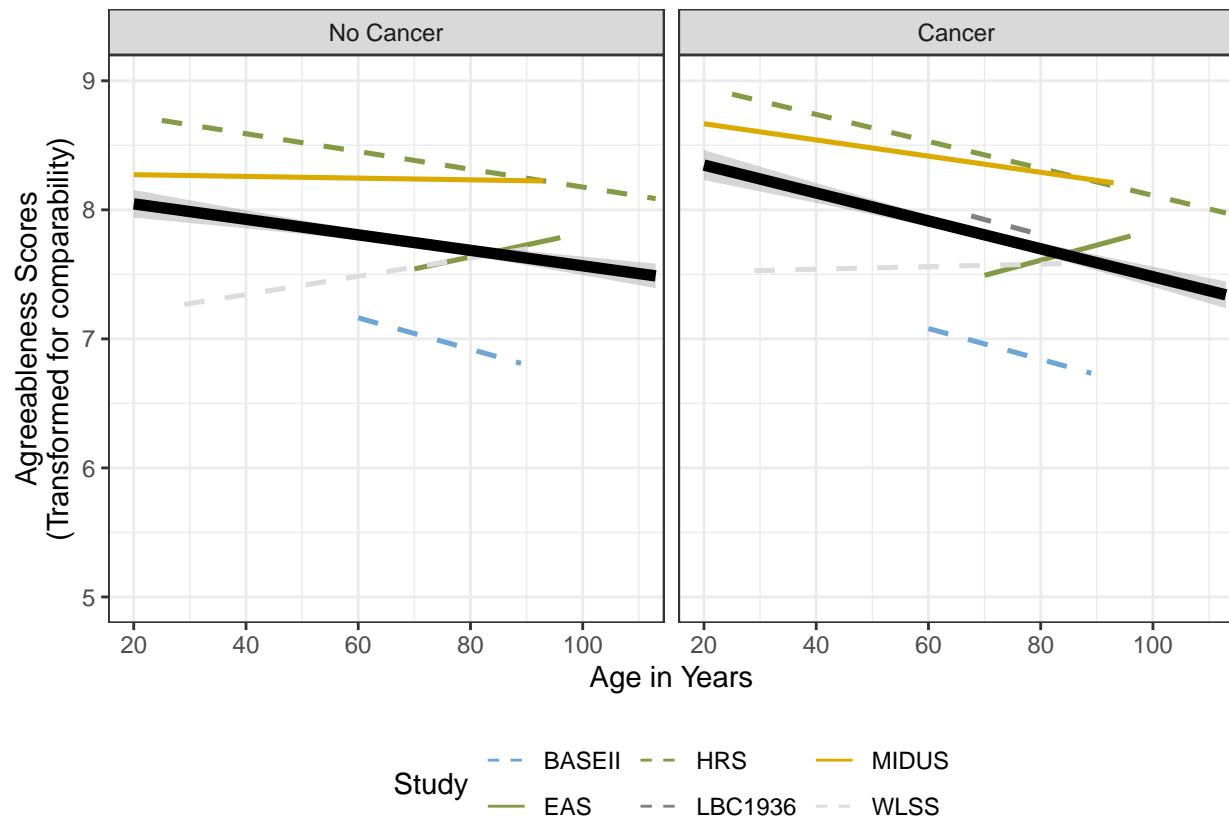


Figure S134: Cancer, Plot, unweighted, Agreeableness

Cancer, Meta Analysis, Agreeableness

```
##  
## Random-Effects Model (k = 6; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##    8.4825 -16.9651 -12.9651 -13.7462 -6.9651  
##  
## tau^2 (estimated amount of total heterogeneity): 0 (SE = 0.0006)  
## tau (square root of estimated tau^2 value): 0  
## I^2 (total heterogeneity / total variability): 0.00%  
## H^2 (total variability / sampling variability): 1.00  
##  
## Test for Heterogeneity:  
## Q(df = 5) = 1.0207, p-val = 0.9609  
##  
## Model Results:  
##  
## estimate      se     zval    pval    ci.lb    ci.ub  
## -0.0453  0.0138 -3.2781  0.0010 -0.0724 -0.0182 **  
##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 6; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##    6.3465 -12.6930 -6.6930 -8.5341 17.3070  
##  
## tau^2 (estimated amount of residual heterogeneity): 0 (SE = 0.0015)  
## tau (square root of estimated tau^2 value): 0  
## I^2 (residual heterogeneity / unaccounted variability): 0.00%  
## H^2 (unaccounted variability / sampling variability): 1.00  
## R^2 (amount of heterogeneity accounted for): 0.00%  
##  
## Test for Residual Heterogeneity:  
## QE(df = 4) = 0.4392, p-val = 0.9791  
##  
## Test of Moderators (coefficient 2):  
## QM(df = 1) = 0.5815, p-val = 0.4457  
##  
## Model Results:  
##  
##          estimate      se     zval    pval    ci.lb    ci.ub  
## intrcpt  -0.1081  0.0835 -1.2943  0.1956 -0.2719  0.0556  
## age       0.0010  0.0014  0.7626  0.4457 -0.0016  0.0037  
##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 6; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc
```

```

##    3.7304   -7.4609    2.5391   -3.9952   62.5391
##
## tau^2 (estimated amount of residual heterogeneity):      0 (SE = 0.0007)
## tau (square root of estimated tau^2 value):             0
## I^2 (residual heterogeneity / unaccounted variability): 0.00%
## H^2 (unaccounted variability / sampling variability):  1.00
## R^2 (amount of heterogeneity accounted for):          0.00%
##
## Test for Residual Heterogeneity:
## QE(df = 2) = 0.5983, p-val = 0.7414
##
## Test of Moderators (coefficients 2:4):
## QM(df = 3) = 0.4224, p-val = 0.9356
##
## Model Results:
##
##           estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt      -0.0607  0.0373  -1.6257  0.1040  -0.1338  0.0125
## countryGermany  0.0628  0.1560   0.4023  0.6874  -0.2429  0.3684
## countryU.S.    0.0182  0.0403   0.4521  0.6512  -0.0607  0.0971
## countryUK      -0.0198  0.1082  -0.1827  0.8550  -0.2318  0.1923
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Mixed-Effects Model (k = 6; tau^2 estimator: REML)
##
## logLik  deviance      AIC      BIC      AICc
## 3.6333  -7.2665  2.7335  -3.8008  62.7335
##
## tau^2 (estimated amount of residual heterogeneity):      0 (SE = 0.0007)
## tau (square root of estimated tau^2 value):             0
## I^2 (residual heterogeneity / unaccounted variability): 0.00%
## H^2 (unaccounted variability / sampling variability):  1.00
## R^2 (amount of heterogeneity accounted for):          0.00%
##
## Test for Residual Heterogeneity:
## QE(df = 2) = 0.7306, p-val = 0.6940
##
## Test of Moderators (coefficients 2:4):
## QM(df = 3) = 0.2901, p-val = 0.9619
##
## Model Results:
##
##           estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt      -0.0607  0.0373  -1.6257  0.1040  -0.1338  0.0125
## scaleBFI-S     0.0628  0.1560   0.4023  0.6874  -0.2429  0.3684
## scaleIPIP     0.0118  0.0927   0.1268  0.8991  -0.1699  0.1934
## scaleMIDI     0.0176  0.0403   0.4359  0.6629  -0.0614  0.0965
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##

```

```

## Mixed-Effects Model (k = 6; tau^2 estimator: REML)
##
##    logLik  deviance      AIC      BIC      AICc
##    7.5048 -15.0096 -9.0096 -10.8507 14.9904
##
##    tau^2 (estimated amount of residual heterogeneity):     0 (SE = 0.0006)
##    tau (square root of estimated tau^2 value):             0
##    I^2 (residual heterogeneity / unaccounted variability): 0.00%
##    H^2 (unaccounted variability / sampling variability):  1.00
##    R^2 (amount of heterogeneity accounted for):          0.00%
##
## Test for Residual Heterogeneity:
## QE(df = 4) = 0.8349, p-val = 0.9337
##
## Test of Moderators (coefficient 2):
## QM(df = 1) = 0.1858, p-val = 0.6665
##
## Model Results:
##
##           estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt   -0.0613  0.0395 -1.5491  0.1214 -0.1388  0.0163
## mo        0.0051  0.0118  0.4310  0.6665 -0.0181  0.0283
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

```

Diabetes, Table, Agreeableness

Table S79: Linear Trajectories of Agreeableness, Moderated by Diabetes

coef	BASEII	EAS	HRS	ILSE	LBC1936	MIDUS	SLS	WLSS
Fixed Effects								
Intercept	7.13	7.42	8.47	6.69	7.82	8.25	6.69	7.50
	0.05	0.13	0.01	0.05	0.05	0.01	0.03	0.01
	p < .001							
Age	-0.10	0.12	-0.06	0.08	-0.04	-0.01	0.14	0.07
	0.05	0.06	0.01	0.04	0.03	0.01	0.01	0.01
	p = 0.013	p = 0.027	p < .001	p = 0.033	p = 0.089	p = 0.176	p < .001	p < .001
diabetes	0.22	0.16	-0.07	0.11	-0.21	0.09	-0.28	-0.17
	0.18	0.31	0.03	0.15	0.18	0.05	0.11	0.07
	p = 0.104	p = 0.308	p = 0.005	p = 0.235	p = 0.122	p = 0.043	p = 0.006	p = 0.007
Age x diabetes	-0.22	-0.15	-0.04	-0.15	-0.06	-0.04	-0.05	0.02
	0.16	0.15	0.02	0.13	0.12	0.03	0.06	0.05
	p = 0.09	p = 0.166	p = 0.009	p = 0.131	p = 0.316	p = 0.124	p = 0.208	p = 0.364
Random Effects								
τ_{00}	0.66	1.54	0.61	0.68	0.84	0.63	0.77	0.58
τ_{01}	-0.06	-0.49	-0.01	-0.06	-0.09	-0.01	-0.02	-0.03
τ_{11}	0.05	0.24	0.03	0.07	0.07	0.00	0.01	0.03
σ^2	0.36	0.33	0.40	0.32	0.27	0.38	0.19	0.32
N_{people}	1,276	702	16,040	487	1,031	6,252	1,494	3,780
N_{obs}	3,818	1,639	34,887	1,221	3,013	12,776	3,932	8,350
LL	-4562	-1973	-45372	-1492	-3440	-16404	-4093	-10253

^a LL = Log Likelihood; Age = age (centered at 60)

Diabetes, Plot, Agreeableness

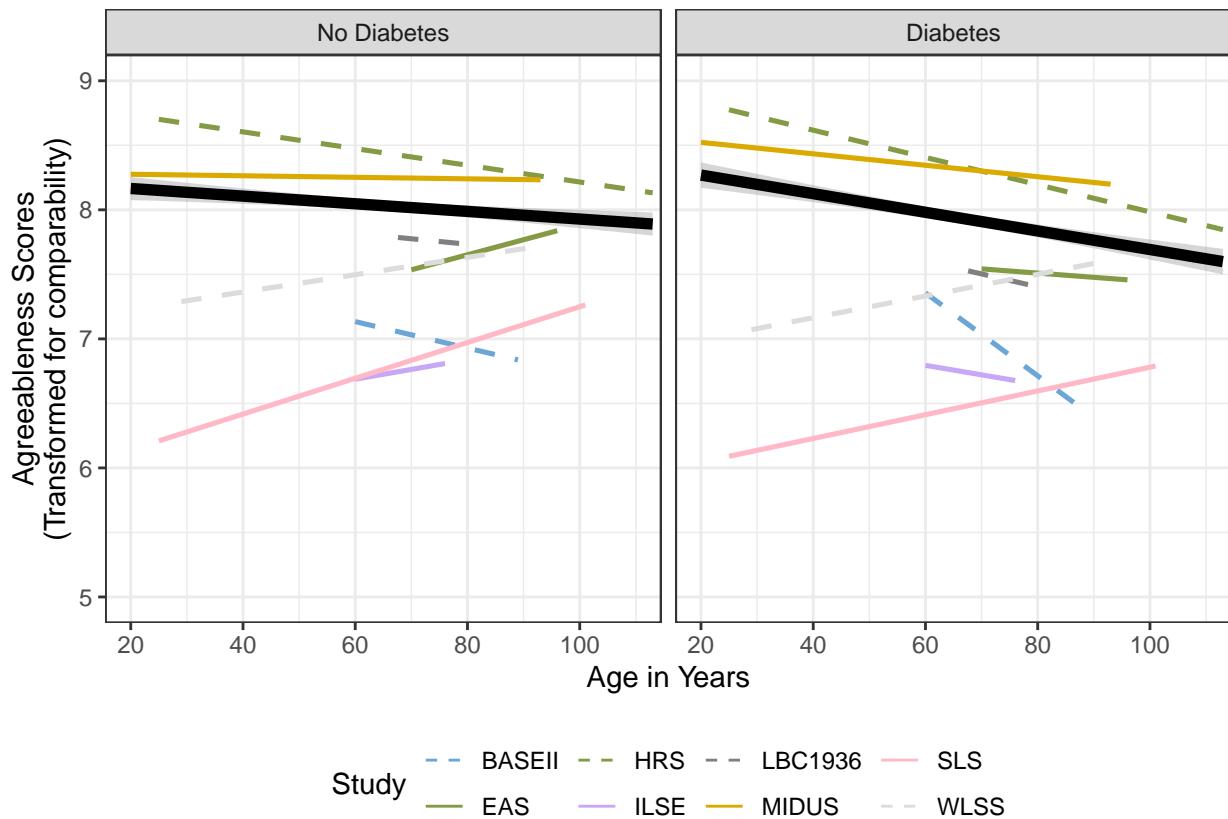


Figure S135: Diabetes, Plot, Agreeableness. Linear Trajectories of Agreeableness, moderated by diabetes. Black line indicates average trajectory weighted by N. At the individual study level, a few showed evidence that having diabetes was associated with greater declines in agreeableness, and the meta-analytic average was significant ($p = .004$)

Diabetes, Plot, unweighted, Agreeableness

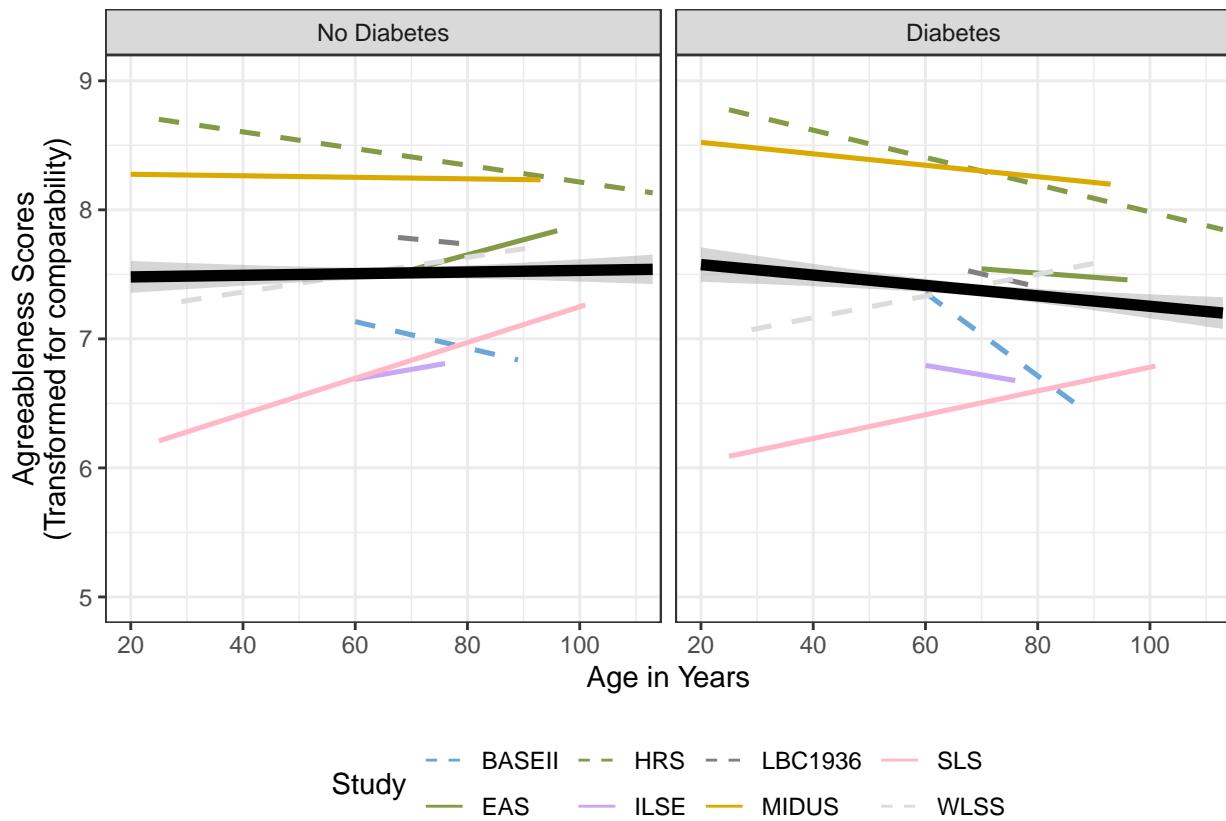


Figure S136: Diabetes, Plot, unweighted, Agreeableness

Diabetes, Meta Analysis, Agreeableness

```
##  
## Random-Effects Model (k = 8; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##    9.6031 -19.2063 -15.2063 -15.3144 -12.2063  
##  
## tau^2 (estimated amount of total heterogeneity): 0 (SE = 0.0008)  
## tau (square root of estimated tau^2 value): 0  
## I^2 (total heterogeneity / total variability): 0.00%  
## H^2 (total variability / sampling variability): 1.00  
##  
## Test for Heterogeneity:  
## Q(df = 7) = 3.7905, p-val = 0.8036  
##  
## Model Results:  
##  
## estimate      se     zval    pval    ci.lb    ci.ub  
## -0.0397  0.0138 -2.8655  0.0042 -0.0668 -0.0125 **  
##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 8; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##    7.5101 -15.0203 -15.0203 -15.6450  2.9797  
##  
## tau^2 (estimated amount of residual heterogeneity): 0 (SE = 0.0018)  
## tau (square root of estimated tau^2 value): 0  
## I^2 (residual heterogeneity / unaccounted variability): 0.00%  
## H^2 (unaccounted variability / sampling variability): 1.00  
## R^2 (amount of heterogeneity accounted for): 0.00%  
##  
## Test for Residual Heterogeneity:  
## QE(df = 6) = 3.4300, p-val = 0.7533  
##  
## Test of Moderators (coefficient 2):  
## QM(df = 1) = 0.3605, p-val = 0.5482  
##  
## Model Results:  
##  
##          estimate      se     zval    pval    ci.lb    ci.ub  
## intrcpt   0.0211  0.1021  0.2063  0.8366 -0.1790  0.2211  
## age       -0.0010  0.0016 -0.6004  0.5482 -0.0041  0.0022  
##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 8; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc
```

```

##   6.5924 -13.1848 -3.1848 -6.2533 56.8152
##
## tau^2 (estimated amount of residual heterogeneity):      0 (SE = 0.0009)
## tau (square root of estimated tau^2 value):             0
## I^2 (residual heterogeneity / unaccounted variability): 0.00%
## H^2 (unaccounted variability / sampling variability):  1.00
## R^2 (amount of heterogeneity accounted for):          0.00%
##
## Test for Residual Heterogeneity:
## QE(df = 4) = 0.6161, p-val = 0.9613
##
## Test of Moderators (coefficients 2:4):
## QM(df = 3) = 3.1744, p-val = 0.3655
##
## Model Results:
##
##           estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt       0.0170  0.0487  0.3486  0.7274 -0.0785  0.1124
## countryGermany -0.1940  0.1139 -1.7030  0.0886 -0.4174  0.0293 .
## countryU.S.    -0.0587  0.0509 -1.1547  0.2482 -0.1584  0.0410
## countryUK      -0.0745  0.1296 -0.5747  0.5655 -0.3286  0.1796
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Mixed-Effects Model (k = 8; tau^2 estimator: REML)
##
## logLik  deviance      AIC      BIC      AICc
## 3.6598 -7.3196  6.6804 -2.4676 118.6804
##
## tau^2 (estimated amount of residual heterogeneity):      0 (SE = 0.0010)
## tau (square root of estimated tau^2 value):             0
## I^2 (residual heterogeneity / unaccounted variability): 0.00%
## H^2 (unaccounted variability / sampling variability):  1.00
## R^2 (amount of heterogeneity accounted for):          0.00%
##
## Test for Residual Heterogeneity:
## QE(df = 2) = 0.2246, p-val = 0.8938
##
## Test of Moderators (coefficients 2:6):
## QM(df = 5) = 3.5659, p-val = 0.6134
##
## Model Results:
##
##           estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt       0.0170  0.0487  0.3486  0.7274 -0.0785  0.1124
## scaleBFI-S    -0.2358  0.1702 -1.3854  0.1659 -0.5694  0.0978
## scaleIPIP     -0.1092  0.1065 -1.0254  0.3052 -0.3180  0.0995
## scaleMIDI     -0.0573  0.0510 -1.1233  0.2613 -0.1573  0.0427
## scaleNEO-FFI   -0.1663  0.1415 -1.1752  0.2399 -0.4437  0.1111
## scaleNEO-PI-R  -0.0635  0.0751 -0.8464  0.3973 -0.2107  0.0836
##
## ---

```

```
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

Hypertension, Table, Agreeableness

Table S80: Linear Trajectories of Agreeableness, Moderated by Hypertension

coef	BASEII	EAS	HRS	ILSE	LBC1936	MIDUS	SLS	SOEP	WLSG	WLSS
Fixed Effects										
Intercept	7.13	7.39	8.46	6.78	7.82	8.24	6.72	7.39	7.63	7.51
Age	0.06 p < .001	0.19 p < .001	0.01 p < .001	0.06 p < .001	0.06 p < .001	0.01 p < .001	0.03 p < .001	0.01 p < .001	0.01 p < .001	0.02 p < .001
hbp	-0.06 0.06 p = 0.153 0.04 0.1 p = 0.345 -0.14 0.09 p = 0.061	0.13 0.09 p = 0.062 0.08 0.24 p = 0.367 -0.06 0.11 p = 0.296	-0.07 0.01 p < .001 0.01 0.02 p = 0.399 -0.01 0.01 p = 0.157	0.05 0.05 p = 0.155 -0.20 0.1 p = 0.019 0.03 0.08 p = 0.37	-0.05 0.04 p = 0.095 -0.04 0.1 p = 0.329 0.01 0.06 p = 0.43	-0.01 0.01 p = 0.138 0.09 0.03 p = 0.003 -0.01 0.02 p = 0.207	0.14 0.01 p < .001 -0.16 0.06 p = 0.004 0.00 0.03 p = 0.483	0.03 0 p < .001 -0.01 0.01 p = 0.16 0.02 0.02 p = 0.002	0.01 0.03 p < .001 -0.09 0.03 p < .001 0.02 0.02 p = 0.121	0.02 0.01 p < .001 -0.07 0.03 p = 0.013 -0.02 0.02 p = 0.154
Random Effects										
τ_{00}	0.66	1.54	0.62	0.67	0.85	0.63	0.77	0.51	0.62	0.58
τ_{01}	-0.04	-0.49	0.00	-0.06	-0.08	-0.01	-0.02	0.01	-0.03	-0.03
τ_{11}	0.03	0.24	0.03	0.07	0.07	0.00	0.01	0.00	0.08	0.04
σ^2	0.36	0.33	0.40	0.32	0.27	0.37	0.19	0.49	0.30	0.32
N_{people}	1,276	700	16,040	486	1,031	6,250	1,497	33,618	6,836	3,796
N_{obs}	3,818	1,632	34,894	1,218	3,013	12,764	3,935	74,056	16,582	8,380
LL	-4560	-1960	-45397	-1488	-3444	-16384	-4098	-97053	-20423	-10283

^a LL = Log Likelihood; Age = age (centered at 60)

Hypertension, Plot, Agreeableness

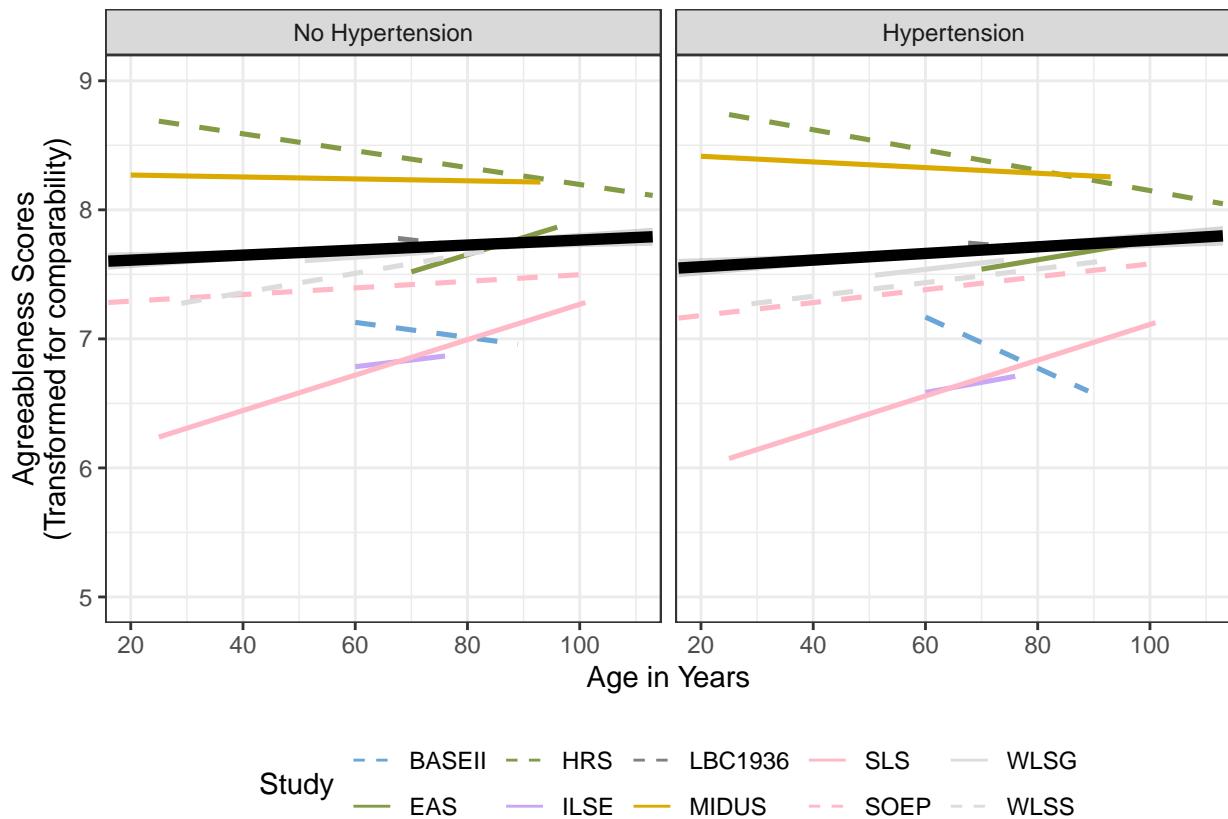


Figure S137: Hypertension, Plot, Agreeableness. Linear Trajectories of Agreeableness, moderated by hypertension. Black line indicates average trajectory weighted by N. At the individual study level, none showed evidence that having hypertension was associated with greater declines in agreeableness, and the meta-analytic average was not significant ($p = .915$).

Hypertension, Plot, unweighted, Agreeableness

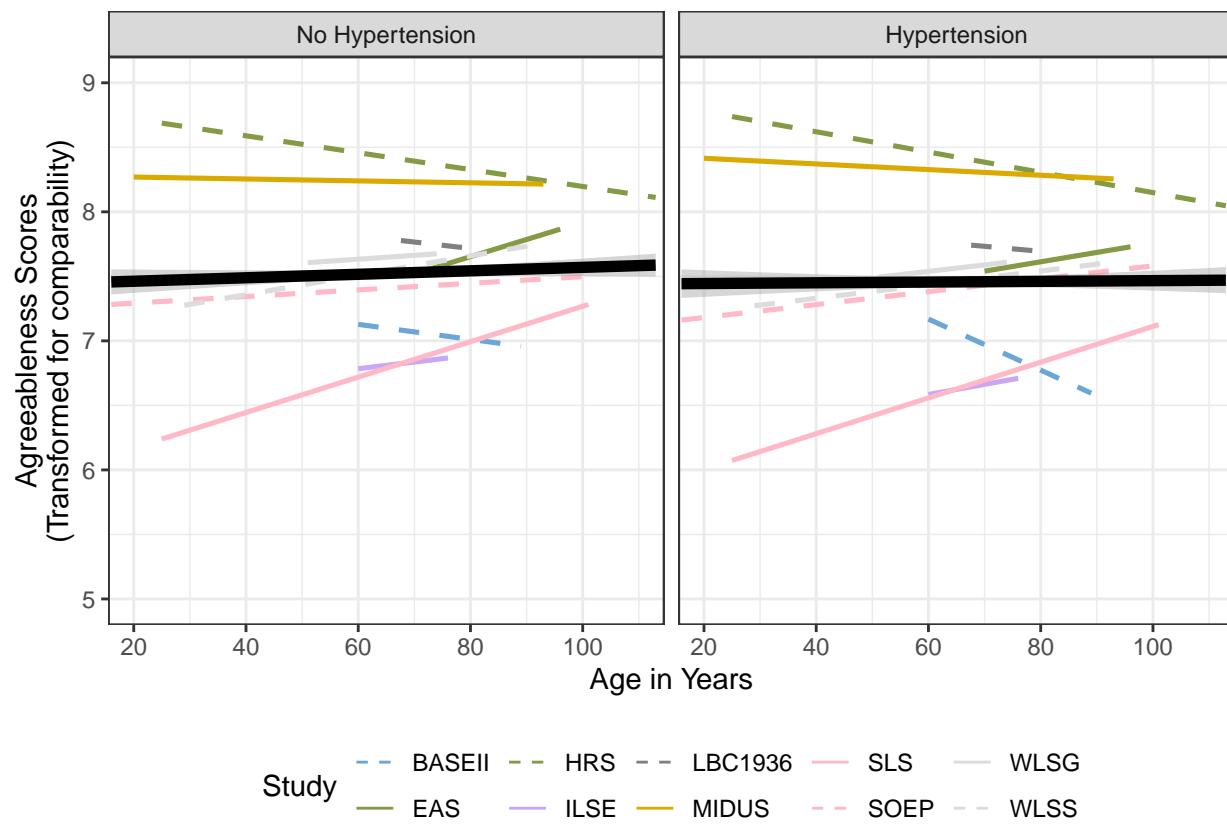


Figure S138: Hypertension, Plot, unweighted, Agreeableness

Hypertension, Meta Analysis, Agreeableness

```
##  
## Random-Effects Model (k = 10; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##  16.9738  -33.9476  -29.9476  -29.5531  -27.9476  
##  
## tau^2 (estimated amount of total heterogeneity): 0.0002 (SE = 0.0003)  
## tau (square root of estimated tau^2 value):       0.0158  
## I^2 (total heterogeneity / total variability):   37.33%  
## H^2 (total variability / sampling variability):  1.60  
##  
## Test for Heterogeneity:  
## Q(df = 9) = 13.5230, p-val = 0.1403  
##  
## Model Results:  
##  
## estimate      se     zval    pval    ci.lb    ci.ub  
##  0.0010  0.0092  0.1065  0.9152  -0.0170  0.0190  
##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 10; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##  15.0781  -30.1561  -24.1561  -23.9178  -18.1561  
##  
## tau^2 (estimated amount of residual heterogeneity):      0.0002 (SE = 0.0003)  
## tau (square root of estimated tau^2 value):            0.0134  
## I^2 (residual heterogeneity / unaccounted variability): 24.52%  
## H^2 (unaccounted variability / sampling variability):  1.32  
## R^2 (amount of heterogeneity accounted for):           28.38%  
##  
## Test for Residual Heterogeneity:  
## QE(df = 8) = 8.9824, p-val = 0.3438  
##  
## Test of Moderators (coefficient 2):  
## QM(df = 1) = 1.4782, p-val = 0.2240  
##  
## Model Results:  
##  
##          estimate      se     zval    pval    ci.lb    ci.ub  
## intrcpt    0.0663  0.0537  1.2340  0.2172  -0.0390  0.1715  
## age        -0.0012  0.0010  -1.2158  0.2240  -0.0031  0.0007  
##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 10; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc
```

```

## 10.9917 -21.9834 -11.9834 -13.0246 48.0166
##
## tau^2 (estimated amount of residual heterogeneity): 0.0000 (SE = 0.0003)
## tau (square root of estimated tau^2 value): 0.0022
## I^2 (residual heterogeneity / unaccounted variability): 0.73%
## H^2 (unaccounted variability / sampling variability): 1.01
## R^2 (amount of heterogeneity accounted for): 97.99%
##
## Test for Residual Heterogeneity:
## QE(df = 6) = 6.0083, p-val = 0.4223
##
## Test of Moderators (coefficients 2:4):
## QM(df = 3) = 7.1602, p-val = 0.0670
##
## Model Results:
##
##          estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt      0.0036  0.0138   0.2614  0.7938 -0.0234  0.0306
## countryGermany  0.0193  0.0163   1.1860  0.2356 -0.0126  0.0512
## countryU.S.    -0.0160  0.0170  -0.9377  0.3484 -0.0494  0.0174
## countryUK       0.0075  0.0646   0.1162  0.9075 -0.1191  0.1341
##
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Mixed-Effects Model (k = 10; tau^2 estimator: REML)
##
## logLik deviance      AIC      BIC      AICc
## 6.5870 -13.1741  0.8259 -3.4700 112.8259
##
## tau^2 (estimated amount of residual heterogeneity): 0.0000 (SE = 0.0003)
## tau (square root of estimated tau^2 value): 0.0009
## I^2 (residual heterogeneity / unaccounted variability): 0.14%
## H^2 (unaccounted variability / sampling variability): 1.00
## R^2 (amount of heterogeneity accounted for): 99.67%
##
## Test for Residual Heterogeneity:
## QE(df = 4) = 5.9128, p-val = 0.2058
##
## Test of Moderators (coefficients 2:6):
## QM(df = 5) = 7.5503, p-val = 0.1828
##
## Model Results:
##
##          estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt      0.0036  0.0137   0.2664  0.7899 -0.0232  0.0305
## scaleBFI-S     0.0193  0.0161   1.1978  0.2310 -0.0123  0.0509
## scaleIPIP     -0.0095  0.0568  -0.1678  0.8667 -0.1208  0.1018
## scaleMIDI     -0.0173  0.0173  -0.9991  0.3178 -0.0512  0.0166
## scaleNEO-FFI    0.0229  0.0810   0.2824  0.7776 -0.1359  0.1817
## scaleNEO-PI-R   -0.0023  0.0333  -0.0697  0.9445 -0.0676  0.0629
##
## ---

```

```

## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

##
## Mixed-Effects Model (k = 10; tau^2 estimator: REML)
##
##   logLik  deviance      AIC      BIC      AICc
##  15.5772 -31.1544 -25.1544 -24.9161 -19.1544
##
## tau^2 (estimated amount of residual heterogeneity): 0.0003 (SE = 0.0004)
## tau (square root of estimated tau^2 value):        0.0165
## I^2 (residual heterogeneity / unaccounted variability): 38.53%
## H^2 (unaccounted variability / sampling variability): 1.63
## R^2 (amount of heterogeneity accounted for):       0.00%
##
## Test for Residual Heterogeneity:
## QE(df = 8) = 12.4761, p-val = 0.1312
##
## Test of Moderators (coefficient 2):
## QM(df = 1) = 0.0023, p-val = 0.9617
##
## Model Results:
##
##           estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt  0.0021  0.0299  0.0715  0.9430 -0.0565  0.0608
## mo       -0.0004  0.0082 -0.0481  0.9617 -0.0166  0.0158
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

```

Baseline Age, Table, Agreeableness

Table S81: Linear Trajectories of Agreeableness, Moderated by Baseline Age

coef	HRS	MIDUS	SLS	WLSS
Fixed Effects				
Intercept	8.41	8.23	6.85	7.49
	0.01	0.02	0.04	0.01
	p < .001	p < .001	p < .001	p < .001
Age	-0.04	-0.01	0.26	0.08
	0.02	0.01	0.02	0.01
	p = 0.015	p = 0.058	p < .001	p < .001
b.age	0.14	0.25	-0.17	0.03
	0.02	0.04	0.07	0.05
	p < .001	p < .001	p = 0.004	p = 0.268
Age x b.age	-0.08	-0.11	-0.17	-0.05
	0.02	0.02	0.03	0.03
	p < .001	p < .001	p < .001	p = 0.052
Random Effects				
τ_{00}	0.61	0.63	0.77	0.57
τ_{01}	0.00	-0.01	-0.02	-0.03
τ_{11}	0.03	0.00	0.01	0.03
σ^2	0.40	0.38	0.19	0.32
N_{people}	16,053	6,408	1,541	4,064
N_{obs}	34,915	12,992	4,023	8,709
LL	-45399	-16693	-4180	-10697

^a LL = Log Likelihood; Age = age (centered at 60)

Baseline Age, Plot, Agreeableness (In the main manuscript, this is Figure 11, in color)

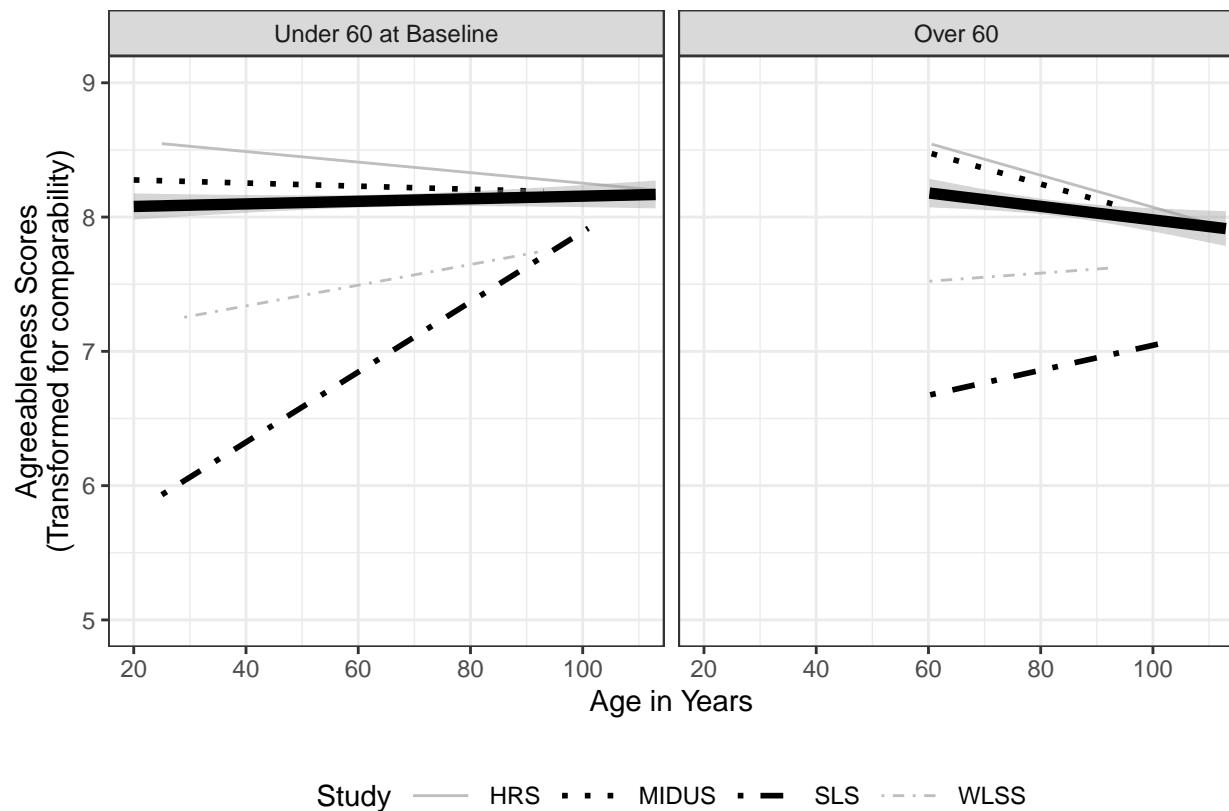


Figure S139: Baseline Age, Plot, Agreeableness. Linear Trajectories of Agreeableness, moderated by baseline age. Black line indicates average trajectory weighted by N. At the individual study level, most showed evidence that being over 60 at baseline was associated with greater declines in agreeableness, and the meta-analytic average was not significant ($p < .001$)

Baseline Age Plot, unweighted, Agreeableness

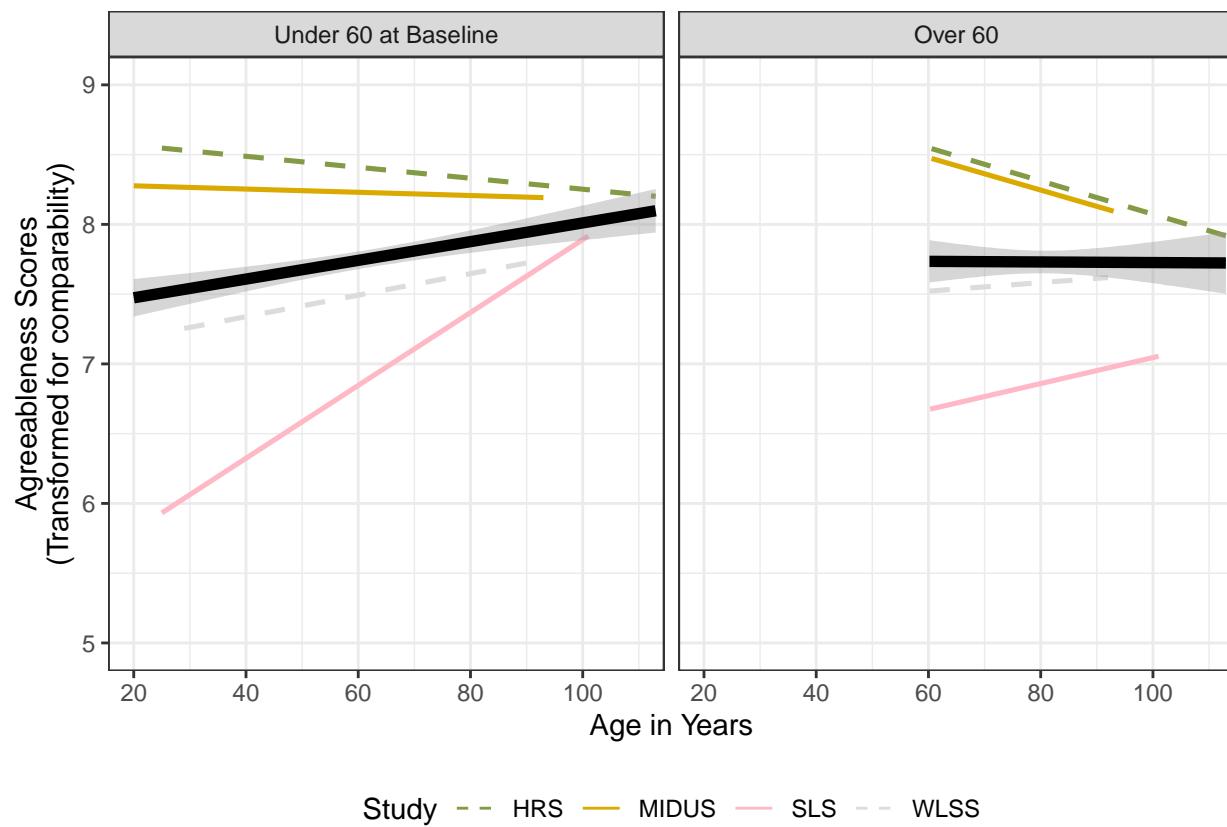


Figure S140: Baseline Age Plot, unweighted, Agreeableness

Baseline Age, Meta Analysis, Agreeableness

```
##  
## Random-Effects Model (k = 4; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##    4.8116   -9.6231   -5.6231   -7.4259   6.3769  
##  
## tau^2 (estimated amount of total heterogeneity): 0.0014 (SE = 0.0017)  
## tau (square root of estimated tau^2 value):        0.0372  
## I^2 (total heterogeneity / total variability):   68.02%  
## H^2 (total variability / sampling variability):  3.13  
##  
## Test for Heterogeneity:  
## Q(df = 3) = 8.3805, p-val = 0.0388  
##  
## Model Results:  
##  
## estimate      se     zval    pval    ci.lb    ci.ub  
## -0.0971  0.0227  -4.2712 <.0001  -0.1417  -0.0526 ***  
##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 4; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc  
##    2.7739   -5.5479   0.4521   -3.4684  24.4521  
##  
## tau^2 (estimated amount of residual heterogeneity):      0.0028 (SE = 0.0035)  
## tau (square root of estimated tau^2 value):            0.0525  
## I^2 (residual heterogeneity / unaccounted variability): 77.88%  
## H^2 (unaccounted variability / sampling variability):  4.52  
## R^2 (amount of heterogeneity accounted for):          0.00%  
##  
## Test for Residual Heterogeneity:  
## QE(df = 2) = 8.3794, p-val = 0.0152  
##  
## Test of Moderators (coefficient 2):  
## QM(df = 1) = 0.0705, p-val = 0.7905  
##  
## Model Results:  
##  
##           estimate      se     zval    pval    ci.lb    ci.ub  
## intrcpt   -0.0458  0.1994  -0.2295  0.8184  -0.4365  0.3450  
## age       -0.0009  0.0034  -0.2656  0.7905  -0.0076  0.0058  
##  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Mixed-Effects Model (k = 4; tau^2 estimator: REML)  
##  
##    logLik  deviance      AIC      BIC      AICc
```

```

##    3.4330   -6.8660   -0.8660   -4.7866   23.1340
##
## tau^2 (estimated amount of residual heterogeneity):      0.0010 (SE = 0.0017)
## tau (square root of estimated tau^2 value):             0.0324
## I^2 (residual heterogeneity / unaccounted variability): 63.03%
## H^2 (unaccounted variability / sampling variability):  2.70
## R^2 (amount of heterogeneity accounted for):          24.21%
##
## Test for Residual Heterogeneity:
## QE(df = 2) = 5.0973, p-val = 0.0782
##
## Test of Moderators (coefficient 2):
## QM(df = 1) = 1.7486, p-val = 0.1861
##
## Model Results:
##
##           estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt     -0.0465  0.0432  -1.0761  0.2819  -0.1313  0.0382
## countryU.S.  -0.0652  0.0493  -1.3224  0.1861  -0.1619  0.0314
## 
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Mixed-Effects Model (k = 4; tau^2 estimator: REML)
##
##    logLik  deviance      AIC      BIC      AICC
##    2.5733  -5.1466    2.8534  -5.1466   42.8534
##
## tau^2 (estimated amount of residual heterogeneity):      0 (SE = 0.0007)
## tau (square root of estimated tau^2 value):             0
## I^2 (residual heterogeneity / unaccounted variability): 0.00%
## H^2 (unaccounted variability / sampling variability):  1.00
## R^2 (amount of heterogeneity accounted for):          100.00%
##
## Test for Residual Heterogeneity:
## QE(df = 1) = 0.6792, p-val = 0.4098
##
## Test of Moderators (coefficients 2:3):
## QM(df = 2) = 7.7013, p-val = 0.0213
##
## Model Results:
##
##           estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt     -0.0465  0.0287  -1.6239  0.1044  -0.1027  0.0096
## scaleMIDI    -0.0444  0.0324  -1.3690  0.1710  -0.1080  0.0192
## scaleNEO-PI-R -0.1215  0.0440  -2.7620  0.0057  -0.2078 -0.0353  **
## 
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Mixed-Effects Model (k = 4; tau^2 estimator: REML)
##
##    logLik  deviance      AIC      BIC      AICC

```

```

##    4.3529   -8.7058   -2.7058   -6.6263   21.2942
##
## tau^2 (estimated amount of residual heterogeneity):      0.0001 (SE = 0.0006)
## tau (square root of estimated tau^2 value):             0.0084
## I^2 (residual heterogeneity / unaccounted variability): 11.09%
## H^2 (unaccounted variability / sampling variability):   1.12
## R^2 (amount of heterogeneity accounted for):           94.94%
##
## Test for Residual Heterogeneity:
## QE(df = 2) = 2.5533, p-val = 0.2790
##
## Test of Moderators (coefficient 2):
## QM(df = 1) = 5.4692, p-val = 0.0194
##
## Model Results:
##
##          estimate      se     zval    pval    ci.lb    ci.ub
## intrcpt    0.1807  0.1181   1.5300  0.1260  -0.0508   0.4121
## mo        -0.0872  0.0373  -2.3386  0.0194  -0.1603  -0.0141  *
## 
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

```