Supplementary Table 1: Performance of a sequential testing approach: Pill Questionnaire then Montreal Cognitive Assessment, Mini-Mental State Examination or Scales for Outcomes in Parkinson's disease-Cognition for identifying PD-MCI

	CUT-OFF		No MCI	MCI	Sensitivity	Specificity	PPV	NPV
MoCA	24/25	Inaccurate on Pill Q and below Cut-off	2	16	27%	96%	89%	53%
		Accurate on Pill Q or Inaccurate Pill Q and > Cut-off	48	43				
	25/26	Inaccurate on Pill Q and ≤ Cut-off	2	20	34%	96%	91%	55%
		Accurate on Pill Q or Inaccurate Pill Q and > Cut-off	48	39				
	26/27	Inaccurate on Pill Q and ≤ Cut-off	2	22	37%	96%	92%	56%
		Accurate on Pill Q or Inaccurate Pill Q and > Cut-off	48	37				
	27/28	Inaccurate on Pill Q and ≤ Cut-off	5	22	37%	90%	81%	55%
		Accurate on Pill Q or Inaccurate Pill Q and > Cut-off	45	37				
SCOPA-Cog	24/25	Inaccurate on Pill Q and ≤ Cut-off	2	13	22%	96%	87%	51%
		Accurate on Pill Q or Inaccurate Pill Q and > Cut-off	48	46				
	25/26	Inaccurate on Pill Q and ≤ Cut-off	3	15	25%	94%	83%	52%
		Accurate on Pill Q or Inaccurate Pill Q and > Cut-off	47	44				
	26/27	Inaccurate on Pill Q and ≤ Cut-off	5	17	29%	90%	77%	52%
		Accurate on Pill Q or Inaccurate Pill Q and > Cut-off	45	42				
	27/28	Inaccurate on Pill Q and ≤ Cut-off	5	19	32%	90%	79%	53%
		Accurate on Pill Q or Inaccurate Pill Q and > Cut-off	45	40				
MMSE	27/28	Inaccurate on Pill Q and ≤ Cut-off	1	8	14%	98%	89%	49%
		Accurate on Pill Q or Inaccurate Pill Q and > Cut-off	49	51				
	28/29	Inaccurate on Pill Q and ≤ Cut-off	2	12	20%	96%	86%	51%
		Accurate on Pill Q or Inaccurate Pill Q and > Cut-off	48	47				
	29/30	Inaccurate on Pill Q and ≤ Cut-off	8	22	37%	84%	73%	53%
		Accurate on Pill Q or Inaccurate Pill Q and > Cut-off	42	37				
	30/31	Inaccurate on Pill Q and ≤ Cut-off	10	24	41%	80%	71%	53%
		Accurate on Pill Q or Inaccurate Pill Q and > Cut-off	40	35				

Pill Q, Pill Questionnaire; MMSE, Mini-Mental State Examination; MoCA, Montreal Cognitive Assessment; SCOPA-Cog, Scales for Outcomes in Parkinson's disease-Cognition

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Supplementary Table 2: Neuropsychological and global cognitive test performance by reliability taking medications according to caregiver

	Scores (Z-scores for neuropsychological tests, absolute scores for MoCA and SCOPA-Cog)		
	Takes Medications Reliably without Supervision[a] (n=104)	Uncertain or Unable to Take Medications Reliably without Supervision[b] (n=5)	p value[d] Reliable vs Unreliable Reporting
Memory (CVLT-II - Long Delay Free Recall)[7]	**0.08 ± 1.17**	**-1.00 ± 1.62**	**0.05**
Attention (Digit Span - Longest Span Forward)[8]	0.51 ± 0.92	0.71 ± 0.93	0.66
Executive Function-Working memory (Letter-Number Sequencing)[8]	0.39 ± 0.89	0.00 ± 0.85	0.34
Executive Function – Cognitive Flexibility (Visual Verbal Test – Total Number of Shifts)[9]	**-1.68 ± 1.90**	**-3.91 ± 2.04**	**0.0001**
Executive Function – Inhibitory Control (Color-Word Interference – Time to Complete Condition 3)[10]	0.13 ± 1.13	0.07 ± 0.64	0.91
Processing Speed (Color-Word Interference – Time to Complete Condition 1)[10]	-0.03 ± 0.97	-0.53 ± 0.87	0.26
Visuospatial (Visuospatial - Judgement of Line Orientation)[11]	-0.46 ± 1.50	-0.73 ± 0.82	0.69
Language (Verbal Fluency - Category Fluency Condition)[10]	**0.22 ± 1.27**	**-1.33 ± 1.35**	**0.009**
MoCA	25.1 ± 3.0	22.6 ± 2.6	0.07
SCOPA-Cog	**27.2 ± 5.4**	**22.2 ± 5.4**	**0.05**

Values shown in bold type show statistically significant differences between groups.
[a] Rating 1, 2a
[b] Ratings 2b, 2c or 3

MDS-UPDRS, Movement Disorders Society Unified Parkinson's Disease Rating Scale; MoCA, Montreal Cognitive Assessment; SCOPA-Cog, Scales for Outcomes in Parkinson's disease-Cognition