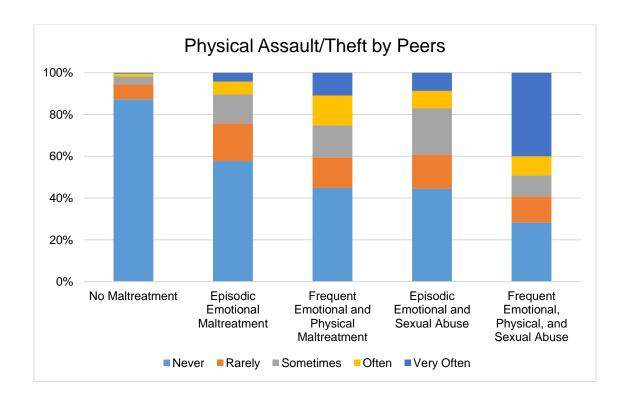
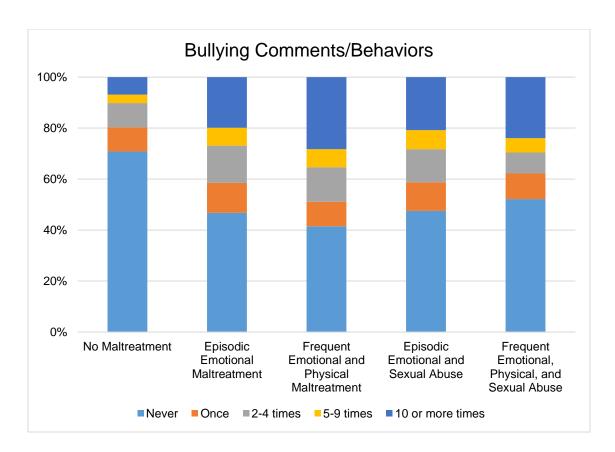
Appendix Material



Appendix Figure 1. Endorsement of Physical Assault/Theft by peers during childhood among new soldiers with No Childhood Maltreatment (n=25,043), Episodic Emotional Maltreatment (n=3215), Frequent Emotional and Physical Maltreatment (n=1073), Episodic Emotional and Sexual Abuse (n=875), and Frequent Emotional, Physical, and Sexual Maltreatment (n=230).



Appendix Figure 2. Endorsement of Bullying Comments/Behaviors by peers during childhood among new soldiers with No Childhood Maltreatment (n=25,043); Episodic Emotional Maltreatment (n=3215); Frequent Emotional and Physical Maltreatment (n=1073); Episodic Emotional and Sexual Abuse (n=875); and Frequent Emotional, Physical, and Sexual Maltreatment (n=230)

The following tables summarize results from interim discrete-time survival models of joint associations of childhood bullying victimization and maltreatment with suicidal behaviors. Models incorporated increasingly stringent controls for maltreatment. All adjusted for socio-demographic and Army service variables. A separate table is provided for each suicidal behavior outcome.

Appendix Table 1

Associations of childhood bullying victimization and maltreatment with lifetime suicidal ideation (N=30,436)

	Joint asso	ciations of	Joint assoc	eiations of	Joint associ	ations of	Joint associations of	
	Physical Assault/		Comments	omments/Behaviors both bullyi			both bullying types,	
	Theft and		and Maltre	eatment	Maltreatme	nt Profile	Maltreatment Profile,	
	Maltreatm	ent Profile	Profile				and intera	ctions
			AOR	95%CI	AOR	95%CI	AOR	95%CI
Physical Assault/Theft (0-4)	1.28***	1.23-1.32	-	-	1.09***	1.05-1.13	1.20***	1.13-1.28
Comments/Behaviors (0-4)	-	-	1.36***	1.32-1.39	1.33***	1.29-1.37	1.36***	1.31-1.40
Episodic Emotional Maltreatment ^a	2.62***	2.40-2.85	2.44***	2.23-2.67	2.35***	2.14-2.58	2.96***	2.60-3.36

Frequent Emotional and	2.85***	2.47-3.29	2.77***	2.40-3.19	2.56***	2.23-2.95	3.21***	2.60-3.97
Physical Maltreatment ^a								
Episodic Emotional and	3.08***	2.63-3.61	3.25***	2.74-3.86	3.02***	2.56-3.57	3.40***	2.54-4.55
Sexual Abuse ^a	2.00	2.00 0.01	0.20	2.7 1 3.00	0.02	2.50 5.57	2.10	2.01 1.00
Frequent Emotional, Physical,	2.80***	2.08-3.78	4.03***	3.06-5.33	3.43***	2.56-4.60	£ 12***	2.75 10.02
and Sexual Maltreatment ^a	2.80	2.08-3.78	4.03***	3.00-3.33	3.43****	2.30-4.00	6.13***	3.75-10.02
Physical Assault/Theft x	-	-						
Episodic Emotional			-	-	-	-	0.86**	0.79-0.95
Maltreatment ^b								
Physical Assault/Theft x								
Frequent Emotional and	-	-	-	-	-	-	0.88*	0.78-0.99
Physical Maltreatment ^b								
Physical Assault/Theft x								
Episodic Emotional and	-	-	-	-	-	-	0.89	0.79-1.00
Sexual Abuse ^b								

Physical Assault/Theft x Frequent Emotional, Physical, and Sexual Maltreatment ^b	-	-	-	-	-	-	0.72**	0.60-0.87
Comments/Behaviors x Episodic Emotional Maltreatment ^c	-	-	-	-	-	-	0.92**	0.87-0.97
Comments/Behaviors x Frequent Emotional and Physical Maltreatment ^c	-	-	-	-	-	-	0.93	0.85-1.02
Comments/Behaviors x Episodic Emotional and Sexual Abuse ^c	-	-	-	-	-	-	0.96	0.87-1.05
Comments/Behaviors x Frequent Emotional, Physical, and Sexual Maltreatment ^c	-	-	-	-	-	-	0.97	0.83-1.13

^aReference is the No Maltreatment profile.

^bReference is Physical Assault/Theft x No Maltreatment; omnibus test for Physical Assault/Theft x Childhood Maltreatment Profile was significant [$X^2(4)$ =21.28; p<.001]. Follow-up tests showed that the association of Physical Assault/Theft with lifetime ideation was moderated by Any Maltreatment [vs. No Maltreatment; $X^2(1)$ =10.19, p=.001], not by specific Maltreatment Type [vs. Episodic Emotional Maltreatment; $X^2(3)$ =4.46; p=.22].

^cReference is Comments/Behaviors x No Maltreatment; omnibus test for Comments/Behaviors x Childhood Maltreatment Profile was significant [$X^2(4)=11.61$; p=.02]. Follow-up tests showed that the association of Comments/Behaviors with lifetime ideation was moderated by Any Maltreatment [vs. No Maltreatment; $X^2(1)=10.47$, p=.001], not by specific Maltreatment Type [vs. Episodic Emotional Maltreatment; $X^2(3)=1.31$; p=.73].

Appendix Table 2
Associations of childhood bullying victimization and maltreatment with lifetime suicide plan (N=30,436)

	Joint assoc	iations of	Joint associ	ations of	Joint assoc	ciations of	Joint assoc	iations of
	Physical A.	ssault/Theft	Comments/	Behaviors and	both bully	ing types	both bullying types,	
	and Maltreatment		Maltreatme	nt Profile	and Maltre	nd Maltreatment Maltreatme		
	Profile				Profile		and interactions	
	AOR	95%CI	AOR	95%CI	AOR	95%CI	AOR	95%CI
Physical Assault/Theft (0-4 scale)	1.29***	1.18-1.41	-	-	1.08	0.99-1.19	1.22*	1.03-1.44
Comments/Behaviors (0-4 scale)	-	-	1.43***	1.36-1.51	1.40***	1.32-1.49	1.48***	1.37-1.61
Episodic Emotional Maltreatment ^a	3.15***	2.56-3.88	2.80***	2.26- 3.48	2.69***	2.17 -3.34	3.95***	2.95-5.30
Frequent Emotional and Physical	4.34***	3.03-6.21	3.94***	2.88-5.38	3.64***	2.56-5.17	6.37***	3.74-10.84
Maltreatment ^a								
Episodic Emotional and Sexual	4.47***	3.04-6.58	4.61***	3.29- 6.46	4.26***	2.93-6.19	4.63***	2.53-8.51
Abuse ^a								
Frequent Emotional, Physical, and	6.26***	3.71-10.55	8.93***	5.80- 13.76	7.65***	4.67-12.52	10.81***	5.35-21.83
Sexual Maltreatment ^a			23.2					2.00 =2.00

Physical Assault/Theft x Episodic Emotional Maltreatment ^b	-	-	-	-	-	-	0.92	0.75-1.13
Physical Assault/Theft x Frequent								
Emotional and Physical	-	-	-	-	-	-	0.87	0.67-1.11
Maltreatment ^b								
Physical Assault/Theft x Episodic	_	_	_		_	_	0.79	0.60-1.02
Emotional and Sexual Abuse ^b							0.77	0.00 1.02
Physical Assault/Theft x Frequent								
Emotional, Physical, and Sexual	-	-	-	-	-	-	0.80	0.60-1.07
Maltreatment ^b								
Comments/Behaviors x Episodic			_				0.83**	0.73-0.94
Emotional Maltreatment ^c	-	-	-	-	-	-	0.03	0.73-0.94
Comments/Behaviors x Frequent								
Emotional and Physical	-	-	-	-	-	-	0.81*	0.69-0.96
Maltreatment ^c								

Comments/Behaviors x Episodic Emotional and Sexual Abuse ^c	-	-	-	-	-	-	1.05	0.87-1.26
Comments/Behaviors x Frequent Emotional, Physical, and Sexual Maltreatment ^c	-	-	-	-	-	-	0.97	0.76-1.24

^bReference is Physical Assault/Theft x No Maltreatment; omnibus test for Physical Assault/Theft x Childhood Maltreatment Profile was non-significant [$X^2(4)=4.14$; p=.39].

'Reference is Comments/Behaviors x No Maltreatment; omnibus test for Comments/Behaviors x Childhood Maltreatment Profile was significant [$X^2(4)=10.96$; p=.027]. Follow-up tests showed that the association of Comments/Behaviors with lifetime plan was moderated by Any Maltreatment [vs. No Maltreatment; $X^2(1)=12.74$, p<.001], not by specific Maltreatment Type [vs. Episodic Emotional Maltreatment; $X^2(3)=6.51$; p=.089]. When this interaction was modeled as Comments/Behaviors x Any Maltreatment, the main effect of Physical Assault/Theft reverted to being non-significant (p=.057), as it was in the previous model. Physical Assault/Theft was thus excluded from the final model of suicide plan.

^aReference is the No Maltreatment profile.

Appendix Table 3 $Associations \ of \ childhood \ bullying \ victimization \ and \ maltreatment \ with \ lifetime \ suicide \ attempt \ (N=30,436)$

	Joint assoc	ciations of	Joint assoc	iations of	Joint assoc	iations of	Joint associ	ations of both
	Physical A	ssault/Theft	Comments	Behaviors/	both bullyi	ullying types and bully		oes,
	and Maltreatment		and Maltre	atment	Maltreatmo	ent Profile	Maltreatme	nt Profile, and
	Profile		Profile				interactions	
	AOR	95%CI	AOR	95%CI	AOR	95%CI	AOR	95%CI
Physical Assault/Theft (0-4 scale)	1.30***	1.20-1.41	-	-	1.13**	1.04-1.23	1.40**	1.16-1.69
Comments/Behaviors (0-4 scale)	-	-	1.37***	1.28-1.47	1.33***	1.24-1.42	1.25***	1.12-1.39
Episodic Emotional Maltreatment ^a	3.21***	2.46-4.21	2.98***	2.28-3.91	2.80***	2.14-3.67	3.76***	2.66-5.31
Frequent Emotional and Physical Maltreatment ^a	4.71***	3.47-6.40	4.57***	3.47-6.01	4.03***	3.00-5.43	4.06***	2.18-7.58
Episodic Emotional and Sexual Abuse ^a	5.84***	4.21-8.09	6.22***	4.60-8.41	5.52***	4.01-7.59	4.67***	2.61-8.35
Frequent Emotional, Physical, and Sexual Maltreatment ^a	8.34***	5.00-13.93	12.26***	7.68-19.59	9.65***	5.87-15.84	6.88***	3.07-15.40

Physical Assault/Theft x Episodic Emotional Maltreatment ^b	-	-	-	-	-	-	0.68**	0.53-0.87
Physical Assault/Theft x Frequent Emotional and Physical Maltreatment ^b	-	-	-	-	-	-	0.88	0.67-1.16
Physical Assault/Theft x Episodic Emotional and Sexual Abuse ^b	-	-	-	-	-	-	0.71*	0.54-0.93
Physical Assault/Theft x Frequent Emotional, Physical, and Sexual Maltreatment ^b	-	-	-	-	-	-	0.85	0.62-1.15
Comments/Behaviors x Episodic Emotional Maltreatment ^c	-	-	-	-	-	-	1.02	0.88-1.18
Comments/Behaviors x Frequent Emotional and Physical Maltreatment ^c	-	-	-	-	-	-	1.01	0.82-1.24

Comments/Behaviors x Episodic	-	-	-	-	-	-	1.26	1.00-1.58
Emotional and Sexual Abuse ^c								
Comments/Behaviors x Frequent	-	-	-	-	-	-		
Emotional, Physical, and Sexual							1.19	0.94-1.52
Maltreatment ^c								

^aReference is the No Maltreatment profile.

^bReference is Physical Assault/Theft x No Maltreatment; omnibus test for Physical Assault/Theft x Childhood Maltreatment Profile was significant [$X^2(4)=11.39$; p=.022]. Follow-up tests showed that the association of Physical Assault/Theft with lifetime attempt was moderated by Any Maltreatment [vs. No Maltreatment; $X^2(1)=11.67$, p<.001], not by specific Maltreatment Type [vs. Episodic Emotional Maltreatment; $X^2(3)=4.81$; p=.19].

^cReference is Comments/Behaviors x No Maltreatment; omnibus test for Comments/Behaviors x Childhood Maltreatment Profile was non-significant [$X^2(4)=6.00$; p=.20].

Appendix Table 4
Associations of childhood bullying victimization and maltreatment with onset of plan among ideators (*n*=4060)

	Joint assoc	iations of	Joint associa	tions of	Joint associ	ations of	Joint associati	ions of both	
	Physical A	ssault/Theft	Comments/E	Behaviors	both bullyir	ng types and	bullying types,		
	and Maltreatment		and Maltreat	ment	Maltreatme	nt Profile	Profile Maltreatment Profile, and		
	Profile	Profile					interactions	interactions	
	AOR	95%CI	AOR	95%CI	AOR	95%CI	AOR	95%CI	
Physical Assault/Theft (0-4 scale)	1.09	0.99-1.19	-	-	1.03	0.93-1.14	1.04	0.88-1.22	
Comments/Behaviors (0-4 scale)	-	-	1.11***	1.06-1.17	1.11**	1.04-1.17	1.13**	1.04-1.23	
Episodic Emotional Maltreatment ^a	1.35**	1.10-1.67	1.33*	1.07-1.65	1.31*	1.06-1.62	1.53*	1.10-2.11	
Frequent Emotional and Physical Maltreatment ^a	1.75**	1.20-2.56	1.74**	1.23-2.46	1.70**	1.16 -2.48	2.27*	1.20-4.29	
Episodic Emotional and Sexual Abuse ^a	1.72**	1.20-2.47	1.75**	1.27-2.42	1.71**	1.19-2.44	1.53	0.76-3.08	
Frequent Emotional, Physical, and Sexual Maltreatment ^a	2.94***	1.73-4.98	3.21***	1.98-5.21	3.08***	1.83-5.18	2.08	0.97-4.44	

Physical Assault/Theft x Episodic							1.06	0.05.1.22
Emotional Maltreatment ^b	-	-	-	-	-	-	1.06	0.85-1.32
Physical Assault/Theft x Frequent								
Emotional and Physical	-	-	-	-	-	-	0.98	0.76-1.26
Maltreatment ^b								
Physical Assault/Theft x Episodic							0.04	0.61.1.16
Emotional and Sexual Abuse ^b	-	-	-	-	-	-	0.84	0.61-1.16
Physical Assault/Theft x Frequent								
Emotional, Physical, and Sexual	-	-	-	-	-	-	1.11	0.82-1.49
Maltreatment ^b								
Comments/Behaviors x Episodic	-	-	-	-	-	-	0.90	0.77.1.04
Emotional Maltreatment ^c							0.89	0.77-1.04
Comments/Behaviors x Frequent	-	-	-	-	-	-		
Emotional and Physical							0.89	0.75-1.06
Maltreatment ^c								

Comments/Behaviors x Episodic	-	-	-	-	-	-	1.16	0.91-1.47
Emotional and Sexual Abuse ^c							1.10	0.91-1.47
Comments/Behaviors x Frequent	-	-	-	-	-	-		
Emotional, Physical, and Sexual							1.07	0.85-1.36
Maltreatment ^c								

^bReference is Physical Assault/Theft x No Maltreatment; omnibus test for Physical Assault/Theft x Childhood Maltreatment Profile was non-significant [$X^2(4)=3.03$; p=.55].

^cReference is Comments/Behaviors x No Maltreatment; omnibus test for Comments/Behaviors x Childhood Maltreatment Profile was non-significant [$X^2(4)=6.95$; p=.14].

^aReference is the No Maltreatment profile.

Appendix Table 5 Associations of childhood bullying victimization and maltreatment with attempts among ideators with a plan (planned attempts; n=625)

	Joint associations of Physical Assault/Theft and Maltreatment Profile		Joint associations of Comments/Behaviors and Maltreatment Profile	
	AOR	95%CI	AOR	95%CI
Physical Assault/Theft (0-4 scale)	1.09	0.98-1.21	-	-
Comments/Behaviors (0-4 scale)	-	-	0.95	0.87-1.05
Episodic Emotional Maltreatment ^a	1.30	0.84-2.01	1.42	0.93-2.16
Frequent Emotional and Physical Maltreatment ^a	1.87*	1.15-3.02	2.08**	1.32-3.27
Episodic Emotional and Sexual Maltreatment ^a	2.22**	1.26-3.94	2.48**	1.40-4.37
Frequent Emotional, Physical, and Sexual Maltreatment ^a	2.51	0.97-6.48	2.94*	1.15-7.51

^aReference is the No Maltreatment profile.

Appendix Table 6 Associations of childhood bullying victimization and maltreatment with attempts among ideators without a plan (unplanned attempts; n=3519)

	Joint associations of Physical Assault/Theft and Maltreatment Profile		Joint associations of Comments/Behaviors and Maltreatment Profile	
	AOR	95%CI	AOR	95%CI
Physical Assault/Theft (0-4 scale)	1.08	0.96-1.23	-	-
Comments/Behaviors (0-4 scale)	-	-	1.07	0.96-1.19
Episodic Emotional Maltreatment ^a	0.98	0.62-1.56	0.99	0.64-1.54
Frequent Emotional and Physical Maltreatment ^a	1.32	0.82-2.14	1.37	0.87-2.15
Episodic Emotional and Sexual Maltreatment ^a	1.69	1.01-2.82	1.77*	1.11-2.83
Frequent Emotional, Physical, and Sexual Maltreatment ^a	4.07***	2.05-8.07	4.52***	2.30-8.89

^aReference is the No Maltreatment profile.