

## **Supplementary Materials**

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**Table S1. Comparison of characteristics between respondent and non-respondent participants**

Characteristics <sup>†</sup>	Participants	Participants	Total	P value *
	included	excluded		
<b>Residential area (n, %)</b>				
Qidong County	454(25.6)	2(40.0)	456(25.7)	0.581
Guangming District	243(13.7)	0(0.0)	243(13.7)	
Zhongshan	1074(60.6)	3(60.0)	1077(60.6)	
<b>School type</b>				
Public	737(41.6)	1(20.0)	738(41.6)	0.327
Private	1034(58.4)	4(80.0)	1038(58.4)	
<b>Sex (n, %)</b>				
Male	994(56.1)	4(80.0)	998(56.2)	0.283
Female	777(43.9)	1(20.0)	778(43.8)	
<b>Age, y (mean, SD)</b>	12.93±0.62	12.90±0.45	12.93±0.62	0.987

**Table S2. Childhood adversity statistics**

	Mean	SD	Median	Mode	Range
Childhood adversity	3.50	1.89	3.50	2	1-10

**Table S3. Frequency and Prevalence of 8 Types of NSSI**

Type of NSSI	Frequency of NSSI (N, %)	
	<3 episodes	≥3 episodes
Hitting	60(23.0)	201(77.0)
Hair pulling	29(21.3)	107(78.7)
Head banging	15(13.8)	94(86.2)
Pinching	59(23.0)	198(77.0)
Scratching	14(10.9)	114(89.1)
Biting	15(13.3)	98(86.7)
Burning	1(6.3)	15(93.8)
Cutting	21(18.1)	95(81.9)

**Table S4. Logistic regression model of direct and indirect effects through mediators on NSSI and suicidality in males**

Variable	OR (95%CI)				
	Total effect	Direct effect	Indirect effect, Combined	Indirect effect, through	
				Depression	Anxiety
<b>NSSI<sup>a</sup></b>					
Smoking	3.29(1.01-10.80)	2.16(0.63-7.39)	1.52(1.16-2.01)	2.34(0.67-8.17)	2.25(0.93-5.42)
Parent-child separation	2.23(1.30-3.86)	2.03(1.20-3.46)	1.09(1.01-1.20)	1.04(0.99-1.11)	1.07(1.01-1.15)
Emotional abuse	1.36(0.79-2.34)	0.96(0.55-1.67)	1.42(1.13-1.79)	1.15(0.99-1.34)	1.32(1.13-1.55)
Physical abuse	1.82(1.11-3.00)	1.34(0.84-2.12)	1.36(1.11-1.68)	1.15(0.99-1.32)	1.27(1.06-1.51)
Being bullied	2.10(1.45-3.00)	1.51(1.06-2.12)	1.39(1.14-1.72)	1.14(0.99-1.31)	1.31(1.12-1.54)
<b>SI<sup>a</sup></b>					
Smoking	4.85(1.48-15.80)	3.42(0.95-12.18)	1.42(1.05-1.92)	1.34(1.07-1.68)	1.17(0.98-1.40)
Parent-child separation	1.77(1.13-2.75)	1.63(1.05-2.53)	1.08(1.01-1.17)	1.07(1.01-1.14)	1.03(0.99-1.07)
Emotional abuse	1.93(1.34-2.83)	1.48(1.01-2.20)	1.31(1.13-1.52)	1.25(1.09-1.42)	1.13(1.01-1.27)
Physical abuse	1.75(1.11-2.75)	1.35(0.87-2.10)	1.30(1.09-1.52)	1.23(1.03-1.49)	1.11(0.99-1.23)
Emotional neglect	1.75(1.11-2.77)	1.42(0.91-2.20)	1.23(1.07-1.40)	1.20(1.05-1.35)	1.07(0.99-1.16)
Being bullied	2.56(1.73-3.78)	1.99(1.38-2.89)	1.28(1.09-1.52)	1.22(1.05-1.42)	1.13(0.98-1.30)
<b>SA<sup>a</sup></b>					
Smoking	11.47(3.94-33.45)	6.05(1.90-19.11)	1.90(1.28-2.83)	1.46(0.99-2.16)	1.55(1.16-2.10)
Emotional abuse	4.53(1.93-10.70)	2.59(1.15-5.87)	1.75(1.27-2.41)	1.35(1.01-1.80)	1.46(1.11-1.93)
Being bullied	2.66(1.35-5.21)	1.57(0.76-3.22)	1.70(1.23-2.32)	1.32(1.03-1.70)	1.43(1.14-1.80)

a. Adjusted for regional areas, school type, ethnicity, single child, caregiver's educational level, parenting style, puberty, social support, emotional management ability.

**Table S5. Logistic regression model of direct and indirect effects through mediators on NSSI and suicidality in females**

Variable	OR (95%CI)				
	Total effect	Direct effect	Indirect effect, Combined	Indirect effect, through	
				Depression	Anxiety
<b>NSSI<sup>a</sup></b>					
Smoking	1.16(0.25-5.26)	0.73(0.20-2.69)	1.60(1.00-2.53)	1.08(0.78-1.51)	1.63(1.21-2.25)
Parent-child separation	1.58(0.99-2.53)	1.30(0.80-2.10)	1.22(1.09-1.36)	1.12(1.01-1.23)	1.16(1.05-1.28)
Emotional abuse	2.83(1.88-4.26)	1.54(1.03-2.29)	1.84(1.45-2.34)	1.40(1.17-1.67)	1.57(1.25-1.97)
Physical abuse	3.32(1.79-3.06)	1.52(1.19-1.95)	1.54(1.30-1.82)	1.26(1.07-1.48)	1.40(1.21-1.63)
Being bullied	2.44(1.58-3.74)	1.46(0.94-2.25)	1.67(1.36-2.05)	1.31(1.07-1.60)	1.49(1.23-1.79)
<b>SI<sup>a</sup></b>					
Smoking	1.63(0.35-7.46)	1.13(0.30-4.31)	1.45(0.99-2.12)	1.08(0.76-1.52)	1.49(1.13-1.95)
Parent-child separation	1.35(0.93-1.95)	1.14(0.79-1.65)	1.19(1.09-1.27)	1.12(1.04-1.20)	1.12(1.04-1.19)
Emotional abuse	2.12(1.39-3.25)	1.27(0.86-1.88)	1.67(1.34-2.08)	1.39(1.17-1.65)	1.38(1.14-1.67)
Physical abuse	2.32(1.38-3.94)	1.60(0.95-2.69)	1.46(1.20-1.79)	1.26(1.07-1.49)	1.28(1.07-1.54)
Emotional neglect	1.82(1.20-2.75)	1.31(0.89-1.93)	1.39(1.21-1.60)	1.27(1.09-1.48)	1.19(1.08-1.31)
Being bullied	2.16(1.43-3.29)	1.40(0.97-2.03)	1.54(1.26-1.90)	1.31(1.09-1.57)	1.34(1.16-1.52)
<b>SA<sup>a</sup></b>					
Smoking	3.35(0.65-17.29)	2.23(0.39-12.94)	1.51(0.80-2.80)	1.16(0.60-2.25)	1.63(1.21-2.23)
Emotional abuse	3.13(1.72-5.64)	1.38(0.79-2.39)	2.27(1.63-3.16)	1.88(1.40-2.51)	1.57(1.23-1.99)
Being bullied	2.80(1.68-4.66)	1.45(0.96-2.18)	1.93(1.49-2.51)	1.63(1.26-2.12)	1.48(0.98-2.36)

a. Adjusted for regional areas, school type, ethnicity, single child, caregiver's educational level, parenting style, puberty, social support, emotional management ability.