

**Supplementary Table 1.** Odds ratio (OR) (95% confidence interval) for atopic dermatitis by suicidal behaviors in adolescents among residents escaping from the overall study sample, North Korean adolescent defectors, and adolescents with South Korean parents

Variable	Overall						Adolescent defectors						South Korean adolescents					
	Suicidal ideation		Suicide plans		Suicide attempts		Suicidal ideation		Suicide plans		Suicide attempts		Suicidal ideation		Suicide plans		Suicide attempts	
	Crude OR	Adjusted OR <sup>†</sup>	Crude OR	Adjusted OR <sup>†</sup>	Crude OR	Adjusted OR <sup>†</sup>	Crude OR	Adjusted OR <sup>†</sup>	Crude OR	Adjusted OR <sup>†</sup>	Crude OR	Adjusted OR <sup>†</sup>	Crude OR	Adjusted OR <sup>†</sup>	Crude OR	Adjusted OR <sup>†</sup>	Crude OR	Adjusted OR <sup>†</sup>
Group*	2.51 (2.03, 3.09) <sup>‡</sup>	1.66 (1.30, 2.13) <sup>‡</sup>	6.04 (4.81, 7.59) <sup>‡</sup>	3.59 (2.76, 4.66) <sup>‡</sup>	7.54 (5.91, 9.63) <sup>‡</sup>	4.34 (3.27, 5.75) <sup>‡</sup>	-	-	-	-	-	-	-	-	-	-	-	-
Grade	0.98 (0.97, 0.99) <sup>‡</sup>	0.88 (0.87, 0.89) <sup>‡</sup>	0.92 (0.91, 0.93) <sup>‡</sup>	0.81 (0.80, 0.82) <sup>‡</sup>	0.89 (0.88, 0.90) <sup>‡</sup>	0.77 (0.76, 0.78) <sup>‡</sup>	0.98 (0.86, 1.11)	0.83 (0.71, 0.97) <sup>§</sup>	1.06 (0.92, 1.21)	0.87 (0.74, 1.04)	0.99 (0.86, 1.15)	0.77 (0.63, 0.93) <sup>§</sup>	0.98 (0.82, 0.99) <sup>‡</sup>	0.88 (0.87, 0.89) <sup>‡</sup>	0.92 (0.91, 0.93) <sup>‡</sup>	0.81 (0.80, 0.82) <sup>‡</sup>	0.89 (0.88, 0.90) <sup>‡</sup>	0.77 (0.76, 0.78) <sup>‡</sup>
Sex, boy vs. girl	1.71 (1.69, 1.74) <sup>‡</sup>	1.49 (1.47, 1.52) <sup>‡</sup>	1.39 (1.35, 1.42) <sup>‡</sup>	1.18 (1.15, 1.22) <sup>‡</sup>	1.85 (1.79, 1.91) <sup>‡</sup>	1.69 (1.63, 1.75) <sup>‡</sup>	1.40 (0.92, 2.15)	1.38 (0.85, 2.28)	0.87 (0.54, 1.39)	0.76 (0.44, 1.33)	1.11 (0.68, 1.84)	1.11 (0.61, 2.04)	1.71 (1.69, 1.74) <sup>‡</sup>	1.49 (1.47, 1.52) <sup>‡</sup>	1.39 (1.35, 1.42) <sup>‡</sup>	1.19 (1.15, 1.22) <sup>‡</sup>	1.86 (1.80, 1.92) <sup>‡</sup>	1.70 (1.64, 1.76) <sup>‡</sup>
Depression, yes vs. no	10.6 (10.4, 10.8) <sup>‡</sup>	9.34 (9.17, 9.51) <sup>‡</sup>	9.30 (9.03, 9.58) <sup>‡</sup>	8.10 (7.86, 8.35) <sup>‡</sup>	10.6 (10.2, 11.0) <sup>‡</sup>	8.61 (8.28, 8.95) <sup>‡</sup>	6.62 (4.14, 10.59) <sup>‡</sup>	5.70 (3.66, 9.54) <sup>‡</sup>	6.19 (3.68, 10.41) <sup>‡</sup>	4.65 (2.62, 8.27) <sup>‡</sup>	10.55 (5.56, 20.01) <sup>‡</sup>	9.52 (4.67, 19.40) <sup>‡</sup>	10.62 (10.44, 10.81) <sup>‡</sup>	9.34 (9.18, 9.51) <sup>‡</sup>	9.30 (9.03, 9.58) <sup>‡</sup>	8.11 (7.87, 8.36) <sup>‡</sup>	10.65 (10.25, 11.06) <sup>‡</sup>	8.60 (8.27, 8.95) <sup>‡</sup>
Subjective health status, not good vs. good	3.26 (3.18, 3.34) <sup>‡</sup>	2.27 (2.20, 2.33) <sup>‡</sup>	3.30 (3.19, 3.42) <sup>‡</sup>	2.27 (2.19, 2.38) <sup>‡</sup>	3.41 (3.27, 3.55) <sup>‡</sup>	2.24 (2.14, 2.34) <sup>‡</sup>	3.57 (1.89, 6.73) <sup>‡</sup>	2.32 (1.11, 4.85) <sup>§</sup>	3.60 (1.89, 6.82) <sup>‡</sup>	2.15 (0.99, 4.68)	2.48 (1.26, 4.88) <sup>‡</sup>	1.29 (0.55, 3.01)	3.26 (3.18, 3.34) <sup>‡</sup>	2.26 (2.20, 2.33) <sup>‡</sup>	3.30 (3.18, 3.41) <sup>‡</sup>	2.27 (2.19, 2.36) <sup>‡</sup>	3.41 (3.27, 3.55) <sup>‡</sup>	2.24 (2.14, 2.34) <sup>‡</sup>
Smoking, yes vs. no	1.78 (1.75, 1.81) <sup>‡</sup>	1.47 (1.44, 1.50) <sup>‡</sup>	2.14 (2.08, 2.20) <sup>‡</sup>	1.71 (1.65, 1.76) <sup>‡</sup>	2.54 (2.45, 2.62) <sup>‡</sup>	2.19 (2.11, 2.28) <sup>‡</sup>	2.74 (1.77, 4.24) <sup>‡</sup>	2.04 (1.18, 3.54) <sup>§</sup>	3.40 (2.08, 5.56) <sup>‡</sup>	1.83 (1.00, 3.37)	4.46 (2.56, 7.79) <sup>‡</sup>	2.46 (1.24, 4.88) <sup>§</sup>	1.77 (1.74, 1.81) <sup>‡</sup>	1.47 (1.44, 1.50) <sup>‡</sup>	2.12 (2.07, 2.18) <sup>‡</sup>	1.70 (1.64, 1.76) <sup>‡</sup>	2.52 (2.43, 2.60) <sup>‡</sup>	2.18 (2.10, 2.27) <sup>‡</sup>
Drinking, yes vs. no	1.74 (1.71, 1.76) <sup>‡</sup>	1.38 (1.35, 1.41) <sup>‡</sup>	1.84 (1.80, 1.89) <sup>‡</sup>	1.41 (1.37, 1.46) <sup>‡</sup>	2.06 (2.00, 2.13) <sup>‡</sup>	1.54 (1.49, 1.60) <sup>‡</sup>	2.42 (1.52, 3.84) <sup>‡</sup>	1.16 (0.64, 2.11)	4.16 (2.34, 7.39) <sup>‡</sup>	2.09 (1.03, 4.23) <sup>§</sup>	4.58 (2.40, 8.75) <sup>‡</sup>	1.99 (0.89, 4.46)	1.73 (1.71, 1.76) <sup>‡</sup>	1.38 (1.35, 1.41) <sup>‡</sup>	1.84 (1.79, 1.88) <sup>‡</sup>	1.41 (1.37, 1.46) <sup>‡</sup>	2.05 (1.99, 2.12) <sup>‡</sup>	1.54 (1.48, 1.60) <sup>‡</sup>
Living with family, no vs. yes	1.26 (1.21, 1.31) <sup>‡</sup>	1.21 (1.15, 1.26) <sup>‡</sup>	1.58 (1.49, 1.67) <sup>‡</sup>	1.61 (1.51, 1.71) <sup>‡</sup>	1.51 (1.41, 1.62) <sup>‡</sup>	1.57 (1.45, 1.69) <sup>‡</sup>	2.79 (1.81, 4.29) <sup>‡</sup>	2.08 (1.26, 3.42) <sup>‡</sup>	3.99 (2.45, 6.51) <sup>‡</sup>	2.72 (1.57, 4.73) <sup>‡</sup>	3.56 (2.12, 5.99) <sup>‡</sup>	2.47 (1.32, 4.60) <sup>§</sup>	1.24 (1.19, 1.29) <sup>‡</sup>	1.19 (1.14, 1.24) <sup>‡</sup>	1.51 (1.43, 1.60) <sup>‡</sup>	1.55 (1.45, 1.65) <sup>‡</sup>	1.43 (1.33, 1.53) <sup>‡</sup>	1.49 (1.38, 1.61) <sup>‡</sup>
Atopic dermatitis, yes vs. no	1.23 (1.21, 1.26) <sup>‡</sup>	1.09 (1.07, 1.11) <sup>‡</sup>	1.16 (1.13, 1.20) <sup>‡</sup>	1.03 (1.01, 1.06) <sup>§</sup>	1.20 (1.15, 1.24) <sup>‡</sup>	1.02 (0.99, 1.06)	2.38 (1.40, 4.04) <sup>‡</sup>	1.52 (0.81, 2.86)	3.75 (2.18, 6.47) <sup>‡</sup>	2.26 (1.17, 4.35) <sup>§</sup>	4.60 (2.62, 8.07) <sup>‡</sup>	3.10 (1.54, 6.27) <sup>§</sup>	1.23 (1.21, 1.26) <sup>‡</sup>	1.09 (1.07, 1.11) <sup>‡</sup>	1.16 (1.13, 1.20) <sup>‡</sup>	1.02 (0.99, 1.06)	1.19 (1.15, 1.24) <sup>‡</sup>	1.02 (0.98, 1.06)

\*adolescent defectors vs. South Korean adolescents; <sup>‡</sup>estimated by multiple logistic regression models including the variables in the table; <sup>‡</sup>p<0.01; <sup>§</sup>p<0.05