

Table S1. Results from unadjusted and adjusted conditional logistic regression analyses examining EAU and self-harm in the full sample of same-sex twins and among discordant twin pairs

	All twins				Discordant twin pairs			
	NSSI (n=6,082)		SA (n=6,033)		NSSI (n=698)		SA (n=694)	
	β (SE)	Wald Chi-Square (<i>p</i>)	β (SE)	Wald Chi-Square (<i>p</i>)	β (SE)	Wald Chi-Square (<i>p</i>)	β (SE)	Wald Chi-Square (<i>p</i>)
Unadjusted								
EAU	0.88 (0.12)	51.15 (<.01)	0.85 (0.15)	32.83 (<.01)	1.01 (0.26)	15.01 (<.01)	0.88 (0.31)	8.12 (<.01)
Adjusted								
EAU	1.00 (0.13)	57.75 (<.01)	0.95 (0.16)	35.40 (<.01)	2.03 (0.55)	13.48 (<.01)	1.31 (0.58)	5.10 (0.02)
Anhedonia	1.51 (0.18)	70.49 (<.01)	1.32 (0.22)	35.47 (<.01)	1.26 (0.86)	2.12 (0.15)	3.02 (1.34)	5.12 (0.02)
CSA	0.72 (0.17)	18.12 (<.01)	1.48 (0.17)	72.20 (<.01)	1.28 (0.95)	1.80 (0.18)	0.53 (0.92)	0.34 (0.56)
Risky Behavior								
1	0.60 (0.17)	12.02 (<.01)	0.47 (0.21)	4.86 (0.03)	0.35 (0.78)	0.21 (0.65)	-1.14 (0.91)	1.56 (0.21)
2	0.88 (0.19)	20.78 (<.01)	0.90 (0.23)	15.15 (<.01)	0.96 (1.00)	0.92 (0.34)	-1.51 (1.09)	1.92 (0.17)
3	1.41 (0.21)	44.92 (<.01)	1.23 (0.26)	22.57 (<.01)	1.98 (1.08)	3.33 (0.07)	-0.66 (1.38)	0.23 (0.63)
4	1.29 (0.33)	15.37 (<.01)	1.31 (0.39)	11.28 (<.01)	1.34 (1.37)	0.96 (0.33)	0.77 (1.51)	0.26 (0.61)
Family-alcohol	0.22 (0.13)	2.81 (0.09)	0.36 (0.16)	5.26 (0.02)	-	-	-	-
Family-suicide	0.61 (0.16)	14.72 (<.01)	0.33 (0.20)	2.70 (0.10)	-	-	-	-
Zygoty int.	-	-	-	-	-1.18 (0.61)	3.73 (0.05)	-0.04 (0.76)	0.00 (0.96)

Note: SA=suicide attempt; NSSI=non-suicidal self-injury; CSA=childhood sexual abuse; EAU=early onset alcohol use; Risky Behavior=4 dummy coded variables representing the number of risky behaviors endorsed: marijuana use, early smoking, early sex, conduct problems; Zygoty int.=interaction between EAU and zygoty; Family-alcohol=family history of excessive alcohol use; Family-suicide=family history of suicide;

	NSSI (n=6,082)		SA (n=6,033)	
	<i>r</i>	Chi-Square	<i>r</i>	Chi-Square
Depressed mood	.01	0.16	-.08	3.55
Anhedonia	.38**	107.41**	.34**	65.53**
Childhood sexual abuse	.30**	70.01**	.46**	179.68**
Risky Behavior				
1	.02	0.45	-.01	0.14
2	.09	5.46*	.13	9.20**
3	.23	35.74**	.21	23.80**
4	.15	6.36*	.16	6.29*
Family history-alcohol	.13	14.12**	.18	21.17**
Family history-suicide	.24**	40.77**	.19**	19.12**

Note: * $p < .05$; ** $p < .01$; SA=suicide attempt; NSSI=non-suicidal self-injury; MZ=monozygotic; DZ=dizygotic; Risky Behavior=4 dummy coded variables representing the number of risky behaviors endorsed: marijuana use, early smoking, early sex, conduct problems

Table S3. Results of conditional logistic regression analyses examining EAU and NSSI in MZ and DZ twin pairs

	MZ twin pairs (n=363)		DZ twin pairs (n=335)	
	β (SE)	Wald Chi-Square (<i>p</i>)	β (SE)	Wald Chi-Square (<i>p</i>)
Unadjusted				
EAU	0.48 (0.35)	1.85 (0.17)	1.58 (0.42)	14.50 (<.01)

Note: EAU=early onset alcohol use; NSSI=non-suicidal self-injury; MZ=monozygotic; DZ=dizygotic;