

Supplementary Online Materials for:

**Youth's Personal Relationships, Psychological Symptoms and the Use of Different
Substances: A Population-Based Study**

Adriana del Palacio-Gonzalez & Mads Uffe Pedersen

Aarhus University, Denmark

1. Supplementary Materials (SM) Tables I, II, III, and IV.
2. Appendix: Original and Modified AUDIT Items 1-3

Table ISM

Correlations between independent and dependent variables.

		1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	Age Group	--													
2	Sex	0.011	--												
3	Number of friends	-.089**	-.061**	--											
4	A friend uses illegal drugs	-.082**	-.154**	.182**	--										
5	Has a partner	.304**	.096**	-.047**	-.045*	--									
6	Lives with someone with SUP	0.025	0.017	-0.007	.119**	0.016	--								
7	Parent(s) has SUP	.090**	.039*	-.070**	.051**	.064**	.162**	--							
8	Parents together	-.080**	-0.001	.067**	-.049**	-.061**	-.061**	-.260**	--						
9	Externalizing	0.023	-.211**	-.038*	.180**	.047*	.083**	.225**	-.144**	--					
10	Internalizing	0.020	.184**	-.155**	.065**	-0.028	.051**	.145**	-.099**	.150**	--				
11	Regular Alcohol	.098**	-.096**	.187**	.189**	-0.032	.102**	-0.016	-0.013	0.023	-.065**	--			
12	Weekly alcohol	.082**	-.158**	.168**	.166**	-.046*	.093**	-0.001	0.001	.053**	-.068**	.652**	--		

		1	2	3	4	5	6	7	8	9	10	11	12	13	14
13	Cigarettes	.100**	-.036*	.058**	.246**	0.007	.096**	.113**	-.126**	.238**	.097**	.294**	.263**	--	
14	Cannabis	0.030	-.122**	.039*	.306**	-.037*	.159**	.098**	-.116**	.206**	.046*	.175**	.182**	.322**	--
15	OIDs	.076**	-.105**	-0.022	.172**	0.024	.096**	.081**	-.072**	.214**	.055**	.131**	.158**	.215**	.362**

SUP = Substance use problem. OID = Other Illicit Drugs.

** p < 0.01.

* p < 0.05.

Table IISM

Relationship Characteristics and Psychological Symptoms of the Adolescents and Emerging Adults

	Adolescents (<i>n</i> = 1168)		Emerging Adults (<i>n</i> = 1878)		Full Sample (<i>n</i> = 3046)
	<i>n</i>	W % or <i>M</i>	<i>n</i>	W % or <i>M</i>	W % or <i>M</i>
Number of friends	1168	6.48	1877	5.58	5.88
A close friend uses illegal drugs	545	47.88	725	40.10	42.72
Has a partner	256	22.45	990	53.09	42.84
Lives with someone with SUP	97	8.71	184	9.97	9.54
Parent(s) with SUP	103	9.13	281	15.84	13.58
Parents live together	751	63.49	1055	55.77	58.38
Externalizing	1093	0.71	1809	0.78	0.76
Internalizing	1093	0.77	1809	0.83	0.81

Note. SUP = substance use problems. W = Weighted percentages or means (*M*). For sex, men coded = 0, and women = 1. For age group, adolescents coded = 0, and emerging adults = 1.

Table IIISM

Alcohol: Prevalence of Regular and Weekly Use of Alcohol. and AUDIT Scores for Weekly Drinkers

		Adolescents		Emerging Adults		Full Sample	
		<i>N</i>	W % or <i>M</i>	<i>N</i>	W % or <i>M</i>	<i>n</i>	W % or <i>M</i>
Regular Use	Men	208	35.8	465	51.4	673	46.1
	Women	207	32.8	394	38.1	601	36.4
	All	415	34.4	859	45.9	1274	41.3
Weekly Use	Men	139	23.7	332	36.6	471	32.0
	Women	105	16.0	199	19.2	304	18.2
	All	244	20.0	531	27.9	775	25.2
AUDIT-CMod	Men	139	5.8	332	4.7	471	4.9
	Women	105	5.0	199	3.7	304	4.1
	All	244	5.5	531	4.3	775	4.6
AUDIT-NC	Men	139	4.4	332	3.9	471	4.0
	Women	105	5.3	199	3.7	304	4.2
	All	244	4.7	531	3.8	775	4.1
AUDIT-TS	Men	139	10.2	332	8.5	471	8.9
	Women	105	10.3	199	7.4	304	8.3
	All	244	10.2	531	8.2	775	8.7

Note. AUDIT-CMod= Consumption Modified Items; AUDIT-NC = Negative Consequences; AUDIT-TS = Total Score; W % or M = Weighted percentages or means (*M*).

For sex. men coded = 0. and women = 1. For age group. adolescents coded = 0. and emerging adults = 1.

Table IVSM

Cigarettes, Cannabis, and Other Illegal Drugs: Last-Month Prevalence

	Adolescents		Emerging Adults		Full Sample	
	<i>n</i>	W %	<i>n</i>	W %	<i>n</i>	W %
<i>Any Tobacco Cigarettes</i>						
Men	138	24.9	351	40.4	489	35.3
Women	166	27.7	330	33.1	496	31.3
All	304	26.3	681	36.8	985	33.3
<i>Any Cannabis</i>						
Men	51	9.6	132	15.2	183	13.3
Women	42	7.1	52	5.5	94	6.0
All	93	8.4	184	10.4	277	9.7
<i>Any Other Illegal Drugs</i>						
Men	12	md	67	7.7	79	md
Women	md	md	19	1.9	md	md
All	-	-	86	4.8	-	-

Note. All percentages are weighted. Md = Microdata, which means cells with less than $n < 10$. Totals involving *md* cells are not given as they would indirectly indicate the number of participants for individual cells.

Appendix: Modified AUDIT-Consumption

In the modified AUDIT, we employed different response options in Items 1-3, as shown below. The modifications were made as a result of adjusting the AUDIT as part of the assessment battery to conduct clinical trials in our research center.

Item	Original AUDIT Response Option	Modified Response Options
1. How often do you have a drink containing alcohol?	0 = Never 1 = Monthly or less 2 = 2-4 times a month 3 = 2-3 times per week 4 = 4 times per week or more	0 = Once a month or less 1 = 2-3 times per month 2 = 1-2 times per week 3 = 3-4 times per week 4 = 5 or more times per week
2. How many drinks containing alcohol do you have on a typical day when you are drinking?	0 = 1-2 1 = 3-4 2 = 5-6 3 = 7-9 4 = 10 or more	0 = 1-4 1 = 5-6 2 = 7-8 3 = 9-12 4 = 13 or more
3. How often do you have six or more drinks on one occasion?	0 = Never 1 = Less than monthly 2 = Monthly 3 = Weekly 4 = Daily or almost daily	0 = Never or once a month or less 1 = 2-3 times per month 2 = 1-2 times per week 3 = 3-4 times per week 4 = 5 or more times per week

Items 4 -10 (AUDIT-Negative Consequences) had the same response options as in the original instrument.