



Supplemental Table 1

Results of linear mixed effects models conducted separately in AUD- and AUD+ groups on eBAC, feel beverage effects and primary outcomes (stimulation, sedation, liking, wanting more, and negative affect). For stimulation, sedation and negative affect, baseline measures were included as a covariate. AUD-AUD+

)-				AU				
eBAC							-		
	df	df				df	df		
Effect	(num)	(den)	F	Pr > F	Effect	(num)	(den)	F	Pr > F
Cohort ^a	1	1307	0.03	0.8539	Cohort ^a	1	1444	0.02	0.8777
Episode ^b	1	1307	256.22	<.0001	Episode ^b	1	1444	213.80	<.0001
Cohort * episode	1	1307	0.08	0.7746	Cohort * episode	1	1444	3.11	0.0779
Time	1	99	0.00	0.9507	Time	1	118	0.01	0.9165
Cohort * time	1	1307	0.08	0.7769	Cohort * time	1	1444	0.95	0.3291
Episode * time	1	1307	36.06	<.0001	Episode * time	1	1444	431.29	<.0001
Cohort * episode * time	1	1307	2.82	0.0933	Cohort * episode * time	1	1444	14.25	0.0002
eBAC					eBAC				
								l	l
Feel	1					1 -		r	r
	df	df				df	df		
Effect	(num)	(den)	F	Pr > F	Effect	(num)	(den)	F	Pr > F
Cohort ^a	1	1306	1.33	0.2492	Cohort ^a	1	1443	8.86	0.0030
Episode ^b	1	1306	12.95	0.0003	Episode ^b	1	1443	6.03	0.0142
Cohort * episode	1	1306	8.43	0.0037	Cohort * episode	1	1443	2.23	0.1355
Time	1	99	2.39	0.1249	Time	1	118	42.85	<.0001
Cohort * time	1	1306	0.71	0.3999	Cohort * time	1	1443	0.83	0.3614
Episode * time	1	1306	4.59	0.0324	Episode * time	1	1443	75.11	<.0001
Cohort * episode * time	1	1306	0.00	0.9603	Cohort * episode * time	1	1443	1.93	0.1644
eBAC	1	1306	107.25	<.0001	eBAC	1	1443	97.33	<.0001
Stimulation							_		
Stilluation	df	df	1	1		df	df		
Effect	(num)	(den)	F	Pr > F	Effect	(num)	(den)	F	Pr > F
Baseline stimulation ^c	1	1305	346.26	<.0001	Baseline stimulation ^c	1	1442	131.2	<.0001
Cohort ^a	1	1305	0.02	0.8820	Cohort ^a	1	1442	0.75	0.3871
Episode ^b			19.42	<.0001					<.0001
							1///2	77.92	
	1	1305			Episode ^b	1	1442	77.83	
Cohort * episode	1	1305	3.02	0.0823	Cohort * episode	1	1442	0.03	0.8706
Cohort * episode Time	1	1305 99	3.02 105.32	0.0823 <.0001	Cohort * episode Time	1	1442 118	0.03 62.52	0.8706 <.0001
Cohort * episode Time Cohort * time	1 1 1	1305 99 1305	3.02 105.32 3.54	0.0823 <.0001 0.0601	Cohort * episode Time Cohort * time	1 1 1	1442 118 1442	0.03 62.52 0.13	0.8706 <.0001 0.7139
Cohort * episode Time Cohort * time Episode * time	1 1 1 1	1305 99 1305 1305	3.02 105.32 3.54 8.78	0.0823 <.0001 0.0601 0.0031	Cohort * episode Time Cohort * time Episode * time	1 1 1 1	1442 118 1442 1442	0.03 62.52 0.13 2.53	0.8706 <.0001 0.7139 0.1118
Cohort * episode Time Cohort * time Episode * time Cohort * episode * time	1 1 1 1 1	1305 99 1305 1305 1305	3.02 105.32 3.54 8.78 0.42	0.0823 <.0001 0.0601 0.0031 0.5146	Cohort * episode Time Cohort * time Episode * time Cohort * episode * time	1 1 1 1 1	1442 118 1442 1442 1442	0.03 62.52 0.13 2.53 0.18	0.8706 <.0001 0.7139 0.1118 0.6715
Cohort * episode Time Cohort * time Episode * time Cohort * episode * time eBAC	1 1 1 1	1305 99 1305 1305	3.02 105.32 3.54 8.78	0.0823 <.0001 0.0601 0.0031	Cohort * episode Time Cohort * time Episode * time	1 1 1 1	1442 118 1442 1442	0.03 62.52 0.13 2.53	0.8706 <.0001 0.7139 0.1118
Cohort * episode Time Cohort * time Episode * time Cohort * episode * time		1305 99 1305 1305 1305 1305 1305	3.02 105.32 3.54 8.78 0.42	0.0823 <.0001 0.0601 0.0031 0.5146	Cohort * episode Time Cohort * time Episode * time Cohort * episode * time	1 1 1 1 1 1	1442 118 1442 1442 1442 1442 1442	0.03 62.52 0.13 2.53 0.18	0.8706 <.0001 0.7139 0.1118 0.6715
Cohort * episode Time Cohort * time Episode * time Cohort * episode * time eBAC	1 1 1 1 1	1305 99 1305 1305 1305	3.02 105.32 3.54 8.78 0.42	0.0823 <.0001 0.0601 0.0031 0.5146	Cohort * episode Time Cohort * time Episode * time Cohort * episode * time	1 1 1 1 1	1442 118 1442 1442 1442	0.03 62.52 0.13 2.53 0.18	0.8706 <.0001 0.7139 0.1118 0.6715
Cohort * episode Time Cohort * time Episode * time Cohort * episode * time eBAC	1 1 1 1 1 1	1305 99 1305 1305 1305 1305 1305	3.02 105.32 3.54 8.78 0.42	0.0823 <.0001 0.0601 0.0031 0.5146	Cohort * episode Time Cohort * time Episode * time Cohort * episode * time	1 1 1 1 1 1	1442 118 1442 1442 1442 1442 1442	0.03 62.52 0.13 2.53 0.18	0.8706 <.0001 0.7139 0.1118 0.6715
Cohort * episode Time Cohort * time Episode * time Cohort * episode * time eBAC Like	1 1 1 1 1 1 1 1 0 f	1305 99 1305 1305 1305 1305 1305 df	3.02 105.32 3.54 8.78 0.42 11.91	0.0823 <.0001 0.0601 0.0031 0.5146 0.0006	Cohort * episode Time Cohort * time Episode * time Cohort * episode * time eBAC	1 1 1 1 1 1 1 1 1 1 1 1	1442 118 1442 1442 1442 1442 1442 df	0.03 62.52 0.13 2.53 0.18 65.93	0.8706 <.0001 0.7139 0.1118 0.6715 <.0001
Cohort * episode Time Cohort * time Episode * time Cohort * episode * time eBAC Like Effect Cohort ^a	1 1 1 1 1 1 df (num)	1305 99 1305 1305 1305 1305 df (den)	3.02 105.32 3.54 8.78 0.42 11.91	0.0823 <.0001 0.0601 0.0031 0.5146 0.0006 Pr > F	Cohort * episode Time Cohort * time Episode * time Cohort * episode * time eBAC Effect Cohort ^a	1 1 1 1 1 1 1 1 1 0 df (num)	1442 118 1442 1442 1442 1442 1442 df (den)	0.03 62.52 0.13 2.53 0.18 65.93	0.8706 <.0001 0.7139 0.1118 0.6715 <.0001 Pr > F
Cohort * episode Time Cohort * time Episode * time cohort * episode * time eBAC Like Effect Cohort ^a Episode ^b	1 1 1 1 1 1 1 df (num)	1305 99 1305 1305 1305 1305 df (den) 1306 1306	3.02 105.32 3.54 8.78 0.42 11.91 F 0.27 30.24	0.0823 <.0001 0.0601 0.0031 0.5146 0.0006 Pr > F 0.6015 <.0001	Cohort * episode Time Cohort * time Episode * time cohort * episode * time eBAC Effect Cohort ^a Episode ^b	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1442 118 1442 1442 1442 1442 1442 df (den) 1442 1442	0.03 62.52 0.13 2.53 0.18 65.93 F 5.07 37.95	0.8706 <.0001 0.7139 0.1118 0.6715 <.0001 Pr > F 0.0246 <.0001
Cohort * episode Time Cohort * time Episode * time Cohort * episode * time eBAC Like Effect Cohort ^a Episode ^b Cohort * episode	1 1 1 1 1 1 1 df (num) 1 1 1 1	1305 99 1305 1305 1305 1305 df (den) 1306 1306 1306	3.02 105.32 3.54 8.78 0.42 11.91 F 0.27 30.24 2.43	0.0823 <.0001 0.0601 0.0031 0.5146 0.0006 Pr > F 0.6015 <.0001 0.1192	Cohort * episode Time Cohort * time Episode * time Cohort * episode * time eBAC Effect Cohort ^a Episode ^b Cohort * episode	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1442 118 1442 1442 1442 1442 1442 df (den) 1442 1442 1442	0.03 62.52 0.13 2.53 0.18 65.93 F 5.07 37.95 0.53	0.8706 <.0001 0.7139 0.1118 0.6715 <.0001 Pr > F 0.0246 <.0001 0.4659
Cohort * episode Time Cohort * time Episode * time cohort * episode * time eBAC Like Effect Cohort ^a Episode ^b Cohort * episode Time	1 1 1 1 1 1 1 (num) 1 1 1 1 1 1	1305 99 1305 1305 1305 1305 df (den) 1306 1306 1306 99	3.02 105.32 3.54 8.78 0.42 11.91 F 0.27 30.24 2.43 26.19	0.0823 <.0001 0.0601 0.01 0.5146 0.0006 Pr > F 0.6015 <.0001 0.1192 <.0001	Cohort * episode Time Cohort * time Episode * time Cohort * episode * time eBAC Effect Cohort ^a Episode ^b Cohort * episode Time	1 1	1442 118 1442 1442 1442 1442 1442 1442 1	0.03 62.52 0.13 2.53 0.18 65.93 F 5.07 37.95 0.53 7.15	0.8706 <.0001 0.7139 0.1118 0.6715 <.0001 Pr > F 0.0246 <.0001 0.4659 0.0086
Cohort * episode Time Cohort * time Episode * time eBAC Like Effect Cohort ^a Episode ^b Cohort * episode Time Cohort * time	1 1 1 1 1 1 1 (num) 1 1 1 1 1 1 1	1305 99 1305 1305 1305 1305 df (den) 1306 1306 1306 99 1306	3.02 105.32 3.54 8.78 0.42 11.91 F 0.27 30.24 2.43 26.19 0.90	0.0823 <.0001 0.0601 0.5146 0.0006 Pr > F 0.6015 <.0001 0.1192 <.0001 0.3431	Cohort * episode Time Cohort * time Episode * time Cohort * episode * time eBAC Effect Cohort ^a Episode ^b Cohort * episode Time Cohort * time	1 1 1 1 1 1 1 1 df (num) 1 1 1 1 1 1 1 1	1442 118 1442 1442 1442 1442 1442 df (den) 1442 1442 1442 1442 118 1442	0.03 62.52 0.13 2.53 0.18 65.93 F 5.07 37.95 0.53 7.15 0.01	0.8706 <.0001 0.7139 0.1118 0.6715 <.0001 Pr > F 0.0246 <.0001 0.4659 0.0086 0.9192
Cohort * episode Time Cohort * time Episode * time eBAC Like Effect Cohort ^a Episode ^b Cohort * episode Time Cohort * time Episode * time	1 1 1 1 1 1 1 df (num) 1 1 1 1 1 1 1 1	1305 99 1305 1305 1305 1305 df (den) 1306 1306 1306 1306 1306 1306	3.02 105.32 3.54 8.78 0.42 11.91 F 0.27 30.24 2.43 26.19 0.90 1.10	0.0823 <.0001 0.0601 0.0031 0.5146 0.0006 Pr > F 0.6015 <.0001 0.1192 <.0001 0.3431 0.2947	Cohort * episode Time Cohort * time Episode * time cohort * episode * time eBAC Effect Cohort ^a Episode ^b Cohort * episode Time Cohort * time Episode * time	1 1	1442 118 1442 1442 1442 1442 1442 1442 1	0.03 62.52 0.13 2.53 0.18 65.93 F 5.07 37.95 0.53 7.15 0.01 14.96	0.8706 <.0001 0.7139 0.1118 0.6715 <.0001 Pr > F 0.0246 <.0001 0.4659 0.0086 0.9192 0.0001
Cohort * episode Time Cohort * time Episode * time cOhort * episode * time eBAC Like Effect Cohort ^a Episode ^b Cohort * episode Time Cohort * time Episode * time Cohort * episode * time	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1305 99 1305 1305 1305 1305 df (den) 1306 1306 1306 1306 1306 1306	3.02 105.32 3.54 8.78 0.42 11.91 F 0.27 30.24 2.43 26.19 0.90 1.10 2.28	0.0823 <.0001 0.0601 0.0031 0.5146 0.0006 Pr > F 0.6015 <.0001 0.1192 <.0001 0.3431 0.2947 0.1316	Cohort * episode Time Cohort * time Episode * time cohort * episode * time eBAC Effect Cohort ^a Episode ^b Cohort * episode Time Cohort * time Episode * time Cohort * time Episode * time	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1442 118 1442 1442 1442 1442 1442 1442 1	0.03 62.52 0.13 2.53 0.18 65.93 F 5.07 37.95 0.53 7.15 0.01 14.96 6.18	0.8706 <.0001 0.7139 0.1118 0.6715 <.0001 Pr > F 0.0246 <.0001 0.4659 0.0086 0.9192 0.0001 0.0130
Cohort * episode Time Cohort * time Episode * time eBAC Like Effect Cohort ^a Episode ^b Cohort * episode Time Cohort * time Episode * time	1 1 1 1 1 1 1 df (num) 1 1 1 1 1 1 1 1	1305 99 1305 1305 1305 1305 df (den) 1306 1306 1306 1306 1306 1306	3.02 105.32 3.54 8.78 0.42 11.91 F 0.27 30.24 2.43 26.19 0.90 1.10	0.0823 <.0001 0.0601 0.0031 0.5146 0.0006 Pr > F 0.6015 <.0001 0.1192 <.0001 0.3431 0.2947	Cohort * episode Time Cohort * time Episode * time cohort * episode * time eBAC Effect Cohort ^a Episode ^b Cohort * episode Time Cohort * time Episode * time	1 1	1442 118 1442 1442 1442 1442 1442 1442 1	0.03 62.52 0.13 2.53 0.18 65.93 F 5.07 37.95 0.53 7.15 0.01 14.96	0.8706 <.0001 0.7139 0.1118 0.6715 <.0001 Pr > F 0.0246 <.0001 0.4659 0.0086 0.9192 0.0001

AUD-

AUD+

AU	D D				1	NUD			
Negative Affect									
	df	df				df	df		
Effect	(num)	(den)	F	Pr > F	Effect	(num)	(den)	F	Pr > F
Baseline negative affect ^c	1	1305	546.85	<.0001	Baseline negative affect ^c	1	1442	293.43	<.0001
Cohort ^a	1	1305	5.35	0.0209	Cohort ^a	1	1442	4.48	0.0345
Episode ^b	1	1305	19.47	<.0001	Episode ^b	1	1442	63.24	<.0001
Cohort * episode	1	1305	3.02	0.0825	Cohort * episode	1	1442	1.20	0.2743
Time	1	99	0.03	0.8611	Time	1	118	2.43	0.1218
Cohort * time	1	1305	2.28	0.1317	Cohort * time	1	1442	0.07	0.7955
Episode * time	1	1305	7.72	0.0055	Episode * time	1	1442	1.26	0.2612
Cohort * episode * time	1	1305	0.03	0.8638	Cohort * episode * time	1	1442	1.27	0.2603
eBAC	1	1305	3.32	0.0689	eBAC	1	1442	8.13	0.0044
Want More									
	df	df				df	df		
Effect	(num)	(den)	F	Pr > F	Effect	(num)	(den)	F	Pr > F
Cohort ^a	1	1306	0.63	0.4284	Cohort ^a	1	1443	4.43	0.0354
Episode ^b	1	1306	35.81	<.0001	Episode ^b	1	1443	178.00	<.0001
Cohort * episode	1	1306	3.12	0.0775	Cohort * episode	1	1443	0.03	0.8645
Time	1	99	153.98	<.0001	Time	1	118	86.13	<.0001
Cohort * time	1	1306	2.17	0.1408	Cohort * time	1	1443	1.41	0.2345
Episode * time	1	1306	25.89	<.0001	Episode * time	1	1443	5.90	0.0152
Cohort * episode * time	1	1306	3.62	0.0575	Cohort * episode * time	1	1443	0.19	0.6607
eBAC	1	1306	5.35	0.0209	eBAC	1	1443	40.91	<.0001
Sedation									
	df	df				df	df		
Effect	(num)	(den)	F	Pr > F	Effect	(num)	(den)	F	Pr > F
Baseline sedation ^c	1	1305	66.73	<.0001	Baseline sedation ^c	1	1442	194.00	<.0001
Cohort ^a	1	1305	10.46	0.0012	Cohort ^a	1	1442	2.63	0.1049
Episode ^b	1	1305	0.15	0.6941	Episode ^b	1	1442	0.06	0.8138
Cohort * episode	1	1305	0.66	0.4169	Cohort * episode	1	1442	1.53	0.2162
Time	1	99	56.31	<.0001	Time	1	118	46.62	<.0001
Cohort * time	1	1305	8.36	0.0039	Cohort * time	1	1442	0.01	0.9417
Episode * time	1	1305	16.77	<.0001	Episode * time	1	1442	7.00	0.0082
Cohort * episode * time	1	1305	0.83	0.3638	Cohort * episode * time	1	1442	1.00	0.3183
eBAC	1	1305	3.97	0.0464	eBAC	1	1442	9.08	0.002

^aCoded as 1 (comorbid depressive disorder present; DEP+) or 0 (comorbid depressive disorder absent, DEP-).

^bCoded as 1 (alcohol-drinking episode) or 0 (non-alcohol drinking episode).

^cAssessed at the baseline time assessment prior to starting the episode. AUD = Alcohol use disorder; eBAC = estimated blood alcohol concentration.

Supplemental Table 2: Post-Hoc comparisons and P-values

AUD -

AUD +

eBAC			
Comparison	P-Value	Comparison	P-Value
slope: drinking early vs late	0.9418	slope: drinking early vs late	0.0557
slope: drinking early vs non-drinking early	<.0001	slope: drinking early vs non-drinking early	0.9999
slope: drinking early vs non-drinking late	<.0001	slope: drinking early vs non-drinking late	<.0001
slope: drinking late vs non-drinking late	<.0001	slope: drinking late vs non-drinking late	<.0001
slope: drinking late vs non-drinking early	<.0001	slope: drinking late vs non-drinking early	<.0001
slope: non-drinking late vs non-drinking early	0.3521	slope: non-drinking late vs non-drinking early	<.0001
difference in episodes at timehour=0	<.0001	difference in episodes at timehour=0	0.0404
difference in episodes at timehour=0.15	<.0001	difference in episodes at timehour=0.15	<.0001
difference in episodes at timehour=0.5	<.0001	difference in episodes at timehour=0.5	<.0001
difference in episodes at timehour=1	<.0001	difference in episodes at timehour=1	<.0001
difference in episodes at timehour=1.5	<.0001	difference in episodes at timehour=1.5	<.0001
difference in episodes at timehour=2	<.0001	difference in episodes at timehour=2	<.0001
difference in episodes at timehour=2.5	<.0001	difference in episodes at timehour=2.5	<.0001
difference in episodes at timehour=3	<.0001	difference in episodes at timehour=3	<.0001
Feel	1		1
Comparison	P-Value	Comparison	P-Value
slope: drinking early vs late	0.0177	slope: drinking early vs late	<.0001
slope: drinking early vs non-drinking early	<.0001	slope: drinking early vs non-drinking early	<.0001
slope: drinking early vs non-drinking late	0.0079	slope: drinking early vs non-drinking late	<.0001
slope: drinking late vs non-drinking late	0.4673	slope: drinking late vs non-drinking late	0.0653
slope: drinking late vs non-drinking early	1.0000	slope: drinking late vs non-drinking early	0.1003
slope: non-drinking late vs non-drinking early	0.5638	slope: non-drinking late vs non-drinking early	0.9801
difference in episodes at timehour=0	0.5229	difference in episodes at timehour=0	0.1942
difference in episodes at timehour=0.15	0.7025	difference in episodes at timehour=0.15	0.4963
difference in episodes at timehour=0.5	0.6995	difference in episodes at timehour=0.5	0.2532
difference in episodes at timehour=1	0.0383	difference in episodes at timehour=1	<.0001
difference in episodes at timehour=1.5	<.0001	difference in episodes at timehour=1.5	<.0001
difference in episodes at timehour=2	<.0001	difference in episodes at timehour=2	<.0001
	< 0001	difference in episodes at timehour=2.5	<.0001
difference in episodes at timehour=2.5	<.0001	difference in episodes at timenour-2.5	<.0001

P-values adjusted for multiple comparisons using Tukey-Kramer method Early: 0-2 hours; Late: 2.5-3 hours

AUD -		AUD +	
Stimulation			
Comparison	P-Value	Comparison	P-Value
slope: drinking early vs drinking late	0.9415	slope: drinking early vs drinking late	0.2437
slope: drinking early vs non-drinking early	0.0112	slope: drinking early vs non-drinking early	<.0001
slope: drinking early vs non-drinking late	0.9652	slope: drinking early vs non-drinking late	<.0001
slope: drinking late vs non-drinking late	0.4893	slope: drinking late vs non-drinking late	0.0024
slope: drinking late vs non-drinking early	0.9996	slope: drinking late vs non-drinking early	0.02
slope: non-drinking late vs non-drinking early	0.4735	slope: non-drinking late vs non-drinking early	0.9998
difference in episodes at timehour=0	0.2316	difference in episodes at timehour=0	0.0001
difference in episodes at timehour=0.15	0.22	difference in episodes at timehour=0.15	<.0001
difference in episodes at timehour=0.5	0.1916	difference in episodes at timehour=0.5	<.0001
difference in episodes at timehour=1	0.1559	difference in episodes at timehour=1	<.0001
difference in episodes at timehour=1.5	0.1611	difference in episodes at timehour=1.5	<.0001
difference in episodes at timehour=2	0.2971	difference in episodes at timehour=2	<.0001
difference in episodes at timehour=2.5	0.5749	difference in episodes at timehour=2.5	<.0001
difference in episodes at timehour=3	0.8273	difference in episodes at timehour=3	0.0002
Like	-		
Comparison	P-Value	Comparison	P-Value
slope: drinking early vs drinking late	0.6617	slope: drinking early vs drinking late	0.2966
slope: drinking early vs non-drinking early	<.0001	slope: drinking early vs non-drinking early	<.0001
slope: drinking early vs non-drinking late	0.0963	slope: drinking early vs non-drinking late	<.0001
slope: drinking late vs non-drinking late	<.0001	slope: drinking late vs non-drinking late	<.0001
slope: drinking late vs non-drinking early	0.8224	slope: drinking late vs non-drinking early	0.0182
slope: non-drinking late vs non-drinking early	0.0153	slope: non-drinking late vs non-drinking early	0.4933
difference in episodes at timehour=0	0.5764	difference in episodes at timehour=0	0.1236
difference in episodes at timehour=0.15	0.3954	difference in episodes at timehour=0.15	0.0451
difference in episodes at timehour=0.5	0.0875	difference in episodes at timehour=0.5	0.0009
difference in episodes at timehour=1	0.0004	difference in episodes at timehour=1	<.0001
difference in episodes at timehour=1.5	<.0001	difference in episodes at timehour=1.5	<.0001
difference in episodes at timehour=2	<.0001	difference in episodes at timehour=2	<.0001
difference in episodes at timehour=2.5	<.0001	difference in episodes at timehour=2.5	<.0001
difference in episodes at timehour=3	<.0001	difference in episodes at timehour=3	<.0001

P-values adjusted for multiple comparisons using Tukey-Kramer method Early: 0-2 hours; Late: 2.5-3 hours

AUD -		AUD +	
Negative Affect			
Comparison	P-Value	Comparison	P-Value
slope: drinking early vs drinking late	<.0001	slope: drinking early vs drinking late	0.7809
slope: drinking early vs non-drinking early	<.0001	slope: drinking early vs non-drinking early	0.0178
slope: drinking early vs non-drinking late	<.0001	slope: drinking early vs non-drinking late	0.4691
slope: drinking late vs non-drinking late	0.0003	slope: drinking late vs non-drinking late	0.7983
slope: drinking late vs non-drinking early	0.9998	slope: drinking late vs non-drinking early	0.9848
slope: non-drinking late vs non-drinking early	<.0001	slope: non-drinking late vs non-drinking early	0.9726
difference in episodes at timehour=0	<.0001	difference in episodes at timehour=0	0.1169
difference in episodes at timehour=0.15	<.0001	difference in episodes at timehour=0.15	0.109
difference in episodes at timehour=0.5	<.0001	difference in episodes at timehour=0.5	0.0907
difference in episodes at timehour=1	<.0001	difference in episodes at timehour=1	0.0705
difference in episodes at timehour=1.5	<.0001	difference in episodes at timehour=1.5	0.0815
difference in episodes at timehour=2	<.0001	difference in episodes at timehour=2	0.2147
difference in episodes at timehour=2.5	<.0001	difference in episodes at timehour=2.5	0.5438
difference in episodes at timehour=3	<.0001	difference in episodes at timehour=3	0.8673

P-values adjusted for multiple comparisons using Tukey-Kramer method Early: 0-2 hours; Late: 2.5-3 hours

AUD -		AUD +	
Want More			
Comparison	P-Value	Comparison	P-Value
slope: drinking early vs drinking late	0.8937	slope: drinking early vs drinking late	0.0183
slope: drinking early vs non-drinking early	0.0526	slope: drinking early vs non-drinking early	<.0001
slope: drinking early vs non-drinking late	0.9784	slope: drinking early vs non-drinking late	<.0001
slope: drinking late vs non-drinking late	0.0711	slope: drinking late vs non-drinking late	<.0001
slope: drinking late vs non-drinking early	0.7912	slope: drinking late vs non-drinking early	0.0128
slope: non-drinking late vs non-drinking early	0.6415	slope: non-drinking late vs non-drinking early	0.3059
difference in episodes at timehour=0	0.0031	difference in episodes at timehour=0	<.0001
difference in episodes at timehour=0.15	0.0032	difference in episodes at timehour=0.15	<.0001
difference in episodes at timehour=0.5	0.004	difference in episodes at timehour=0.5	<.0001
difference in episodes at timehour=1	0.0094	difference in episodes at timehour=1	<.0001
difference in episodes at timehour=1.5	0.0764	difference in episodes at timehour=1.5	<.0001
difference in episodes at timehour=2	0.7417	difference in episodes at timehour=2	<.0001
difference in episodes at timehour=2.5	0.3801	difference in episodes at timehour=2.5	<.0001
difference in episodes at timehour=3	0.1217	difference in episodes at timehour=3	<.0001
Sedation			
Comparison	P-Value	Comparison	P-Value
slope: drinking early vs drinking late	1.0000	slope: drinking early vs drinking late	1.0000
slope: drinking early vs non-drinking early	0.0847	slope: drinking early vs non-drinking early	0.0847
slope: drinking early vs non-drinking late	0.9995	slope: drinking early vs non-drinking late	0.9995
slope: drinking late vs non-drinking late	0.3173	slope: drinking late vs non-drinking late	0.3173
slope: drinking late vs non-drinking early	0.9992	slope: drinking late vs non-drinking early	0.9992
slope: non-drinking late vs non-drinking early	0.4358	slope: non-drinking late vs non-drinking early	0.4358
difference in episodes at timehour=0	0.3335	difference in episodes at timehour=0	0.3335
difference in episodes at timehour=0.15	0.4125	difference in episodes at timehour=0.15	0.4125
difference in episodes at timehour=0.5	0.7075	difference in episodes at timehour=0.5	0.7075
difference in episodes at timehour=1	0.5670	difference in episodes at timehour=1	0.5670
difference in episodes at timehour=1.5	0.0754	difference in episodes at timehour=1.5	0.0754
difference in episodes at timehour=2	0.0077	difference in episodes at timehour=2	0.0077
difference in episodes at timehour=2.5	0.0027	difference in episodes at timehour=2.5	0.0027
difference in episodes at timehour=3	0.0022	difference in episodes at timehour=3	0.0022

P-values adjusted for multiple comparisons using Tukey-Kramer method Early: 0-2 hours; Late: 2.5-3 hours

Supplemental Table 3

	Mild N=		Moderate-S N=		Significance
	Ν	%	Ν	%	
Sex assigned at birth (male)	28	51.9	42	63.6	ns
Race (white)	43	79.6	50	75.8	ns
Family history of AUD	22	40.7	33	50.0	ns
	Mean	SD	Mean	SD	
Age (years)	26.8	4.1	26.7	4.6	ns
Education (years)	16.2	1.9	15.4	1.7	<i>p</i> <0.05
DSM-5 AUD symptoms	2.5	0.5	5.7	1.7	<i>p</i> <0.001
AUDIT	13.6	4.4	18.7	5.1	<i>p</i> <0.001
Age of first drink (years)	16.3	2.2	15.7	2.3	ns
Drinks per drinking day ¹	4.4	2.1	7.2	2.5	<i>p</i> <0.001
Drinks per week ¹	16.0	6.0	34.3	14.1	<i>p</i> <0.001
% Drinking days	55.8	4.6	69.5	4.6	<i>p</i> <0.001
% Heavy drinking days ²	22.6	2.7	52.9	4.9	<i>p</i> <0.001
% High intensity days ³	5.0	2.3	21.0	5.5	<i>p</i> <0.001

Demographics and drinking characteristics in AUD+: Mild vs. moderate-severe AUD

<u>Note</u>. ¹In standard drink units (14g ethanol per drink); ² Heavy drinking defined as consuming \geq 4 standard drinks for a woman (\geq 5 standard drinks for a man); ³ High intensity drinking defined as consuming \geq 8 standard drinks for a woman (\geq 10 standard drinks for a man). AUD = alcohol use disorder; DEP = depressive disorder; DSM-5 = Diagnostic and Statistical Manual of Mental Disorders, Fifth Edition; AUDIT = Alcohol Use Disorder Identification Test.

Supplemental Analysis

The following analyses results are from exploratory mixed linear models in AUD+ that assessed the effects of AUD subgroup (mild vs. moderate-severe), episode (alcohol, non-alcohol), time, and their interactions, covarying for baseline score (when available) and eBAC.

Stimulation				
Effect	Num DF	Den DF	F Value	Pr > F
baseline score	1	1443	133.51	<.0001
ebac	1	1443	55.61	<.0001
group	1	1443	0.08	0.7813
episode	1	1443	83.87	<.0001
group*episode	1	1443	0.23	0.6294
time	1	118	61.81	<.0001
group*time	1	1443	4.12	0.0425
episode*time	1	1443	2.68	0.1016
group*episode*time	1	1443	10.26	0.0014

Wanting More

Effect	Num DF	Den DF	F Value	Pr > F
ebac	1	1444	33.53	<.0001
group	1	1444	1.48	0.2234
episode	1	1444	181.85	<.0001
group*episode	1	1444	5.05	0.0248
time	1	118	85.49	<.0001
group*time	1	1444	3.77	0.0523
episode*time	1	1444	4.85	0.0277
group*episode*time	1	1444	0.09	0.7636

Liking				
Effect	Num DF	Den DF	F Value	Pr > F
ebac	1	1443	64.2	<.0001
group	1	1443	0.01	0.924
episode	1	1443	39.3	<.0001
group*episode	1	1443	0.34	0.562
time	1	118	6.01	0.0157
group*time	1	1443	0	0.997
episode*time	1	1443	13.57	0.0002
group*episode*time	1	1443	1	0.3175

Negative Affect

Effect	Num DF	Den DF	F Value	Pr > F
baseline score	1	1443	294.56	<.0001
ebac	1	1443	6.33	0.012
group	1	1443	0.31	0.5803
episode	1	1443	69.43	<.0001
group*episode	1	1443	0.07	0.7909
time	1	118	2.91	0.0908
group*time	1	1443	1.78	0.1824
episode*time	1	1443	1.37	0.2428
group*episode*time	1	1443	0.01	0.9374

Sedation

Effect	Num DF	Den DF	F Value	Pr > F
baseline score	1	1443	211.6	<.0001
ebac	1	1443	10.19	0.0014
group	1	1443	1.29	0.2557
episode	1	1443	0.06	0.8134
group*episode	1	1443	0	0.9632
time	1	118	52.49	<.0001
group*time	1	1443	4.72	0.0301
episode*time	1	1443	8.34	0.0039
group*episode*time	1	1443	0.54	0.4619