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SUPPLEMENTARY MATERIALS

Supplementary Table 1. Zero-order correlation matrix between covariates and cannabis involvement variables.

	1	2	3	4	5	6	7	8	9	10	11
1. Sex	_										
2. Age	.214**	_									
3. Income	.004	.266**	_								
4. Education	.041	.091**	.388**	_							
5. Tobacco Use	145**	.007	187**	326**	_						
6. Alcohol Use	.205**	.054	075	118**	064*	_					
7. DZ Twin	.086*	.058	.007	.023	.015	006	_				
8. MZ Twin	.046	.074*	.054	.007	037	.039	246**	_			
9. UDS THC+	141**	085**	246**	288**	.325**	100**	022	090*	_		
10. CUD+	182**	022	089*	112**	.228**	128**	015	027	.271**	_	
11. Cannabis AFU	127**	001	099**	145**	.298**	215**	016	061	.329**	.409**	_
12. Lifetime Cannabis Use	194**	012	156**	169**	.353**	269**	.008	067	.502**	.556**	.800**

Notes: DZ Twin = dizygotic twin status; MZ Twin = monozygotic twin status; UDS = Urine Drug Screen; THC = tetrahydrocannabinol; CUD = Cannabis Use Disorder; AFU = age of first use; SPCPT. * Correlation is significant at the .005 level (2-tailed); ** Correlation is significant at the .001 level (2-tailed)

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Supplemental Table 2. Hierarchical regressions comprising covariate model (Sex, Age, Income, Education, Tobacco Use, Alcohol Use, DZ Twin, MZ Twin) and cannabis involvement variables (UDS THC, CUD and cannabis AFU).

Neuropayahalagigal Magt	Covariate	_	Cannabis	_	
Neuropsychological Test	Model R ²	p	Involvement ΔR^2	P	
Word Memory Test	.050	<.001*	.003	.383	
Flanker Task	.031	<.001*	.008	.020	
Card Sorting Task	.032	<.001*	.003	.403	
SPCPT	.049	<.001*	.005	.115	
Progressive Matrices	.141	<.001*	.012	.001*	
Delay Discounting	.063	<.001*	.003	.316	
Picture Sequence Task	.070	<.001*	.010	.005*	
Pattern Completion	.033	<.001*	.016	<.001*	
List Sorting Task	.067	<.001*	.006	.061	
9-hole Pegboard	.104	<.001*	.005	.098	

Note: DZ Twin = dizygotic twin status; MZ Twin = monozygotic twin status; UDS = Urine Drug Screen; THC = tetrahydrocannabinol; CUD = Cannabis Use Disorder; AFU = age of first use; * Significant at the p < .005 level.

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Supplemental Table 3. Individual hierarchical regressions of covariates and cannabis involvement variables in relation to neuropsychological performance for regression models significant at the p < .005 level.

		Progr	essive	Pic	ture	Processing		
Model	Variables	Mat	rices	Seq	uence	Speed		
		β	р	β	р	β	р	
	Gender	.145	<.001*	.147	<.001*	.019	.540	
	Age	.083	.005*	037	.229	041	.185	
Covariate	Income	065	.037	.069	.034	.060	.070	
Model	Education	258	<.001*	.173	<.001*	.070	.037	
	Tobacco	.092	.003*	.018	.567	.002	.952	
	Alcohol	.035	.235	016	.594	055	.072	
	DZ Twin	009	.751	.035	.239	.075	.014	
	MZ Twin	011	.687	001	.962	.052	.088	
Cannabis	UDS THC+	.064	.042	113	<.001*	126	<.001*	
Involvement	Cannabis AFU	.059	.063	.030	.366	035	.295	
	CUD+	105	.001*	.034	.282	.064	.050	

Notes: DZ Twin = dizygotic twin status; MZwin = monozygotic twin status; UDS = Urine Drug Screen; THC = tetrahydrocannabinol; AFU = age of first use; CUD = Cannabis Use Disorder; *Significant at the p < .005 level.

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Online appendices are unedit@enadeposted as stables by the authbenal								Males		Females		Males	
Model	Variables	Progressive Matrices		Progressive Matrices		Picture Sequence		Picture Sequence		Pattern Completion		Pattern Completion	
		β	P	β	р	β	р	β	p	β	р	β	p
Covariate	Age	.037	.347	.098	.030	035	.408	037	.431	.028	.506	070	.132
Model	Income	076	.077	048	.318	.125	.006	.005	.913	.085	.066	.044	.372
	Education	329	<.001	192	<.001	.227	<.001	.120	.017	.075	.105	.058	.248
	Tobacco	.103	.012	.083	.082	.036	.404	001	.990	.038	.388	020	.678
	Alcohol	.076	.058	004	.923	.028	.498	051	.257	139	.001	.007	.884
	DZ Twin	.029	.461	050	.246	.018	.672	.040	.372	.002	.960	.129	.004
	MZ Twin	.042	.289	069	.107	048	.323	018	.689	.008	.850	.091	.040
Cannabis	UDS THC+	.013	.774	.080	.111	048	.458	183	<.001	130	.008	105	.042
Involvement	Lifetime Use	.032	.529	.097	.106	.040	.458	.010	.865	.003	.959	064	.298
	CUD+	142	.001	113	.031	.056	.211	.032	.550	.096	.035	.065	.225

Supplementary Table 4. Sex-stratified individual hierarchical regressions of covariates and cannabis involvement variables in relation to neuropsychological performance.

Note: DZ Twin = dizygotic twin status; MZ Twin = monozygotic twin status; UDS = Urine Drug Screen; THC = tetrahydrocannabinol; CUD = Cannabis Use Disorder