

Supplementary Materials for Impaired Mnemonic Pattern Separation Associated with PTSD Symptoms Paradoxically Improves with Regular Cannabis Use

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Supplementary Tables

Supplemental Table 1. General linear model in the larger ($n=79$) sample subset only

Omnibus Model			
	F-value	p-value	η_p^2
PTSD Severity	0.06	0.81	0.001
Cannabis Group	1.03	0.31	0.013
PTSD x Cannabis	11.32	0.001	0.130
Simple Effects			
	β	t-value	p-value
Minimal Cannabis Users	-0.343	-2.40	0.019
Regular Cannabis Users	0.396	2.37	0.020

Note. Analyses conducted on the larger sample subset recruited for this study ($n=79$ after removal of outliers and missing data (see Methods section in Main Report)).

Supplemental Table 2. PCL-5 Reexperiencing x Cannabis Group General linear model

Omnibus Model			
	F-value	p-value	η_p^2
PCL-Re-experiencing	0.02	0.88	<0.001
Cannabis Group	0.10	0.76	0.001
PCL-Re-experiencing x Cannabis	13.63	<0.001	0.113
Simple Effects of PCL-Re-experiencing			
	β	t-value	p-value
Minimal Cannabis Users	-0.361	-3.11	0.002
Regular Cannabis Users	0.333	2.25	0.026

Note. PCL=PTSD Symptom Checklist.

Supplemental Table 3. PCL-5 Avoidance x Cannabis Group General linear model

Omnibus Model			
	F-value	p-value	η_p^2
PCL-Avoidance	0.10	0.76	0.001
Cannabis Group	0.15	0.70	0.001
PCL-Avoidance x Cannabis	12.57	<0.001	0.105
Simple Effects of PCL-Avoidance			
	β	t-value	p-value
Minimal Cannabis Users	-0.309	-2.66	0.009
Regular Cannabis Users	0.370	2.43	0.017

Note. PCL=PTSD Symptom Checklist.

SUPPLEMENTARY TABLES CONTINUED

Supplemental Table 4. PCL-5 Negative Cognition and Mood x Cannabis Group General linear model

Omnibus Model			
	F-value	p-value	η_p^2
PCL-Negative Cognition & Mood	0.07	0.79	0.001
Cannabis Group	0.11	0.74	0.001
PCL-Negative Cog/Mood x Cannabis	11.38	0.001	0.096
Simple Effects of PCL-Negative Cognition & Mood			
	β	t-value	p-value
Minimal Cannabis Users	-0.348	-2.87	0.005
Regular Cannabis Users	0.297	2.01	0.047

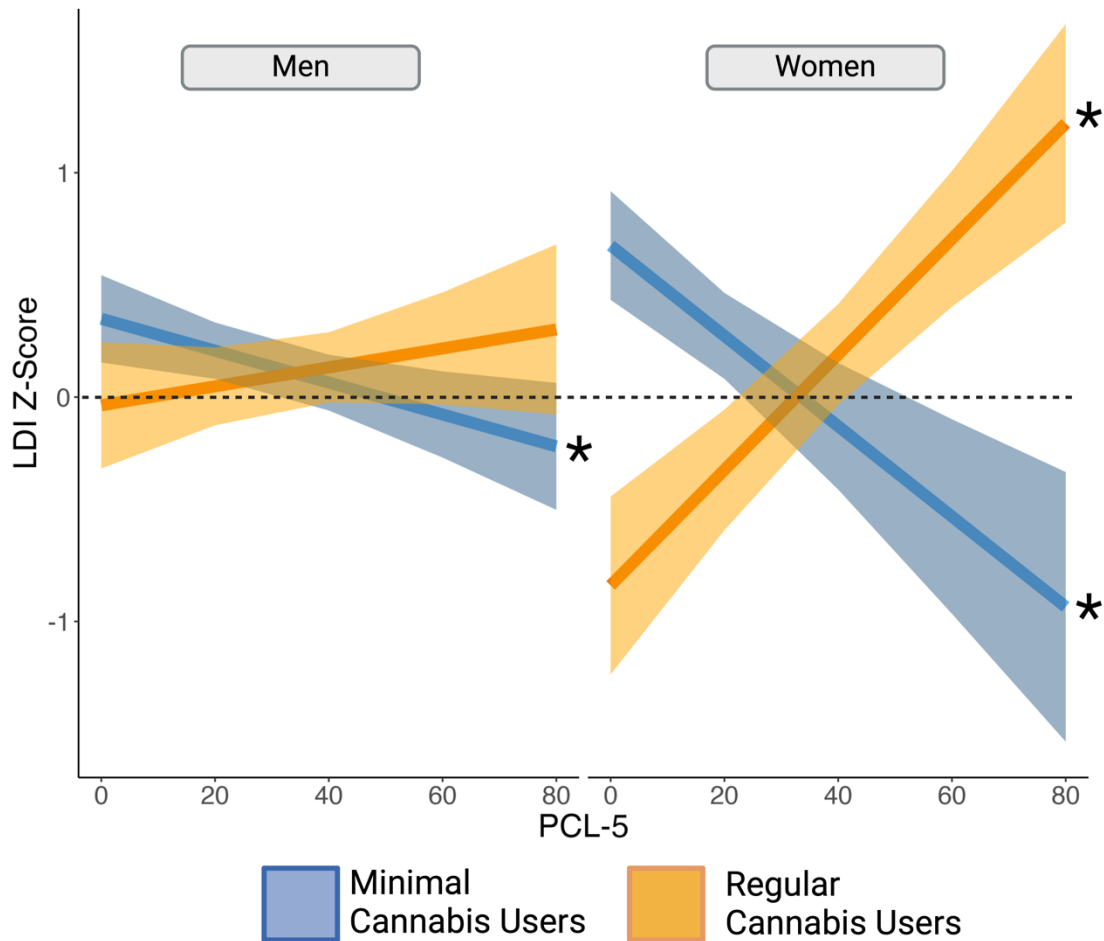
Note. PCL=PTSD Symptom Checklist.

Supplemental Table 5. PCL-5 Hyperarousal x Cannabis Group General linear model

Omnibus Model			
	F-value	p-value	η_p^2
PCL-Hyperarousal	0.01	0.92	<0.001
Cannabis Group	0.07	0.79	0.001
PCL- Hyperarousal x Cannabis	8.08	0.005	0.070
Simple Effects of PCL-Hyperarousal			
	β	t-value	p-value
Minimal Cannabis Users	-0.291	-2.56	0.012
Regular Cannabis Users	0.271	1.68	0.097

Note. PCL=PTSD Symptom Checklist.

SUPPLEMENTARY FIGURES

**Supplemental Figure 1.**

Mnemonic pattern separation performance as a function of PTSD symptom severity and Sex in individuals who minimally use cannabis and in individuals with regular cannabis use. *Note.* LDI Z-Score = Lure discrimination index Z-scored; which measures mnemonic pattern separation performance. LDI was Z-scored within sample cohort (see Method). PCL-5 = PTSD Symptom Checklist for DSM-5. * Simple slope effects: $p < .05$. Ribbon reflects standard error of the mean. See online article for the color version of this figure. Figure was created using R (*ggplot2*) and BioRender.com.