<u>**Cannabis Use Disorders Identification-Revised Test (CUDIT-R)**</u>
Study Year 28
Fast Track Project Technical Report
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Citation

Instrument

> Adamson, S. J., Kay-Lambkin, F. J., Baker, A. L., Lewin, T. J., Thornton, L., Kelly, B. J., & Sellman, J. D. (2010). An improved brief measure of cannabis misuse: The Cannabis Use Disorders Identification Test-Revised (CUDIT-R). Drug & Alcohol Dependence, 110(1), 137-143. doi: 10.1016/j.drugalcdep.2010.02.017

Report

> Lu, A. and McCabe, G. (2022). Cannabis Use Disorders Identification Test-Revised (Fast Track Project Technical Report). Available from the Fast Track Project website: http://www.fast track project.org

Measure Description

The Cannabis Use Disorders Identification Test-Revised (CUDIT-R) is brief 8-item (c28dr02- c28dr09) measure that identifies individuals with problematic cannabis use within the preceding six months. It assesses consumption, abuse, dependence, and psychological features. The CUDIT-R is a modification of the Alcohol Use Disorders Identification Test (AUDIT; Saunders et al., 1993). The CUDIT-R total score has demonstrated high internal consistency (α = .91; Adamson et al., 2010).

In addition to the screener item for CUDIT-R that assesses whether the respondent used cannabis in the last 6 months (c28dr01), our version of this measure includes 3 additional items: one capturing the frequency of use in the past 12 months (c28dr00), another capturing an expanded version an original CUDIT-R item capturing hours stoned in the last 6 months with an option for not using in the past 6 months (c28dr03a), and finally an item capturing number of times the respondent used cannabis in the past 30 days (c28dr10).

Report Sample

This report provides descriptive statistics for the cohort 1 normative sample (original n=387). In addition, this report compares the means and frequencies for two additional samples: the high-risk control sample from cohort 1 (n=155) and the non-high-risk normative sample from cohort 1 (n=308). The non-high-risk normative sample excludes the high-risk normative participants who are also a part of the high-risk control sample (n=79). In year 28, 288 cohort 1 normative participants, 104 high-risk control cohort 1 participants and 234 non-high-risk normative participants completed at least part of the survey. The CUDIT measure was completed by 278 normative participants, 103 high-risk control participants, and 225 non-high-risk normative participants in year 28.

Scaling

The CUDIT-R measure contains items from four domains: consumption *(n = 2;* c28dr02 and c28dr03), cannabis problems (abuse) *(n = 2;* c28dr05 and c28dr08), dependence *(n = 2;* c28dr04 and c28dr06), and psychological features *(n = 2;* c28dr07 and c28dr09). Items are scored on a five-point scale from 0 to 4, with higher scores indicating greater cannabis use harm.

c28dr00	In the past 12 months, how frequently have you used cannabis?
c28dr01	Have you used any cannabis in the past 6 months?
c28dr02	Over the past six months, how often did you use cannabis?
c28dr03	How many hours were you "stoned" on a typical day when you had been using cannabis? 0=less than 1 hour – 4=7+hours
c28dr03a	How many hours were you "stoned" on a typical day when you had been using cannabis? 0=did not use in the past 6 months, 5=7+ hours

c28dr04	How often during the past 6 months were you not able to stop using cannabis once you had started?
c28dr05	How often during the past 6 months did you fail to do what was normally expected of you because of using cannabis?
c28dr06	How often during the past 6 months have you devoted a great deal of your time to getting, using, or recovering from cannabis?
c28dr07	How often during the past 6 months have you had a problem with your memory or concentration after using cannabis?
c28dr08	How often during the past 6 months did you use cannabis in situations that could be physically hazardous?
c28dr09	Have you ever thought about cutting down, or stopping, your use of cannabis?
c28dr10	During the past 30 days, how many times did you use cannabis/marijuana?

To decrease the survey completion time, the CUDIT-R measure was skipped if a participant reported never using cannabis in the past 12 months. For these participants, CUDIT items c28dr01- c28dr08 and c28dr10 were recoded to 0 to reflect the fact that they did not use cannabis in the past 6 months. Item c28dr09 was coded as missing because the response options included "Yes, but not in the last 6 months."

A total sum score was created by summing across the original 8 items (cud28tot; c28dr02-09). CUDIT-R total scores have demonstrated high internal consistency ($\alpha = 0.67$). Two additional dichotomous scales were created from the total sum score. Hazardous Cannabis Use Indicator (cud28haz) is coded 1 if the total sum score is greater than or equal to 8 (0 otherwise). Possible Cannabis Use Disorder Indicator (cud28dis) is coded 1 if the total sum score is greater than or equal to 12 (0 otherwise).

Scales	Items	Description
cud28tot	c28dr02-09	CUD28 Total Sum Score
cud28haz	c28dr02-09	CUD28 Hazardous Cannabis Use Indicator (tot>=8)
cud28dis	c28dr02-09	CUD28 Possible Cannabis Use Disorder Indicator (tot>=12)

Descriptive Statistics

Full Normative Sample:

		Full Normative Sample					
		Cronbach's alpha	N	Mean	SD	Min	Max
cud28tot	CUD28 Total Sum Score	0.57	278	1.74	3.78	0	27
cud28haz*	CUD28 Hazardous Cannabis Use Indicator		278	0.11		0	1
cud28dis*	CUD28 Possible Cannabis Use Disorder Indicator		278	0.03		0	1

*The standard deviation and Cronbach's alpha coefficient are not calculated for dichotomous scales.

Comparison of Non-High Risk Normative and High Risk Control Samples:

		Non-High Risk Normative			High Risk Control			t-test*/Chi Sq Results**		
		N	Mean	SD	N	Mean	SD	DF	t /chi sq	pval
Cud28tot	Total Sum Score	225	1.83	3.92	103	2.53	5.18	158	-1.23	0.22
Cud28haz	Hazardous Cannabis Use	225	0.12		103	0.13		1	0.08	0.78
Cud28dis	Possible Cannabis Use Disorder	225	0.04		103	0.08		1	2.70	0.1

*If the null hypothesis of equal variances is rejected, the t-test estimates shown in the table assume unequal variances, otherwise the t-test results shown assume equal variances.

**Chi square tests are used to detect differences in dichotomous scales.