

Application Research Report

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Where Is Your Data From?

Application Area: Neuroscience

Article: The Five Factor Model of Personality and Evaluation of Drug Consumption Risk

Database: [Drug Consumptions \(UCI\)](#)

DOI: https://doi.org/10.1007/978-3-319-55723-6_18

Journal: [SpringerLink](#)

You can access this page here: [GitHub](#)

Table 1: **Reference**

Fehrman, Elaine, et al. "The Five Factor Model of Personality and Evaluation of Drug Consumption Risk." *SpringerLink*, Springer International Publishing, 5 July 2017, https://link.springer.com/chapter/10.1007/978-3-319-55723-6_18#Sec2.
Khadija. "Drug Consumptions (UCI)." *Kaggle*, 26 Sept. 2021, <https://www.kaggle.com/datasets/obeykhadija/drug-consumptions-uci>.

Why Should I Care?

Change is inevitable and one of the hot topics in change is the discussion, advancement, and push to legalize different drugs. However, we need to remind ourselves before we get too carried away, drug consumption usage is very much still an on-going global problem. Such risk behavior cannot be isolated alone but constitute from a multitude of factors. These factors are defined as anything that increases the chances or probability of one's drug consumption(s). Primary this can be predicted and measured through an individual's attribute, characteristics, and/or life events

Summary

Topic:

Assessing one's risk of drug consumption use and misuse according to their personality trait(s).

Data Collection:

The study initially received 2051 responses, but only included 1885 respondents. 12 attributes and 18 central nervous system (CNS) psychoactive drugs were included in the study. The 12 attributes can be categorized based on demographic and personality measurements. The 18 CNS psychoactive drugs includes both illicit and licit drugs. Additionally, there was a fake drug (Semeron) included to help identify any over-claimers in the study. Finally, respondents were asked to rate their drug use per drug across seven different categories. Based on their response of drug use, respondents were classified either as users or non-users.

[illegible]

ID	Age	Gender	Ethnicity	Education	Country	ImpSS	Alcohol	Bis-11	Caffeine	Ecstasy	Heroin	Ketamine	LSD	Marijuana	Nicotine	Other
5	35-44	F	White	Doctorate	USA	1.30612	0.63401	0.70170	0.20712	0.2575	0	0	0	0	0	0
6	65+	F	White	Left school at 18 years	Canada	2.03973	0.088	0.098	0.098	0.098	0.098	0.098	0.098	0.098	0.098	0.098
7	45-54	M	White	Masters degree	USA	0.93949	0.098	0.098	0.098	0.098	0.098	0.098	0.098	0.098	0.098	0.098

Table 3: *Demographic*

Age: 18-24, 25-34, 35-44, 45-54, 55-64

Country: Australia, Canada, Other, USA, UK

Gender: Female, Male

Ethnicity: Asian, Black, Mixed-White/Black, Other, White

Level of Education: Left school at 18 years old, Some college or university with no certificate or degree, Professional certificate/diploma, University degree, Masters degree

Table 4: *Personality Measurements*

Five Factor Model (FFM):

1. Agreeableness (A)
2. Conscientiousness (C)
3. Extraversion (E)
4. Neuroticism (N)
5. Openness to Experience (O)

Impulsivity (BIS-11)

Impulsiveness Sensation Seeking Scale (ImpSS)

Table 5: *CNS Psychoactive Drug Use*

Alcohol

Ecstasy