CANNABIS STUDIES AND WHAT TRAFFIC SAFETY PROFESSIONALS NEED TO KNOW ABOUT THEM SOURCE LIST: SEPT. 2024

SOURCES (BY SECTION)

INTRODUCTION:

Dominic Holden, *Half of Marijuana Users in the US Think They're Fine to Drive Stoned*, BUZZFEED (April 23, 2019).

Jonathan P. Caulkins, *Changes in self-reported cannabis use in the United States from 1979 to 2022*, ADDICTION (2024) 119:1648-1652 (April 11, 2024).

Kusum Adhikari, et. al., *Revisiting the effect of recreational marijuana on traffic fatalities*, INT'L JOUR. OF DRUG POL., Vol. 115 (May 2023).

Lee Johnson, Survey: How Cannabis is Taking Over Christmas, ORACLE (December 9, 2021).

National Highway Traffic Safety Administration, *Presence of Drugs in Drivers*, available at: https://www.nhtsa.gov/sites/nhtsa.gov/files/documents/13839-drugged-facts-flyer-101918-v8-002.pdf (last viewed August 14, 2024)

The Zebra, *Study:* 60% of drivers who use marijuana in legal states drive under the influence (August 24, 2022).

U.S. Department of Transportation, *Travel Monitoring: Traffic Volume Trends*, available at: https://www.fhwa.dot.gov/policyinformation/travel_monitoring/tvt.cfm (last updated June 3, 2024)

SECTION I: CANNABIS IMPAIRS:

Andrew Fares, et al, Combined effect of alcohol and cannabis on simulated driving, PSYCHOPHARMACOLOGY, Vol. 239: 1263-1277 (2021)

Ashley Schnakenberg Martin, et. Al, *Preliminary study of the interactive effects of THC and ethanol on self-reported ability and simulated driving, subjective effects, and cardiovascular responses*, PSYCHOPHARMACOLOGY, Vol. 240: 1235-1246 (April 12, 2023)

F.R.J. Vinckenbosch, et. Al., Validating lane drifts as a predictive measure of drug or sleepiness induced driving impairment, PSYCHOPARMACOLOGY 237: 877-886 (2020)

Ryan Miller, et. Al, Influence of cannabis use history on the impact of acute cannabis smoking on simulated driving performance during a distraction task, TRAFFIC INJ. PREV., Vol. 23, Sup. 1: S1-S7 (2022)

CANNABIS STUDIES AND WHAT TRAFFIC SAFETY PROFESSIONALS NEED TO KNOW ABOUT THEM SOURCE LIST: SEPT. 2024

Thomas Marcotte, et. Al, *Driving Performance and Cannabis79 Users' Perception of Safety: A Randomized Clinical Trial*, JAMA PSYCHIATRY 79(3): 201-209 (March 1, 2022)

Section II: Officer Detection of Cannabis Impairment:

Amy J. Porath-Waller and Douglas J. Beirness, *An Examination of the Validity of the Standardized Field Sobriety Test (SFST) in Detecting Drug Impairment*, TRAFFIC INJ. PREV., Vol. 15(2):125-131 (2014).

Douglas J. Beirness, et. Al, Enhancing the Standardized Field Sobriety Test to detect cannabis impairment: An observational study, TRAFFIC INJ. PREV., Vol. 25(1): 1–7 (2024).

DRE: Drug Recognition Expert 7-Day School: Participant Manual, NAT'L HIGHWAY TRAFFIC SAFETY ADMIN., available at: https://www.nhtsa.gov/sites/nhtsa.gov/files/2024-02/16163 DRE 7-Day Participant Manual 2023-tag.pdf (February 2023)

Kari Declues, et. Al, A 2-Year Study of Delta 9-tetrahydrocannabinol Concentrations in Drivers: Examining Driving and Field Sobriety Test Performance, J. FORENSIC Sci, Vol. 61(6):1664-1670 (November 2016)

K. Papafotiou, et. Al, An evaluation of the sensitivity of the Standardized Field Sobriety Tests (SFSTs) to detect impairment due to marijuana intoxication, PSYCHOPHARMACOLOGY Vol. 180: 107-114 (2005).

Luke A. Downey, et. Al, Detecting Impairment Associated with Cannabis with and without Alcohol on the Standardized Field Sobriety Tests, PSYCHOPHARMACOLOGY, Vol. 224: 581-589 (2012)

Rebecca L. Hartman, et. Al, *Drug Recognition Expert Examination Characteristics of Cannabis Impairment*, ACCID. ANAL. PREV., Vol. 92: 219-229 (July 2016)

Section III: Issues Of Which You Should Be Aware

Johannes G. Ramaekers, et. al., *High Traffic—The Quest for a Reliable Test of Cannabis Impairment*, JAMA PSYCHIATRY 80(9): 871-872 (2023).

Robert L. Fitzgerald, et. al., *Driving Under the Influence of Cannabis: Impact of Combining Toxicology Testing with Field Sobriety Tests*, CLINICAL CHEMISTRY 69:7 (2023).

Thomas D. Marcotte, et. al., Evaluation of Field Sobriety Tests for Identifying Drivers Under the Influence of Cannabis A Randomized Clinical Trial, JAMA PSYCHIATRY 80(9):914-923 (2023).

CANNABIS STUDIES AND WHAT TRAFFIC SAFETY PROFESSIONALS NEED TO KNOW ABOUT THEM SOURCE LIST: SEPT. 2024

Section IV: The Future

J.A. Hubbart, et. Al, *Biomarkers of Recent Cannabis Use in Blood, Oral Fluid and Breath*, J. ANAL. TOX., Vol. 45, Issue 8, 820-828 (October 2021)

Jennifer L. Berry, et. Al, Cannabinoids detected in exhaled breath condensate after cannabis use, J. Breath Res., Vol 18, No. 4 (July 23, 2024).

Jodi M. Gilman, et. Al, *Identification of Δ9-tetrahydrocannabinol (THC) impairment using functional brain imaging*, NEUROPSYCHOPHARMACOLOGY 47(4): 944-952 (March 2022)

American Association for Clinical Chemistry (AACC). "Any dose of alcohol combined with cannabis significantly increases levels of THC in blood." ScienceDaily. ScienceDaily, 27 May 2015.

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