METHAMPHETAMINE

INTRODUCTION

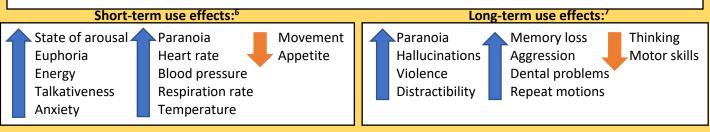
Methamphetamine (also called "meth") is an illicit, synthetic, central nervous system stimulant chemically related to amphetamine. Methamphetamine has a greater effect than amphetamine and generally lasts longer than cocaine. Methamphetamine is primarily used in three forms:¹



Common slang terms for methamphetamine: meth, speed, crank, ice, chalk, wash, trash, dunk, gak, pookie, cookies, Christina, no doze, white cross, cotton candy, rocket fuel, and Scooby snax.²⁻³

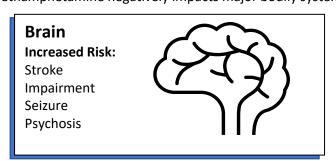
GENERAL PRESENTATION

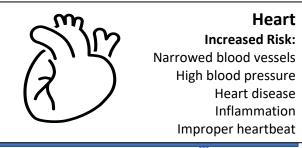
Both short-term and long-term methamphetamine use have distinct effects on the body and mind. Individual experiences vary. Generally, around 2% of emergency visits are due to methamphetamine use.⁴ Physical trauma (e.g., car accident, gunshot) and psychosis are two of the most reported diagnoses for meth-related ED presentations.⁴⁻⁵ Of those experiencing psychosis, only a few are admitted to the hospital (14%) and placed on a psychiatric hold (11%).⁴⁻⁵ Methamphetamine "overdose" is called overamping.¹³



HEALTH IMPACT

Methamphetamine negatively impacts major bodily systems like the nervous system and the circulatory system.⁵







POLYSUBSTANCE USE

Methamphetamine and Opioids

- •Combination of opioids and methamphetamine: "poor man's speedball."8
- •Methamphetamine masks overdose signs (e.g., slowed breathing), resulting in higher chances of accidental overdose.⁹
- •Combined use of opioids and methamphetamine doubled between 2011 and 2017. 10
- •Individuals in treatment for opioid use are often under treated for methamphetamine use disorder.¹⁰
- •Stimulant-related death increases correlate with the opioid epidemic death rate. 11

Methamphetamine and Marijuana

- •The combination of marijuana and methamphetamine is called "boo."8
- •The combination results in the opposite of traditional marijuanna effects, such as fast heart rate, high blood pressure, and overheating.¹²
- •Marijuana laced with methamphetamine may have an uncharacteristic chemical odor when burning. 12
- •Lacing marijuana with methamphetamine may be an attempt to mask poor quality marijuana. 12
- •The combination is sometimes done in an attempt to soften the come down from methamphetamine after the initial high. 12

TOXICITY and TREATMENT

There are two primary causes of death from methamphetamine poisoning: vascular and psychiatric.⁵

Vascular

Psychiatric



Presentation: heart complaints, brain hemorrhage

Presentation: trauma, psychosis



Death: heart attack/stroke

Death: physical trauma

Research on treatments is ongoing. Current research explores use of harm reduction and traditional best practices. 5, 13

Harm Reduction

- Avoid overamping (drink water, sleep, eat)
- •Clean needle exchange
- Fentanyl test strips
- Avoid using alone
- Safer method of use (e.g., smoking or snorting)

Medication-Assisted Treatment (MAT)

None FDA approved

Social Support Services

- •Community meetings (e.g., Alcoholics Anonymous)
- Peer support services (e.g., certified recovery specialist)
- Services addressing social determinants of health

Behavioral Therapies

- Cognitive-behavioral therapy
- Contingency management
- Family behavior therapy

1. Ford, A. (2022). Forms of Meth. Nevada Attorney General Aaron D. Ford. https://ag.nv.gov/Hot_Topics/Issue/Meth_Forms/ 2. Editorial Staff. (2022, February). Meth Street Names, Nicknames & Slang Terms. American Addiction Centers. https://americanaddictioncenters.org/meth-treatment/slang-names. 3. KCI. (2022). Slang, Jargon, and Nicknames for Crystal Meth/Methamphetamine. KCI.org The Anti-Meth Site. Anti-Meth Site. Control of Cinical Nursing 27(13-14):2569-2582. S. Coffin, P. (2022, January 12). Updates on New Methamphetamine and Cocaine Health Risks: Improved Screening and Action to Save Lives. PowerPoint. COSSAPResources.org https://www.cossapresources.org/Content/Documents/webinar/Presentation_Slides_UpdatesNewMethCocaine_Jan1222.pdf?f=true 6. Steinkellner, T., Freissmuth, M., Sitte, H. H., & Montgomery, T. (2011). The ugly side of amphetamines: short- and long-term toxicity of 3,4-methylenedioxymethamphetamine (MDMA, 'Ecstasy'), methamphetamine and D-amphetamine. Biol Chem, 392(1-2), 103-115. doi:10.1515/BC.2011.016. 7. NIDA. 2022, Junuary 12. What are the long-term effects of methamphetamine misuse? Retrieved from https://nida.nih.gov/publications/research-reports/methamphetamine/what-are-long-term-effects-methamphetamine-misuse on 2022, June 1. 8. Jefferson County Arkansas Sheriff. Drug Slang Terms. Jefferson County Arkansas Sheriff. https://www.jeffcoso.org/plugins/show_image.php?id=335. 9. Editorial Staff. (2022, January 31). Mixing heroin & meth: Effects, dangers & treatment. American Addiction Centers. https://americanaddictioncenters.org/heroin-treatment/combination. 10. Yen Li, M., Alba, G. A., Mitton, J., & Bearnot, B. (2021). Care-engaged individuals with polysubstance use in Northeastern US are undertreated for methamphetamine use disorder: a retrospective cohort study. Addict Sci Clin Pract, 16(1), 57. doi:10.1186/s13722-021-00267-1. 11. Ciccarone, D. (2021). The rise of illicit fentanyls, stimulants and the fourth wave of the opioid overdose crisis. Curr Opin Psychiatry, 34(4), 344-350. doi:10.

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