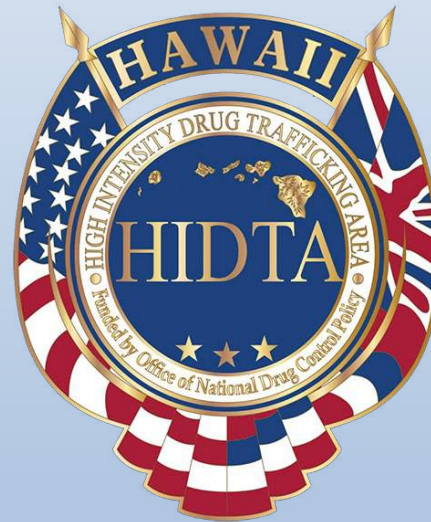


EndMeth + HI-HIDTA Question and Answer Panel Discussion June 30, 2022

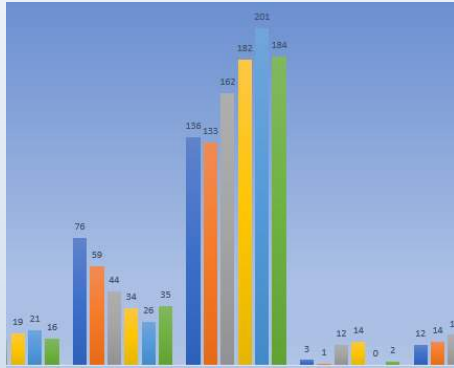


Mark Baker, M.D., FACEP, FAMIA
Pali Momi Medical Center
Hawai'i Pacific Health
Founder Of EndMeth

Richard L. Witt
Drug Intelligence Officer,
Hawai'i-High Intensity Drug Trafficking
Areas (HI-HIDTA)

Aashish Hemarajani
Hawaii Public Health Analyst,
Overdose Response Strategy

Three goals for this lecture:



The facts



Describe the morbidity from using meth. And mortality...



Dialogue and resources

Dialogue







**HAWAII
HIDTA**



(High Intensity Drug Trafficking Area)



HIDTA MISSION

The mission of the HIDTA Program is to disrupt the market for illegal drugs in the United States by assisting federal, state, local, and tribal law enforcement entities participating in the HIDTA program to dismantle and disrupt drug trafficking organizations, with particular emphasis on drug trafficking regions that have harmful effects on other parts of the United States.

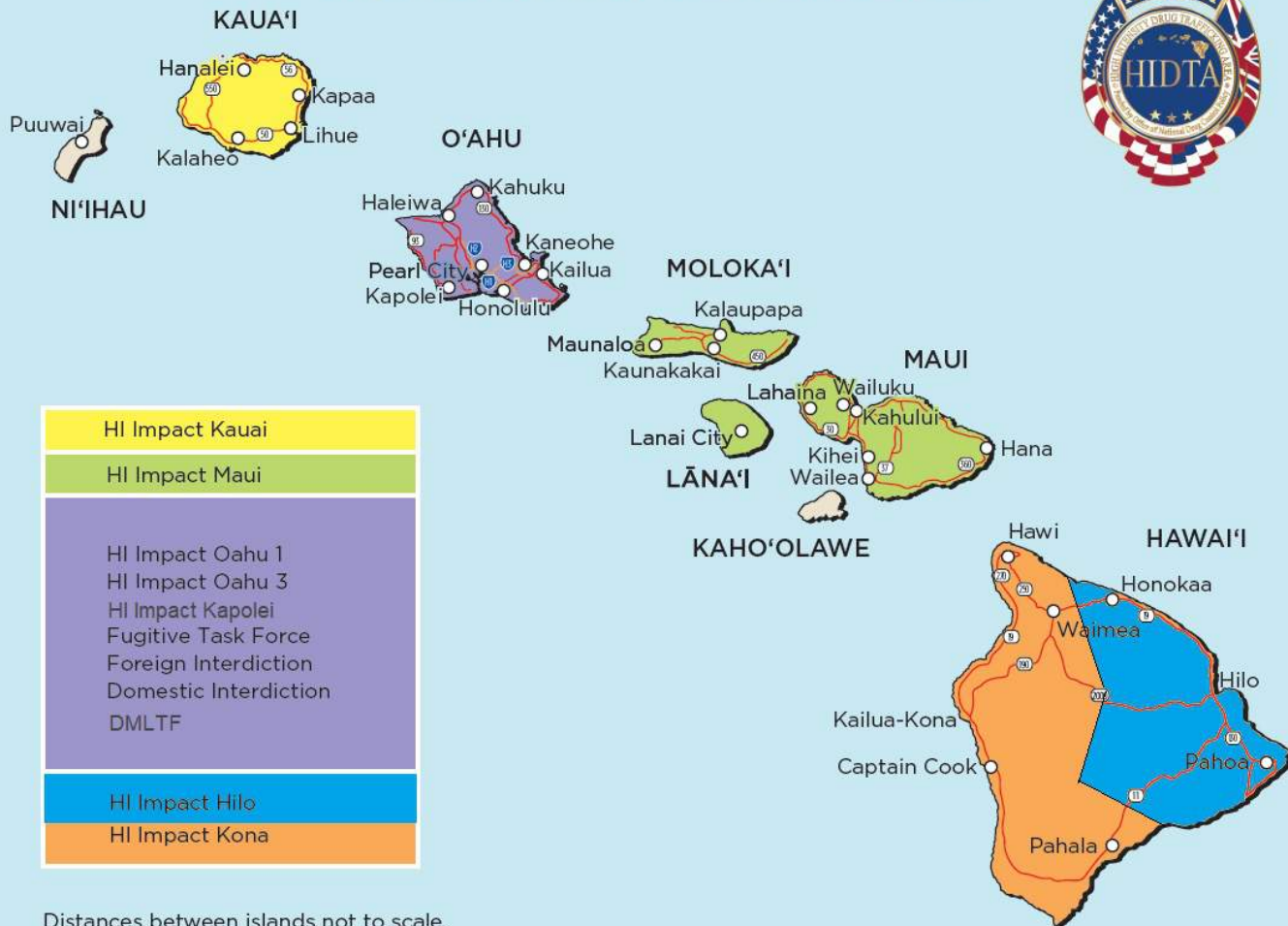


The mission of the ORS is to **reduce fatal and non-fatal drug overdose rates** by **improving information sharing** across agencies and supporting **evidence-based interventions**.

ORS Mission Statement



HAWAII AREA OF RESPONSIBILITY



HI Impact Kauai
HI Impact Maui
HI Impact Oahu 1 HI Impact Oahu 3 HI Impact Kapolei Fugitive Task Force Foreign Interdiction Domestic Interdiction DMLTF
HI Impact Hilo
HI Impact Kona

HAWAII

Total Population 1,407,000 (est.)

Oahu 964,000 (est.)

Hawaii 203,000 (est.)

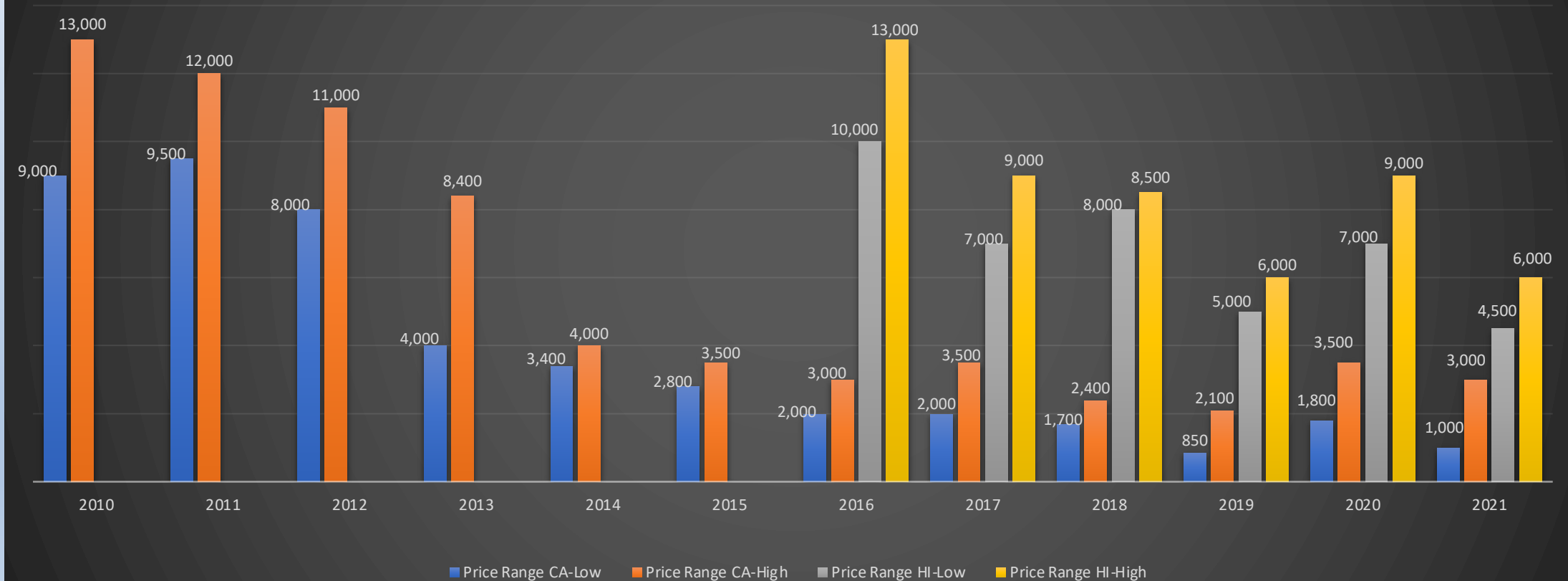
Maui 168,000 (est.)

Kauai 72,000 (est.)

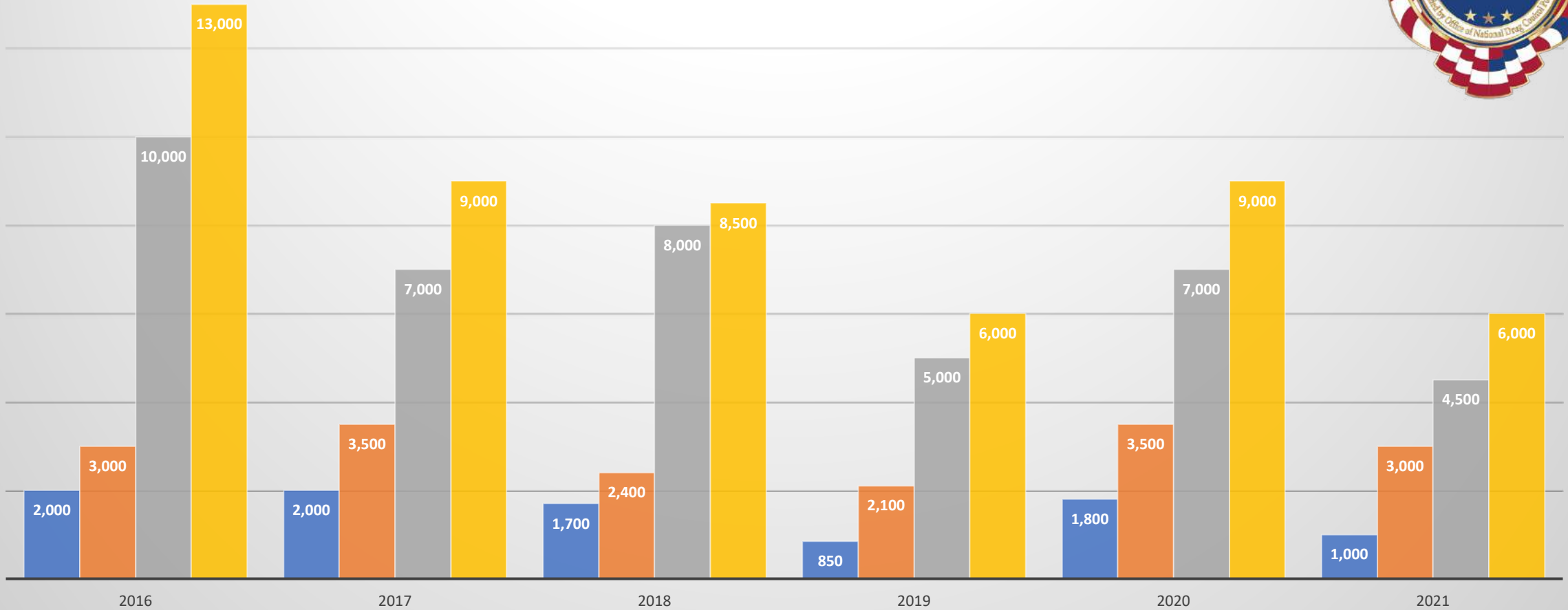
Comparison of cost vs sales prices Between California and Hawaii



LA Meth Prices 2010 - 2020 Compared to
Hawaii Prices 2016 – 2021 (YTD) Per Lb.



Meth Price Comparison CA Wholesale Lb. VS Hawaii Retail 2016 to 2021 (ytd)



■ Price Range CA-Low ■ Price Range CA-High ■ Price Range HI-Low ■ Price Range HI-High



Current Street Prices Hawaii

- .5 to .70 gr = \$20.00
- 1 to 1.2 gr = \$40.00
- 1.5 to 2 gr = \$60.00
- 3.5 gr (eight ball) \$100 to \$160
- 1 Ounce (Oahu) = \$500 to \$700
- 1 Pound (Oahu)= \$4,500 to \$6,000





Where is it coming from: MEXICO



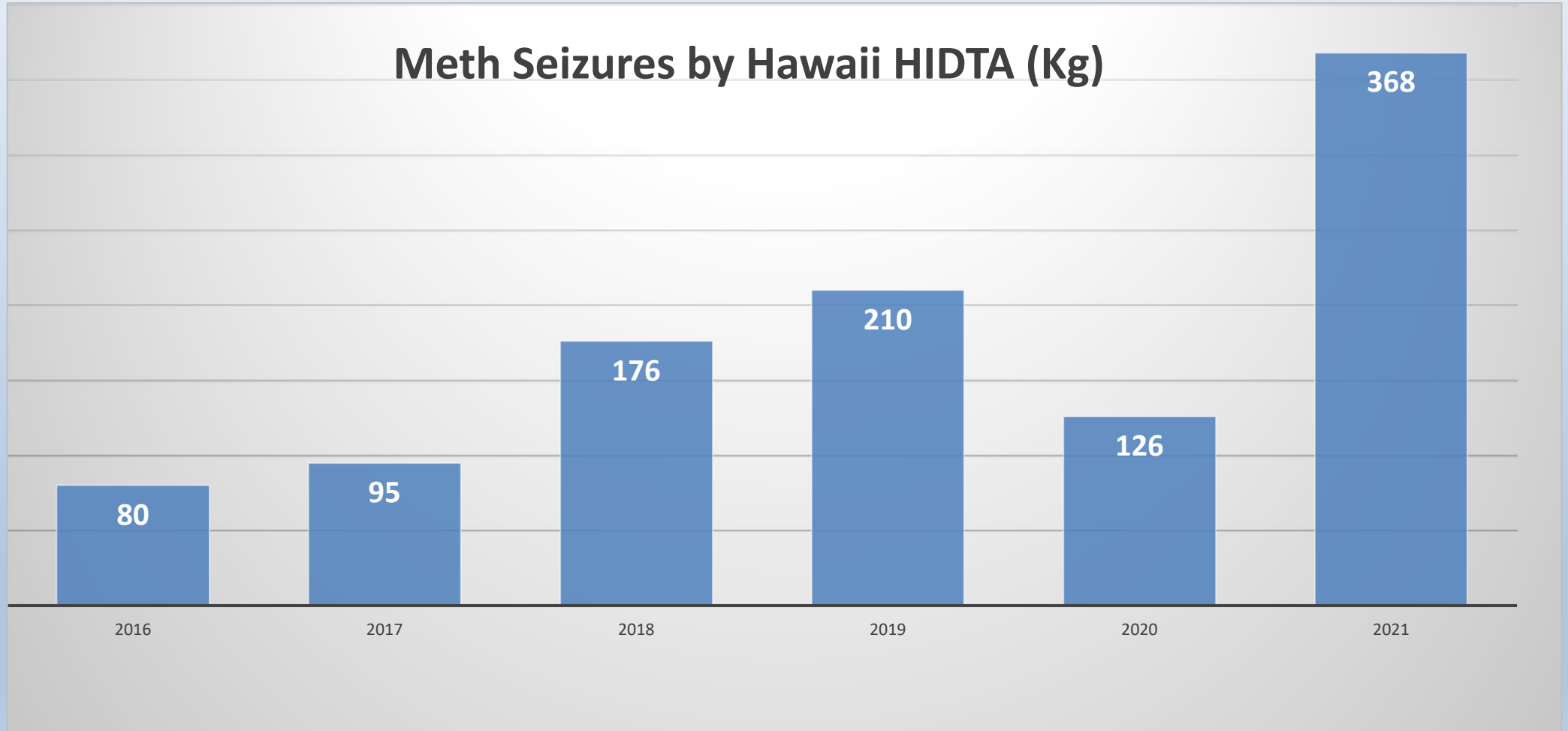


**Meth comes in
multiple forms**



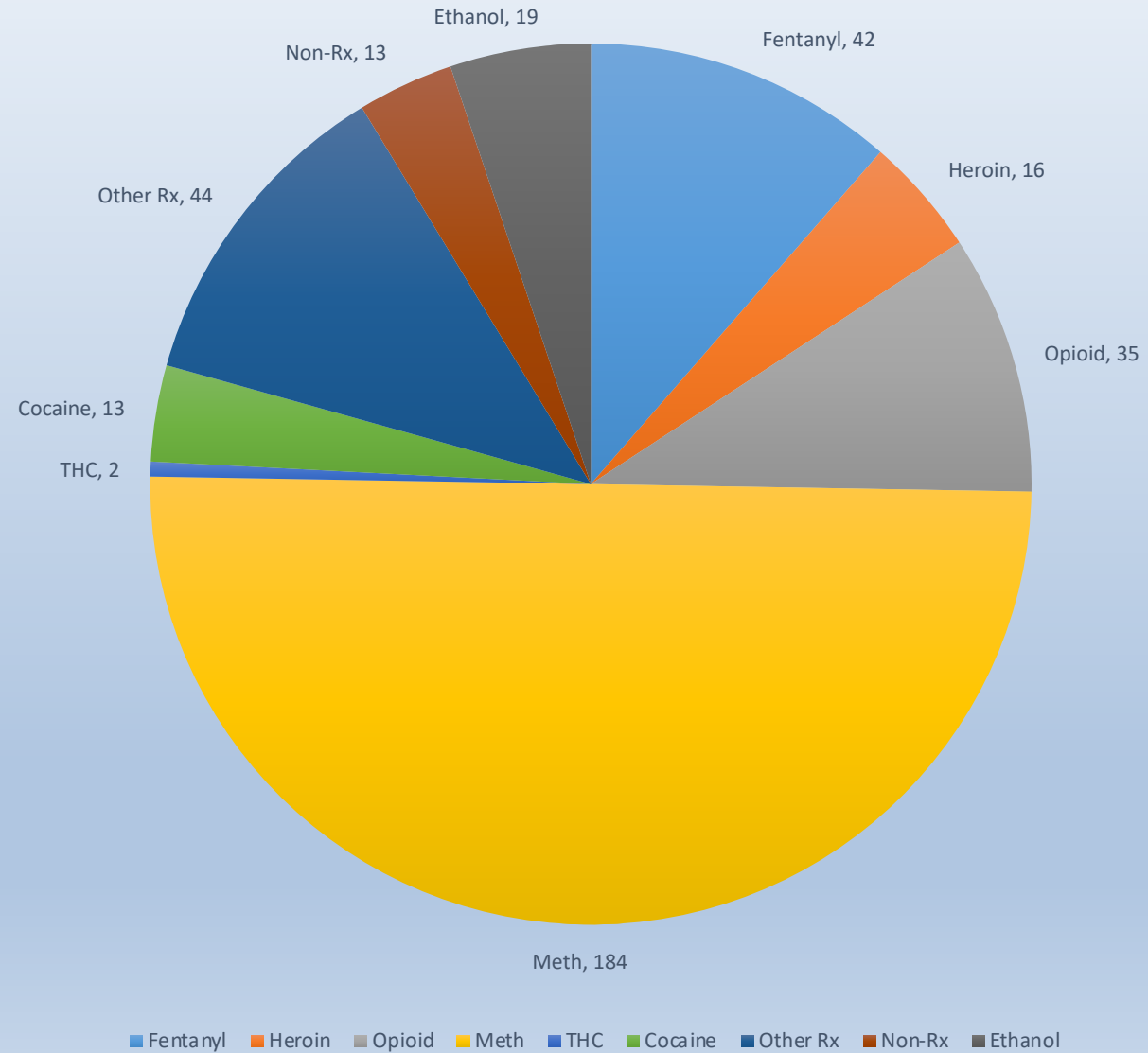


Meth Seizures by Hawaii HIDTA (Kg)



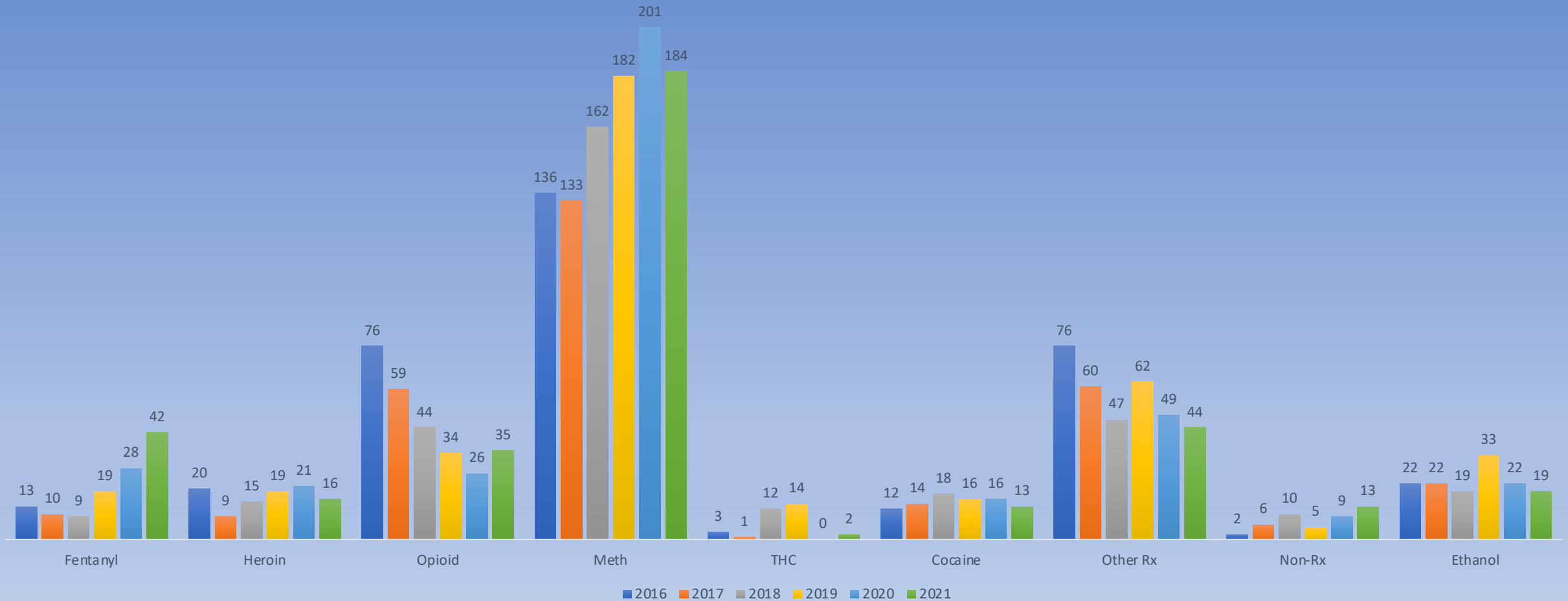


2021 Drug-related Deaths by Drug Category* (HNL not complete)



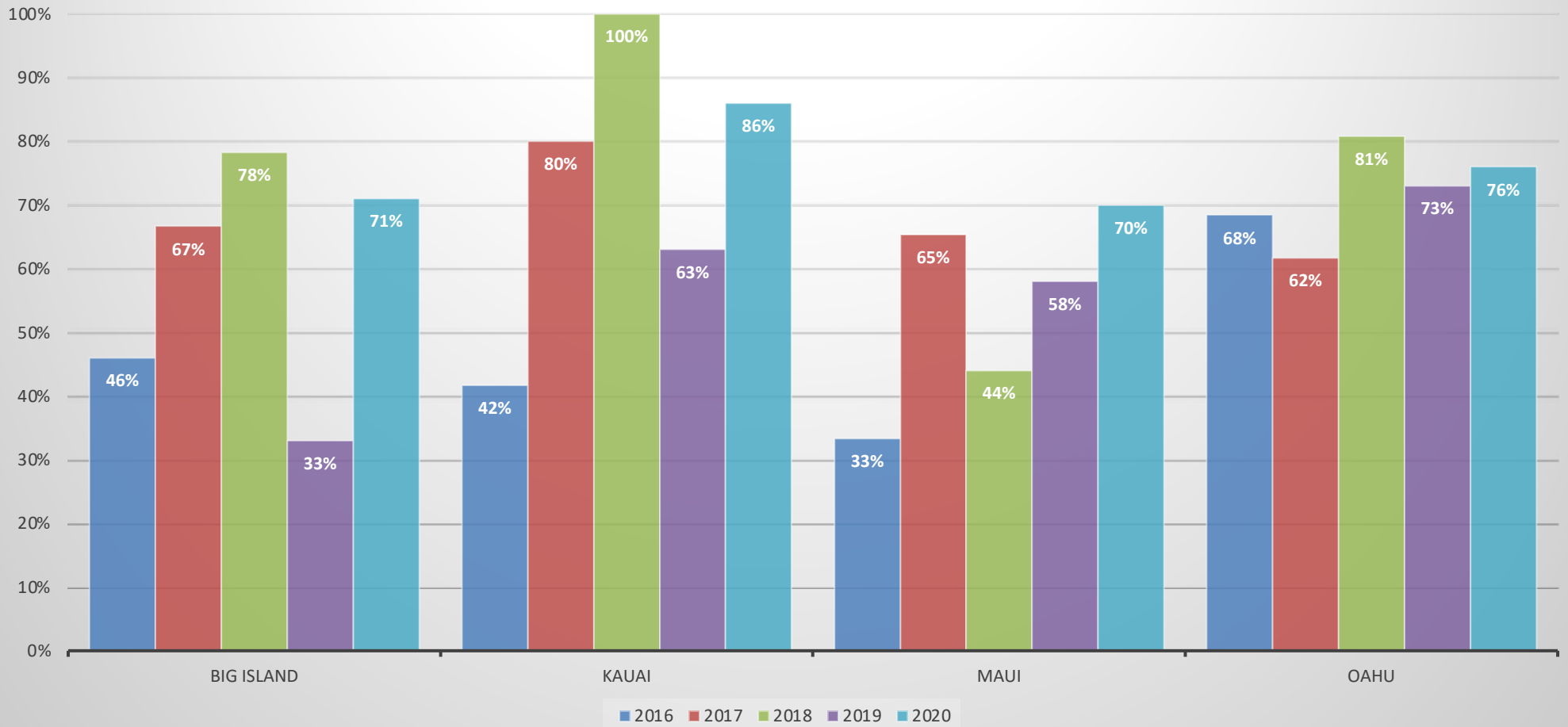


Hawaii Drug Deaths By Category 2016 - 2021





Percentage of Meth Related Overdose Deaths in Hawaii 2016-2020





<i>Deaths - All Causes</i>	2016	2017	2018	2019	2020	2021
Kauai County	553	570	545	600	547	544
Hawaii County	1,586	1,705	1,673	1,717	1,764	1,988
Maui County	1,064	1,136	1,161	1,265	1,213	1,372
Honolulu County	7,806	8,094	8,143	8,161	8,274	9,064
Total	11,009	11,505	11,522	11,744	11,798	12,968



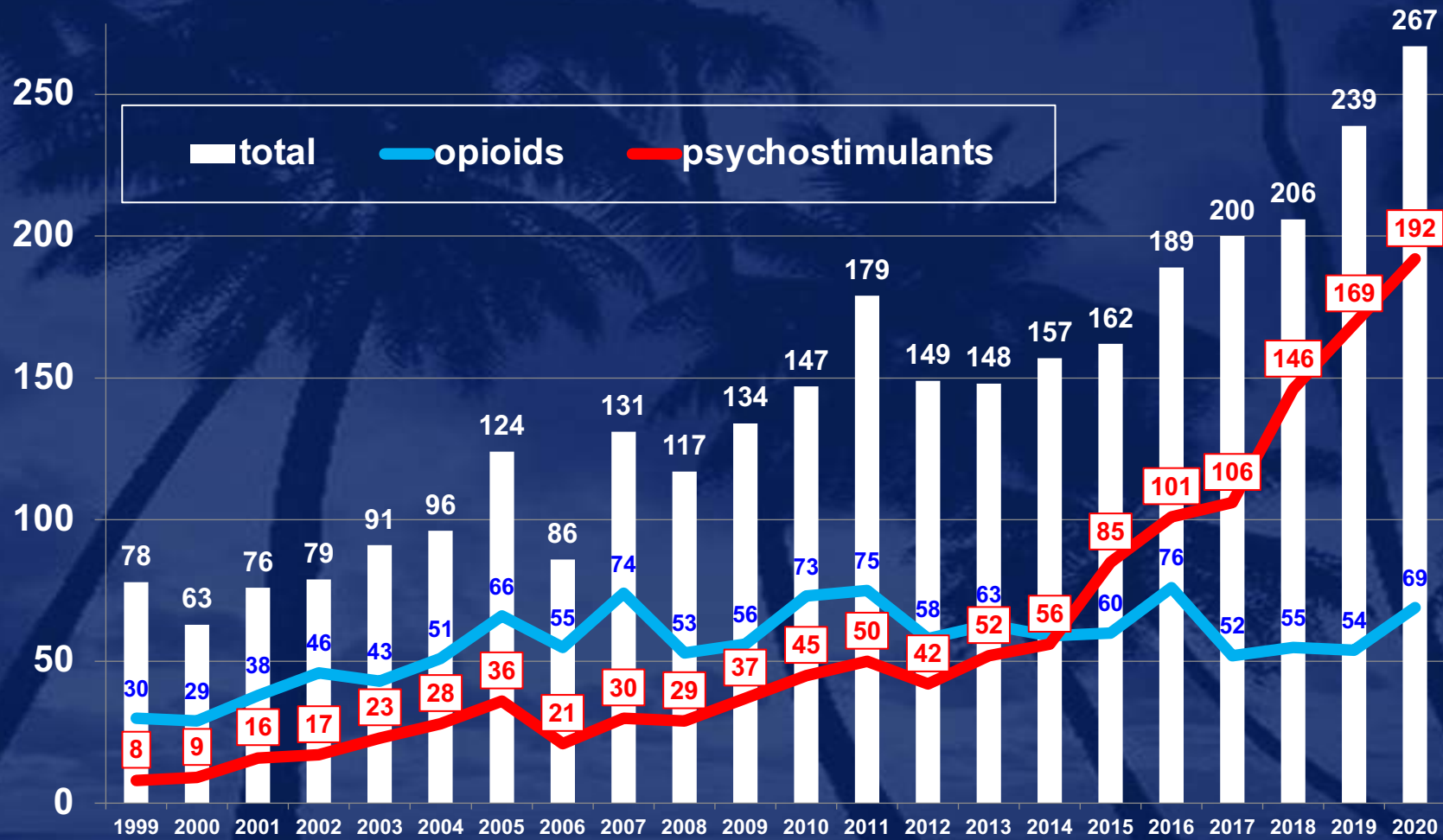
<i>Drug-Related Deaths</i>	2016	2017	2018	2019	2020	2021
Kauai County	14	8	14	18	14	22
Hawaii County	27	21	24	21	24	32
Maui County	37	33	31	35	39	39
Honolulu County	171	163	157	191	196	180
Total	249	225	226	265	265	273

*Honolulu Medical Examiner figures not yet complete as of June 2022



<i>% of Deaths that are Drug-Related</i>	2016	2017	2018	2019	2020	2021
Kauai County	2.5%	1.4%	2.6%	3.0%	2.6%	4.0%
Hawaii County	1.7%	1.2%	1.4%	1.2%	1.4%	1.6%
Maui County	3.5%	2.9%	2.7%	2.8%	3.2%	2.8%
Honolulu County	2.2%	2.0%	1.9%	2.3%	2.4%	2.0%
Average	2.5%	1.9%	2.2%	2.3%	2.4%	2.6%

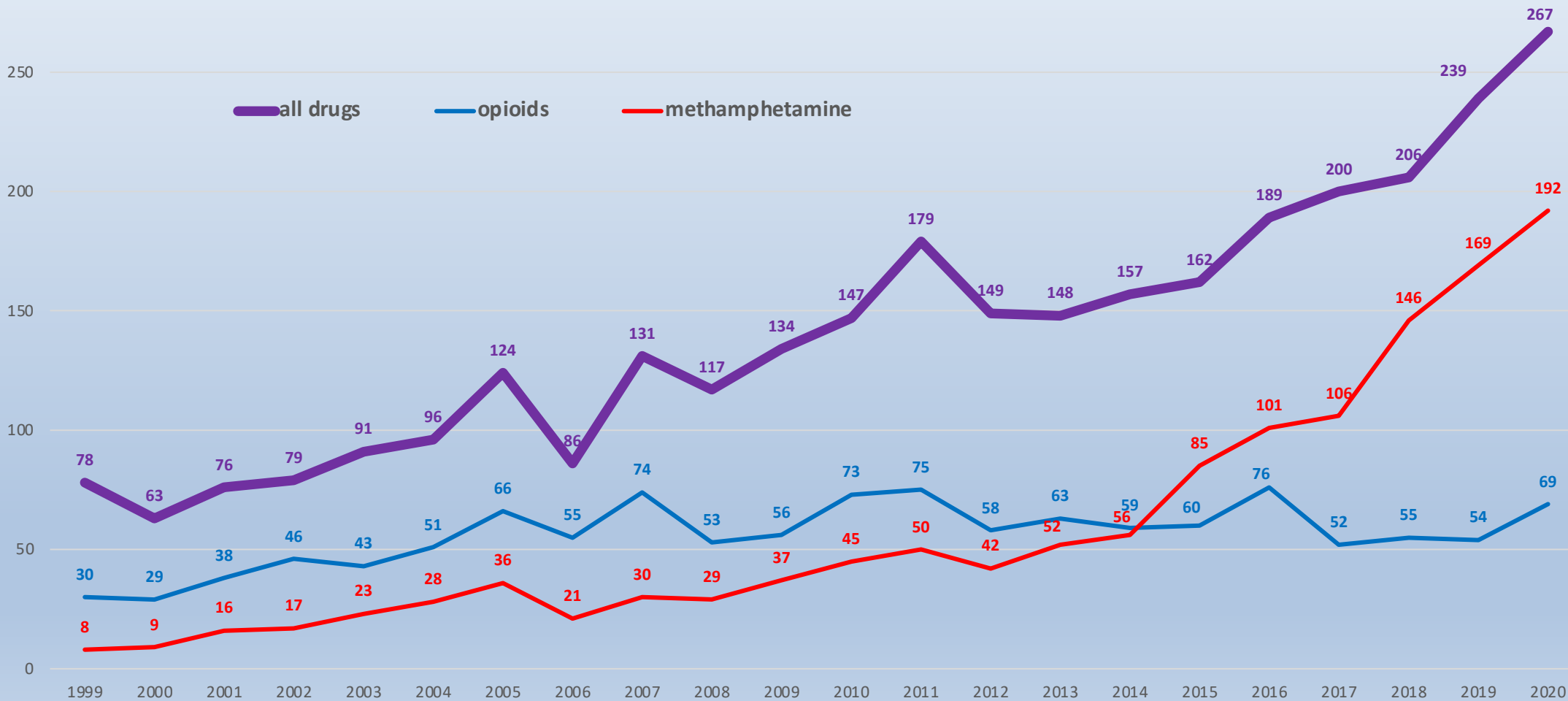
Annual number of deaths related to psychostimulants among Hawaii residents, by type of involvement, 1999-2020



*Total for 2020 projected from data through June.

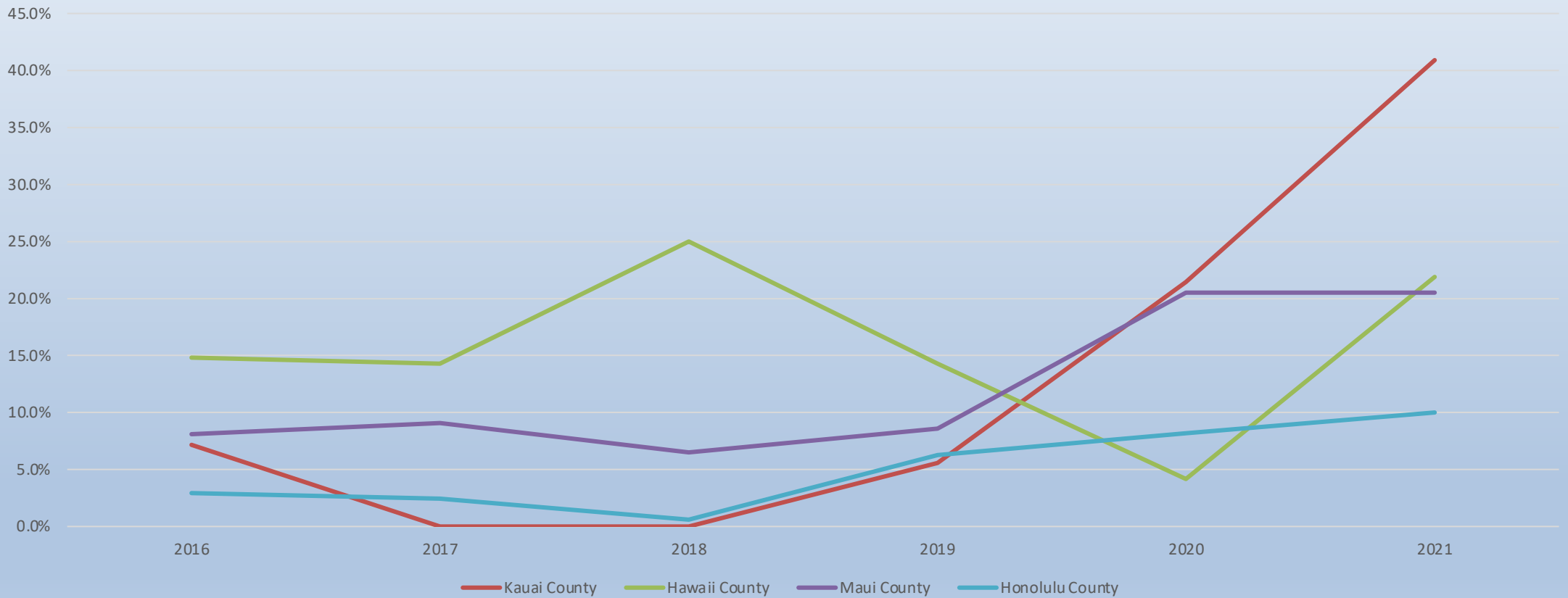


Annual number of fatal drug poisonings among Hawaii residents, by substance, 1999 through 2020





Percentage of Fentanyl Related Deaths VS Overall Drug Deaths





Fentanyl Seizures by HIDTA Initiatives*

	2016	2017	2018	2019	2020	2021
Powder (grams)	0	38	12	62	44	11,779
Patch (DU)	3	5	0	76	0	0
Pills (DU)	1,387	429	471	1,674	1,148	39,405

*These figures do not represent all law enforcement agencies in Hawaii, only those participating directly in HIDTA. “Pills” refers to Counterfeit Oxycodone pills.

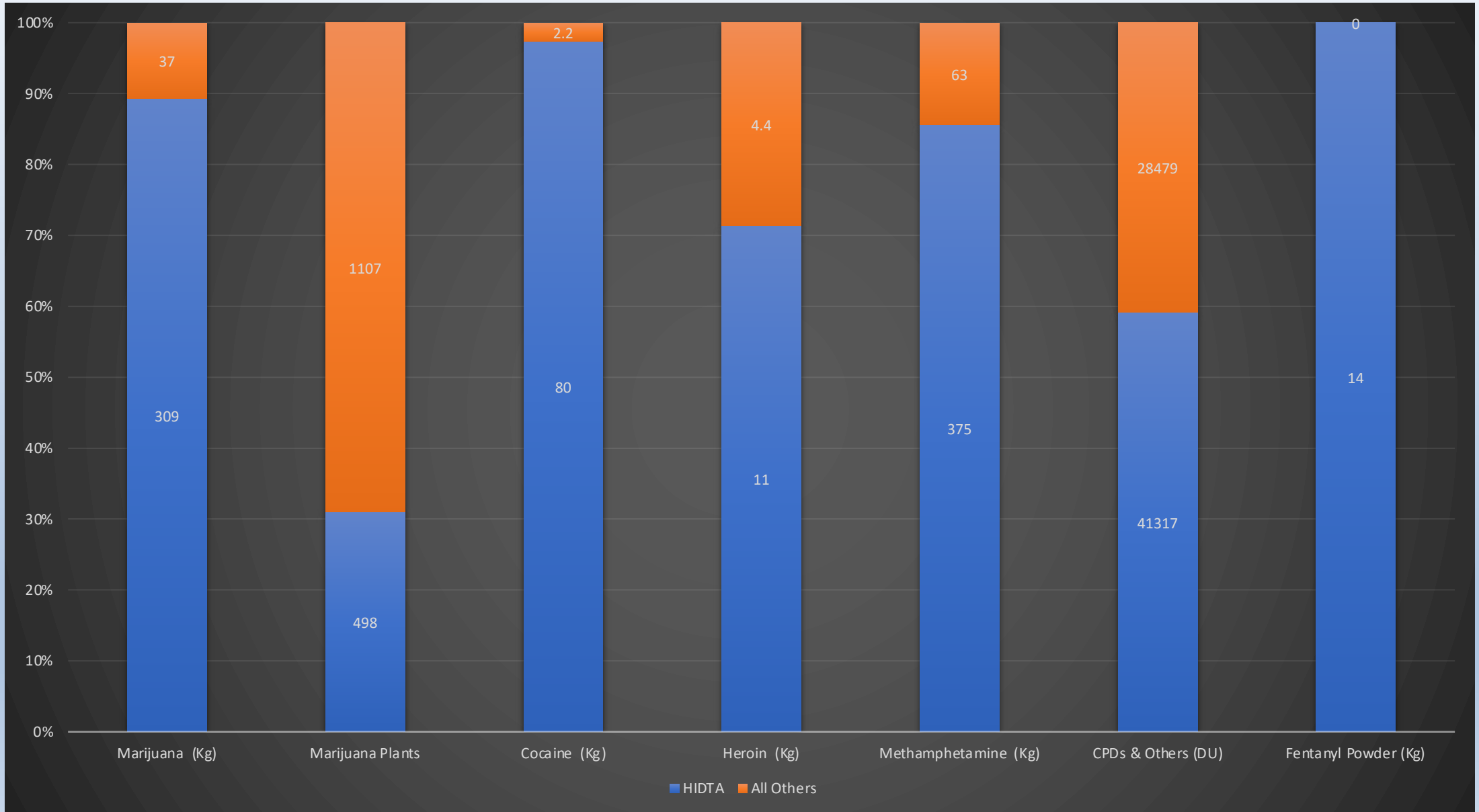


Recent seizure of 1700 Fentanyl pills in Hawaii June 2022





Total Seizures of Illegal Narcotics by all Law Enforcement 2021



Introduction:

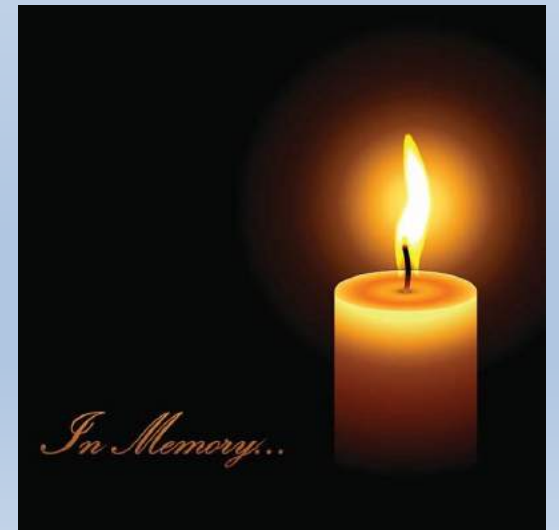


- **Mark Baker**
- **ED Doc at Pali Momi Medical Center since 1989**
- **Probably have treated more meth patients in the ED than...**
- **I want to EndMeth**

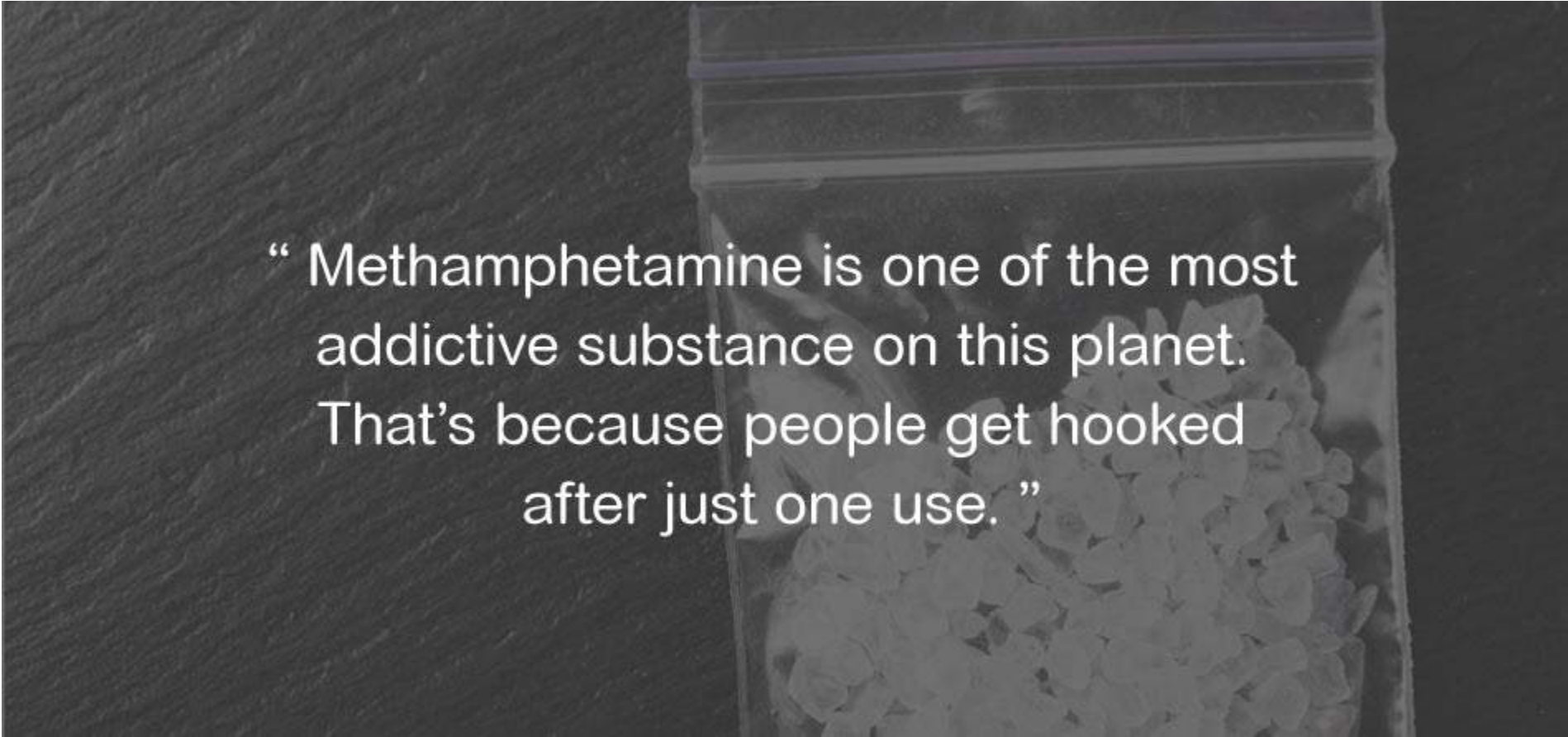
Why does this matter?

A patient named Charles. He died at age 42 from methamphetamine related heart disease.

Many more followed.



How addictive is it?



“ Methamphetamine is one of the most addictive substance on this planet. That’s because people get hooked after just one use. ”

<https://www.simplepathrecovery.com/glossary/crystal-meth/>

Users:

Social Functional Dependent



Social Users:

Ice Dabblers use ice opportunistically. That is, while ice is neither their drug of choice nor a drug they proactively seek, they will use it on occasions when it is offered by others.



<https://www.abc.net.au/news/health/2017-02-20/ice-what-happens-to-your-body-when-you-use-the-drug/8275654>

Social Users:



<https://www.smh.com.au/national/inside-the-dark-web-drug-market-20191023-p533e2.html>

"I would use it if someone offered it to me but I would never buy it."

Functional Users:

Drivers

Shift workers

Even newscasters

No immunity from drug addiction



<https://www.smh.com.au/national/inside-the-dark-web-drug-market-20191023-p533e2.html>

Dependent Users:



Users:

Social
Functional
Dependent
Dead



KTLA anchor Chris Burrous died of methamphetamine overdose, coroner says



<https://www.dailynews.com/2019/02/22/ktla-anchor-chris-burrous-died-of-methamphetamine-overdose-during-a-sexual-encounter-coroner-says/>



Crystal Meth Q&A with Former Meth User

236,882 views • Apr 26, 2020

7.5K 128 SHARE SAVE ...

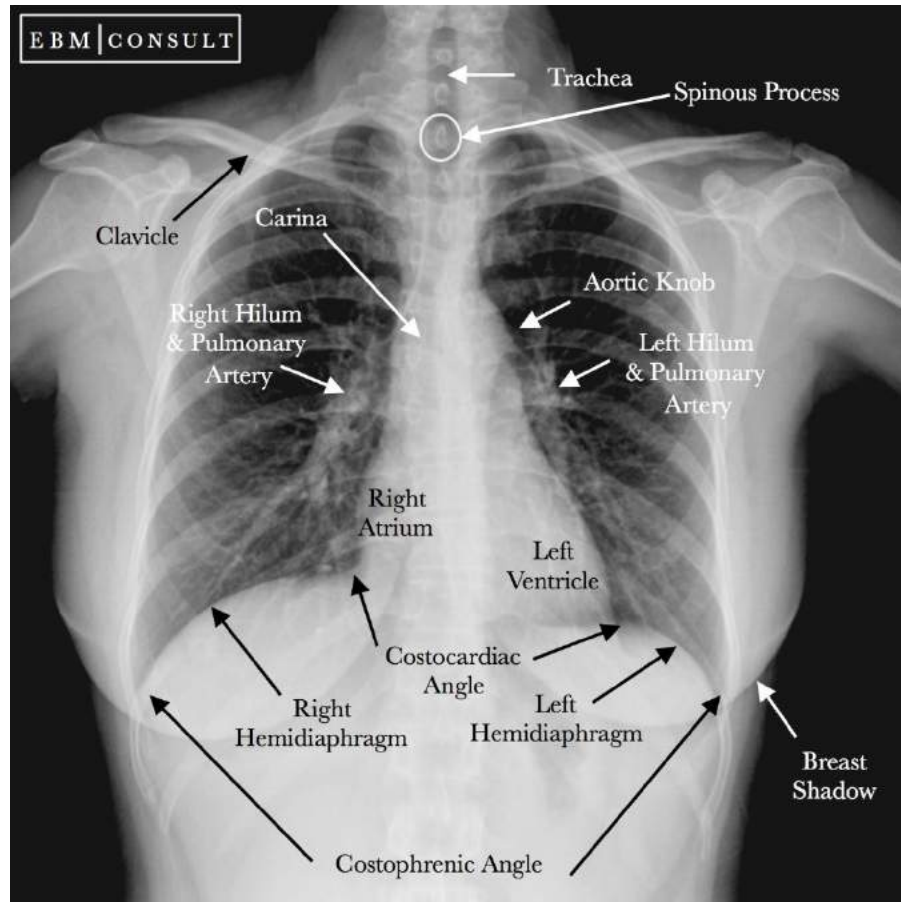


Cg Kid
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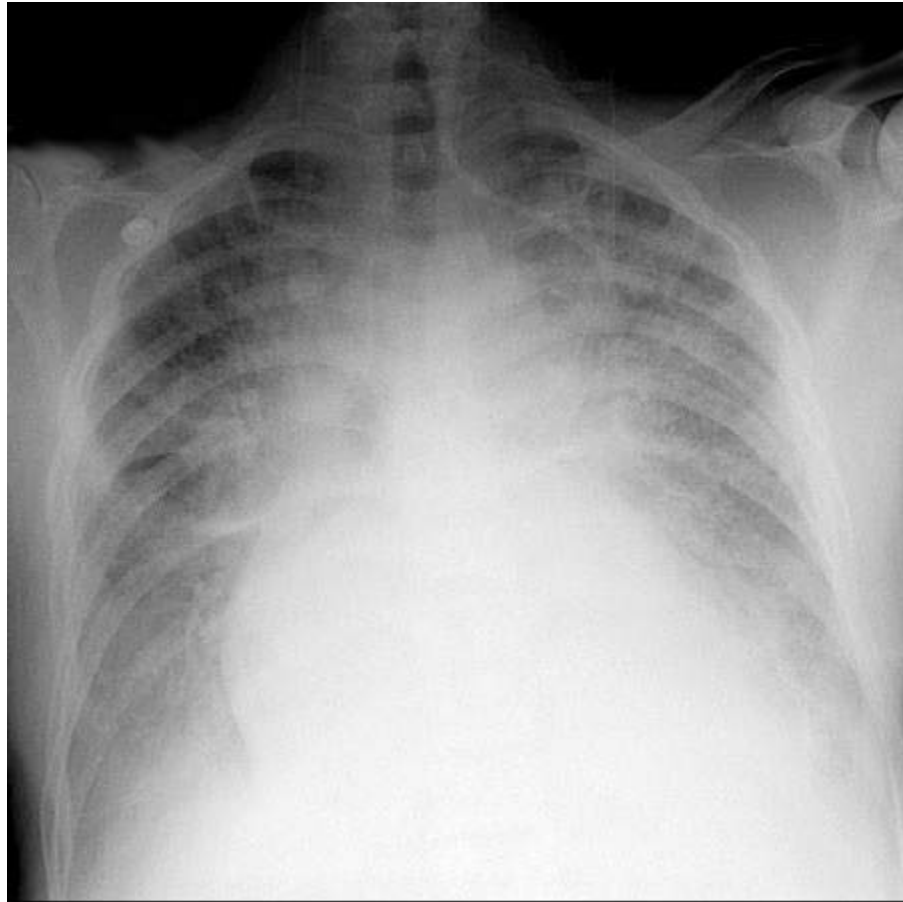
Medical Consequences:

Cardiac



<https://www.ebmconsult.com/articles/radiology-chest-xray-normal>

Medical Consequences:



**Cardiac:
Congestive
heart failure**



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Is there a new meth-related heart failure crisis on the horizon?

By AMERICAN HEART ASSOCIATION NEWS



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Hearty Humor by Jonny Hawkins



"One silver bullet, please."

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[Home](#) > [Circulation](#) > [Vol. 136, No. suppl_1](#) > [Abstract 14066: Methamphetamine Associated Heart ...](#)

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HEART FAILURE AND CARDIOMYOPATHIES

SESSION TITLE: HEART FAILURE TOPICS THAT GRAB YOUR ATTENTION!

Abstract 14066: Methamphetamine Associated Heart Failure, a New Epidemic

Marin Nishimura, Janet Ma, Isac C Thomas, Sutton Fox, Avinash Toomu, Sean Mojaver, Derek Juang, and Alan Maisel

Originally published 8 Jun 2018 | *Circulation*. 2017;136:A14066

Abstract

Introduction: Methamphetamine is one of the most commonly abused illegal substances in the United States. Heart failure due to Methamphetamine use (MethHF) is a poorly characterized disease entity that appears to be on the rise.



Details



Related



References



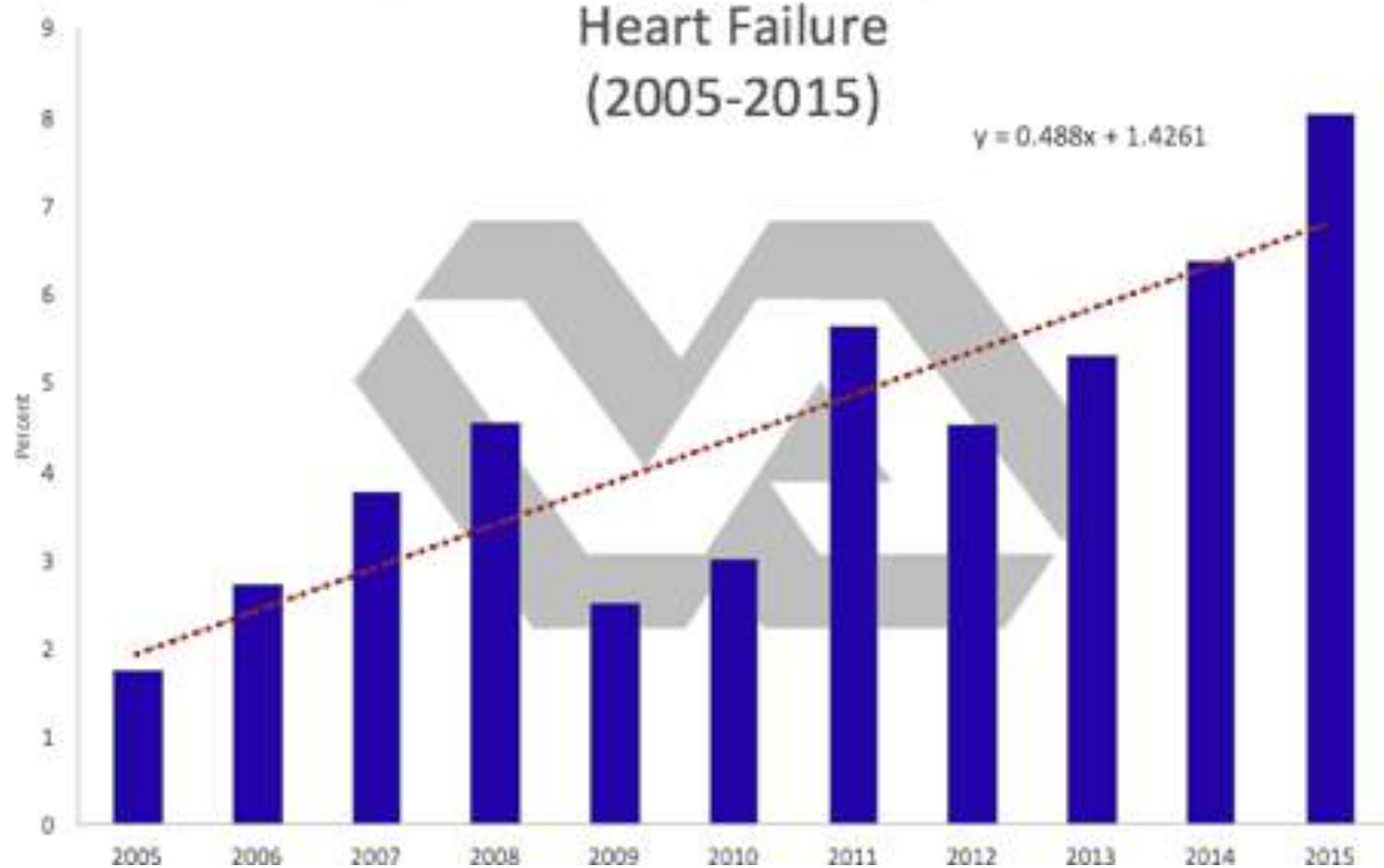
Figures

Circulation

November 14, 2017
Vol 136, Issue
suppl_1

Article Information

Methamphetamine Use Among Patients with Heart Failure (2005-2015)



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BRILLIANT EARTH



Deputies: Woman goes into cardiac arrest after consuming meth during traffic stop

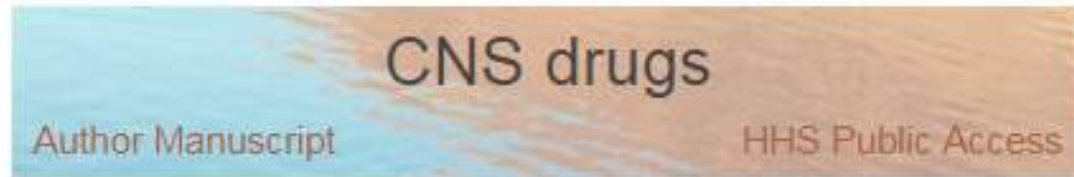
By: Kelly Healey

Updated: Jun 11, 2019 - 8:10 AM



Medical Consequences:

Psychiatric



Methamphetamine Psychosis: Epidemiology and Management

Suzette Glasner-Edwards, Ph.D. and Larissa J.
Mooney, M.D.

Medical Consequences:

- Confusion.
- Delusions.
- Intense paranoia.
- Feeling self-conscious in public.
- Visual and auditory hallucinations.

Psychiatric



CRAZY

Medical Consequences:

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NEWS

Skin Manifestations May Signal Crystal Meth Use: Think 'meth mites' when patients are picking at their skin and think they have insects crawling on them.

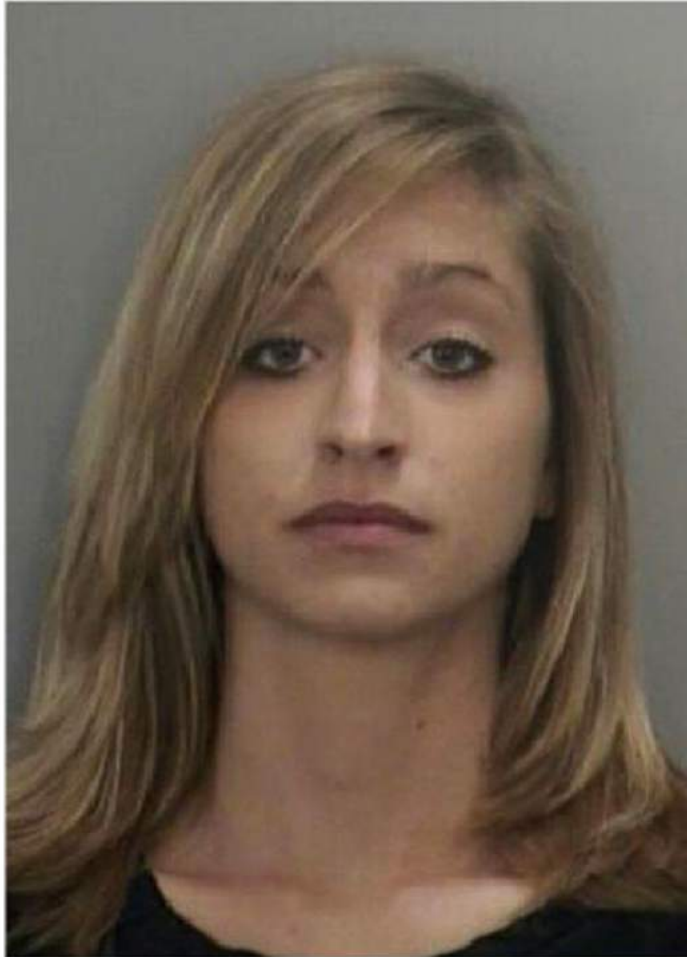
Publish date: January 15, 2006

By [Joyce Frieden](#)

Psychiatric

Medical Consequences:

Skin



1 AGE: 22



2 AGE: 23

<https://metro.co.uk/2016/01/27/before-and-after-pics-of-crystal-meth-users-are-enough-to-put-you-off-for-life-5648453/>

Medical Consequences:

Teeth



<https://www.therecoveryvillage.com/meth-addiction/meth-mouth/#gref>

Medical Consequences:



Alcohol Abuse ▾ Drug Addiction ▾ Addiction Treatment ▾ Our Rehab Centers ▾ Treatment By Sta

Home > Met

100



Teeth

Meth Mouth: Every Dentist's Worst Nightmare

After as little as one year using the notorious street drug methamphetamine, users can develop oral hygiene symptoms commonly known as "meth mouth" – a frightening case of extensive oral damage, tooth decay and gum disease. Meth mouth is incurable and in many cases can lead to tooth extraction. Meth, short for methamphetamine, is common on the streets, but is also sometimes prescribed to treat severe cases of attention deficit hyperactivity disorder, commonly known as ADHD, and narcolepsy. Meth is the most abused synthetic drug in America, with more than 25 million addicts worldwide from its euphoric highs. Used as a recreational stimulant, it can be ingested in a number of ways – swallowed, snorted, injected and smoked – but smoking this substance is the most dangerous, providing quicker access to the brain and bloodstream. Meth has double the potency of cocaine and is extremely addictive. **Although meth mouth is the most common side effect of methamphetamine abuse, the drug carries many other side effects. Other symptoms of meth abuse and addiction include:**

<https://www.therecoveryvillage.com/meth-addiction/meth-mouth/#gref>

Social Consequences:



What can we do about it?

Treatment:

The NEW ENGLAND JOURNAL of MEDICINE

ORIGINAL ARTICLE

Bupropion and Naltrexone in Methamphetamine Use Disorder

M.H. Trivedi, R. Walker, W. Ling, A. dela Cruz, G. Sharma, T. Carmody, U.E. Ghitza, A. Wahle, M. Kim, K. Shores-Wilson, S. Sparenborg, P. Coffin, J. Schmitz, K. Wiest, G. Bart, S.C. Sonne, S. Wakhlu, A.J. Rush, E.V. Nunes, and S. Shoptaw

ABSTRACT

BACKGROUND

The use of naltrexone plus bupropion to treat methamphetamine use disorder has not been well studied.

METHODS

We conducted this multisite, double-blind, two-stage, placebo-controlled trial with the use of a sequential parallel comparison design to evaluate the efficacy and safety of extended-release injectable naltrexone (380 mg every 3 weeks) plus oral extended-release bupropion (450 mg per day) in adults with moderate or severe methamphetamine use disorder. In the first stage of the trial, participants were

The authors' full names, academic degrees, and affiliations are listed in the Appendix. Address reprint requests to Dr. Trivedi at the University of Texas Southwestern Medical Center, 5323 Harry Hines Blvd., Dallas, TX 75390-9119, or at madhukar.trivedi@utsouthwestern.edu.

N Engl J Med 2021;384:140-53.

DOI: 10.1056/NEJMoa2020214

Copyright © 2021 Massachusetts Medical Society.

What can we do about it?

Adverse events with naltrexone–bupropion included gastrointestinal disorders, tremor, malaise, hyperhidrosis, and anorexia. Serious adverse events occurred in 8 of 223 participants (3.6%) who received naltrexone–bupropion during the trial.



Here is the problem: “nine months to get over the craving and depression”

Sixty-one percent of the sample relapsed to MA use within 1 year after treatment discharge and 25% during years 2-5.

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4550209/>

What can we do about it?



LYNN KAWANO INVESTIGATES

DR. MARK BAKER

ER DOCTOR, ENDMETH.ORG FOUNDER

**don't just stand there
-- do something**



The Mission of ENDMETH is to reduce meth use with:

**Community
Awareness,
Education and
Prevention**

It will take all of us to do this.

What can we do about it?

Prevention



~~ENDMETH~~



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Methamphetamine



DrugFacts

Revised May 2019



“ Cite this article

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- [Health Effects of Specific Drugs](#)
- [Effects of Drug Use](#)
- [Prevention and Treatment](#)
- [Survey Data](#)

What is methamphetamine?

Methamphetamine is a powerful, highly addictive stimulant that affects the central nervous system. Crystal methamphetamine is a form of the drug that looks like glass fragments or shiny, bluish-white rocks. It is



Crystal methamphetamine

Photo by DEA

Additional Drug Facts





SAMHSA

Substance Abuse and Mental Health
Services Administration

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Methamphetamine



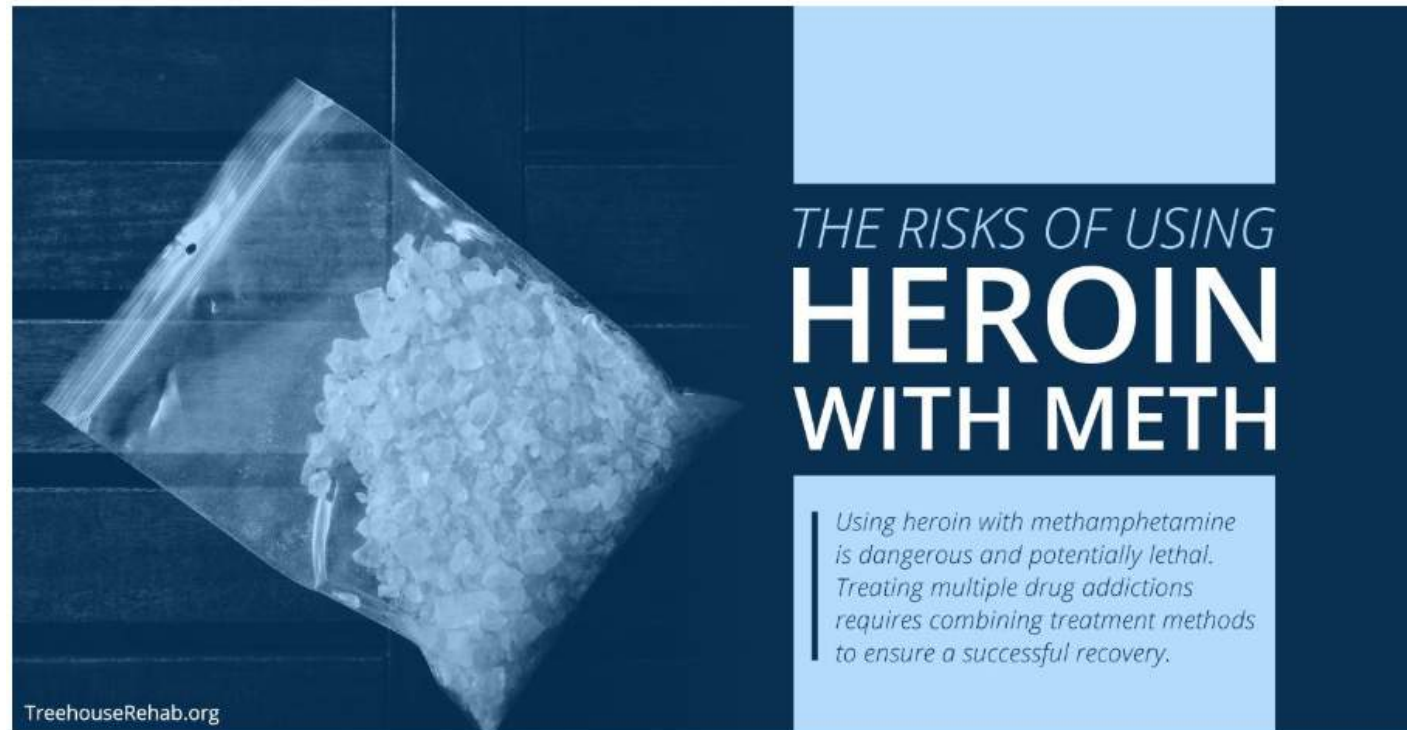
Know the Risks of Meth

Methamphetamine (meth) is a powerful, highly addictive drug that causes devastating health effects, and sometimes death, even on the first try.

Published on March 8, 2018

There are many risks involved when using heroin and methamphetamine together, as both are potent drugs. The combination can cause toxic, counteractive effects and potentially death. Abusing these powerful drugs can affect one's health, social life, increase risky behaviors and damage or end relationships.

Home > Blog > Mixing Heroin And Meth



Effects Of Meth
Effects Of Heroin

More on Drug Abuse And Addiction

Related Content

[5 Signs Your Loved One Is Addicted To Heroin](#)

[7 Signs Of Opioid Abuse And Addiction](#)

Questions About Treatment?

We offer 100% confidential substance abuse assessment and treatment placement tailored to your individual needs.

Crystal Meth Anonymous®



What Is Crystal Meth Anonymous?

Crystal Meth Anonymous is a fellowship of people who share their experience, strength and hope with each other, so they may solve their common problem and help others to recover from addiction to crystal meth. The only requirement for membership is a desire to stop using. There are no dues or fees for CMA membership; we are self-supporting through our own contributions. CMA is not allied with any sect, denomination, politics, organization or institution; does not wish to engage in any controversy; and neither endorses nor opposes any causes. Our primary purpose is to lead a sober life and to carry the message of recovery to the crystal meth addict who still suffers.*

**Adapted with permission of the Grapevine of Alcoholics Anonymous.*

[Read more: What Is Crystal Meth Anonymous?](#)

Voices of the Fellowship





Teen Crystal Meth Addiction





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If you're in an emergency or if you fear you are in danger, please call 911 — or go to the nearest emergency room immediately for assistance.

CALL US NOW

HOW WE HELP

**There is so much
more to be
done.**





Mark Baker
endmeth@gmail.com

Questions



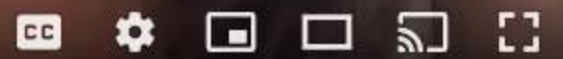
ENDMETH

Talk Story

Nicole

Honolulu, HI

0:00 / 8:08



Nicole October 16, 2021

Unlisted





31 views • Oct 16, 2021

DISLIKE SHARE SAVE ...



'Scott' Meth user Chinatown Honolulu 35yo, - EndMeth

36 views • Aug 21, 2021

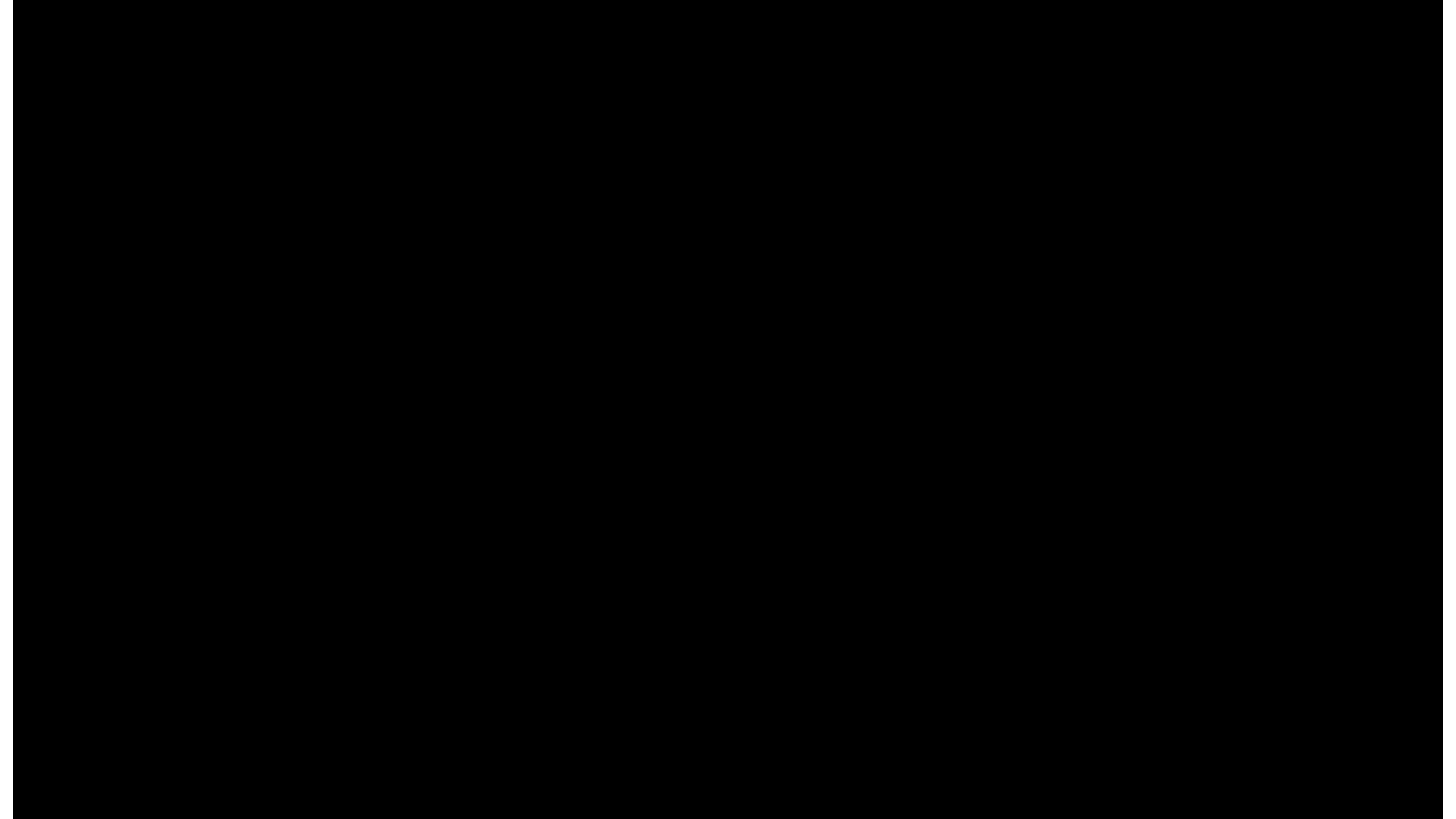
 0  DISLIKE  SHARE  SAVE ...



What's Crystal Meth Addiction Like with CG Kid.

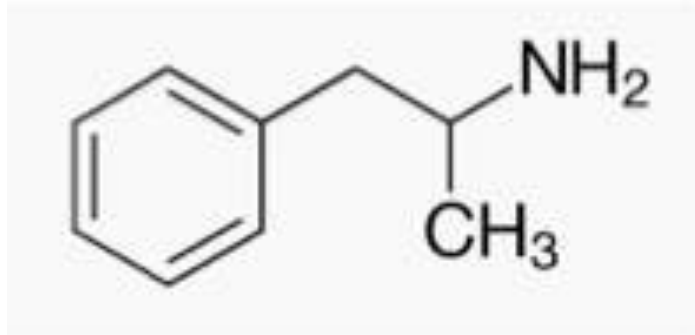


<https://www.facebook.com/watch/?v=3148556601852042>

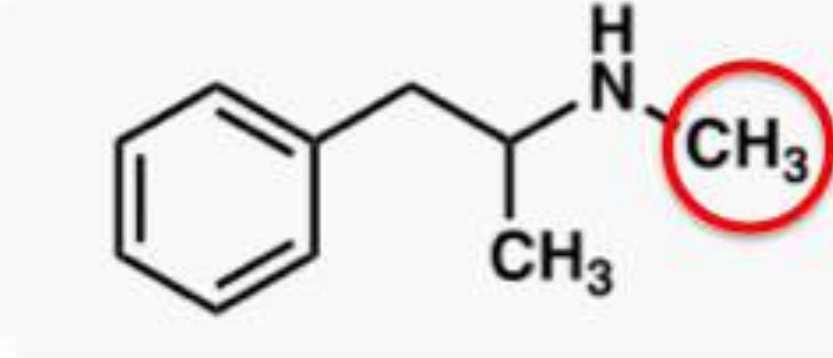


“People in Hawai’i are the guinea pigs for the spread of smokeable crystal methamphetamine into the U.S.” — U.S. Atty. Daniel Bent.”

Chemistry Lesson



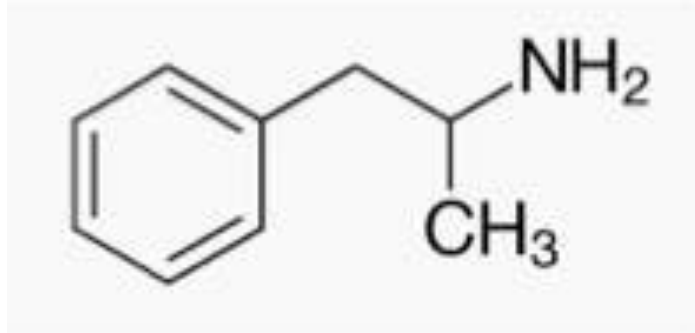
Adderall
(Amphetamine)



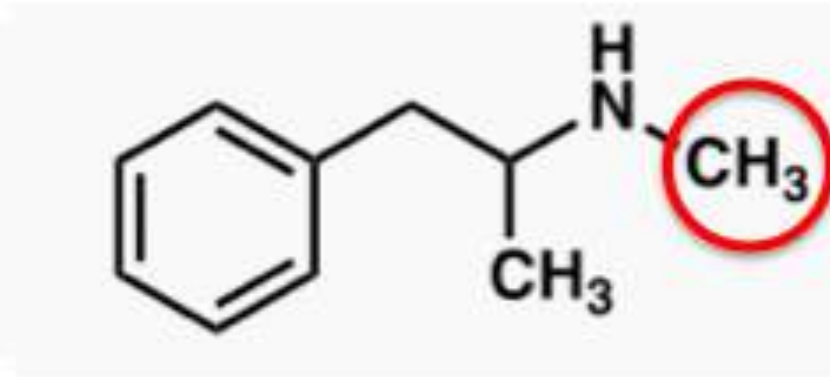
Methamphetamine
(Crystal meth)

What is methamphetamine?

Add the CH₃ to Amphetamine



Adderall
(Amphetamine)



Methamphetamine
(Crystal meth)

Quiz: multiple choice

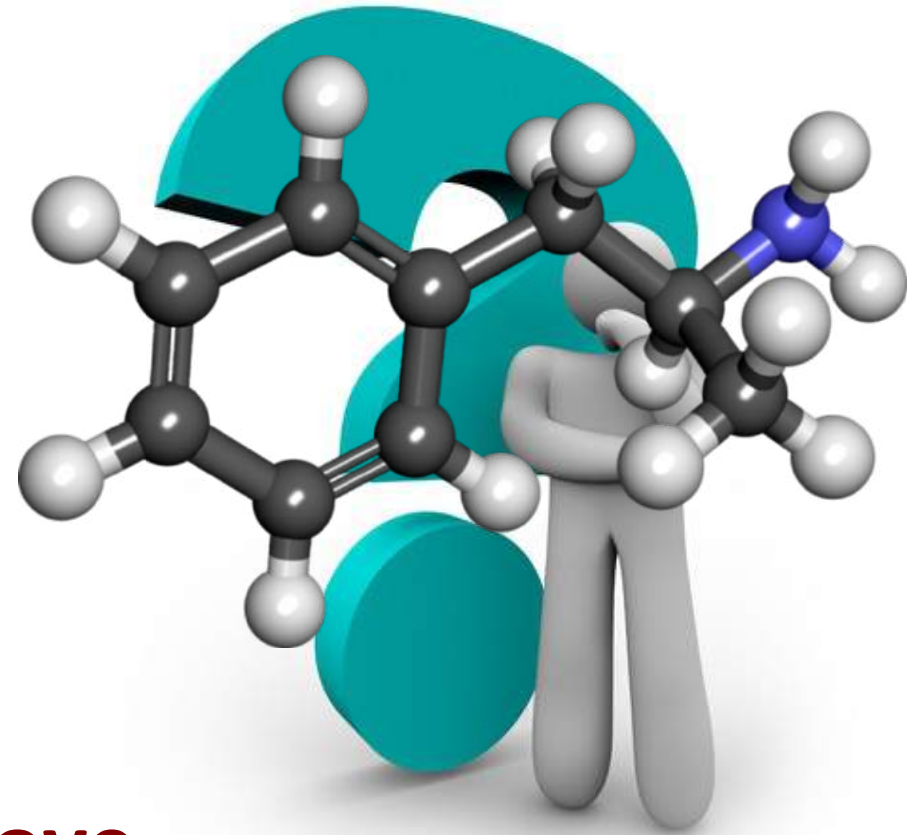
How is methamphetamine different than amphetamine?

A: 'meth' is added to amphetamine

B: meth has a longer half-life

C: meth has one more carbon

D: meth is cheaper



The answers are: all of the above

How big is the problem?

Los Angeles Times



Use of Highly Addictive 'Ice' Growing in Hawaii : Drugs: This smokable form of methamphetamine that ravages the minds and bodies of users has spread rapidly because it offers an intense, prolonged high without the use of needles.

When was this LA Times article written?

A: 1989

B: 1999

C: 2009

D: 2019



Los Angeles Times

How big is the problem?

Crack, the smokable form of cocaine, is yesterday's headline here. Hawaii today is the front line for crystal methamphetamine, or "ice," a potent smokable form of methamphetamine that originated in Asia.

Los Angeles Times

How big is the problem?

“People in Hawaii are the guinea pigs for the spread of smokable crystal methamphetamine into the U.S.,” said U.S. Atty. Daniel Bent. “What’s happening here is just a sample of what’s to come.

Los Angeles Times

When was this LA Times article written?

A: 1989

B: 1999

C: 2009

D: 2019



Los Angeles Times

And now?

Los Angeles Times

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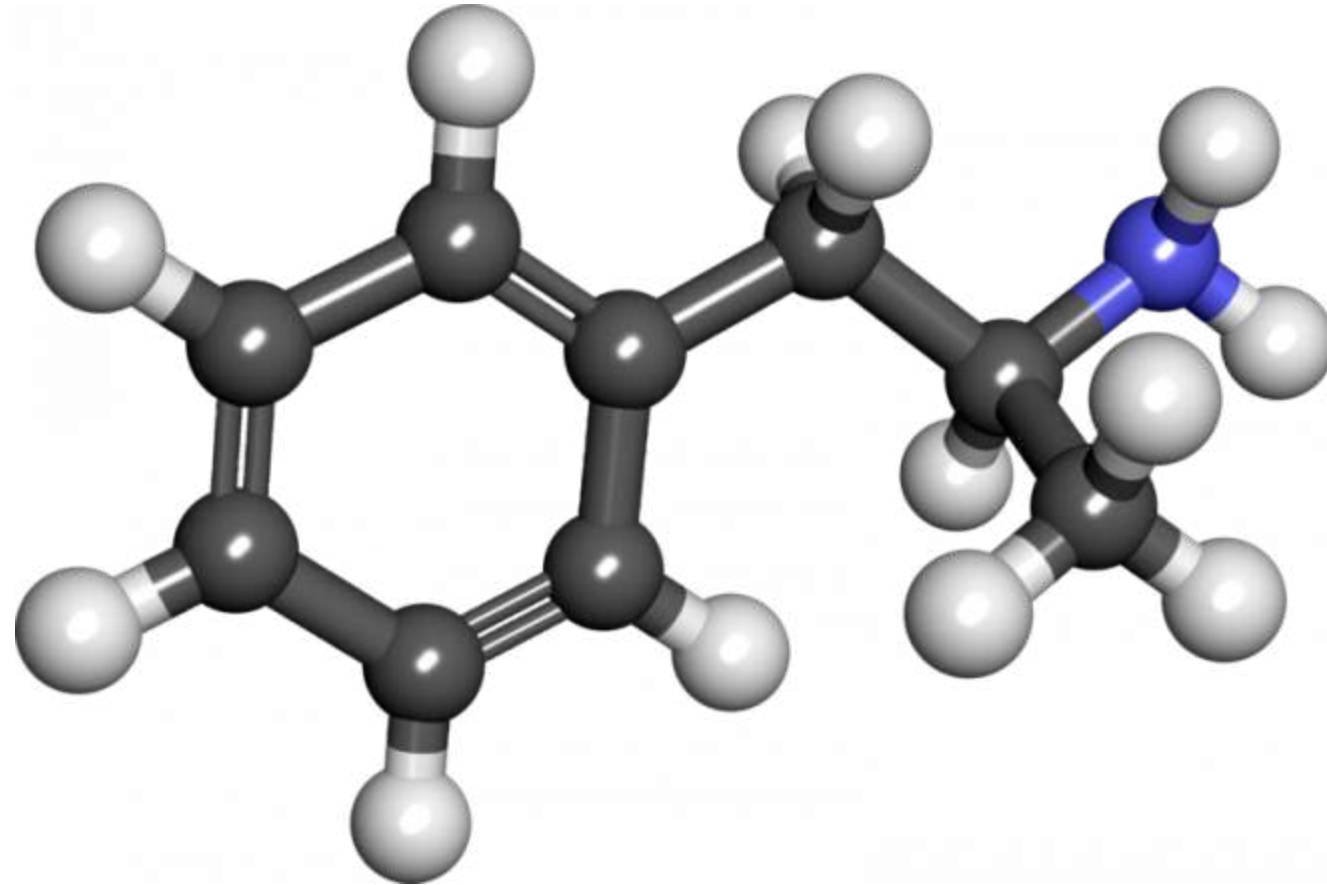
Column: Meth addiction is an epidemic, and it's complicating the homeless relief effort

By STEVE LOPEZ | COLUMNIST | JUNE 29, 2019 | 5 AM

Los Angeles, 2019: Steve Lopez

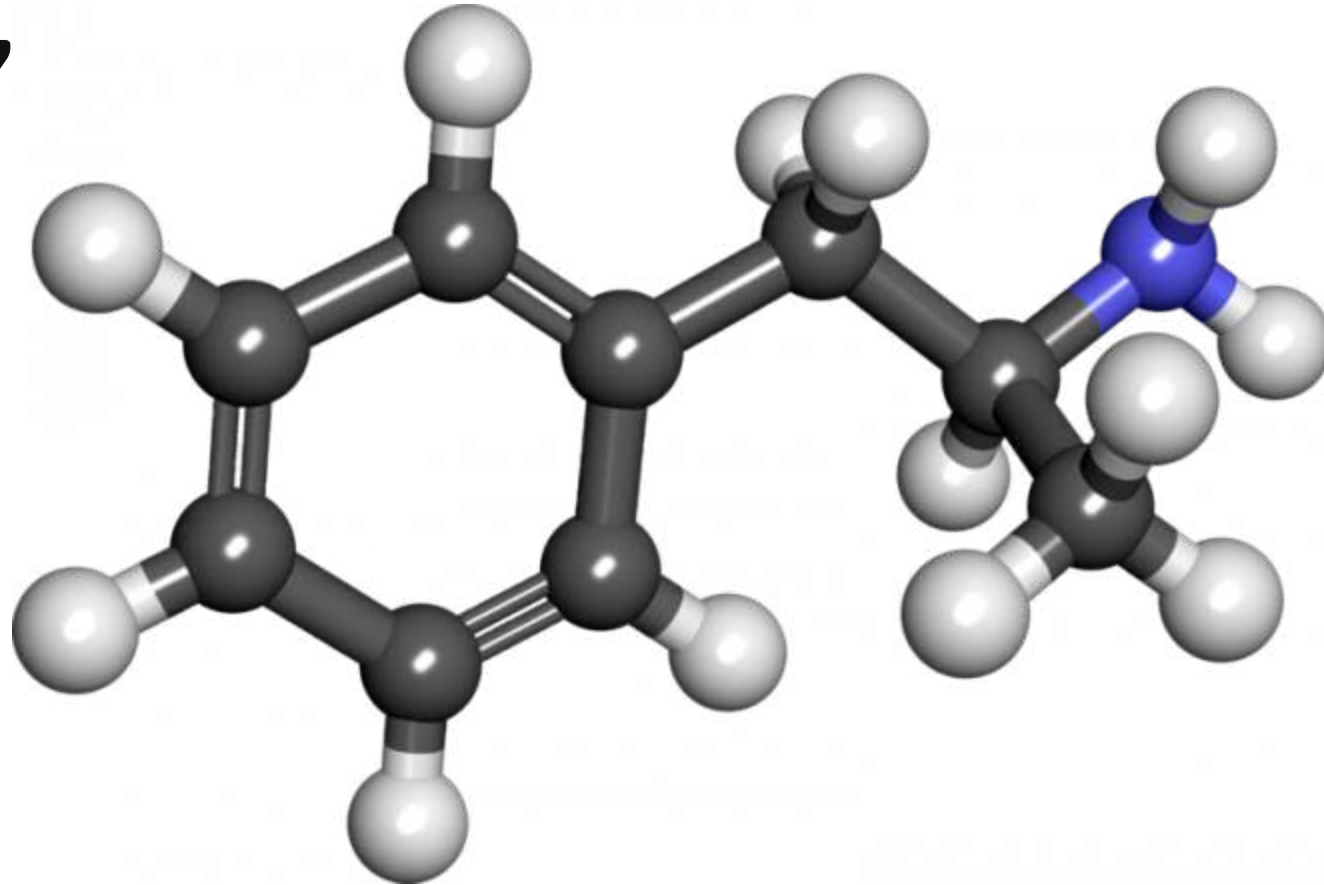
**Addiction and all its consequences
are on full display in Los Angeles
County, where the latest sprawl is
measured in tents rather than
houses.**

What do people call it?



https://www.google.com/url?sa=i&source=images&cd=&ved=2ahUKEwiM2Mmg4b_IAhWFv54KHXB3CDoQjRx6BAgBEAQ&url=https%3A%2F%2Fmethamphetaminepp.weebly.com%2F&psig=AOvVaw3T0SMfQgq6qfVslQz5ZNBj&ust=1572379753008173

**Meth, Ice, Speed, Crank, Chalk, Wash, Dunk,
Scooby snax,
Trash,
Pookie,
Rocket fuel,
Gak**



How addictive is it?



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PATTERNS OF USE AND HARMS ASSOCIATED WITH SPECIFIC POPULATIONS OF METHAMPHETAMINE USERS IN AUSTRALIA - EXPLORATORY RESEARCH

6. Specific types of methamphetamine users and behavioural contexts

📅 Page last updated: February 2008

[6.1 Overview of behavioural contexts and target audiences](#)

[6.2 Social use](#)

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6.1 Overview of behavioural contexts and target audiences

When attempting to categorise users, the research found that discriminating factors relate more to behaviour and motivation for use rather than purely



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Notes on the research

List of tables and figures

1. Executive summary

2. Background to the research

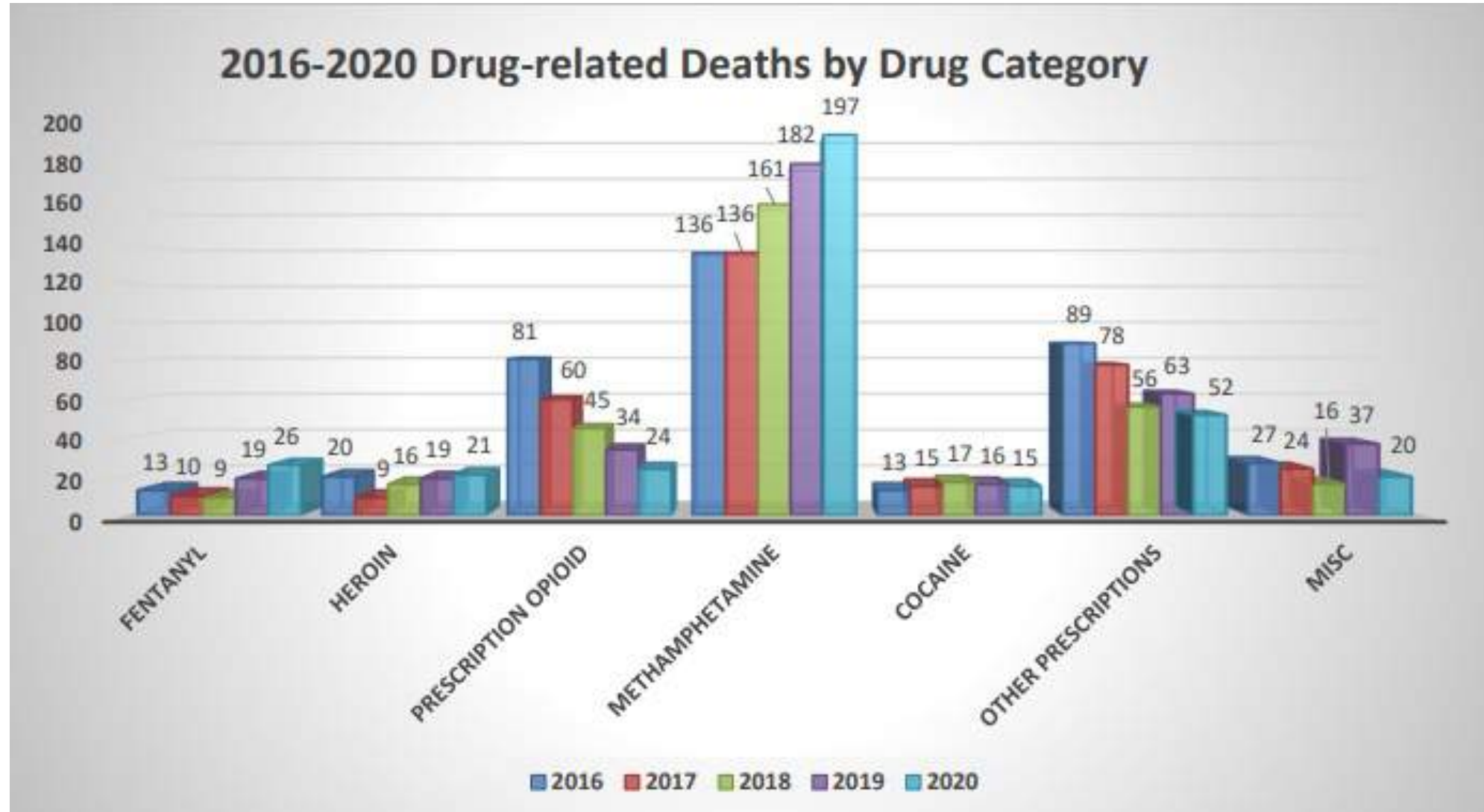
3. Research objectives

4. Methodology

5. Understanding the broad context of methamphetamine use

6. Specific types of methamphetamine

Meth is death in Hawaii:



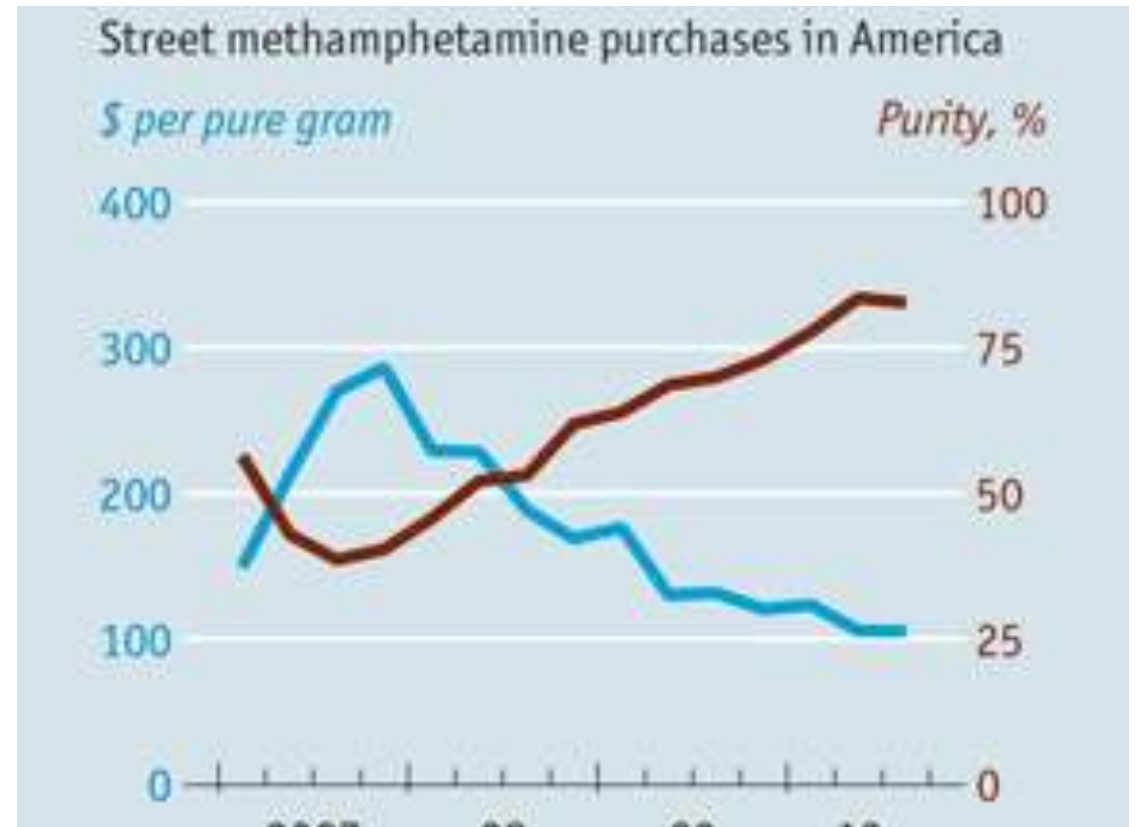
How hard is it to get?

**“Meth is like
candy in ***”**



How much does it cost?

**Getting cheaper
all the time**



Why is it cheaper?

See this article:

‘I DON’T KNOW THAT I
WOULD EVEN CALL IT METH
ANYMORE’

Different chemically than it was a decade ago, the drug is creating a wave of severe mental illness and worsening America’s homelessness problem.

By Sam Quinones

<https://www.theatlantic.com/magazine/archive/2021/11/the-new-meth/620174/>



What does it look like?



Forms of Meth

Methamphetamine is a central nervous system stimulant with a high potential for abuse and dependence. A synthetic drug, methamphetamine is closely related chemically to amphetamine, but produces greater effects on the central nervous system. The drug's euphoric effects are similar to, but longer lasting than those of cocaine. It generally comes in three forms:



Powder:
a white, odorless, and bitter-tasting

crystalline powder, readily soluble in water or alcohol.



Crystal:
Users smoke chunks of a very pure form of

crystalline methamphetamine called "Ice".



Rock:
Big chunks of the drug, usually found in

yellow, are usually ingested orally.

How many people die from it?



My 'Personal Experience'

It used to be a few patients



My 'Personal Experience'

**Now there are too many
to count.**



What can we do about it?

Prevention: ask and warn your patients



CDC October 2019: Meth overtakes opiates

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Centers for Disease Control and Prevention
1600 Clifton Road, NE Atlanta, Georgia 30333

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National Center for Health Statistics

CDC > NCHS > National Vital Statistics System > Vital Statistics Rapid Release > Surveillance Activities



Vital Statistics Rapid Release - Monthly Provisional Drug Overdose Death Counts

Provisional Drug Overdose Death Counts

Recent improvements in timeliness and data quality over the last year have prompted a re-evaluation of the length of time that data quality requirements have had to be met for states to be included in "Figure 2. 12 Month-ending Provisional Number of Drug Overdose Deaths by Drug or Drug Class." As a result of this re-evaluation, trends for additional states are presented in Figure 2. Additional states will be added as they meet data quality and timeliness requirements. Please see the **Technical Notes** of the dashboard for more information.

This data visualization presents provisional counts for drug overdose deaths based on a current flow of mortality data in the National Vital Statistics System. Counts for the most recent final annual data are provided for comparison. National provisional counts include

On This Page

- [Dashboard](#)
- [Data Tables for Current Dashboard](#)
- [Technical notes](#)
- [Nature and sources of data](#)
- [Cause-of-death classification and definition of drug deaths](#)
- [Selection of specific states and other jurisdictions to report](#)



Meth is most common drug in overdose deaths in chunk of US

By MIKE STOBBE October 25, 2019



📄 Click to copy

NEW YORK (AP) — Fentanyl is driving drug overdose deaths in the U.S. overall, but in nearly half of the country, it's a different story. Meth is the bigger killer, a new government report shows.

Nationwide, most deaths still involve opioid drugs like fentanyl and heroin. But in 2017, the stimulant meth was the drug most frequently involved in deaths in four regions that include 19 states west of the Mississippi.

The report released Friday by the Centers for Disease Control and Prevention is the agency's first geographic breakdown of deaths by drug. It's based on 2017 figures when there were more than 70,000 overdose deaths in the U.S., two-thirds of them involving opioids.

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HEALTH NEWS

Fentanyl kills more people in the East, meth in the West

The drugs behind deadly overdoses vary across the United States.

Oct. 25, 2019, 8:30 AM UTC

By Erika Edwards

The drugs driving [overdose deaths](#) vary depending on where you live in the U.S., a government report published Friday found.



U.S.

Meth Is Top Drug in the West for Overdose Deaths

Fentanyl remains the top drug in overdose deaths nationwide, but methamphetamine is becoming more prevalent

By *Jennifer Calfas*

Oct. 25, 2019 1:29 pm ET

Methamphetamine, or “meth,” the powerful man-made alternative to plant-based stimulants like cocaine and crack, is playing a bigger role in fatal overdoses in the western half of the U.S. than the synthetic opioid fentanyl.

A new report from the Centers for Disease Control and Prevention—marking the first time the agency has broken down regional differences in overdose deaths by specific drugs—shows that meth was the top drug involved in overdose deaths in 19 states west of the Mississippi River in 2017.



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THE SHOW

CDC Report: Meth Is More Popular On The West Coast Than Heroin, Fentanyl

By **Lauren Gilger**

Published: Monday, October 28, 2019 - 1:45pm

Updated: Monday, October 28, 2019 - 1:51pm

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