



CURRENT RESEARCH & EPIDEMIOLOGY AT THE CENTER ON SUBSTANCE USE AND HEALTH

Phillip Coffin MD

6 August 2024



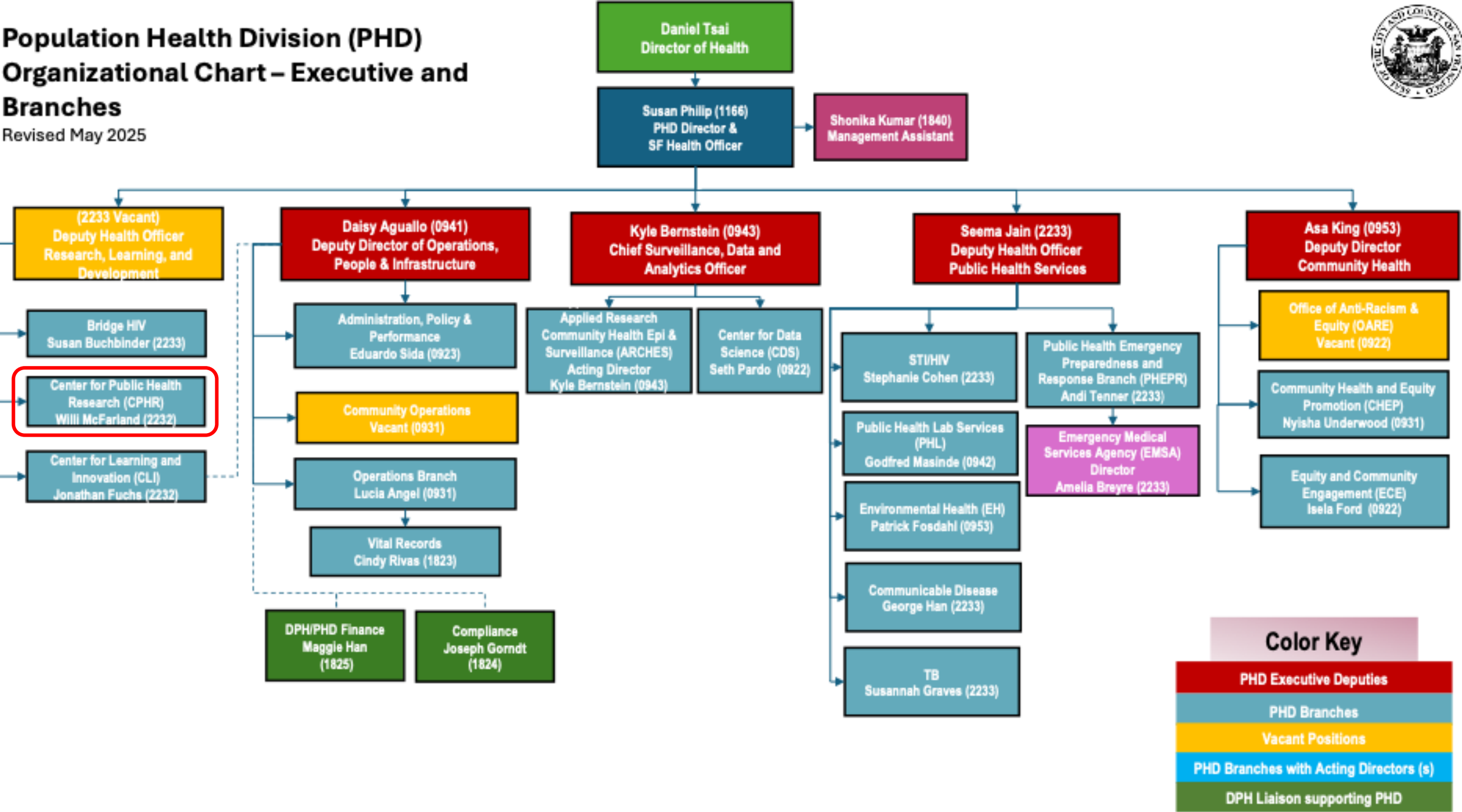
POPULATION HEALTH DIVISION
SAN FRANCISCO DEPARTMENT OF PUBLIC HEALTH



Population Health Division (PHD)

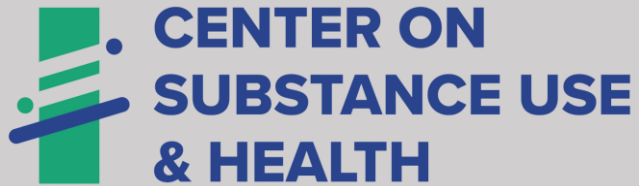
Organizational Chart – Executive and Branches

Revised May 2025



Creating better health outcomes for all people who use substances

We study and support pharmacologic, behavioral, and system interventions addressing substance use and related health outcomes.



~ 20 staff (down from 30):

- Investigators
- Research Clinicians
- Research Analysts/Epidemiologist
- Study Managers
- Community/Recruitment Manager
- Research Associates
- Recruitment Staff
- Interns and Fellows

CSUH PROJECTS

ACTIVE

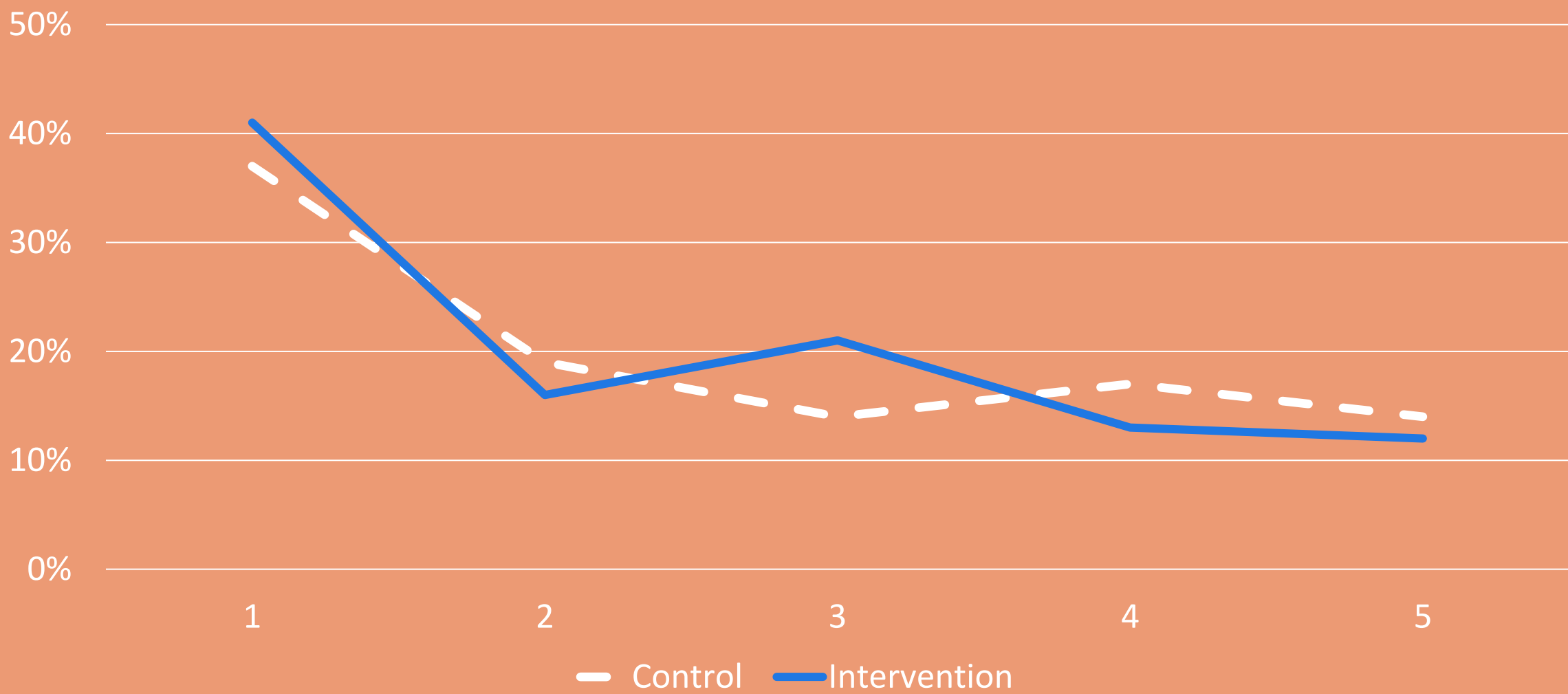


RECENT

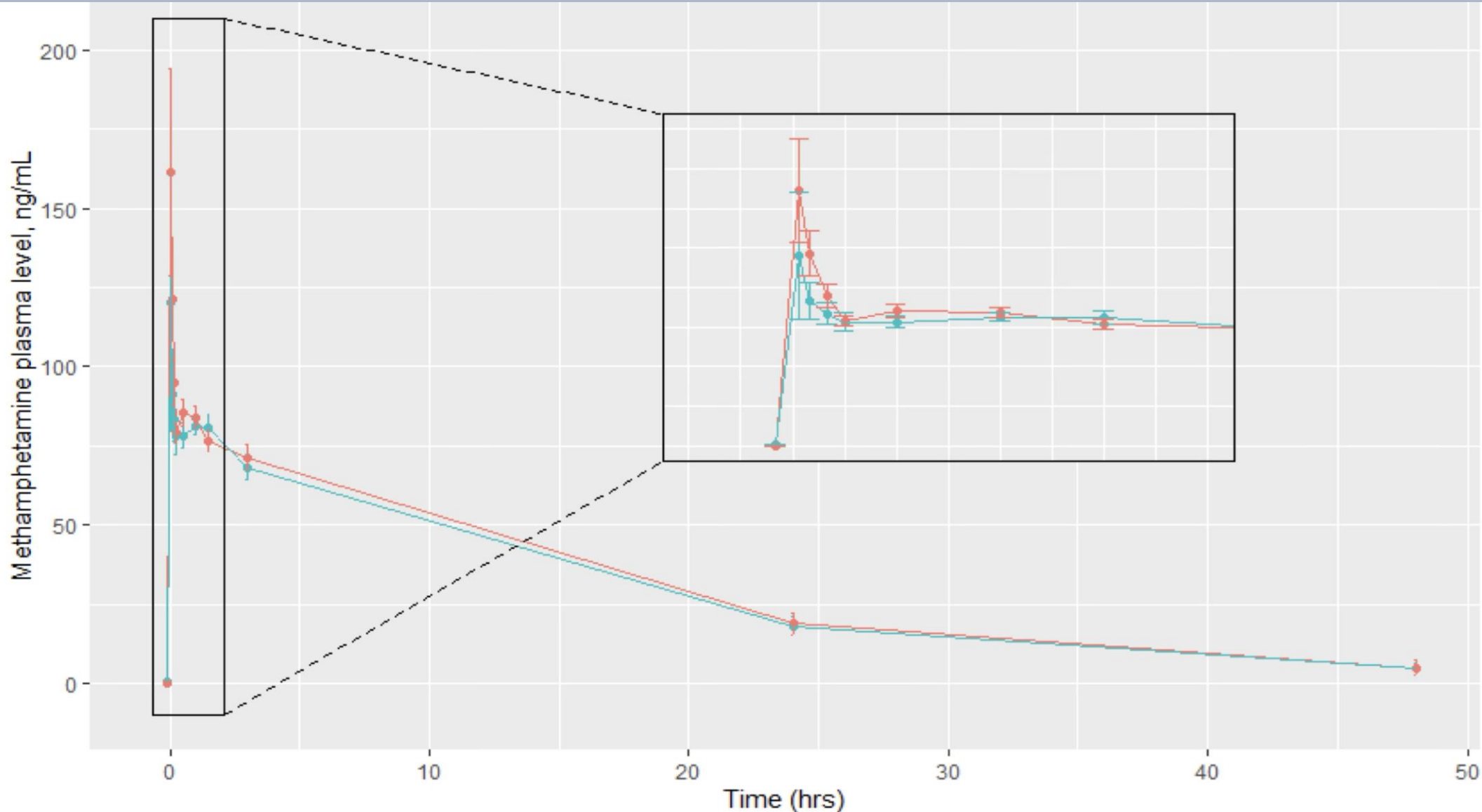


REBOOT 2.0 – Phase III trial for opioid overdose prevention

Negative trial, possibly due to prevalence of OD education or shift to fentanyl



M3.0 – No drug-drug interactions for mirtazapine and methamphetamine



Use meth?



Help contribute to finding the first potential FDA-approved medication to treat meth use.

Earn up to \$2,430



YOUR HEALTH

You're worthy of care. The services below are especially important for people who use drugs, and most community clinics can provide them.



INFECTIONS

Vaccines

Vaccines prevent serious diseases and many cancers. **Recommended:** hepatitis A and B, tetanus, mpox, meningitis, pneumococcal pneumonia, HPV, COVID, and influenza.

Screening

Get tested at least once a year for HIV, hepatitis C, syphilis, gonorrhea, chlamydia, and tuberculosis.

HIV/STI prevention

Ask your provider about PrEP for HIV and doxyPEP for STI prevention.

BUPRENORPHINE (bupe, s

WHAT CAN BUPE DO FOR ME?

Reduces cravings and withdrawal



Protects against opioid overdose



Of the medication help people reduce stop opioid use buprenorphine is

It mostly **protects** y other opioids, so y **pretty normal** w without other op



STIMULANTS

cocaine & methamphetamine

People use stimulants for many reasons



Ask yourself:

HEALTH EFFECTS OF STIMULANTS

Stimulants used in high doses over time can **harm the heart and brain.**

Stimulants tighten blood vessels and cause

4-tier approach to caring for patients who use stimulants

Assessment

- Be non-judgmental and trauma-informed.
- Learn why the patient uses stimulants and their perception of risks and benefits.
- Use the DSM-5 to diagnose use disorders.



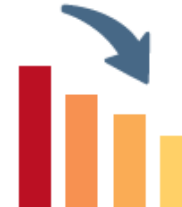
Routine prevention

- Ensure the patient is up-to-date on vaccines and infection screening and has access to overdose prevention and safer drug use supplies.



Use reduction

- Offer evidence-based strategies to stop or reduce stimulant use.
- Consider both behavioral and pharmacologic interventions.

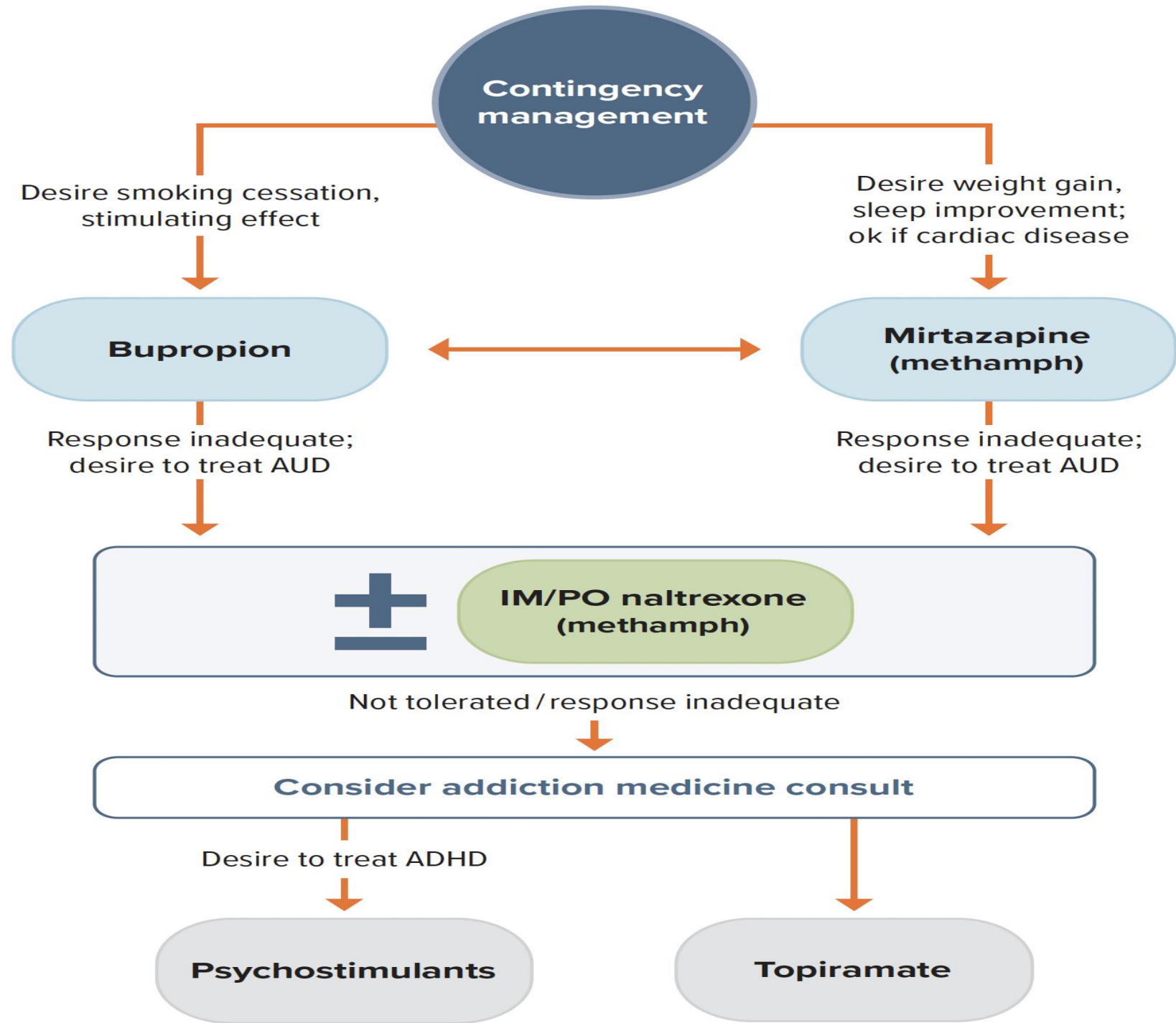


Toxicity prevention

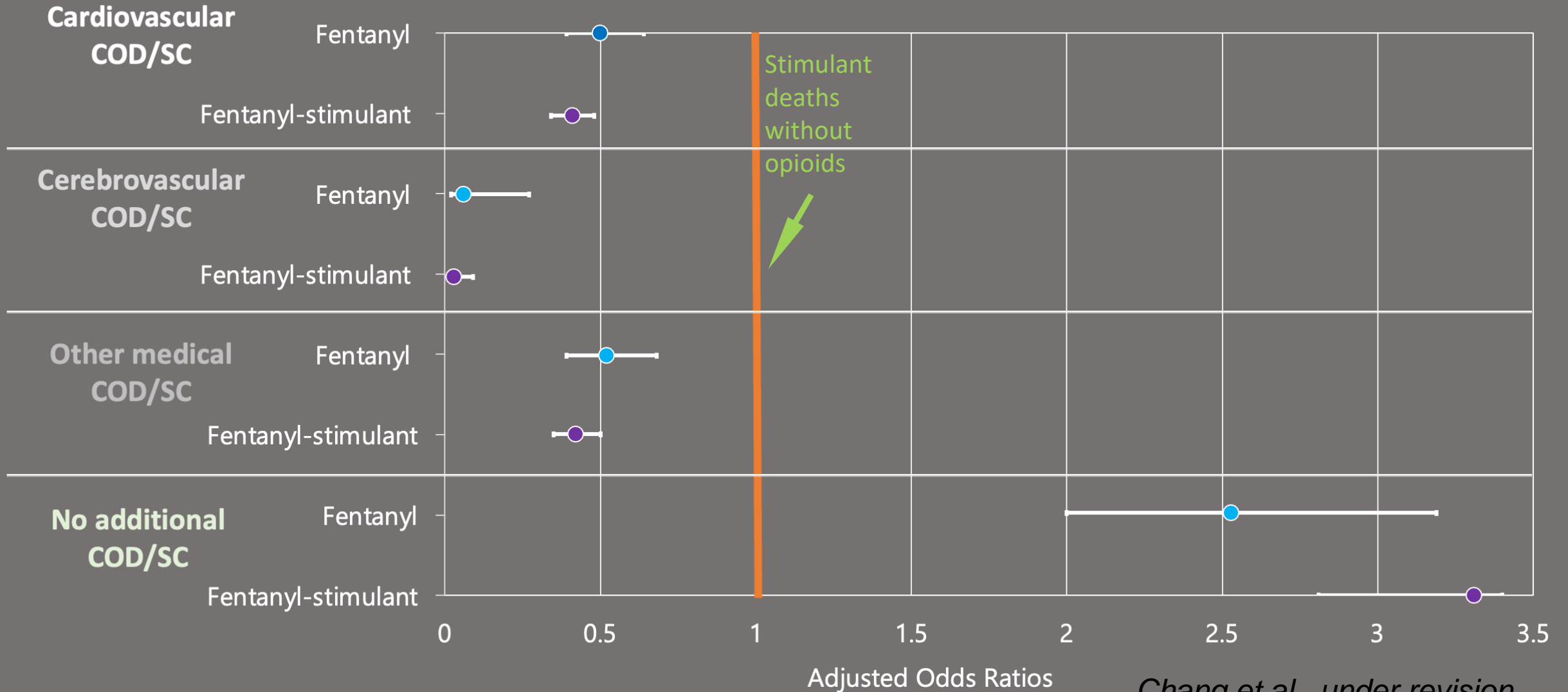
- Consider strategies for reducing the cardiovascular and neuropsychiatric harms of continued stimulant use.



OFF-LABEL TREATMENTS FOR REDUCING STIMULANT USE

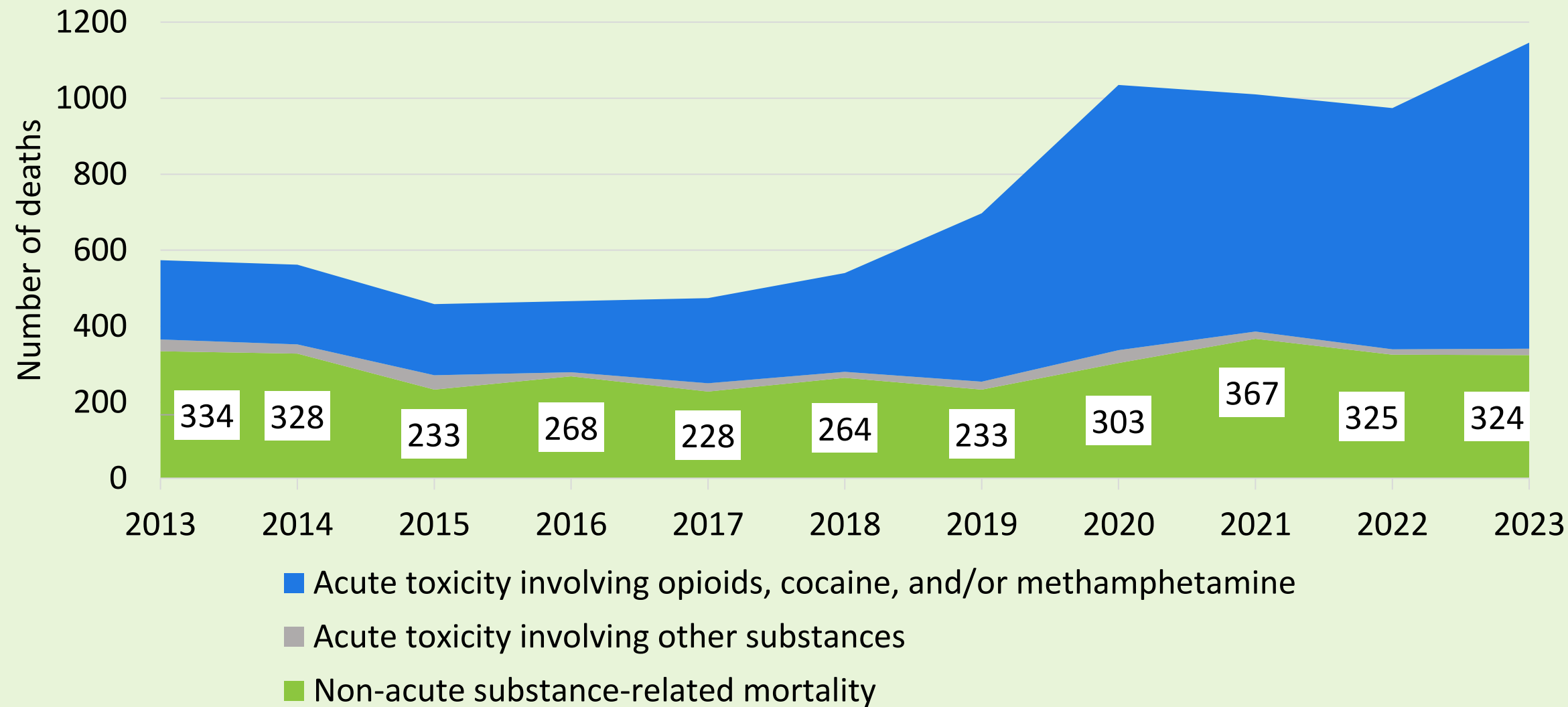


Additional Causes of Death for Stimulant and Fentanyl Deaths

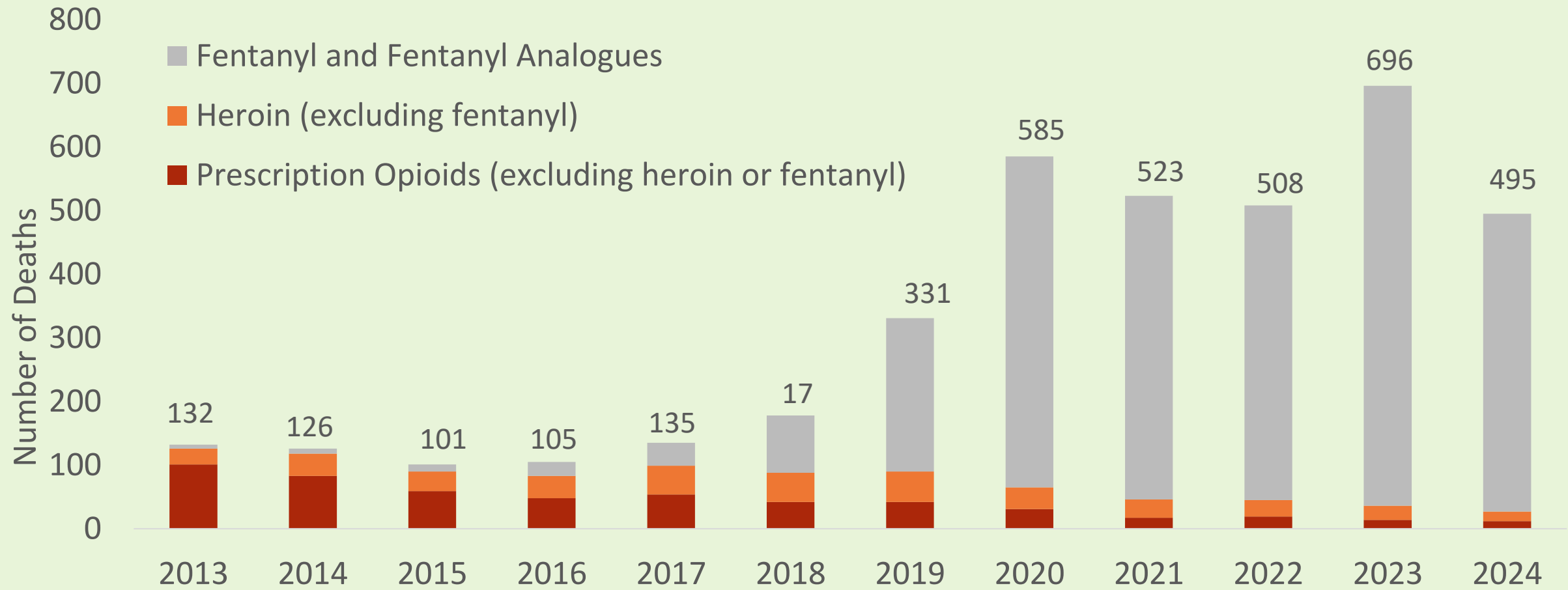


Chang et al., under revision

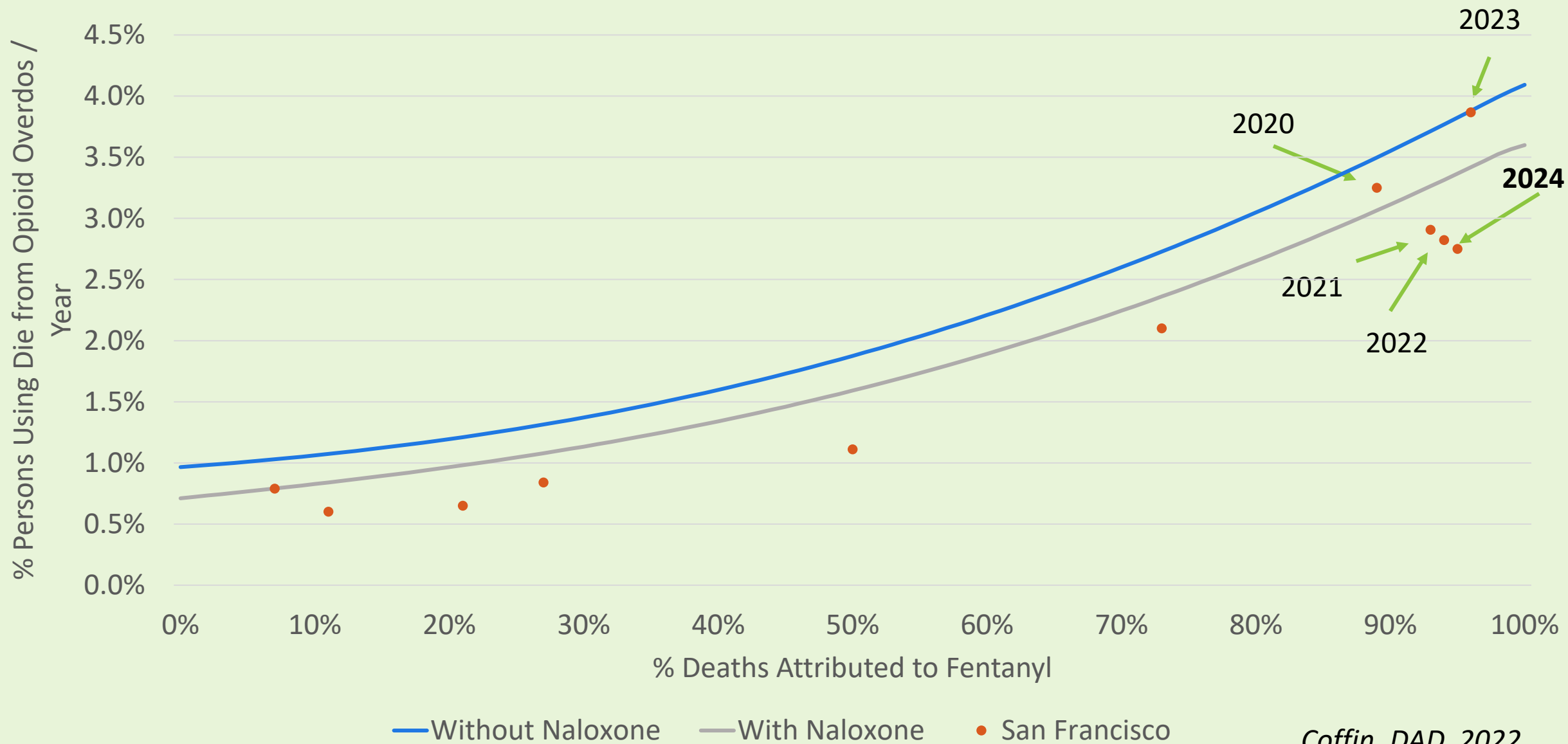
Number of Substance-Related Deaths in SF by Acute v Non-Acute



Opioid Overdose Deaths in SF

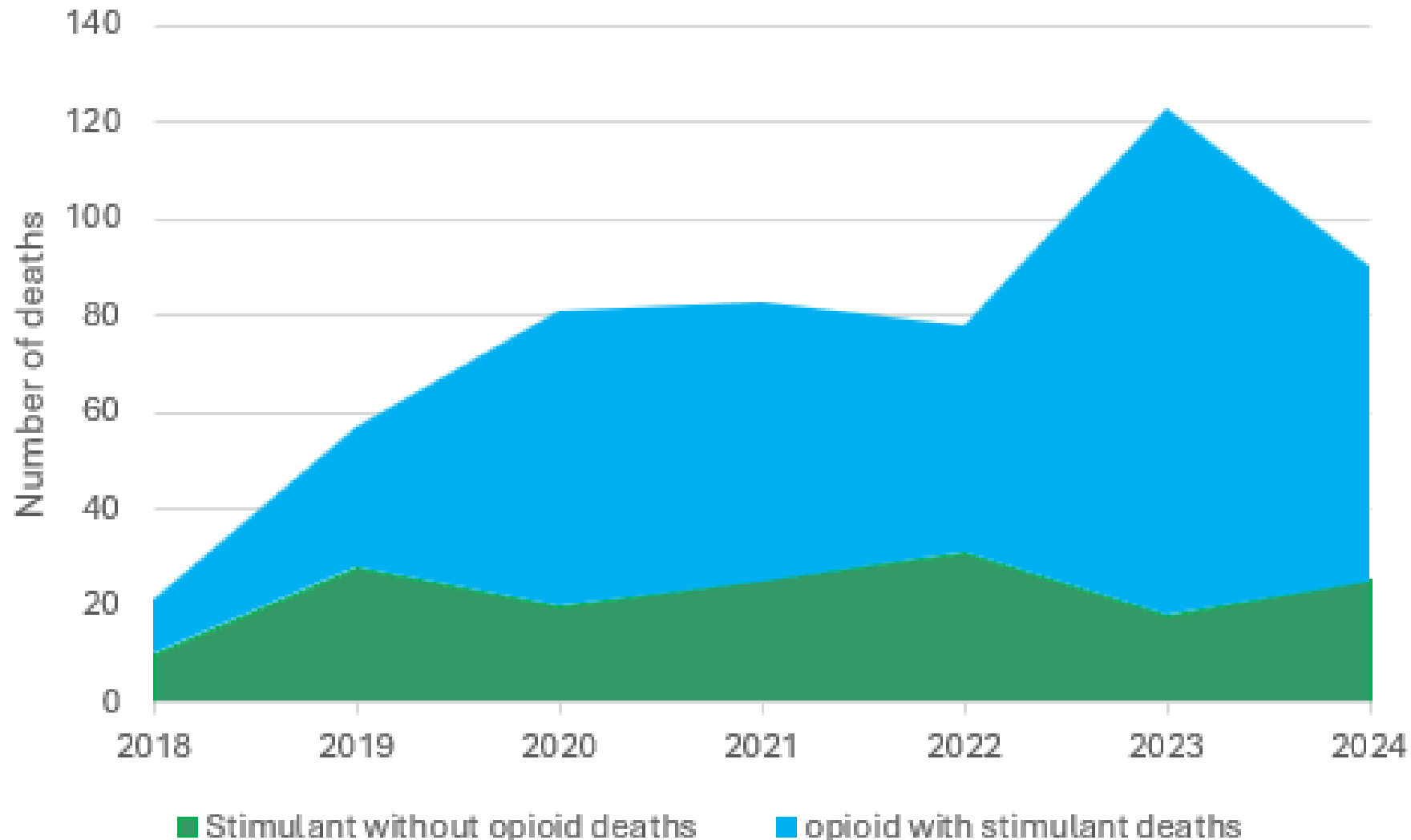


Predicted opioid overdose mortality assuming no change in number of people at risk, with empiric data from San Francisco



Coffin, DAD, 2022

Acute Toxicity Deaths Involving Stimulants Among Black/African American Men Over 50 Years



Conclusions

- CSUH continues efforts to identify effective SUD pharmacotherapies and address comorbid health conditions including HIV
- Fentanyl drives overdose mortality; 2023 appears to be an outlier year
- Stimulant toxicities are cardiovascular and neuropsychiatric, and mostly chronic
- Study results have led to development and deployment of a novel strategy to address stimulant use in clinical practice
- Future is uncertain due to unstable federal landscape





THANK YOU!

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