

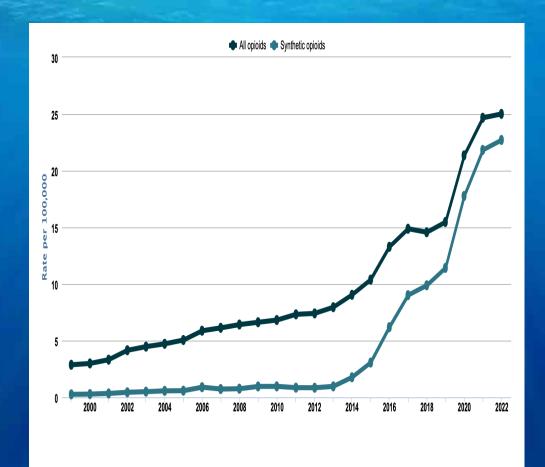


AT BURNET INSTITUTE, WE PROUDLY ACKNOWLEDGE
THE BOON WURRUNG PEOPLE OF THE KULIN NATIONS
AS THE TRADITIONAL CUSTODIANS OF THE LAND ON
WHICH OUR OFFICE IS LOCATED AND RECOGNISE
THEIR CONTINUING CONNECTION TO LAND, WATERS
AND COMMUNITY. WE ACKNOWLEDGE ABORIGINAL AND
TORRES STRAIT ISLANDER PEOPLES AS AUSTRALIA'S
FIRST PEOPLES AND ACKNOWLEDGE THAT SOVEREIGNTY
WAS NEVER CEDED. WE PAY OUR RESPECT TO ELDERS
PAST AND PRESENT, AND EXTEND THAT RESPECT TO
ALL FIRST NATIONS PEOPLE.



Background - Rising deaths in the US and the UK





Source

Centers for Disease Control and Prevention, National Center for Health Statistics via CDC WONDER Database.

Table 1: nitazenes detected in laboratory testing of death cases in England, June 2023 to May 2024

Nitazene detected	Deaths
Protonitazene	73
N-desethyl isotonitazene	46
Metonitazene	34
N-pyrrolidino protonitazene	16
Isotonitazene	2
Etonitazene	2
N-pyrrolidino etonitazene	1
N-desethyl etonitazene	1
Metodesnitazene	1
Unspecified nitazene	17

Research and analysis

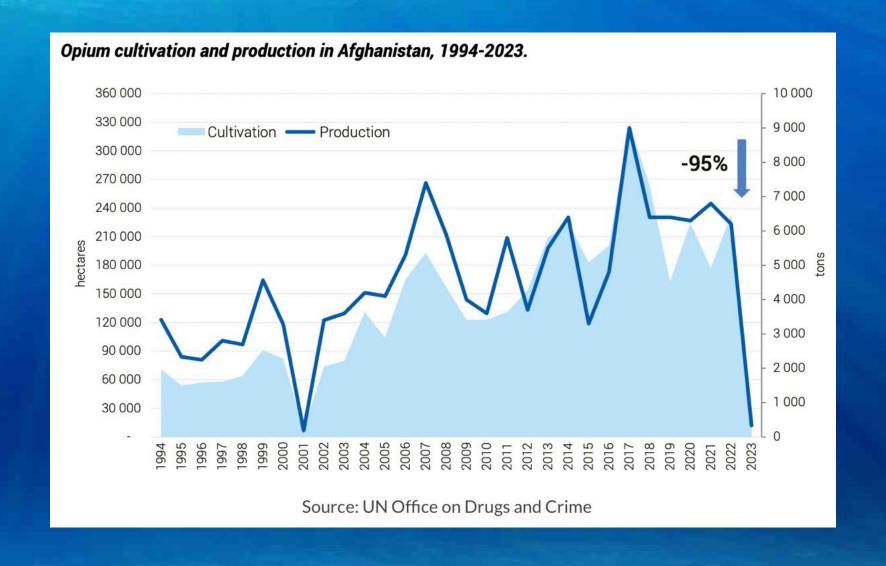
Deaths linked to potent synthetic opioids

Published 3 October 2024

Office for Health Improvement and Disparities

Background – Ban on opium cultivation in Afghanistan 2022





AIMS

- Conduct a scoping review of indicators of NSOs in drug markets in Australia – academic and grey literature
- To understand their emergence in local markets
- And inform responses to reduce harms

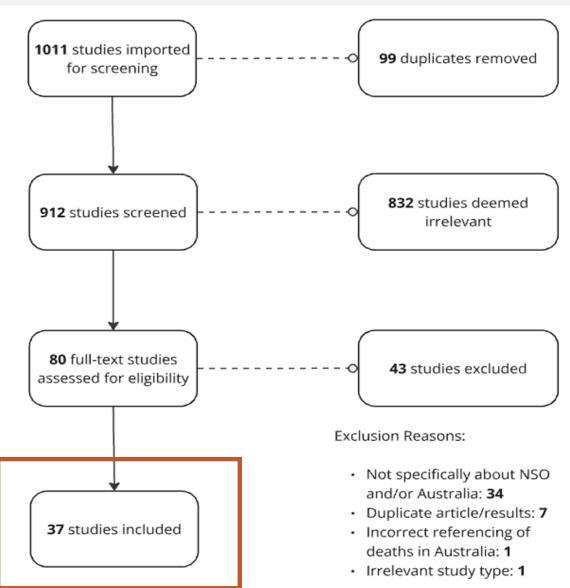
DEFINITION

- Emerging novel psychoactive opioid substances (e.g. fentanyl analogues, U4-7700 nitazenes)
- Excludes illicitly manufactured fentanyl

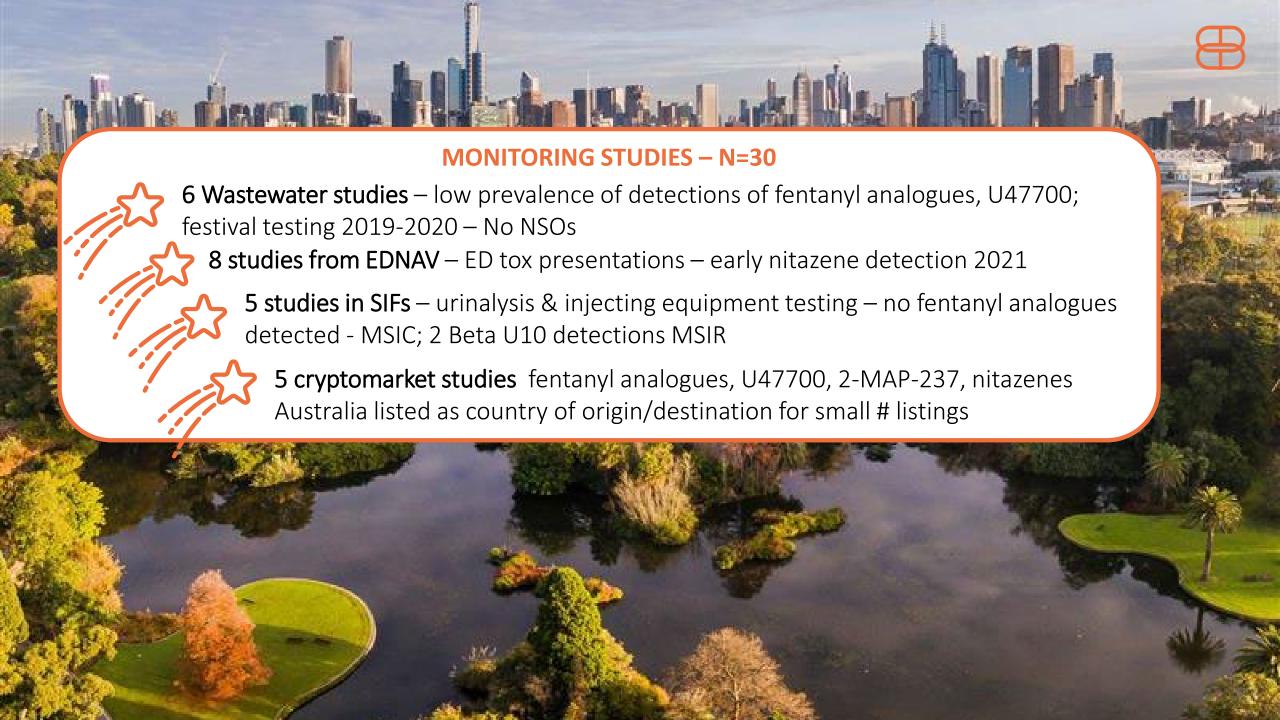
ELIGIBILITY CRITERIA

- Included if:
 - specific to NSOs in Australia
 - provided information on market indicators, use, or harms
- Excluded studies only reporting on IMF

PRISMA DIAGRAM

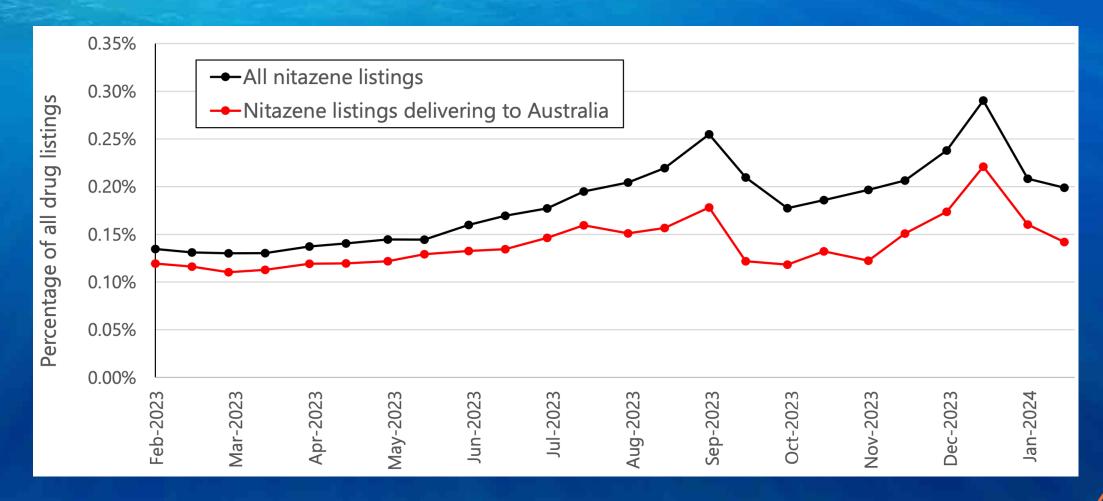






Cryptomarket listings for nitazenes 2023-2024

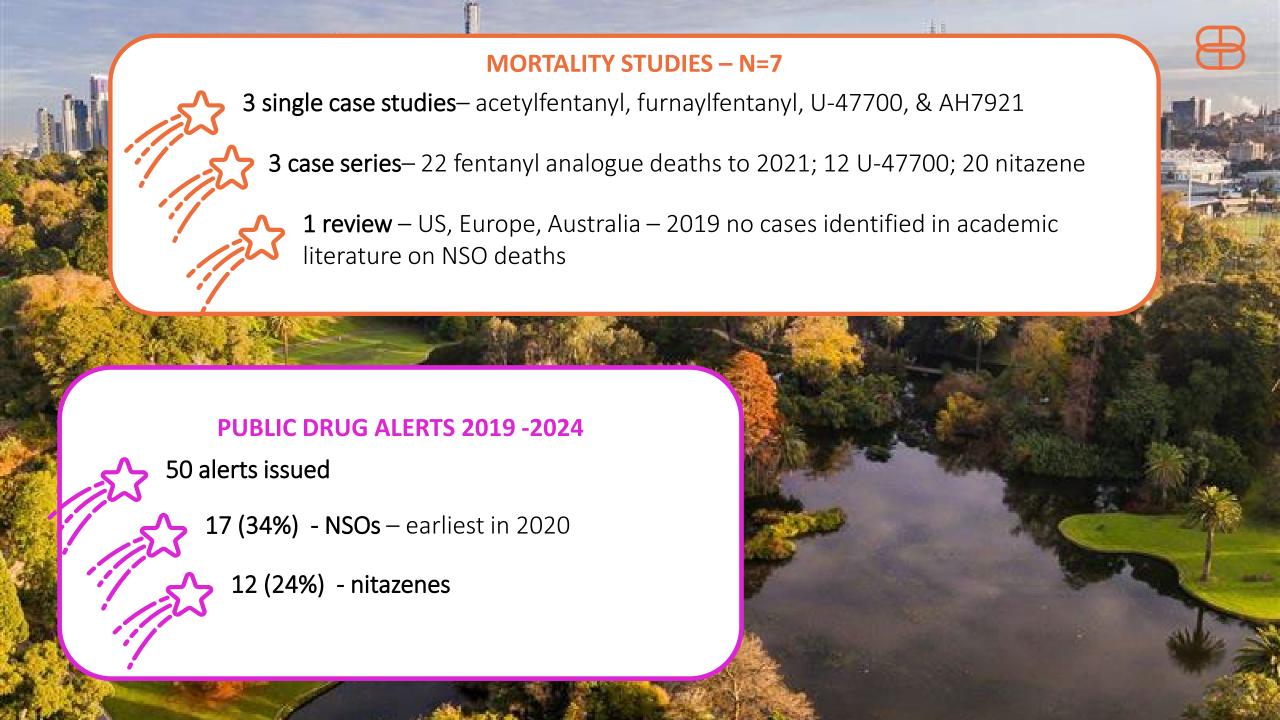






Availability of nitazenes for purchase in Australia and internationally via cryptomarkets

Nicola Man, Vandit Sadaphale, Monica J. Barratt, Raimondo Bruno, Rachel Sutherland and Amy Peacock



Conclusions



Majority of academic literature related to monitoring studies

Evidence of NSOs emerging from as early as 2013, nitazenes emerging more recently (2021)

NSOs still not highly prevalent but reports of nitazenes are emerging rapidly

Unclear what the demand for NSOs is in Australia, with only a few reports of intentional purchase and intentional consumption

NSOs have been found as contaminants across a range of non-opioid drugs - methamphetamine, MDMA, cocaine, ketamine. Unclear what the motivation is for contaminating non-opioid substances

Limitations



Literature moving rapidly so we've likely missed papers/reports/alerts

Technical capability of detecting these drugs means findings may be underestimated

NSO related mortality – difficulties regarding timeliness means figures will be incorrect

Implications



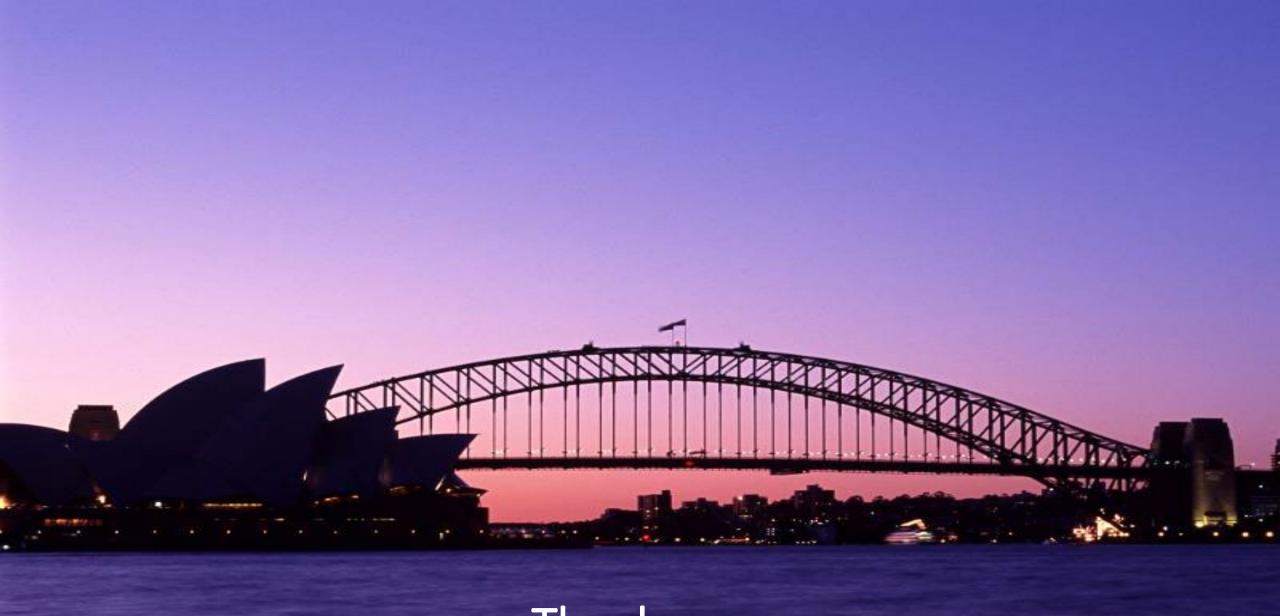
Australia has good monitoring capability post consumption – wastewater, ED tox, testing equipment

Drug checking pre-consumption way more useful in reducing NSO-related harms to allow consumers to make more informed choices - for people who use opioids / are opioid naive

Expansion of take home naloxone particularly for events/venues e.g. nightclubs dance parties

Drug alerts extremely useful

- need to engage more directly with groups who consume drugs
- warnings about the increased/unknown potency of NSOs & shorter time to overdose/respond
- interagency and cross jurisdiction information sharing central



Thank you

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