

# NIEUWE PSYCHOACTIEVE STOFFEN: ACTUELE TRENDS EN KLINISCHE UITDAGINGEN

Frederick Van Der Sypt  
Arts, De Sleutel  
GGZ-congres  
10 sep 2024

# UPDATE IN EEN NOTENDOP

- Actuele NPS-trends binnen Europa en België

## Uitgelicht

- Cathinones
- Ketamine
- Fentanyl





# DE EUROPESE NPS-MARKT: BONT EN COMPLEX



# EU Drug Market: New psychoactive substances — In-depth analysis



*EU Drug Market: New psychoactive substances* describes the European NPS market from production and trafficking to distribution and use. It details the processes, materials and players involved at various stages and levels of the market. The module takes a threat assessment approach, identifying key issues and defining recommendations for action at EU and Member State level.

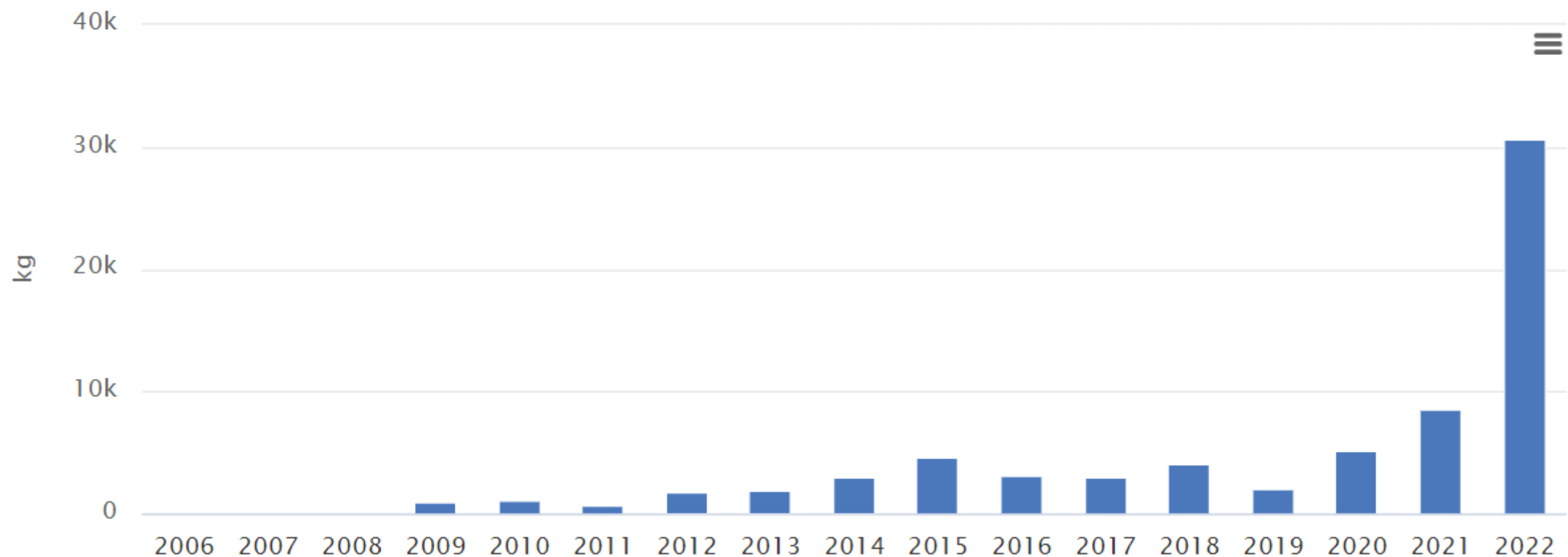
This resource is a module of [EU Drug Markets: In-depth analysis](#), the fourth comprehensive overview of illicit drug markets in the European Union by the EMCDDA and Europol.

Last update: 27 June 2024



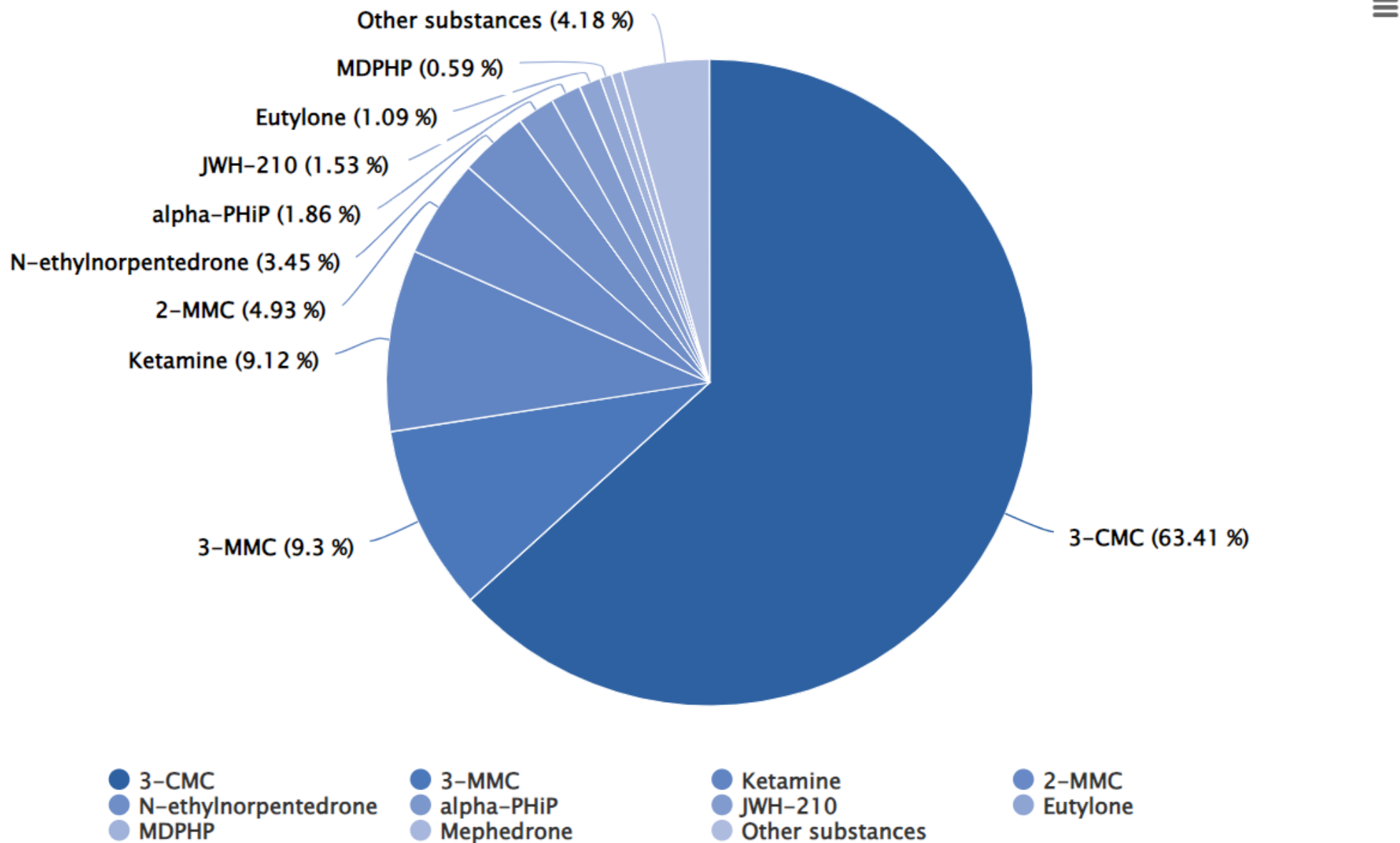
[https://www.euda.europa.eu/publications/eu-drug-markets/new-psychoactive-substances\\_en](https://www.euda.europa.eu/publications/eu-drug-markets/new-psychoactive-substances_en)

Figure 7.4b. Seizures of new psychoactive substances in the European Union: quantity seized, 2006-2022 (kg)

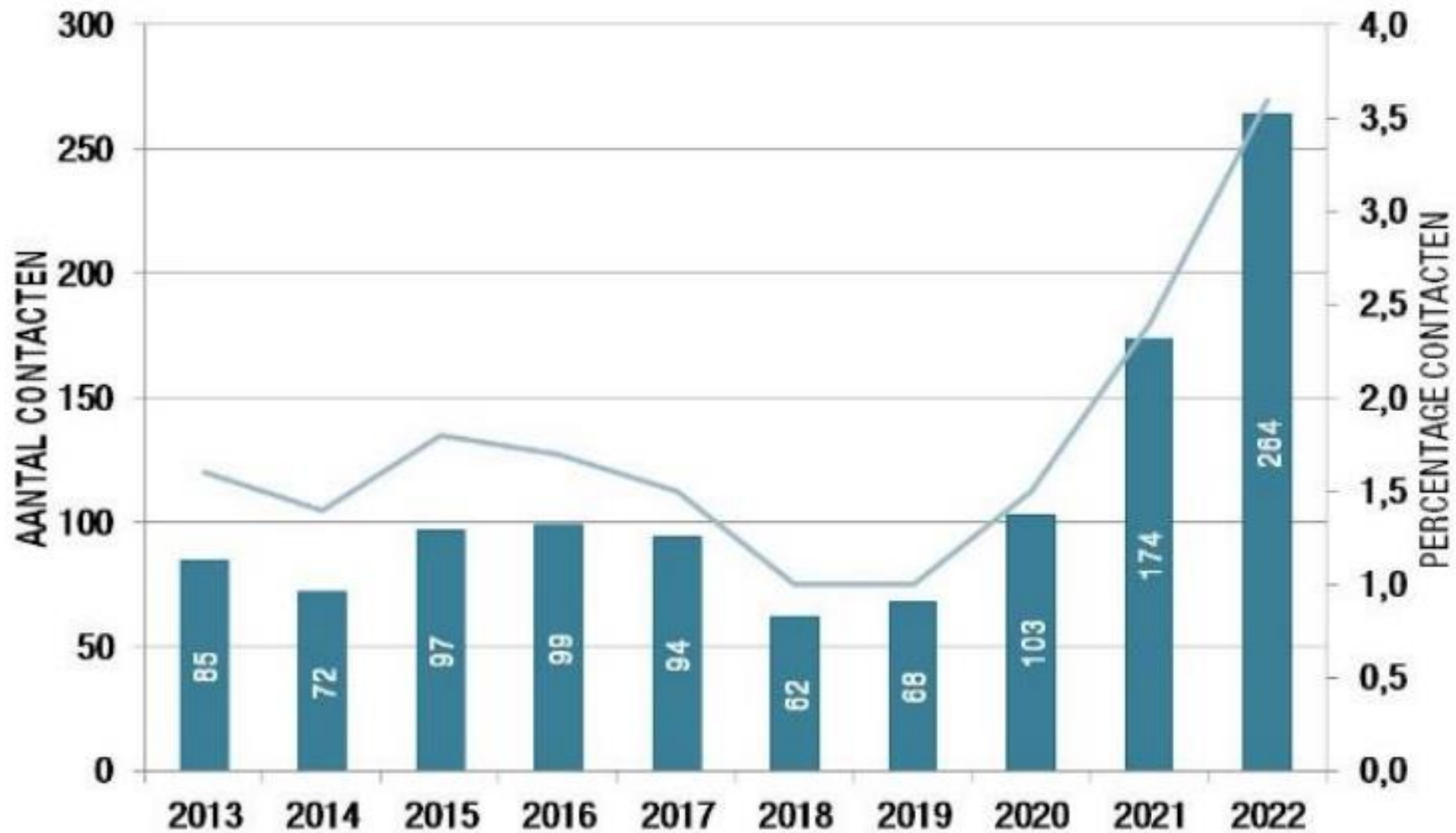


EUDA (data) | Highcharts (chart tool)

Figure 7.5. Seizures of new psychoactive substances in the European Union: percentage of total quantity seized, by substance, 2022



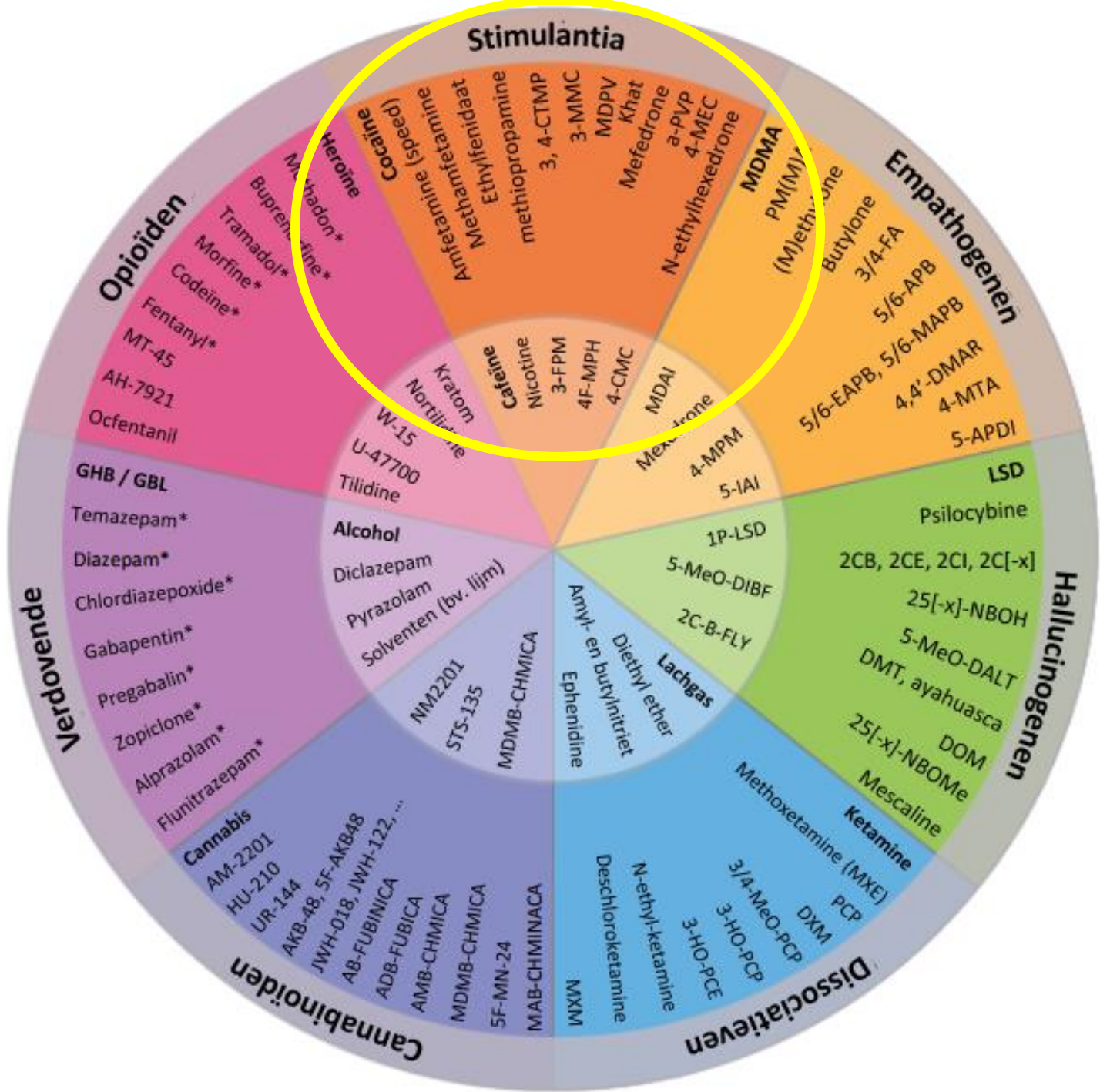
AANTAL CONTACTEN BIJ DE DRUGLIJN VOOR NPS, 2013-2022





# CATHINONES: VAN CATHA TOT FLAKKA





## **Synthetic cathinones becoming more significant in Europe's stimulant market**

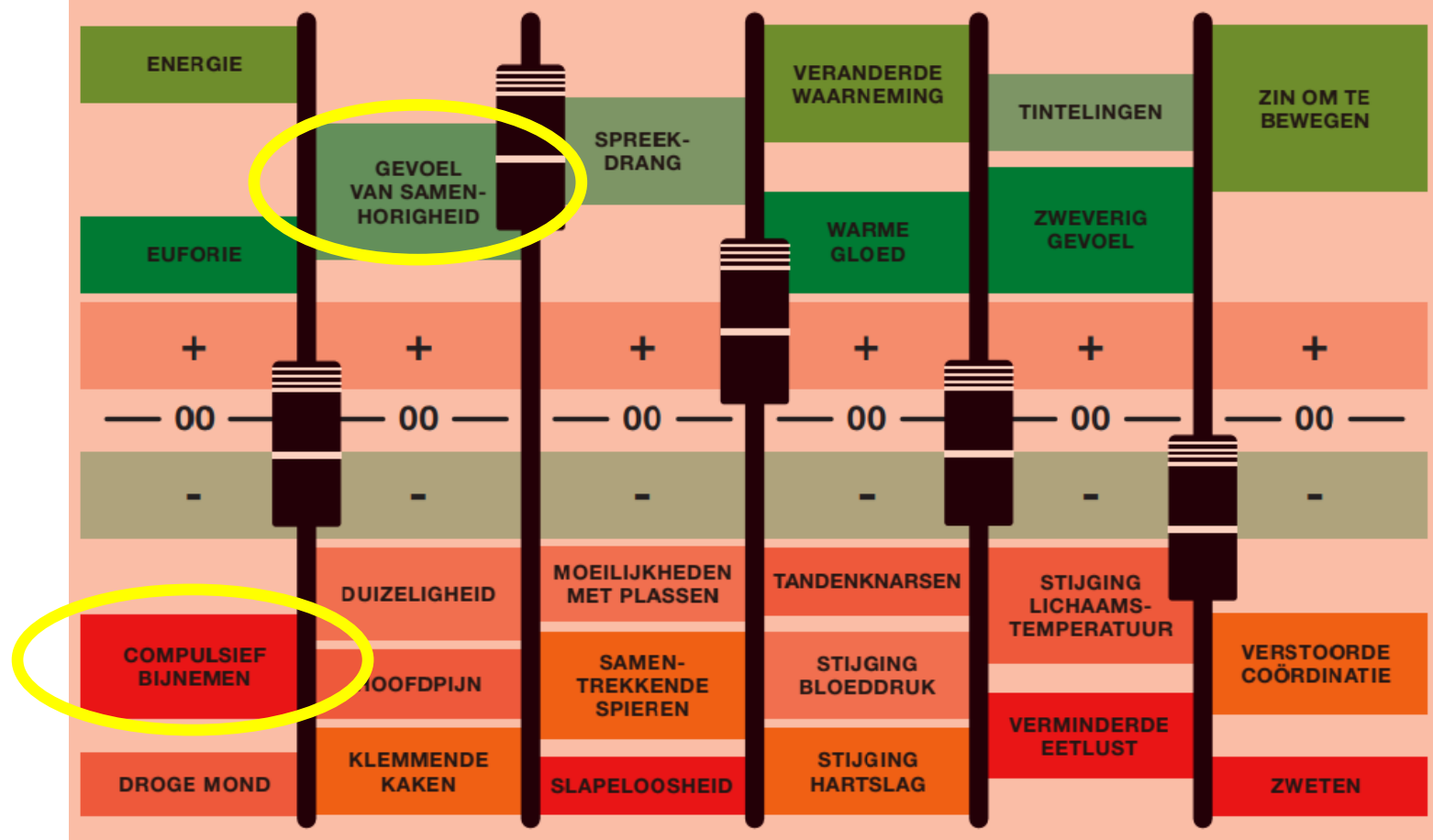
Synthetic cathinones have appeared and become established as replacements for stimulants such as amphetamine in some parts of Europe.

In 2022, large quantities of cathinones such as 3-CMC and 3-MMC, mostly trafficked from India, continued to be seized in Europe, indicative of the important role these drugs now play in some countries. This is a cause for concern, compounded by information suggesting that cathinones are also now increasingly being produced in Europe. Cathinones are also sold alongside or as other drugs, potentially increasing the risk of harm. In 2022 and 2023, the EU Early Warning System noted an increase in reports of synthetic cathinones mis-sold as MDMA or used to adulterate MDMA.



→ EFFECTEN

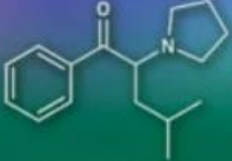
De effecten worden sterk beïnvloed door de samenstelling van het product, de gebruiker en de omgeving waarin gebruikt wordt.



- 1929
- Europese markt: 2007
- Verbod in België: 2010

4-Methyl-1-phenyl-2-(pyrrolidin-1-yl)pentan-1-one

# **a-PiHP**



Waarschuwing! Niet voor consumptie, alleen geschikt voor research doeleinden! Buiten bereik van kinderen bewaren! Door de verpakking te openen verklaart u zich akkoord met onze leveringsvoorwaarden. Lees voor openen de veiligheidsvoorschriften.

CAS 2181620-71-1 [www.homechemistry.nl](http://www.homechemistry.nl)

## a-PiHP Poeder (1gr)

Niet meer leverbaar

**Dit product is verboden sinds 16 april 2024 en verkopen we daarom niet meer!**

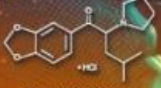
## a-PiHP alternatief aanwezig!

Wij hebben alweer een alternatief gereed voor A-PiHP, genaamd **MDPiHP**.

3,4-Methylenedioxy PiHP

# **mdpihp**

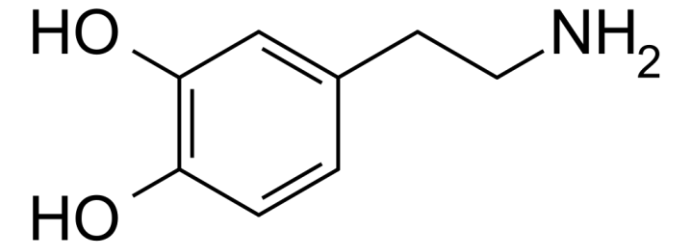
glas-kristallen



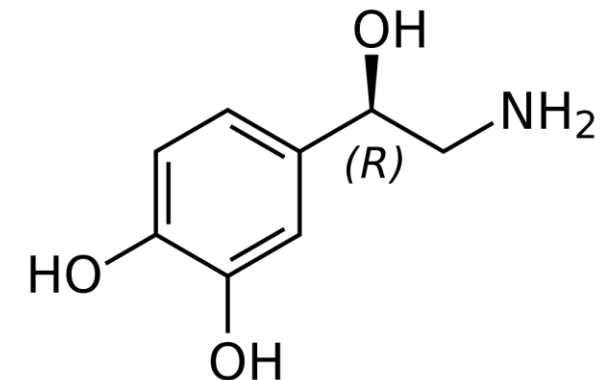
Waarschuwing! Niet voor consumptie, alleen geschikt voor research doeleinden! Buiten bereik van kinderen bewaren! Door de verpakking te openen verklaart u zich akkoord met onze leveringsvoorwaarden. Lees voor openen de veiligheidsvoorschriften.

CAS 24622-58-0 [www.homechemistry.nl](http://www.homechemistry.nl)

MDPiHP komt uit dezelfde cathinone klasse en is uiteraard ook bedoeld voor onderzoeksdoeleinden.



Dopamine



Noradrenaline



PsychonautWiki

## Talk:A-PiHP

(Redirected from [A-PiHP](#))

*Not to be confused with A-PHP.*



**This page has not been fully approved by the [PsychonautWiki administrators](#).**

*It may contain **incorrect information**, particularly with respect to [dosage](#), [duration](#), [subjective effects](#), [toxicity](#) and other risks. It may also not meet *PW* style and grammar standards.*

*Summary sheet: [A-PiHP](#)*

**alpha-Pyrrolidinohexiophenone** (also known as **α-PihP**, and **4-methyl-alpha-pyrrolidinopentanophenone**) is a lesser-known novel [stimulant](#) substance of the [cathinone](#) and [pyrrolidinophenone](#) classes. It is structurally related to [MDPV](#) and [A-PHP](#) and is one of the latest successors to the [designer drug](#) [cathinone](#) analog [A-PVP](#)[[α-PVP](#)].

[Subjective effects](#) such as [euphoria](#), [thought acceleration](#), [disinhibition](#) and [ego inflation](#). It generally comes in the form of either a fine powder or crystallized shards that can produce powerful but short-lived euphoric stimulant effects reported to be more compulsive in nature (and strength) to vaporized [methamphetamine](#). Like its cathinone predecessors, it has gained notoriety for its tendency to induce [compulsive redosing](#) and addictive behaviors as well the ability to produce [delusional states](#) and [psychosis](#) when abused. The compulsivity induced in A-PiHP seems to be stronger compared to similar substances in this class, as reported by online anecdotal reports.

Very little data exists about the pharmacological properties, metabolism, and toxicity of α-PiHP. It has recently become commonly marketed as a legal, grey-market alternative to [a-PHP](#), [3-MMC](#), and [A-PVP](#), and commercially distributed through online [research chemical](#) vendors.

**It is highly advised to use [harm reduction practices](#) if using this substance.**

**1 unit** bestaat uit **1 Gram**

Aantal	Prijs per unit	Totaalprijs	Prijs per Gram
1 Unit	16,950	16,95	16,950
2 Units	15,980	31,96	15,980
3 - 4 Units	15,830	47,49	15,830
5 - 9 Units	15,000	75,00	15,000
10 - 24 Units	13,750	137,50	13,750
25 - 49 Units	13,000	325,00	13,000
50 Units	11,980	599,00	11,980

3	+ -	IN WINKELWAGEN
---	--------	----------------



Reddit

<https://www.reddit.com> > [mdpihp...](#) · [Vertaal deze pagina](#) ⋮

## MDPiHP research report, part 2. Dosage and duration ...

18 jul 2024 — Previously my **dosage** was 28mg intranasally, after which I did not continue dosing. The effects seemed present at a good level for 3 - 5 hours.

Adjusted hazard ratio (95% CI)

**Panel A: all cause acute care visits**

**Opioid RMG**

- ≥1000 ME v none: without matching
- ≥1000 ME v none: hdPS matching
- ≥1000 ME v none: hdPS, subgroup with no OAT for >30 days
- ≥3000 ME v none: without matching
- ≥3000 ME v none: hdPS matching

**Stimulant RMG**

- DEX ≥120 mg or MPH ≥140 mg: without matching
- DEX ≥120 mg or MPH ≥140 mg: hdPS matching
- DEX ≥280 mg or MPH ≥420 mg: without matching
- DEX ≥280 mg or MPH ≥420 mg: hdPS matching

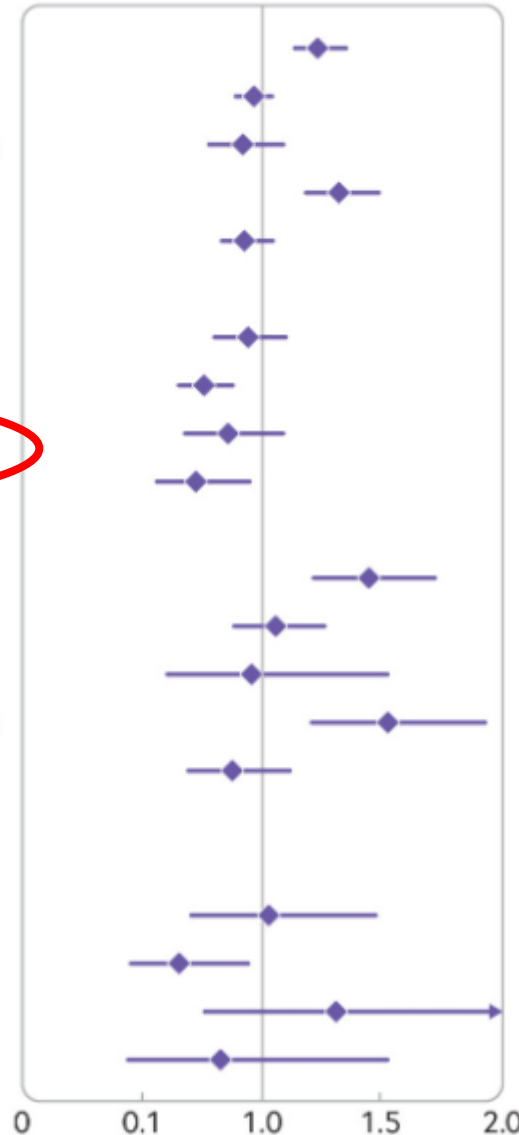
**Panel B: overdose related acute care visits**

**Opioid RMG**

- ≥1000 ME v none: without matching
- ≥1000 ME v none: hdPS matching
- ≥1000 ME v none: hdPS, subgroup with no OAT for >30 days
- ≥3000 ME v none: without matching
- ≥3000 ME v none: hdPS matching



**Stimulant RMG**

- DEX ≥120 mg or MPH ≥140 mg: without matching
- DEX ≥120 mg or MPH ≥140 mg: hdPS matching
- DEX ≥280 mg or MPH ≥420 mg: without matching
- DEX ≥280 mg or MPH ≥420 mg: hdPS matching





# Lisdexamfetamine for the treatment of acute methamphetamine withdrawal: A pilot feasibility and safety trial

Liam S. Acheson<sup>a b c</sup>  , Nadine Ezard<sup>a b c d</sup>, Nicholas Lintzeris<sup>d e f</sup>, Adrian Dunlop<sup>d g h</sup>, Jonathan Brett<sup>i j</sup>, Craig Rodgers<sup>b</sup>, Anthony Gill<sup>b</sup>, Michael Christmass<sup>k l</sup>, Rebecca McKetin<sup>a</sup>, Michael Farrell<sup>a</sup>, Steve Shoptaw<sup>m</sup>, Krista J. Siefried<sup>a b c</sup>

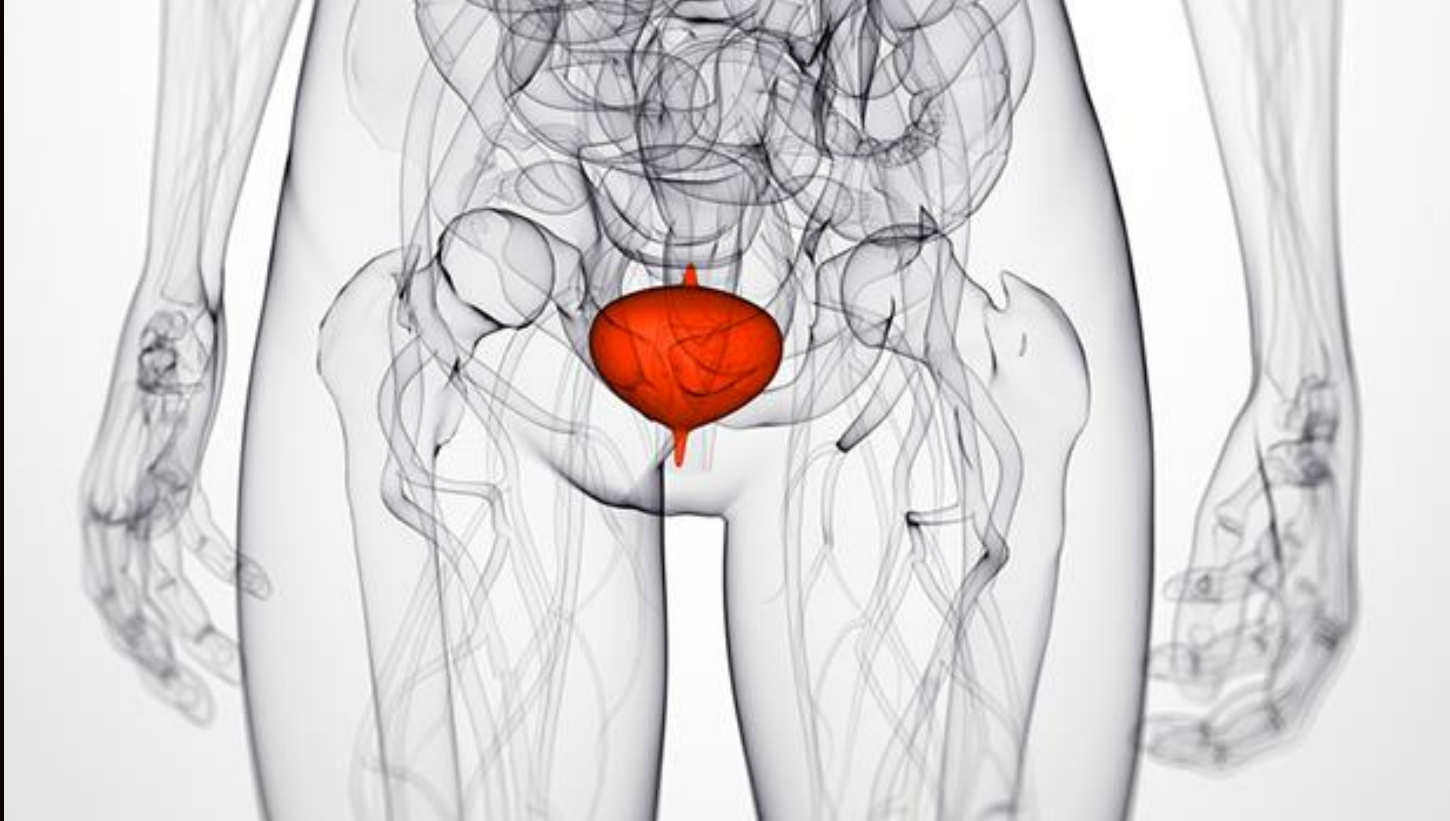
## 2.3. Intervention

Tapering dose of LDX, beginning at 250mg oral once daily (OD), reducing by 50mg per day to 50mg OD on Day 5. LDX at a dose of 250mg (about three times higher than approved for other indications) is equivalent to approximately 74mg of dexamphetamine (Dolder et al., 2017), and similar doses of sustained release dexamphetamine (60–110mg) have previously been demonstrated to decrease MA withdrawal severity and cravings, and increase retention in care (Galloway et al., 2011, Longo et al., 2010). This dose of LDX has previously been shown to be safe in methamphetamine dependent people in a community setting (Ezard et al., 2021a), and is closer to recreational amphetamine doses. LDX was formulated in 50mg capsules and dispensed each morning under supervision of nursing staff. All participants received inpatient treatment as usual, consisting of symptom management and supportive care.

## Highlights

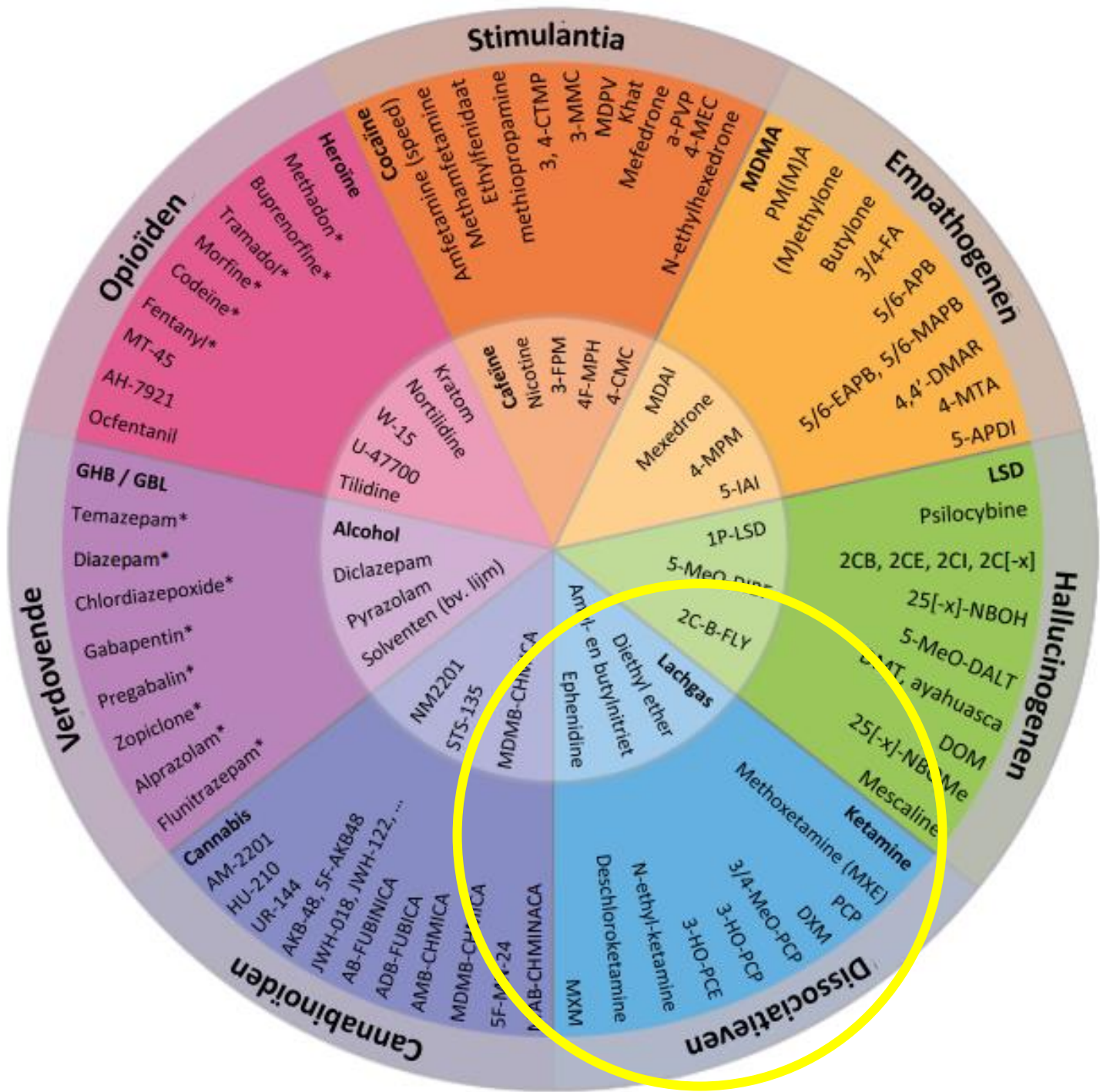
- There is no approved pharmacotherapy option for methamphetamine withdrawal.
- This is the first clinical trial of lisdexamfetamine for methamphetamine withdrawal.
- Lisdexamfetamine is safe and feasible for treating acute withdrawal.
- Participants found this treatment highly acceptable.
- More work is needed to determine the efficacy of this treatment.





# KETAMINE: KOPZORGEN OVER DE BLAAS





# KETAMINE GEÏNDUCEERDE BLAASONTSTEKING: BEHANDELOPTIES

[Health Psychol Res.](#) 2022; 10(3): 38247.

Published online 2022 Sep 15. doi: [10.52965/001c.38247](https://doi.org/10.52965/001c.38247)

PMCID: PMC9476224






PMID: [36118982](https://pubmed.ncbi.nlm.nih.gov/36118982/)

## Ketamine-Induced Cystitis: A Comprehensive Review of the Urologic Effects of This Psychoactive Drug


[Danyon J. Anderson](#),<sup>1</sup> [Jessica Zhou](#),<sup>1</sup> [David Cao](#),<sup>1</sup> [Matthew McDonald](#),<sup>2</sup> [Maya Guenther](#),<sup>1</sup> [Jamal Hasoon](#),<sup>3</sup> [Omar Viswanath](#),<sup>4</sup> [Alan D. Kaye](#),<sup>5</sup> and [Ivan Urits](#)<sup>6</sup>

Neurourology  
AND  
Urodynamics



REVIEW |  Open Access |    

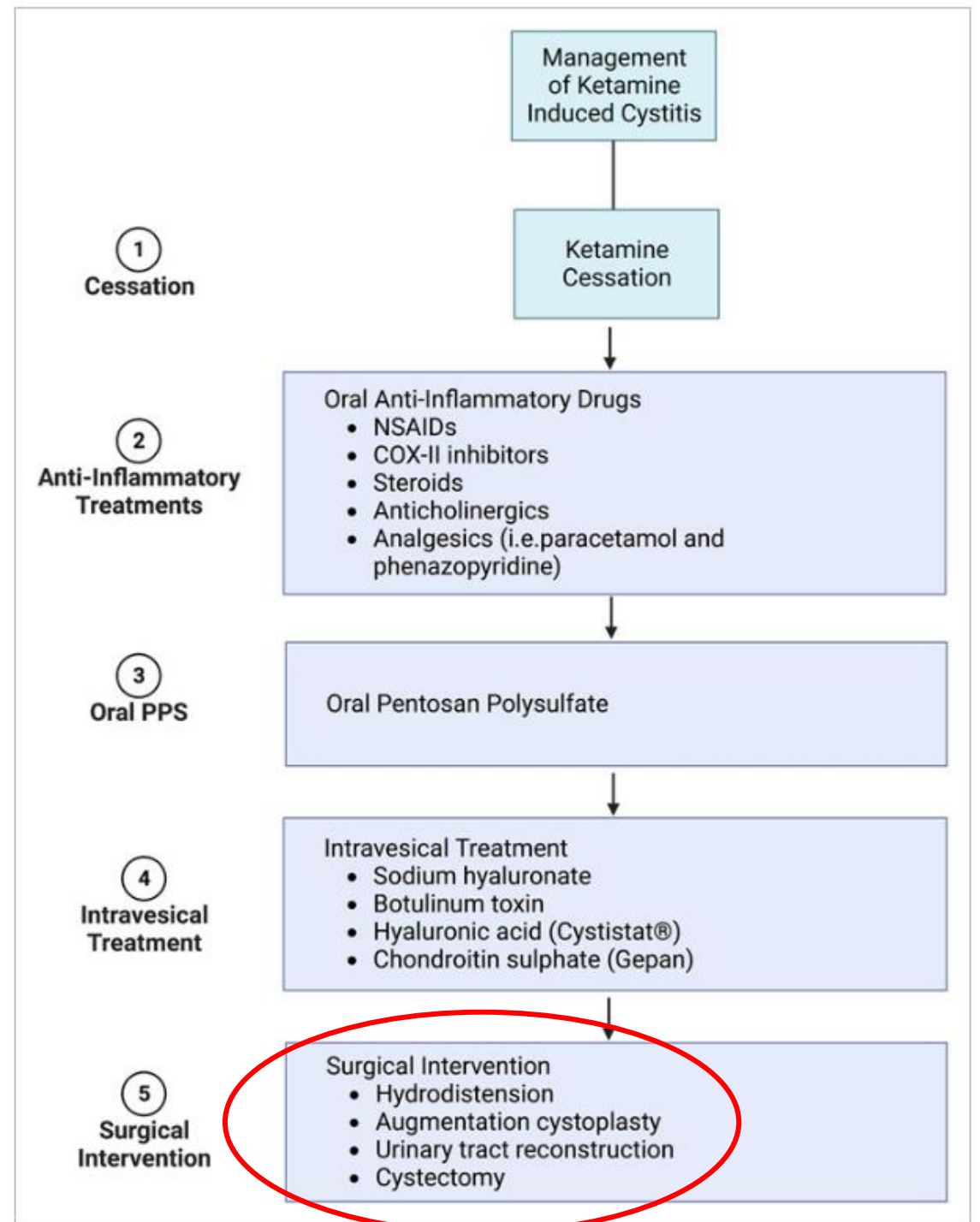
## Current approaches for the treatment of ketamine-induced cystitis

Juan Zhou , Cassidy Scott, Ziba Rovei Miab, Christian Lehmann

First published: 13 February 2023 | <https://doi.org/10.1002/nau.25148>



Fig. 1. Intravenous pyelography in a man with ketamine cystitis reveals bilateral hydronephroureters and contracted urinary bladder.



### 3.3.1 Oral treatment for pain and inflammation

Pain is the primary symptom of KIC, therefore oral nonsteroidal anti-inflammatory drugs (NSAIDs) are often used as the first line medication. If patients cannot tolerate NSAIDs, other anti-inflammatory drug such as COX-II inhibitors, steroids, anticholinergics to block neurotransmitters action, and/or simple analgesics such as paracetamol and phenazopyridine are used for relieving bladder pain.<sup>35</sup> In a Youth Urological Treatment Center in Hong Kong, 290 patients with KIC received first-line treatment. Among them, 202 patients (69.7%) had significant improvement in pelvic pain, urgency scores and functional bladder capacity. When the first line treatment was insufficient for symptom relief, opioid and pregabalin, were suggested as a second line treatment. Forty-two of 62 patients (67.7%) reported symptoms improvement after receiving the second-line treatment.<sup>32</sup> However, opioid therapy for the treatment of chronic pain remains controversial. Opioid therapy can

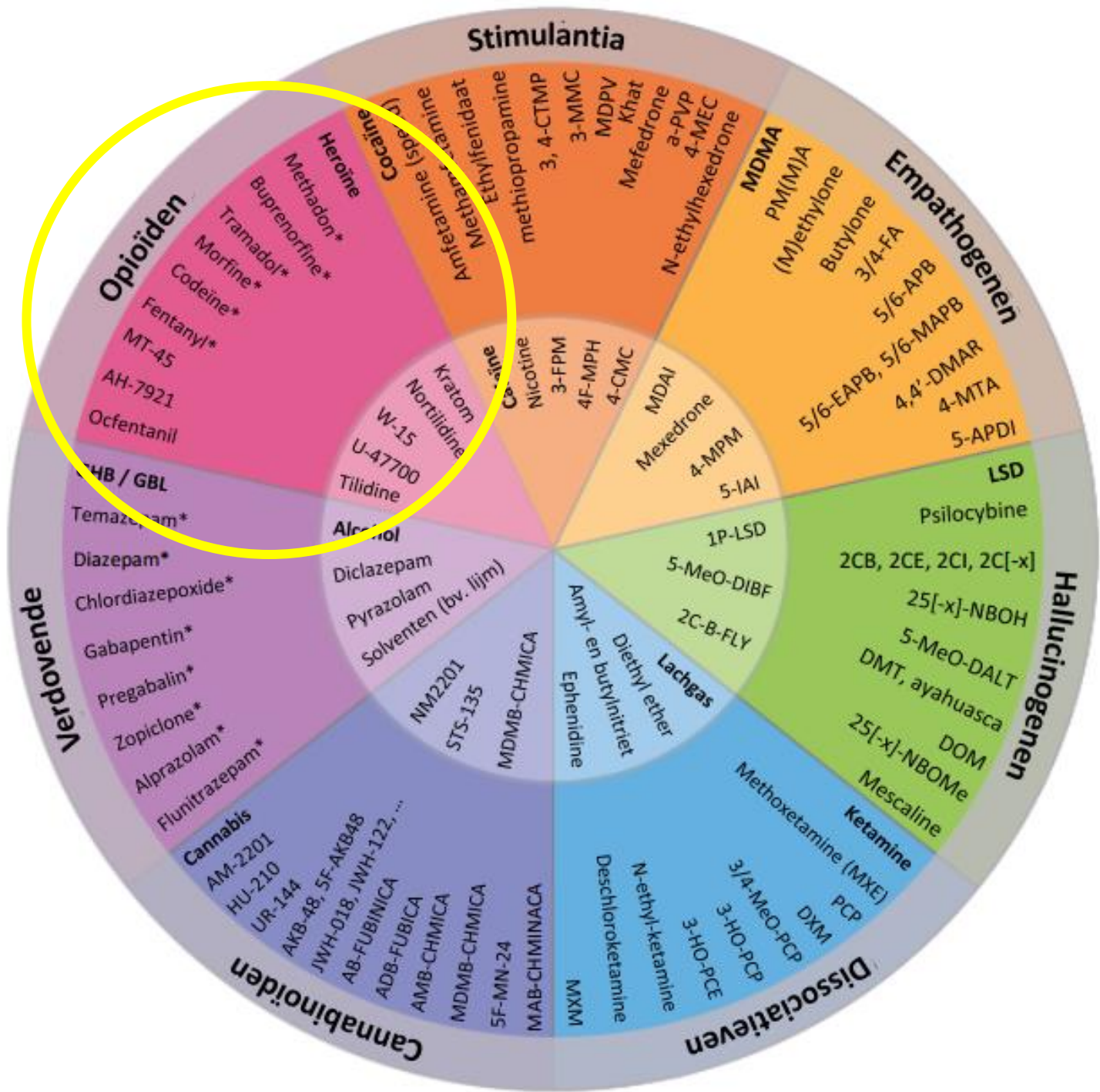
Fenazopyridine wordt, zonder argumenten, voorgesteld voor verschillende symptomen ter hoogte van de urinaire tractus; bij bewezen infectie of bij sterk vermoeden ervan, dient gekozen te worden voor een antibacterieel middel. Het is niet langer beschikbaar sinds juni 2021.

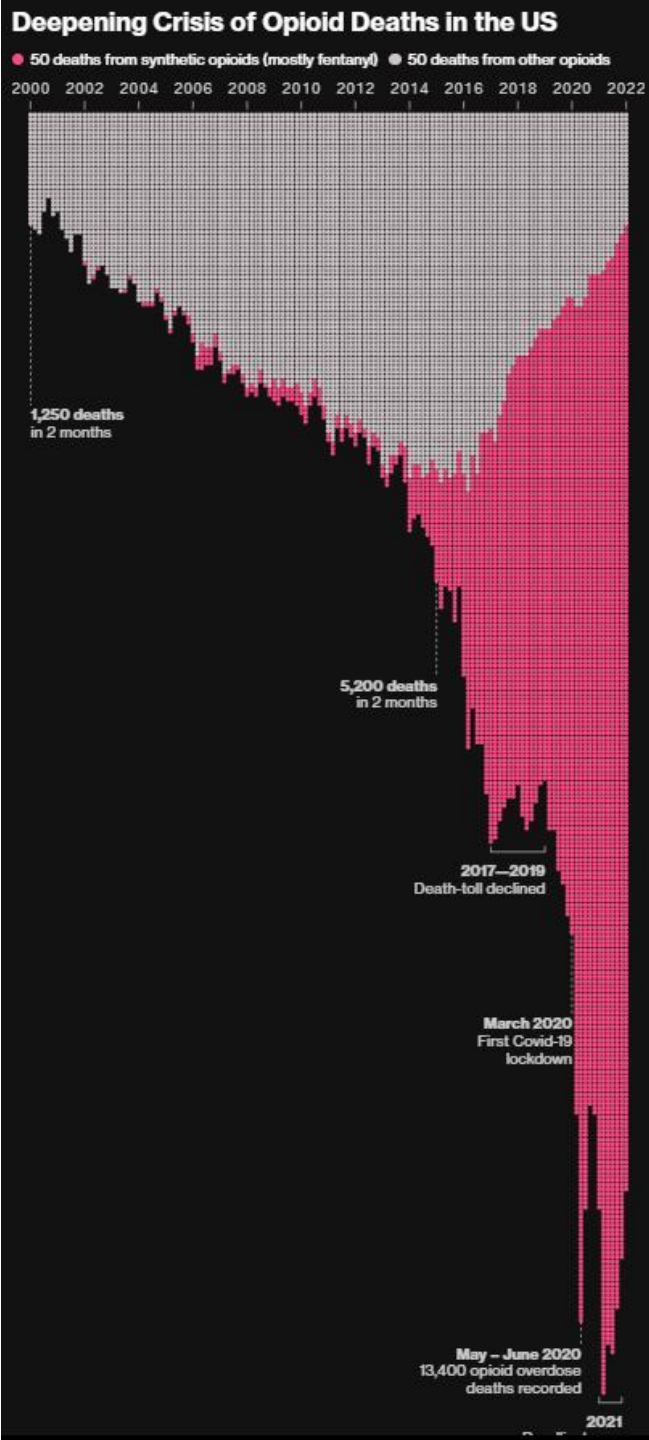


**A LETHAL DOSE  
OF FENTANYL**

**DEA**

**FENTANYL: MOLECULE MACABRE**





# Opioid-crisis VS

<https://www.bloomberg.com/graphics/2022-us-fentanyl-opioid-deaths/>



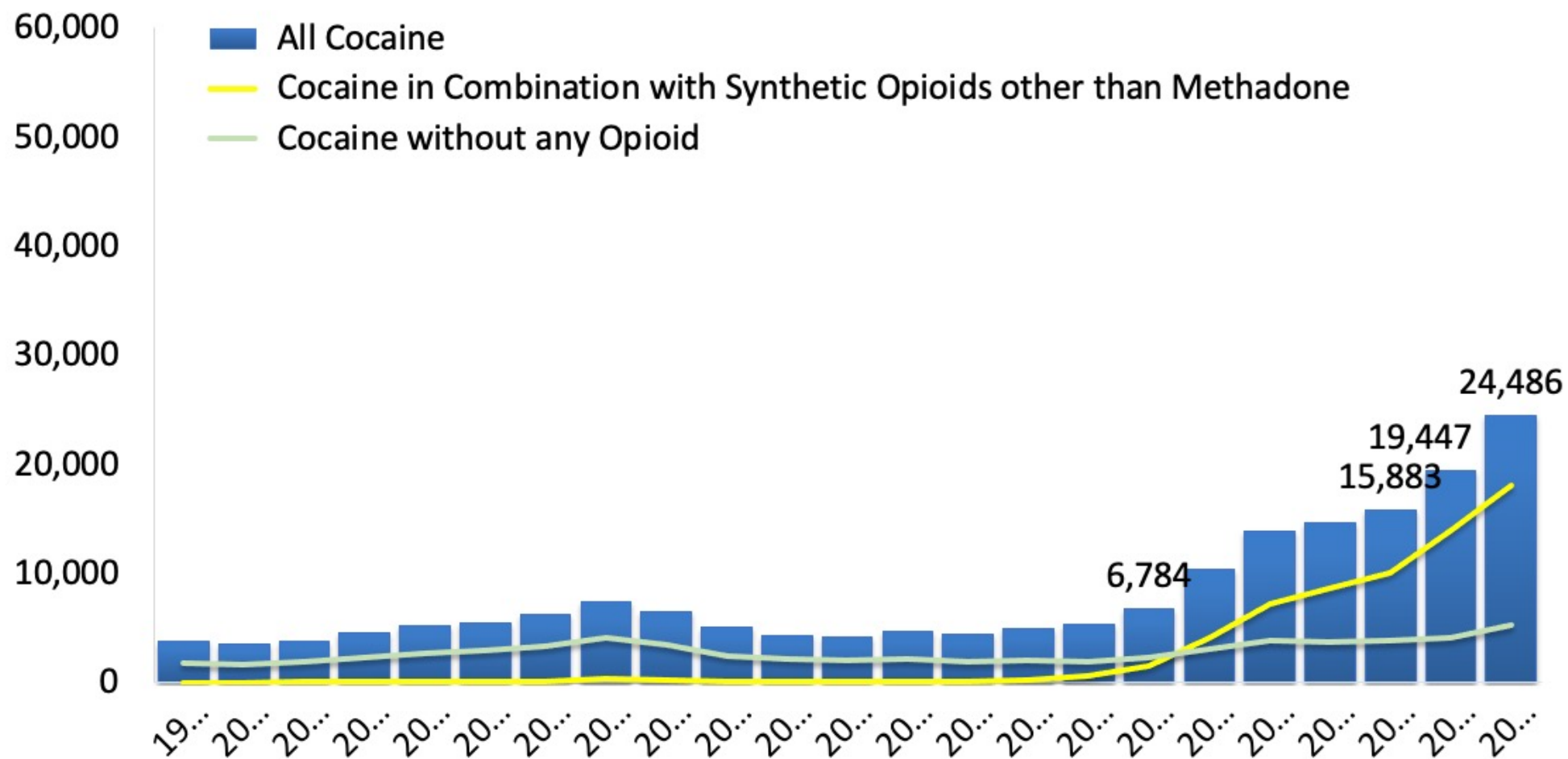
**'Fentanyl zal overwaaien naar Europa, daar ben ik van overtuigd. We moeten onze politiemensen nu al opleiden om ermee om te gaan'**



Ine Van Wymersch: 'Ik kijk op feestjes altijd eens rond: zou die of die gebruiken? Maar ik zie het niet in mijn omgeving. Misschien denken ze: 'De drugscommissaris is daar, bukken!'' Beeld Marco Mertens

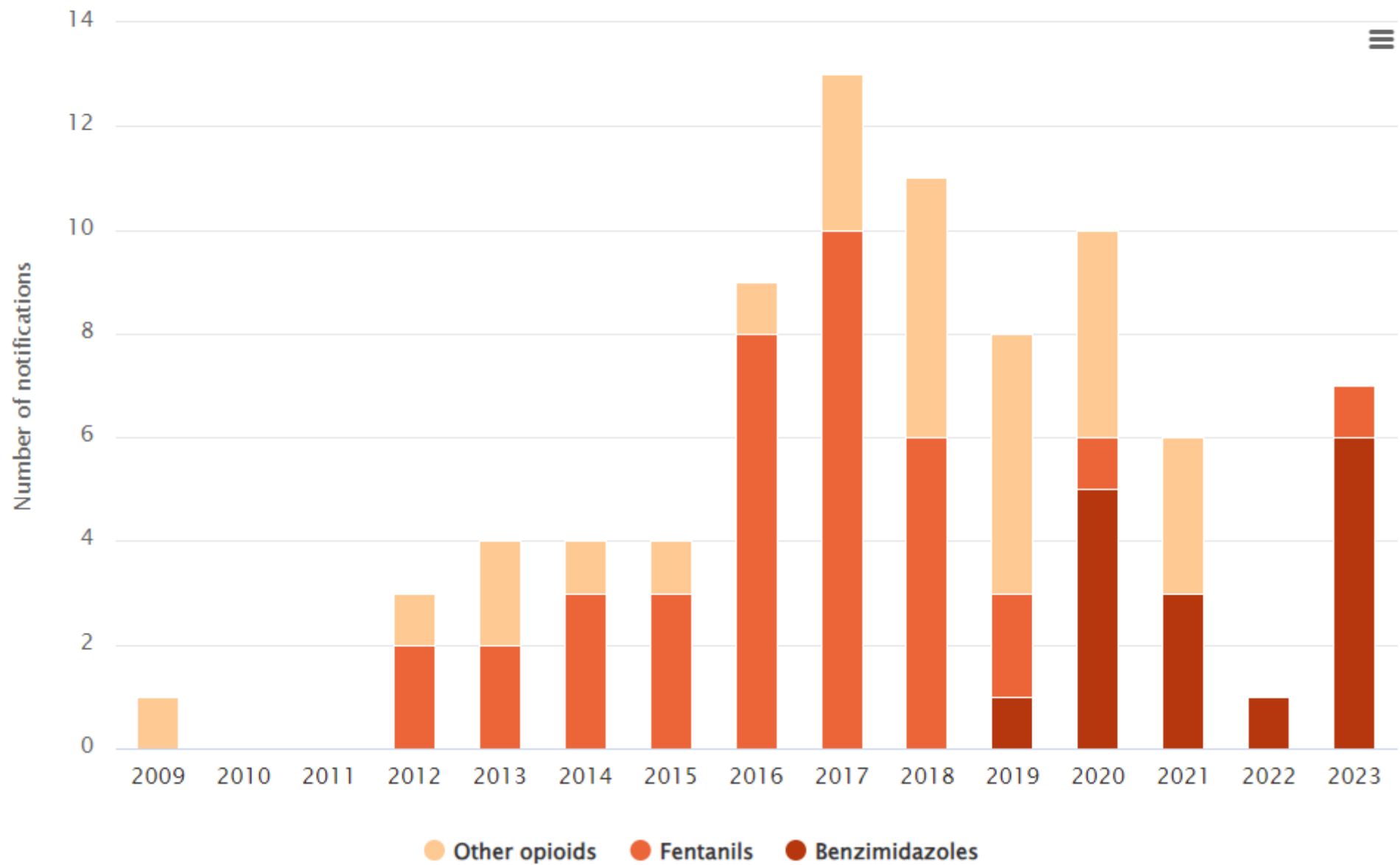
**De Morgen, 27/2/24**

# Figure 8. National Drug Overdose Deaths Involving Cocaine\*, by Opioid Involvement, Number Among All Ages, 1999-2021



\*Among deaths with drug overdose as the underlying cause, the cocaine category was determined by the T40.5 ICD-10 multiple cause-of-death code. Source: Centers for Disease Control and Prevention, National Center for Health Statistics. Multiple Cause of Death 1999-2021 on CDC WONDER Online Database, released 1/2023.

## Number and types of new opioids notified to the EU Early Warning System for the first time, 2005-2023



# Synthetische opioïden: fentanyl-achtigen en anderen

Nieuwe synthetische opioïden hebben doorgaans sterkere effecten dan heroïne. Ze zijn gevaarlijk omdat zeer kleine hoeveelheden al een (fatale) overdosis kunnen veroorzaken [1]. Synthetische opioïden worden in grote lijnen gecategoriseerd als fentanyl en fentanyl-achtige synthetische opioïden (zoals carfentanil) en andere (niet-fentanyl-achtige) synthetische opioïden (zoals U-47700).

- Fentanyl en fentanyl-achtigen hebben sterkere effecten dan morfine, van 1,5-7 keer (butyrylfentanyl) tot 10.000 keer (carfentanil) die van morfine. De niet-fentanyl-achtige stof U-47700 is ongeveer een tiende zo sterk als fentanyl, maar 7,5 keer sterker dan morfine [4].

- In Estland domineren synthetische opioïden de markt al meer dan 15 jaar. Tot 2017 had Estland het hoogste aantal drugsgelateerde sterfgevallen in Europa, waarvan de overgrote meerderheid te wijten was aan synthetische opioïden [3]. Voorlopige gegevens uit 2022 van Estland laten een verdubbeling van het aantal sterfgevallen gerelateerd aan synthetische opioïden zien (73 in 2022 tegenover 39 in 2021). Het aantal sterfgevallen waarbij benzimidazolen betrokken waren, steeg van 10% (4/37) in 2021 tot 37% (29/79) in 2022 (protonitazeen, metonitazeen en isotonitazeen) [10].

The European opioid market may also be affected by developments elsewhere. Of particular note in this context is the recent ban on opium poppy cultivation in Afghanistan, which appears to have resulted in a dramatic reduction in opium production. While it is still too early to be definitive, this may result in a reduced supply of heroin to Europe. Should this happen, a concern exists that new synthetic opioids could be among the replacement drugs for heroin, potentially increasing the risks associated with opioid use.

More generally, the appearance of highly potent synthetic opioids requires us to review if the current approaches used to prevent, treat and reduce the harm of opioid-related problems remain fit for purpose. For example, it has been suggested that approaches to providing the opioid antagonist naloxone need to be reviewed, as models of care may need to be adapted to more effectively respond to those who have consumed new synthetic opioids or mixtures that contain new synthetic opioids and other substances.

# Stimulant safe supply: a potential opportunity to respond to the overdose epidemic

[Taylor Fleming](#), [Allison Barker](#), [Andrew Ivsins](#), [Sheila Vakharia](#) & [Ryan McNeil](#) 

[Harm Reduction Journal](#) **17**, Article number: 6 (2020) | [Cite this article](#)

**10k** Accesses | **35** Citations | **327** Altmetric | [Metrics](#)

<https://harmreductionjournal.biomedcentral.com/articles/10.1186/s12954-019-0351-1>

## If fentanyl is so deadly, why do drug dealers use it to lace illicit drugs?

Fentanyl is a synthetic opioid up to 100 times more potent than morphine.

By [Victor Ordonez](#) and [Sony Salzman](#)

February 1, 2023, 10:34 PM



<https://abcnews.go.com/Health/fentanyl-deadly-drug-dealers-lace-illicit-drugs/story?id=96827602>



Bromazolam 2.5mg Pellets



€13,95 – €219,95



EN DAN HEBBEN WE  
HET NOG NIET GEHAD OVER..



# PRAKTISCHE LINKS

- <https://www.druglijn.be/drugs-abc/>
- [https://vad.be/content/uploads/woocommerce\\_uploads/2016/02/factsheet\\_cijfers\\_NPS.pdf](https://vad.be/content/uploads/woocommerce_uploads/2016/02/factsheet_cijfers_NPS.pdf)
- [https://www.euda.europa.eu/publications/european-drug-report/2024\\_en](https://www.euda.europa.eu/publications/european-drug-report/2024_en)
- <https://psychonautwiki.org/wiki/Mephedrone>



**DANK VOOR JULLIE AANDACHT EN SUCCES IN DE PRAKTIJK!  
CASUS OVERLEGGEN OF SPECIFIEKE VRAAG?**

[frederick.vandersypt@desleutel.broedersvanliefde.be](mailto:frederick.vandersypt@desleutel.broedersvanliefde.be)

