

NPS: Synthetic Opioids

Infermiere/Coordinatore CPA LA CELESTE
IRCCS FATEBENEFRAELLI
Todaro Antonino

Global production

change from previous year

**10,500 tons
of opium**

**9,100–9,400
tons
processed
into heroin**

**1,100–1,400 tons
consumed as opium**

**700–1,050
tons
of heroin
produced**

↑ 65%

2017

WORLD ∞
DRUG
REPORT 2017



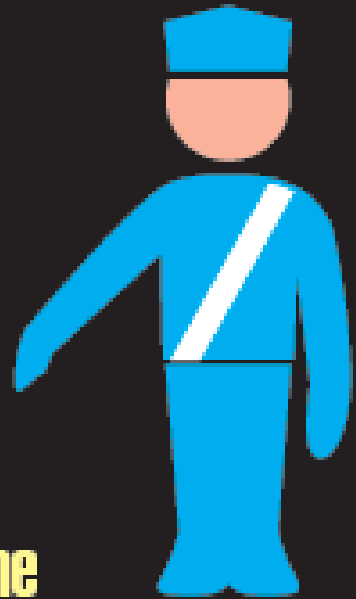
UNODC

United Nations Office on Drugs and Crime

Global seizures

change from previous year

↑ 10% opium ↑ 10% heroin ↑ 579% morphine



2016

WORLD ∞
DRUG
REPORT 2016



UNODC

United Nations Office on Drugs and Crime

Global number of users

Opioid users



.....34,3 million

Opiate users



-----19.4 million

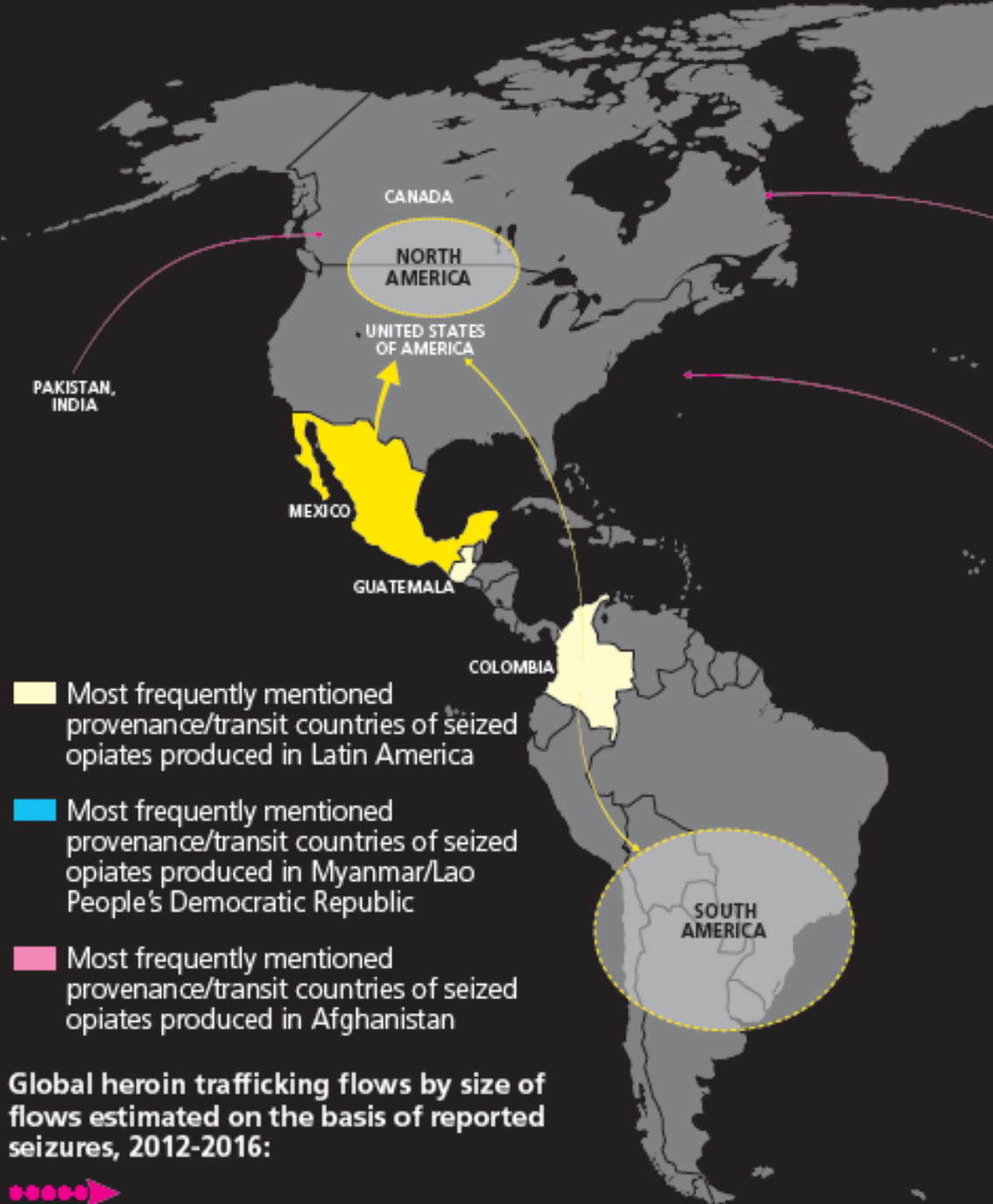
2016

WORLD ∞
DRUG
REPORT 2016



UNODC

United Nations Office on Drugs and Crime



- Most frequently mentioned provenance/transit countries of seized opiates produced in Latin America
- Most frequently mentioned provenance/transit countries of seized opiates produced in Myanmar/Lao People's Democratic Republic
- Most frequently mentioned provenance/transit countries of seized opiates produced in Afghanistan

Global heroin trafficking flows by size of flows estimated on the basis of reported seizures, 2012-2016:

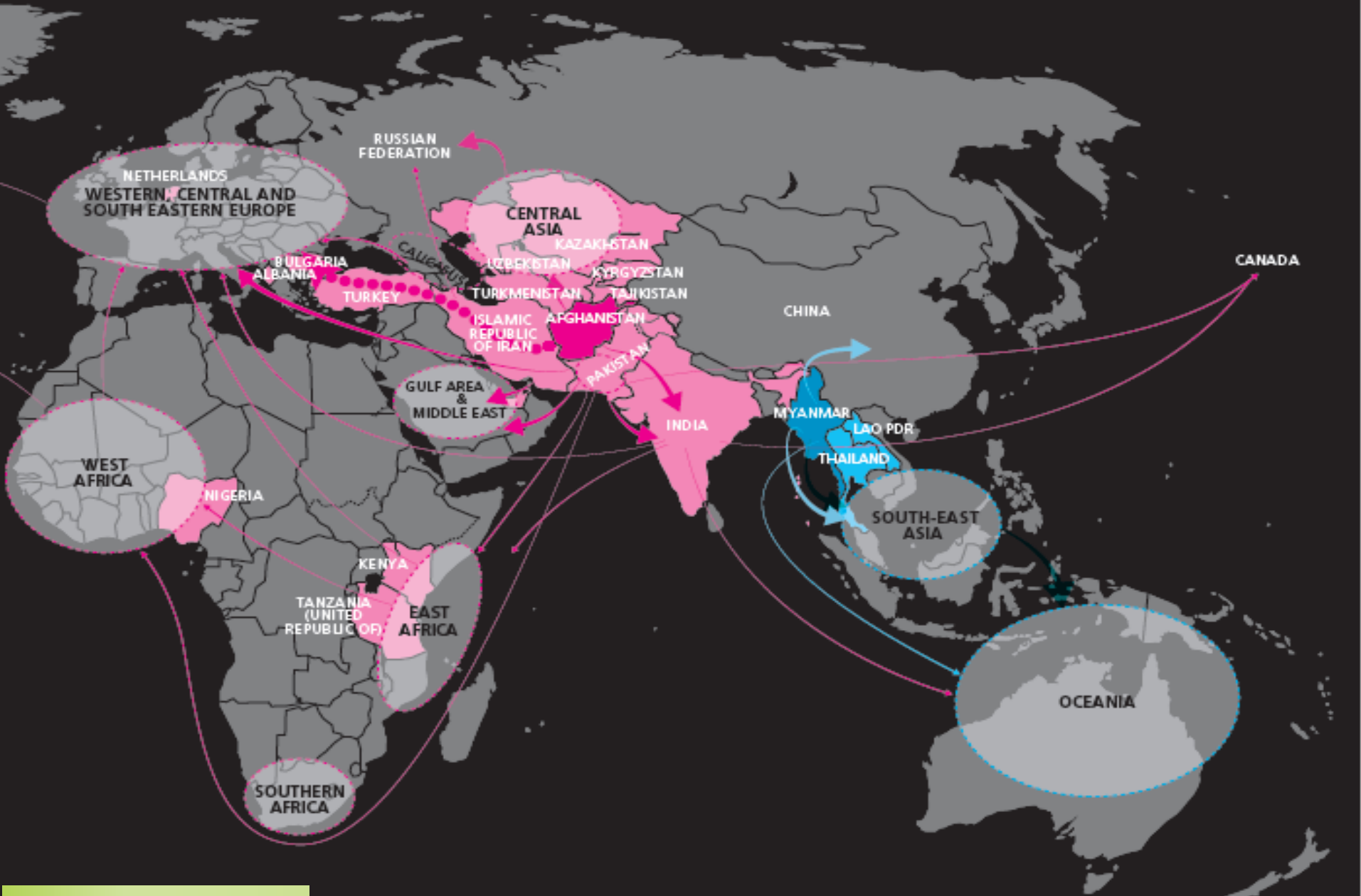


WORLD ∞ DRUG REPORT 2016



UNODC

United Nations Office on Drugs and Crime



UNODC

United Nations Office on Drugs and Crime

WORLD ∞
DRUG
 REPORT 2011



74 SYNTHETIC
OPIOIDS
REPORTED
TO UNODC
EARLY
WARNING
ADVISORY
BY **2019**

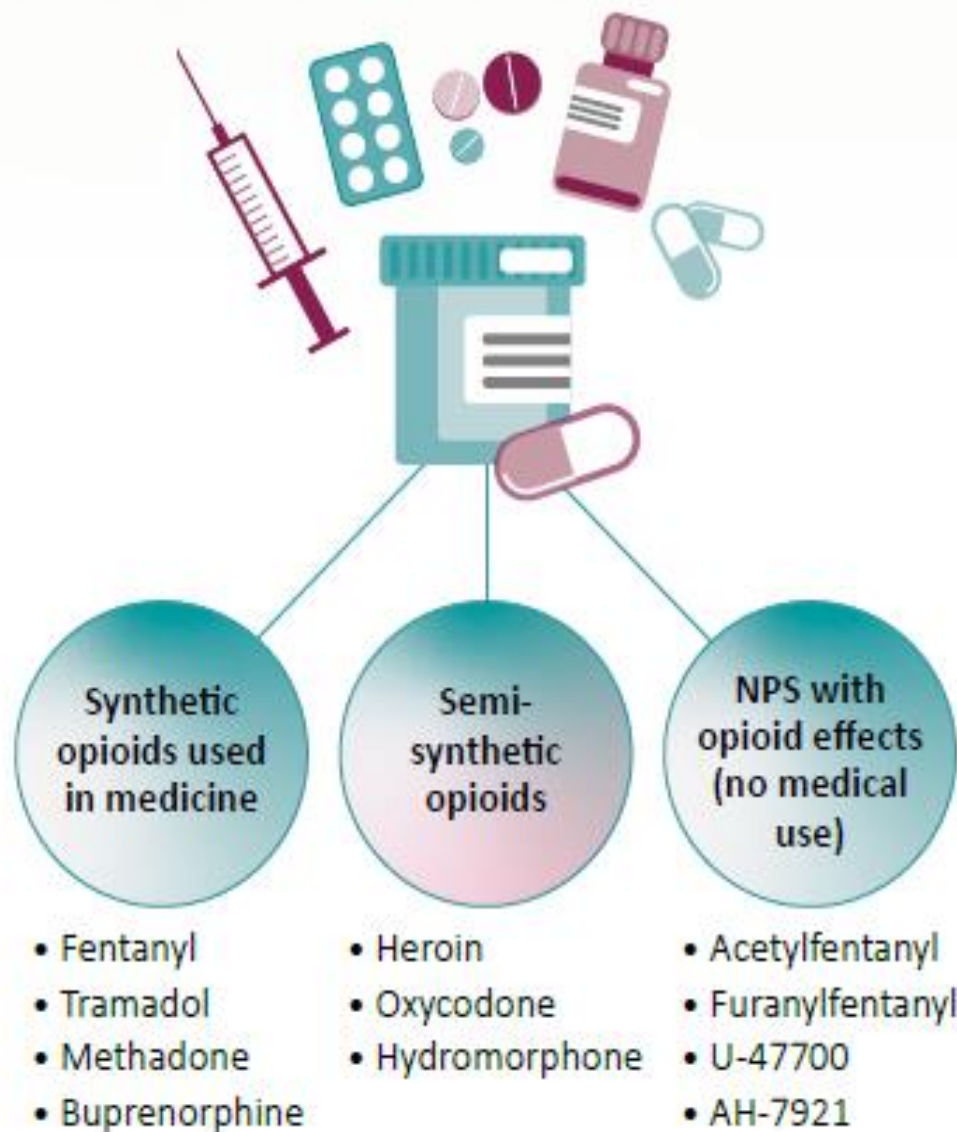
131% 
IN THE LAST
3 YEARS

Figure 1: Common opioids



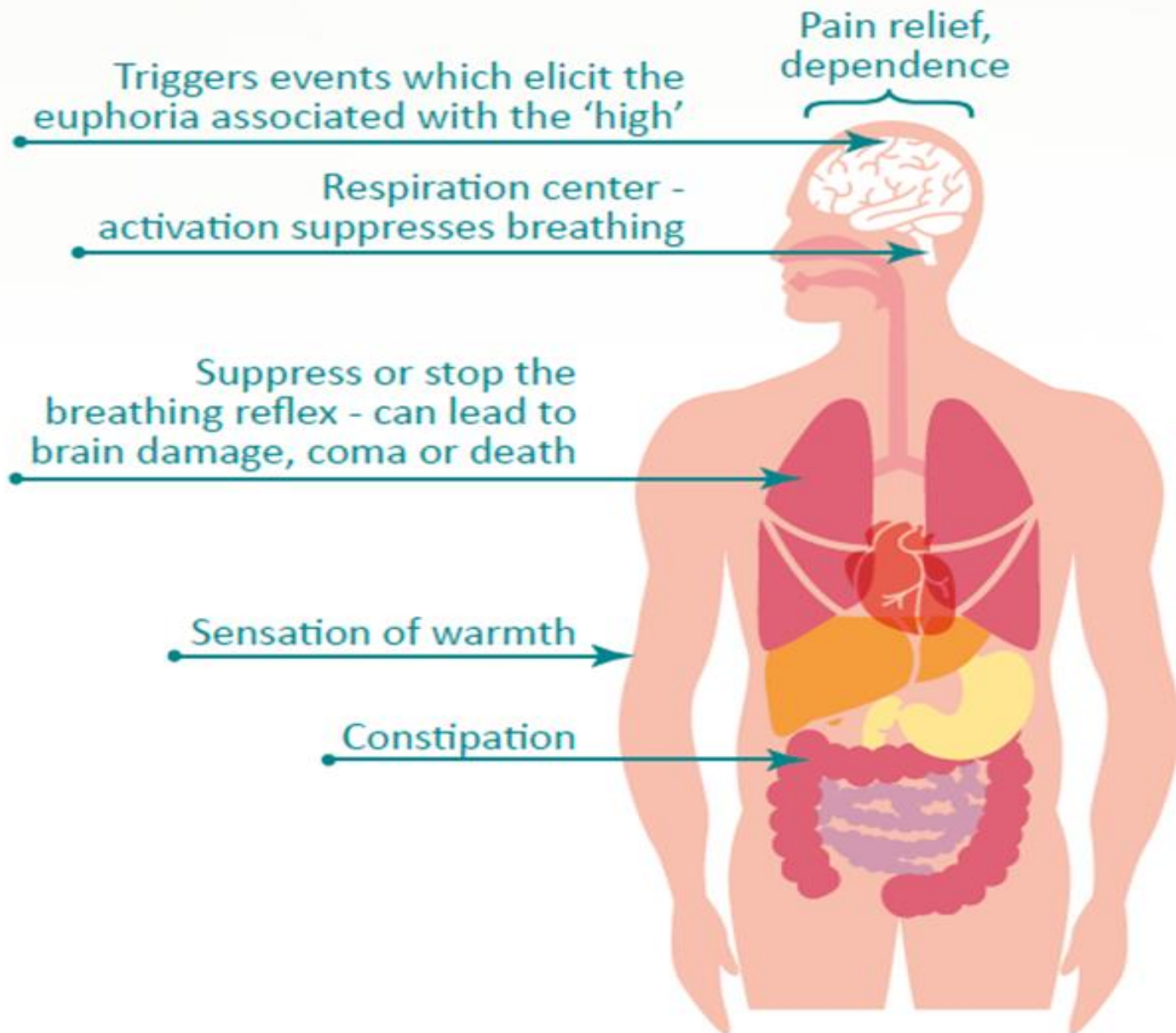
UNODC

United Nations Office on Drugs and Crime



**GLOBAL
SMART
UPDATE**

Figure 2: Effects of opioids on the human body



TIME

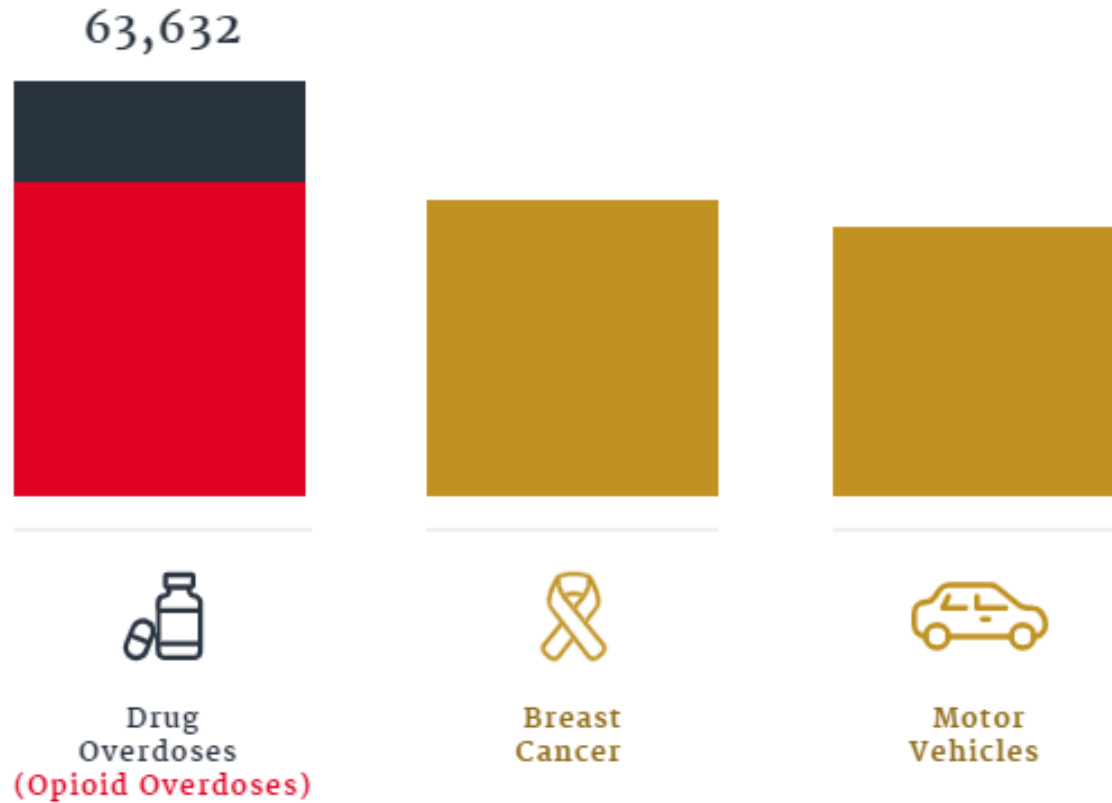
THE OPIOID DIARIES

Photographs by
JAMES NACHTWEY





Deaths in 2016...



Source: CDC



Stopping the Flow of Illicit Opioids

Illicit opioids – including fentanyl – have flooded into our country **through ports, shipments, and border crossings.** The Trump Administration is working to increase the seizure of illicit opioids and reduce the illicit drug supply.



Air*



Borders



Sea

Seizures in
FY2017



2,975



Veterans

Through the U.S. Department of Veterans Affairs, the Trump Administration is **working to prevent opioid misuse and provide high-quality treatment** to veterans suffering from addiction.

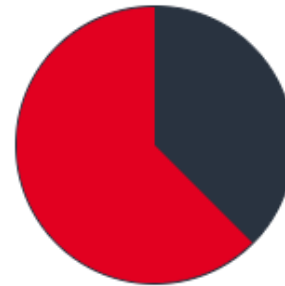
Prevention



90.3%

Opioid prescriptions provided to veterans that are for an immediate

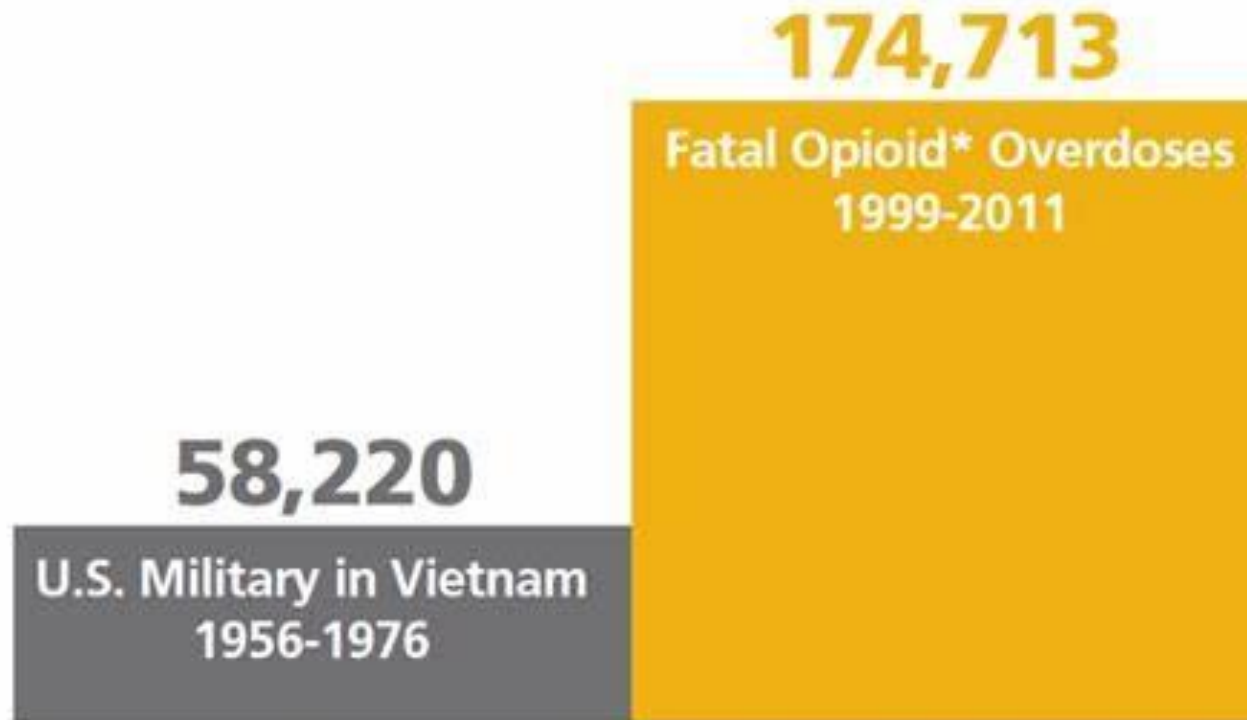
Treatment



35%

Veterans who are diagnosed with an opioid use disorder who are

U.S. Vietnam War Fatal Casualties vs. Fatal Opioid Overdoses



*Includes prescription analgesics and heroin. Source: National Center for Health Statistics/CDC, National Vital Statistics Report, Final death data for each calendar year (June 2014).

Citation for Vietnam War Deaths: U.S. National Archives. Statistical Information about Fatal Casualties of the Vietnam War. As of April 29, 2008.

The Opioid Epidemic in the U.S.

In 2015...



12.5 million

People misused prescription opioids¹



2.1 million

People misused prescription opioids for the first time¹



33,091

People died from overdosing on opioids²



2 million

People had prescription opioid use disorder¹



15,281

Deaths attributed to overdosing on commonly prescribed opioids^{2,3}



828,000

People used heroin¹



9,580

Deaths attributed to overdosing on synthetic opioids^{2,5}



135,000

People used heroin for the first time¹



12,989

Deaths attributed to overdosing on heroin^{2,4}



\$78.5 billion
In economic costs
(2013 data)⁶

Sources: 1 2015 National Survey on Drug Use and Health (SAMHSA), 2 MMWR, 2016; 65(50-51):1445-1452 (CDC), 3 Prescription Overdose Data (CDC), 4 Heroin Overdose Data (CDC), 5 Synthetic Opioid Data (CDC), 6 The Economic Burden of Prescription Opioid Overdose, Abuse, and Dependence in the United States, 2013. Florence CS, Zhou C, Luo F, Xu L. Med Care. 2016 Oct;54(10):901-6

<https://www.samhsa.gov/>

Opioids

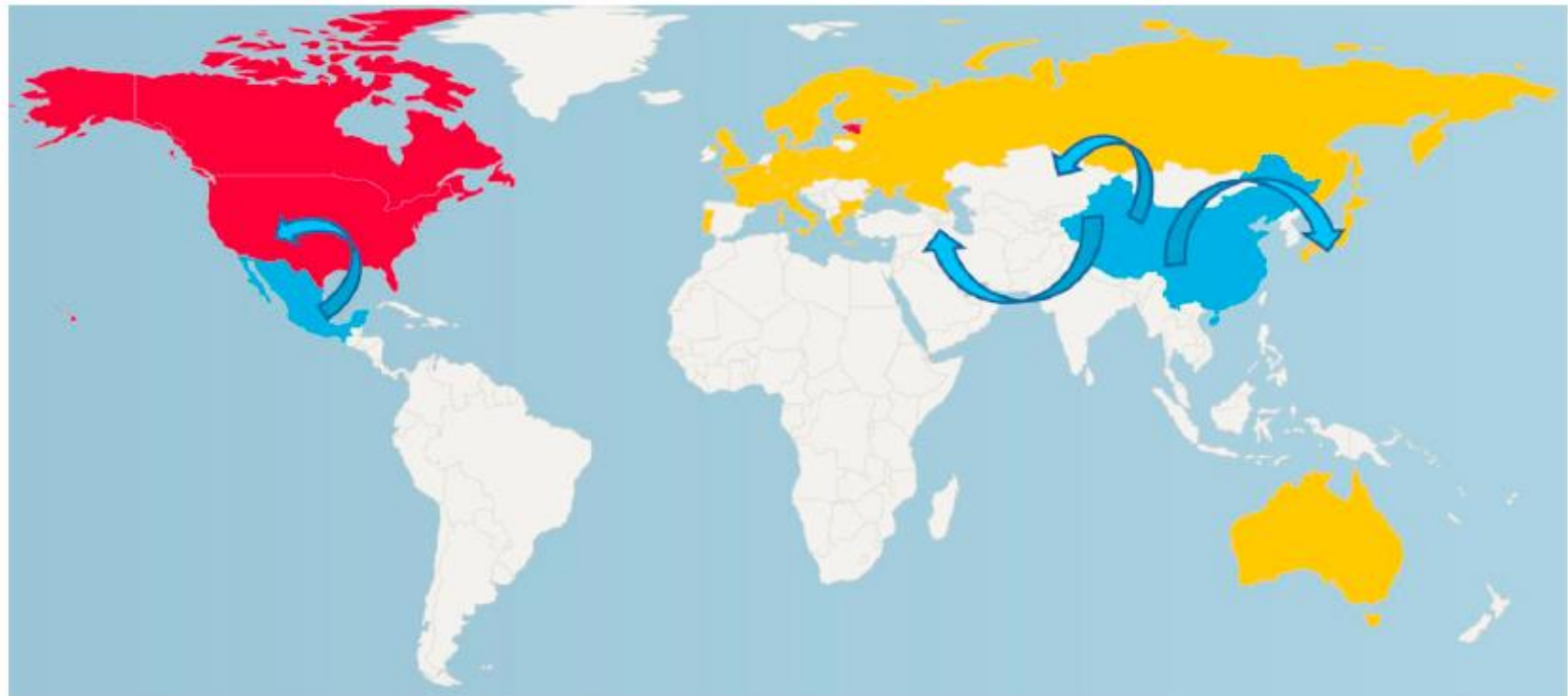
- ▶ The illicit market for opioids includes (fda)
 - internationally controlled substances (e.g., heroin)
 - prescription medicines that could be diverted from the legal market or produced as counterfeit medicines (fake products manufactured illegally in clandestine laboratories), which may contain fentanyl and fentanyl analogues

Opioids

- ▶ The pills and powders containing fentanyl and analogues pose a threat to public health because of the variable quantity and potency of the active components (e.g., fentanyl may be 50–100 times more potent than morphine, carfentanil may be 10,000 times more potent than morphine)

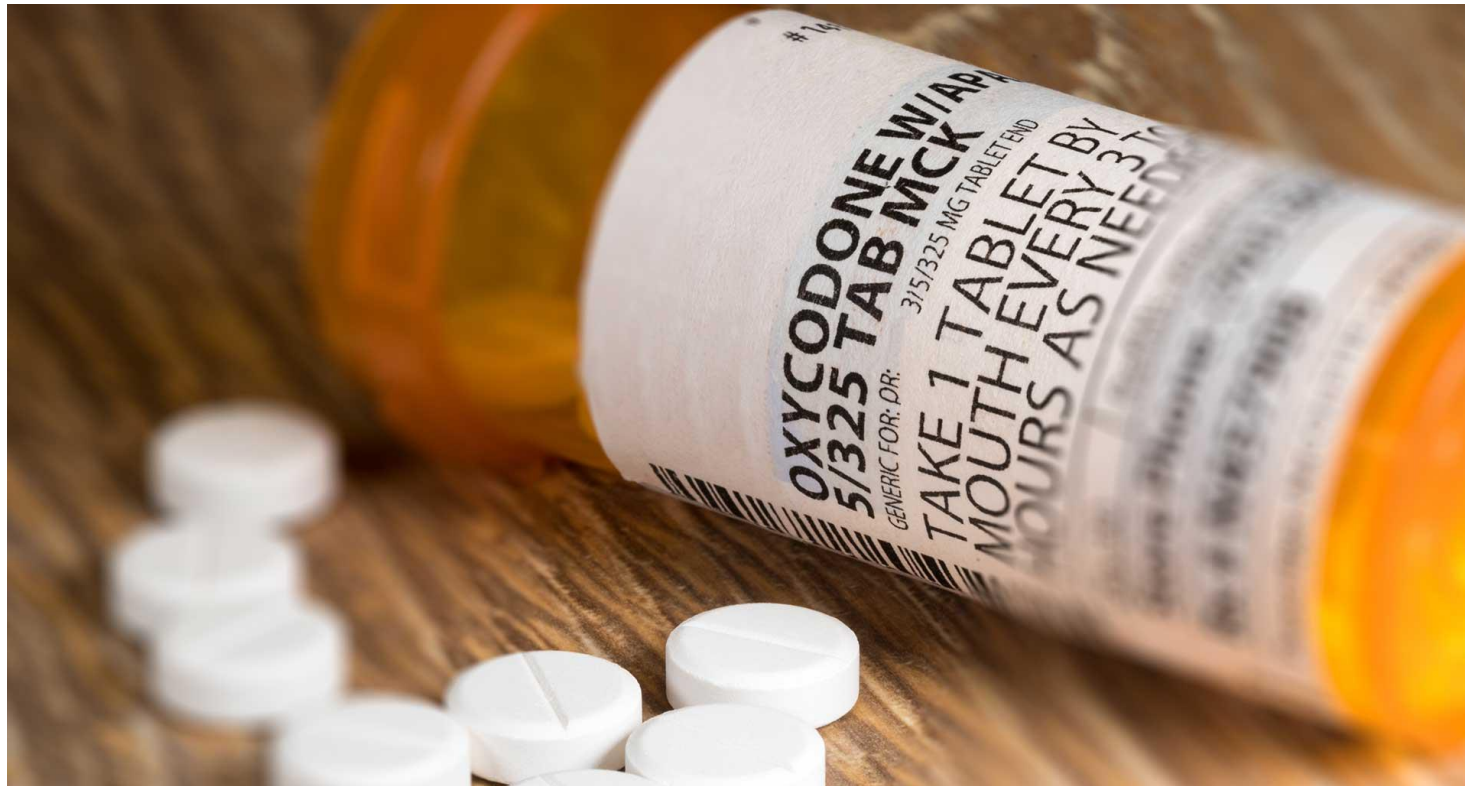
Opioids

Laurent Karila^{a,*}, Maude Marillier^b, Boris Chaumette^c, Joel Billieux^g, Nicolas Franchitto^{d,e},
Amine Benyamina^f



- Countries in blue: Main manufacturers
- Countries in red: Opioid crisis
- Countries in yellow: Public health issue
- Not colored: No data available

Overdose Deaths Involving Prescription Opioids



Overdose Deaths Involving Prescription Opioids



46 people/die every day from overdoses involving prescription opioids.

In 2017, prescription opioids continue to contribute to the epidemic in the U.S., they were involved in more than 35% of all opioid overdose deaths

The most common drugs involved in prescription opioid overdose deaths include:

Methadone

Oxycodone (such as OxyContin®)

Hydrocodone (such as Vicodin®)²

<https://www.cdc.gov/>

Overdose Deaths Involving Prescription Opioids



The rate of overdose deaths from prescription opioids among men was 6.1 per 100,000 people and the rate among women was 4.2 in 2017

Overdose Deaths Involving Prescription Opioids



Fentanyl

- A **synthetic** (man-made) opioid **50x** more potent than heroin and **100x** more potent than morphine.
- **Prescribed** in the form of transdermal patches, tablets, lozenges, or nasal sprays.
- Can also be **illegally** made (**illicitly manufactured fentanyl**) and mixed into other drugs like heroin or cocaine.

Overdose Deaths Involving Prescription Opioids



A generic fentanyl transdermal patch

<https://www.thegreatcoursesdaily.com/the-opioid-crisis-fentanyl-synthetic-opioids/>

Overdose Deaths Involving Prescription Opioids



GUIDELINE FOR PRESCRIBING OPIOIDS FOR CHRONIC PAIN

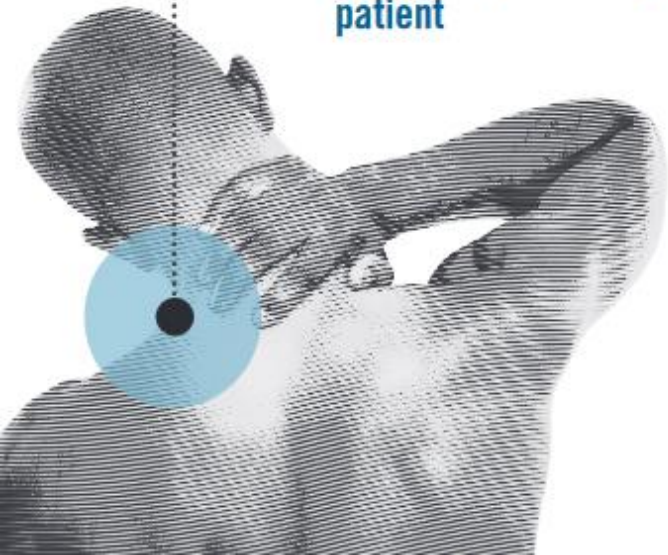
<https://www.cdc.gov/>

Overdose Deaths Involving Prescription Opioids



CLINICAL REMINDERS

- Opioids are not first-line or routine therapy for chronic pain
- Establish and measure goals for pain and function
- Discuss benefits and risks and availability of nonopioid therapies with patient





Medication-Assisted Treatment for Opioid Use Disorders (MAT)

Combined with behavioral therapy, effective MAT programs for opioid addiction decrease overdose deaths, result in cost savings, reduce transmissions of HIV and hepatitis C related to IV drug use, and mitigate associated criminal activity(NIH, 2016).

While the goal of MAT is for all patients to become drug-free, some people with severe addictions may need to continue MAT indefinitely.

HHS RESPONSE TO THE OPIOID CRISIS



1

improving access to treatment and recovery services



2

promoting use of overdose-reversing drugs



3

strengthening our understanding of the epidemic through better public health surveillance



4

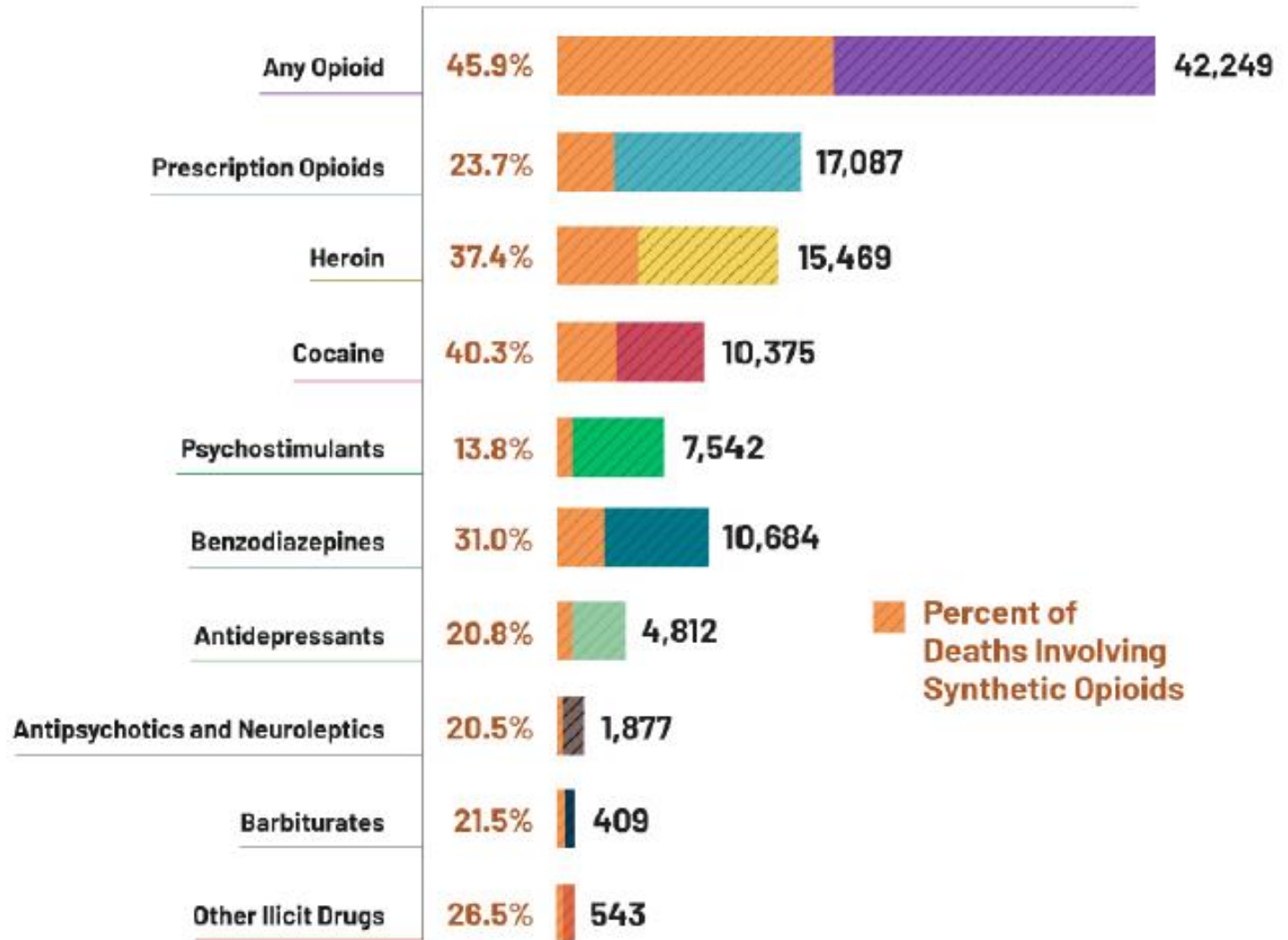
providing support for cutting-edge research on pain and addiction



5

advancing better practices for pain management

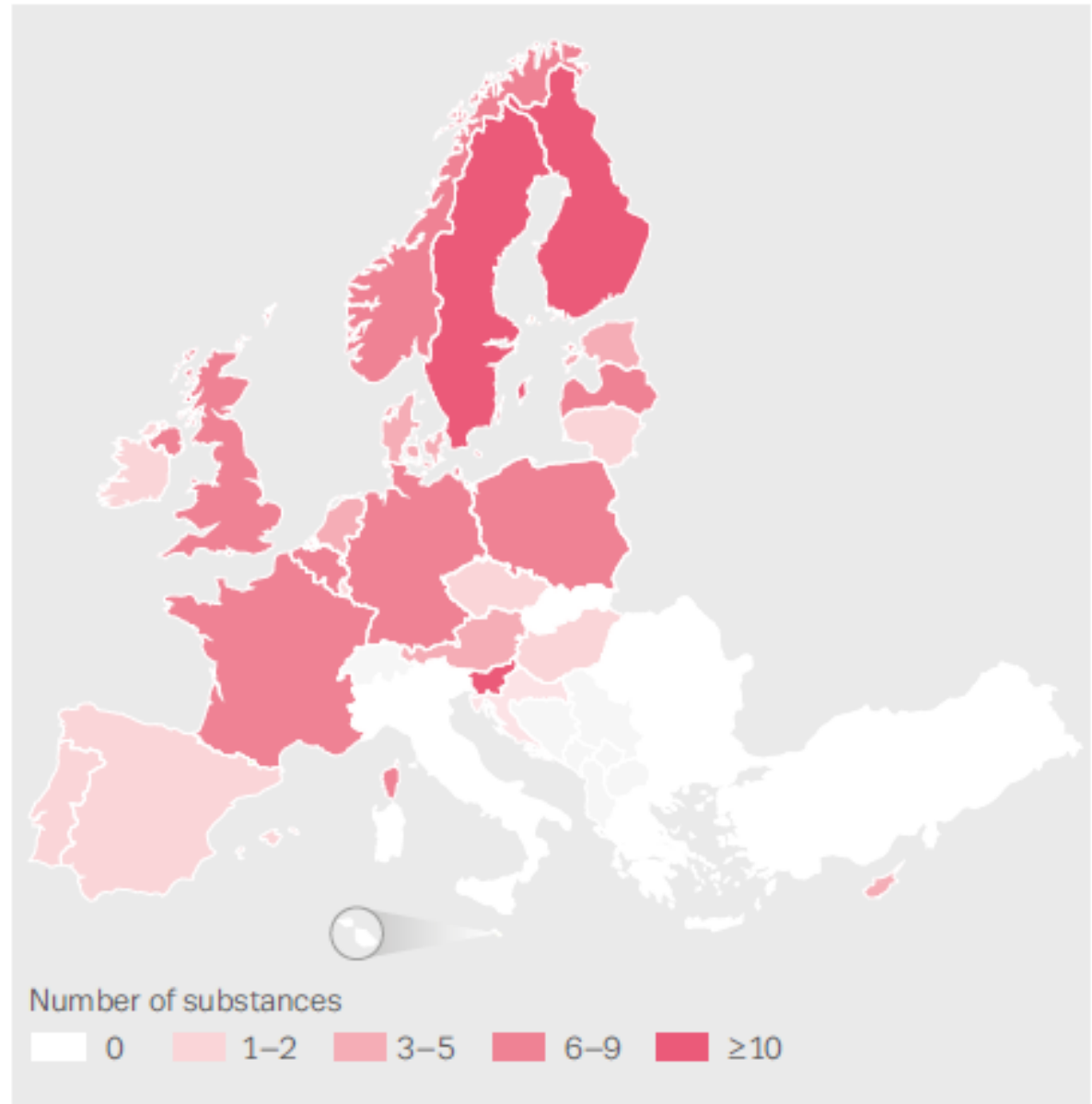
2016 Total Drug Overdose Deaths



Deaths are not mutually exclusive. Deaths involving more than one drug or drug class are counted multiple times.

Illicit Opioids

Number of different fentanils detected by country reported to the EU Early Warning System, 2012-17



Illicit Opioids




European Monitoring Centre
for Drugs and Drug Addiction

Extent of the global opioid crisis

Americas

fentanyl and its analogues

Oceania

fentanyl and its analogues

Asia


fentanyl and its analogues

Europe

heroin, fentanyl and its analogues

Near and Middle East

tramadol

Africa

tramadol and codeine-based cough syrups

Fast emerging public health threats

The scope

The magn
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report

Fentanyl



European Monitoring Centre
for Drugs and Drug Addiction

Fentanyl is a narcotic analgesic with a potency at least 80 times that of morphine.

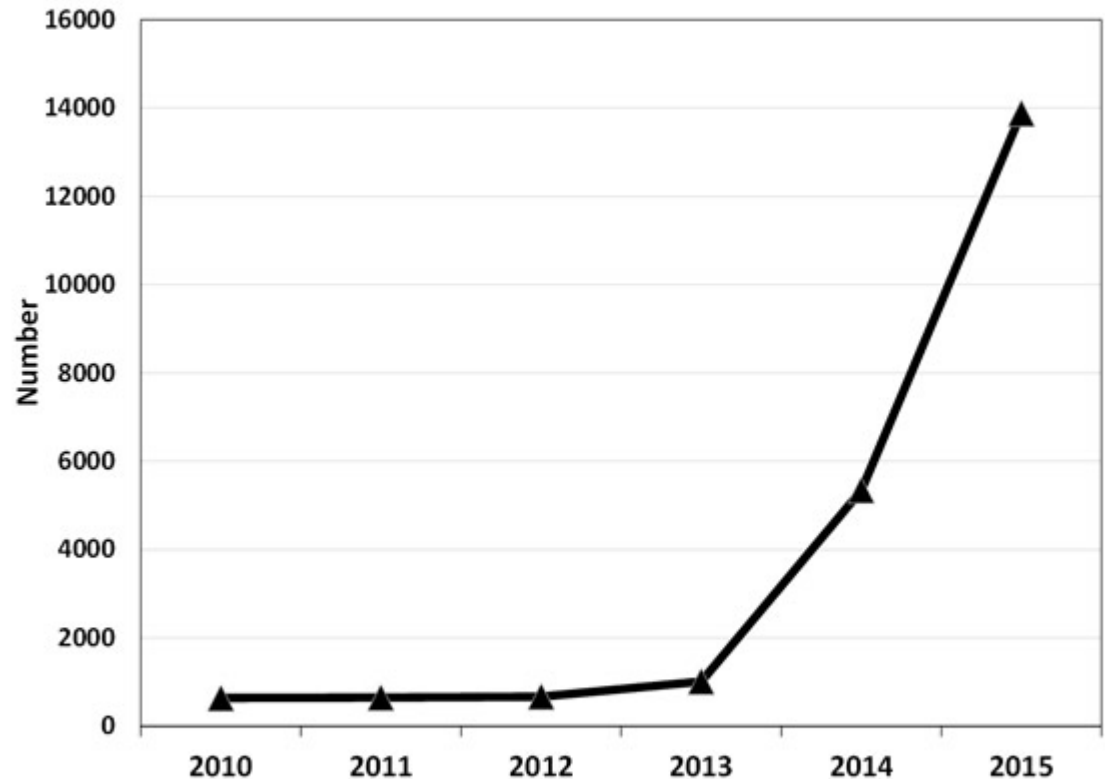
Fentanyl and some of its derivatives (alfentanil, sufentanil, remifentanil and carfentanil) are used as analgesics and anaesthetics in human and veterinary medicine

FENTANYL IN EUROPE
EMCDDA TRENDSPOTTER STUDY

Report from an EMCDDA expert meeting
9 to 10 October 2012

Fentanyl

Number of Reported Law Enforcement Encounters Testing Positive for Fentanyl in the US: 2010 - 2015

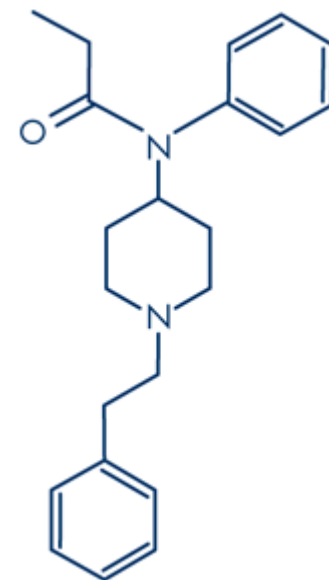


Fentanyl



European Monitoring Centre
for Drugs and Drug Addiction

- Fentanyl is a narcotic analgesic acting predominately at the μ -opiate receptor.
- Drowsiness and euphoria
- Nausea, dizziness, vomiting, fatigue, headache, constipation, anaemia and peripheral oedema.



FENTANYL IN EUROPE
EMCDDA TRENDSPOTTER STUDY

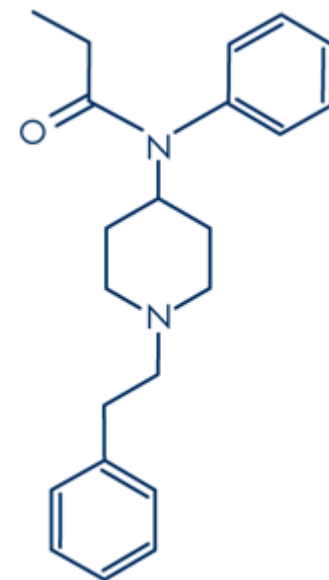
Report from an EMCDDA expert meeting
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Fentanyl

- Characteristic withdrawal symptoms (sweating, anxiety, diarrhoea, bone pain, abdominal cramps, shivers or 'goose flesh') occur when use is stopped.
- Serious interactions can occur when fentanyls are mixed with heroin, cocaine, alcohol and other CNS depressants e.g. benzodiazepines



European Monitoring Centre
for Drugs and Drug Addiction



FENTANYL IN EUROPE
EMCDDA TRENDSPOTTER STUDY

Report from an EMCDDA expert meeting
9 to 10 October 2012

Fentanyl

BRAND NAMES

- “China White”
- “Synthetic Heroin”
- “China Girl”
- “Chinatown”,
- “Tango & Cash”
- “TNT”
- “Drop Dead”,
- “Flatline”
- “Lethal Injection”
- “Poison”,
- “Apache
- “Dance Fever”,
- “Great Bear”
- “Perc-o-Pops”
- “Lollipops”.




International Journal of
*Environmental Research
and Public Health*



Review

Non-Medical Use of Novel Synthetic Opioids: A New Challenge to Public Health

Barbara Lovrecic ¹, Mercedes Lovrecic ^{1,2}, Branko Gabrovcec ¹ , Marco Carli ³, Matteo Pacini ⁴,
Angelo G. I. Maremmani ^{5,6} and Icro Maremmani ^{4,6,7,*}

Fentanyl

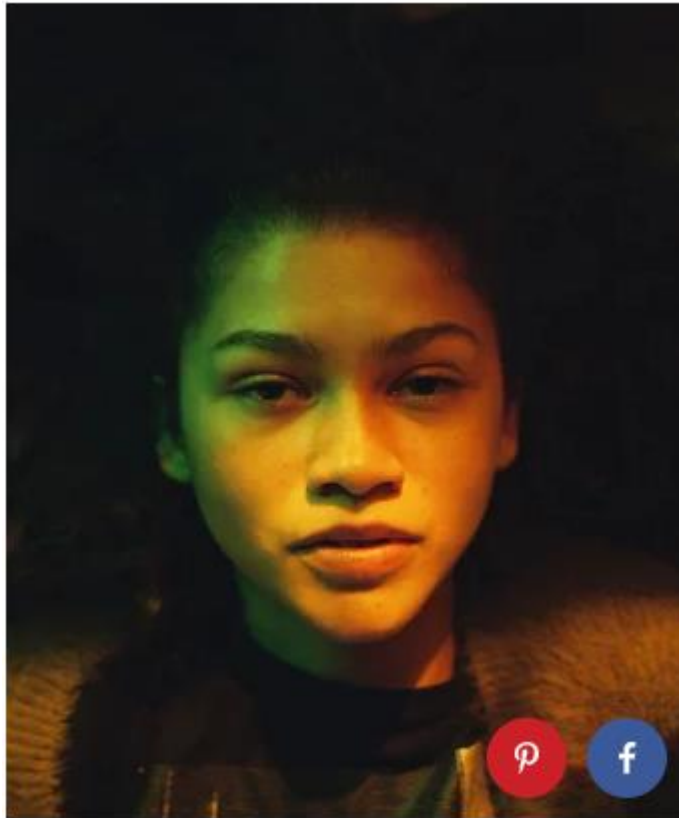
Fentanyl toxicity	Fentanyl severe toxicity	Differences between heroin and fentanyl overdoses
<ul style="list-style-type: none">• Miosis (pinpoint pupils)• Nausea, vomiting• Anxiety, agitation• Euphoria, dysphoria• Depression• Paranoia• Hallucinations	<ul style="list-style-type: none">• Respiratory and central nervous system depression• Decreased consciousness• Apnoea• Can lead to deep coma, convulsions and respiratory arrest.• Sudden-onset chest wall rigidity may be associated with increased risk of mortality	<p>In comparison with heroin, intoxication with fentanyl and analogues presents with:</p> <ul style="list-style-type: none">• increased risk of overdose• more rapid onset of overdose• more rapid progression of signs and symptoms

The misuse of synthetic opioids: harms and clinical management of fentanyl, fentanyl analogues and other novel synthetic opioids

Information for clinicians

Dima Abdulrahim and Owen Bowden-Jones
on behalf of the NEPTUNE group

Fentanyl





**DEA illustration of 2 milligrams of fentanyl,
a lethal dose in most people**

Carfentanil

500 a 1000 vs Morphine

Carfentanil was synthesized by a team of chemists, including Paul Janssen, at Janssen Pharmaceuticals in 1974. Its synthesis was firstly described in the literature by Van Bever et al.

Is a fentanyl analogue that is approved for **veterinary** use as a tranquilizing agent for sedation, as a hypnotic, and as anesthesia of animals such as **elephants, gazelles, goats, horses, pigs, polar bears, rhinoceroses, seals, and wolves.**

Fentanyls continue to replace heroin in the drug arena: the cases of ofentanil and carfentanil

Nektaria Misailidi¹ · Ioannis Papoutsis¹ · Panagiota Nikolaou¹ · Artemisia Dona¹ · Chara Spiliopoulou¹ · Sotiris Athanaselis¹

Carfentanil

500 a 1000 vs Morphine

In October 2016, Associated Press news reported finding 12 Chinese laboratories willing to export carfentanil to the United States, Canada, the United Kingdom, France, Germany, Belgium, and Australia for the price of **US\$2750/kg**.

The drug can be also found easily online, on the darknet, through related websites in which it is often labeled as a “research chemical” and sold through direct mail shipments in prices from US\$800 to 2500 per gram.

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Carfentanil

500 a 1000 vs Morphine

The first fatal cases possibly related to **carfentanil** were reported in Russia, in 2002, when more than 120 people died in the **Moscow Dubrovka Theater**, in which they were held as hostages by Chechen rebels. During a rescue attempt, the Russian military forces released a “poison” gas through the ventilation system in order to subdue the rebels. Hundreds of hostages were submitted to hospitals suffering from “sleeping gas” poisoning.

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Carfentanil

500 a 1000 vs Morphine

Later, in 2013, a series of carfentanil-related deaths was reported in Latvia, and a related alert was issued by the Latvian National Focal Point.

In the United States, the first reported carfentanil-related intoxication took place in 2010 in Chicago. It was an unintentional intoxication where a veterinarian was accidentally exposed to carfentanil.

Fentanyls continue to replace heroin in the drug arena: the cases of fentanil and carfentanil

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Carfentanil, 500 a 1000 vs Morphine

Carfentanil seized in Norway

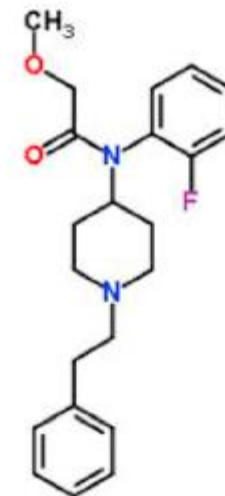


Note: Foil packet containing a ziplock bag labelled 'C.50' that contained carfentanil as a white powder. It was bought on a darknet market and recovered from a scene of death in Norway in 2017. Image kindly provided by Norwegian National Criminal Investigation Service (Kripos). Copyright: Norwegian National Criminal Investigation Service (Kripos).

Ocfentanyl

Ocfentanil is a synthetic analogue of fentanyl

According to the Early Warning Advisory (EWA) of the United Nations Office of Drugs and Crime (UNODC), ocfentanil is among the 14 fentanyl analogues that have been reported in Europe within 2012–2016 and it is among the 15 different synthetic opioids that have been reported to EMCDDA during 2009–2015



Ocfentanil
(x100 morphine)

Fentanyls continue to replace heroin in the drug arena: the cases of ocfentanil and carfentanil

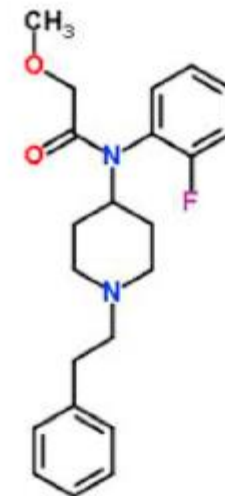
Nektaria Misailidi¹ · Ioannis Papoutsis¹ · Panagiota Nikolaou¹ · Artemisia Dona¹ · Chara Spiliopoulou¹ · Sotiris Athanaselis¹

Octofentanyl

It has been associated with some intoxication cases and deaths mostly in Europe:

Finland, France, Ireland, Luxembourg, Spain, Sweden, and the United Kingdom

The drug is also among other synthetic opioids that are a current matter of concern in the United States and Canada



Ocfentanil
(x100 morphine)

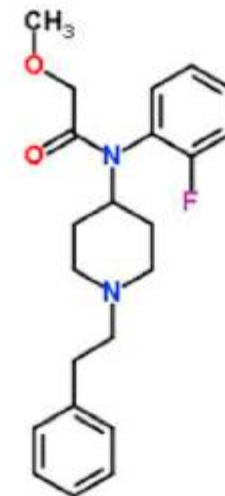
Fentanyl continues to replace heroin in the drug arena: the cases of ocfentanil and carfentanil

Nektaria Misailidi¹ · Ioannis Papoutsis¹ · Panagiota Nikolaou¹ · Artemisia Dona¹ · Chara Spiliopoulou¹ · Sotiris Athanaselis¹

Octofentanyl

It is seized mostly in **white or brown powdered form**

A recent seizure of a pink colored powder has been also reported




Octofentaniil
(x100 morphine)

Fentanyls continue to replace heroin in the drug arena: the cases of octofentaniil and carfentaniil

Nektaria Misailidi¹ · Ioannis Papoutsis¹ · Panagiota Nikolaou¹ · Artemisia Dona¹ · Chara Spiliopoulou¹ · Sotiris Athanaselis¹

Fentanyl analogues

- ▶ – Acetylfentanyl
 - ▶ – Butyrylfentanyl
 - ▶ – Furanylfentanyl
 - ▶ And many more...
- 

Fentanyl analogues



European Monitoring Centre
for Drugs and Drug Addiction



Nasal spray bottles w/ acryloylfentanyl
Police seizure, Sweden, 2016

Rita Jorge

Lisboa, 19 September 2017
DRD Expert Meeting

Fentanyl analogues



European Monitoring Centre
for Drugs and Drug Addiction



Nasal spray bottles w/ furanylfentanyl
Found in a postal shipment, Norway, 2017

Rita Jorge

Lisboa, 19 September 2017

DRD Expert Meeting

Fentanyl analogues



European Monitoring Centre
for Drugs and Drug Addiction

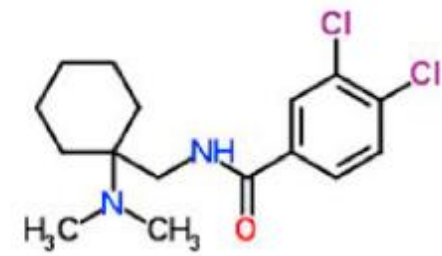
FIGURE 6

Unlabelled nasal sprays containing acryloylfentanyl that were sold online in Sweden in 2016



Source: Image kindly provided by Prof Anders Helander, Department of Laboratory Medicine, Karolinska Institutet, Stockholm, Sweden. Copyright: Anders Helander.

AH-7921



AH-7921
(≈ morphine)

- ▶ Was initially described in 1974 by a drug discovery team from Allen&HanburysLtd, and belongs to a series of compounds known as cyclohexylamines

Misuse of Novel Synthetic Opioids: A Deadly New Trend

Matthew P. Prekupec, MD, Peter A. Mansky, MD, and Michael H. Baumann, PhD

AH-7921

- ▶ AH-7921 was firstly identified in 2012 in samples of a product known as **Doxylam** which was used by Internet retailers as an alternative name for AH-7921



AH-7921
(\approx morphine)

MINI REVIEW
published: 20 June 2018
doi: 10.3389/fphar.2018.00654

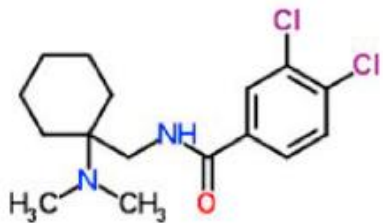
Pharmacotoxicology of **Non-fentanyl** Derived New Synthetic Opioids

Renata Solimini¹, Simona Pichini^{1}, Roberta Pacifici¹, Francesco P. Busardò^{2†} and Raffaele Giorgetti^{3†}*

¹ National Centre on Addiction and Doping, Istituto Superiore di Sanità, Rome, Italy, ² Unit of Forensic Toxicology, Department of Anatomical, Histological, Forensic and Orthopedic Sciences, Sapienza University of Rome, Rome, Italy, ³ Section of Legal Medicine, Università Politecnica delle Marche, Ancona, Italy

AH-7921

- ▶ The name Doxylam could be easily confounded with the name of an antihistamine drug with sedative–hypnotic properties, doxylamine, present in several over–the–counter medicines. The accidental use of AH-7921 /doxylam for the treatment of allergy or as a hypnotic might lead to serious health damages.



AH-7921
(≈ morphine)

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AH-7921

- ▶ AH-7921 recently entered the illicit drug market as new psychotropic substance in countries such as Japan, United States and Europe, resulting in several fatalities and intoxications.
- ▶ In fatalities occurred in European countries, the reported blood concentrations ranged from 31 to 1,449 ng/mL



AH-7921
(≈ morphine)

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AH-7921



- ▶ The compound is taken orally, nasally, by smoking, and, less commonly, by intravenous injection . The main clinical effects included hypertension, tachycardia.



AH-7921
(≈ morphine)

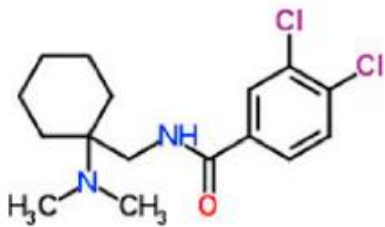
Review

Novel Synthetic Opioids: The Pathologist's Point of View

Paolo Frisoni ¹, Erica Bacchio ¹, Sabine Bilel ², Anna Talarico ³ , Rosa Maria Gaudio ¹, Mario Barbieri ¹, Margherita Neri ^{4,+}  and Matteo Marti ^{4,5}

AH-7921

- ▶ Light doses are from 5 to 10 mg, common doses from 10 to 25 and strong doses >25 mg. Onset of action for oral administration is 15–45 min, duration 6–8 h and after effects 1–6 h.



AH-7921
(≈ morphine)

MINI REVIEW

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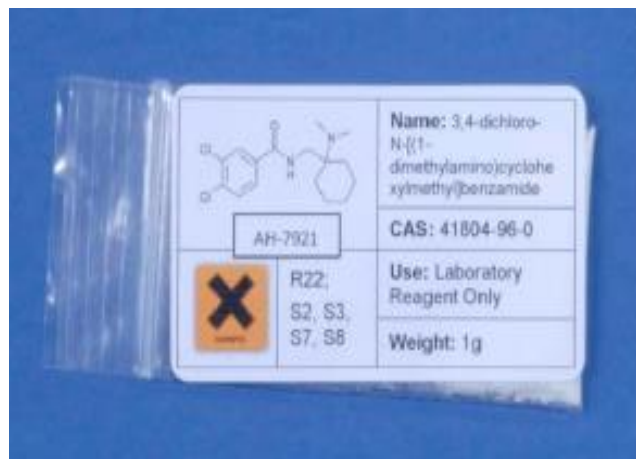
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AH-7921



AH-7921

- μ -opioid receptor agonist
- analgesic potency close to that of morphine
- sold as a 'research chemical'
- Detections in at least 9 countries

Fentanils in Europe: perspective from the EU EWS

Rita Jorge

Lisboa, 19 September 2017
DRD Expert Meeting

U 47 700

7,5 v VS Morphine

- Analgesic drug since 1970's
- Strong μ -receptor opioid agonist
- «U4», «Pinky», «Pink»
- Available in Europe since 2014
- Sold on web dark
- White powder
- Nasal spray

- Es. Postmortem, 2018 Pub

First Case in Italy of Fatal Intoxication Involving the New Opioid U-47700

Enrico Gerace¹, Alberto Salomone^{1}, Clemente Luciano¹, Daniele Di Corcia¹ and Marco Vincenti^{1,2}*




U-47700

- Potent opioid
- First detected in Europe in 2014.
- EU EWS ALERT 8th June 2016.
- Deaths reported in the US, Belgium, Sweden, UK and Finland.

€12.45



Availability: In Stock

 Add to Wishlist  Add to Compare  Email to a Friend

Quantity [⚙] * Required Fields

50mg

Add to Cart

Qty:



U-47,700-related fatalities in Finland

Pirkko Kriikku, forensic toxicologist, PhD

The role of darkweb



European Monitoring Centre
for Drugs and Drug Addiction

Drugs and the darknet

Perspectives for enforcement,
research and policy

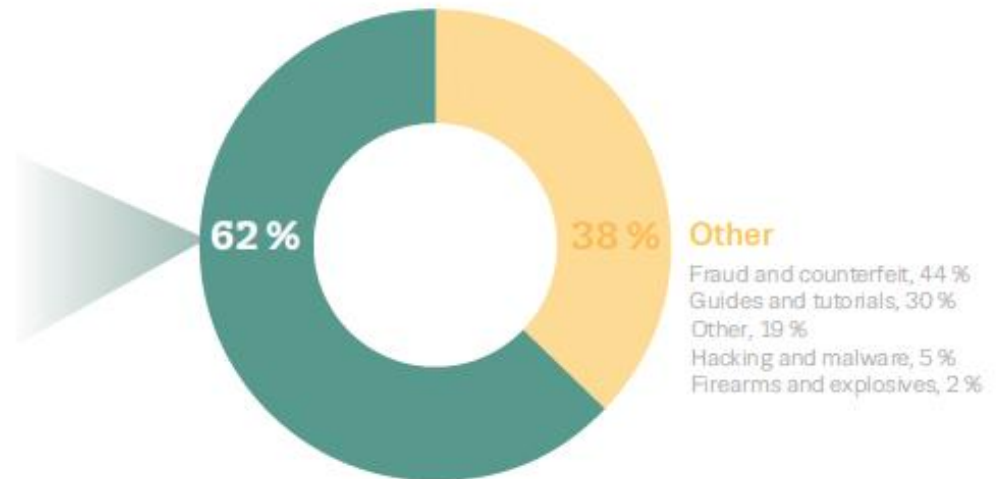
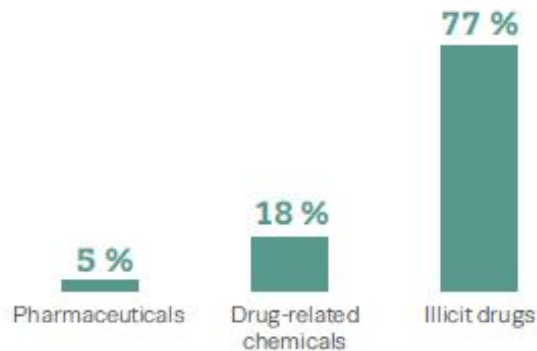
The role of darkweb



European Monitoring Centre
for Drugs and Drug Addiction

FIGURE 1.1
Darknet markets content

Drugs and drug-related chemicals



Source: Web-IQ (2017).



European Monitoring Centre
for Drugs and Drug Addiction

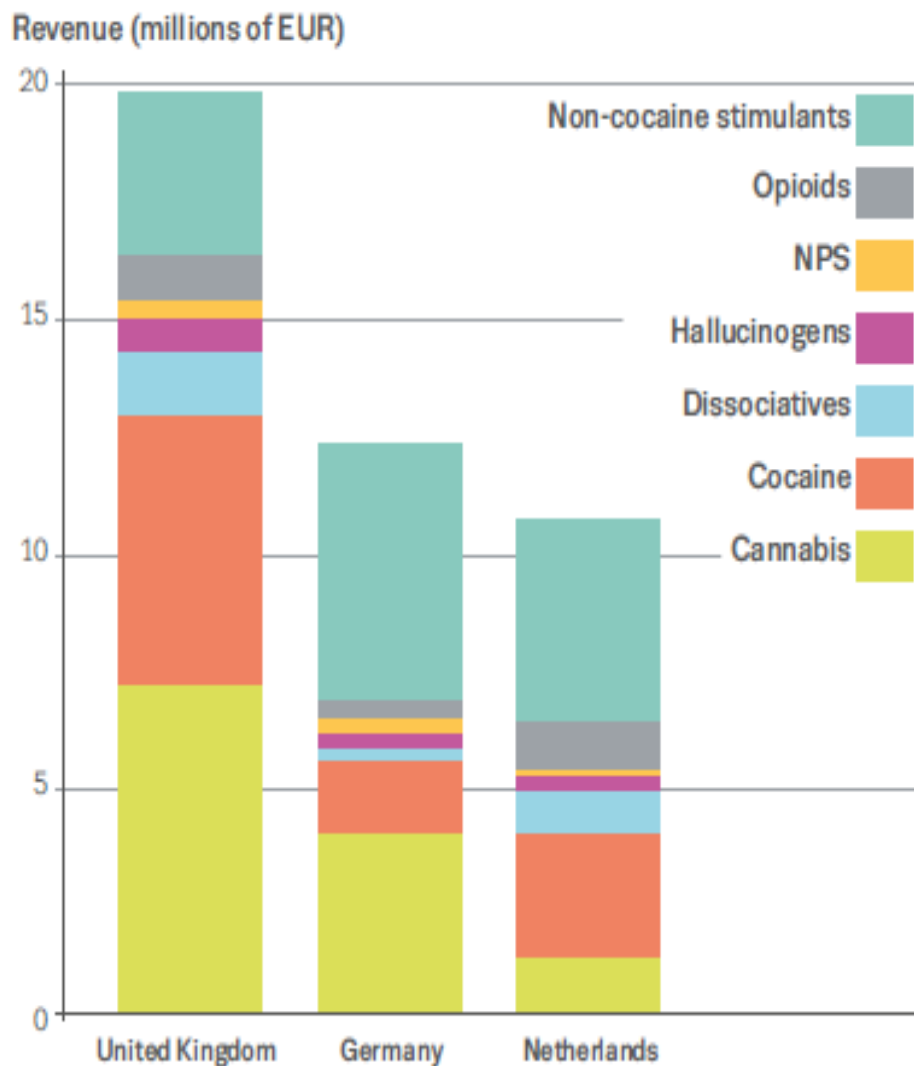
CRYPTOMARKETS

SOCIAL NETWORK

FIGURE 2.11

Breakdown of AlphaBay sales revenue originating from the EU, Norway and Turkey by country, 2015-2017

a) Breakdown by revenue (major countries)





How Helix^{light} works

Enter your Bitcoin address in the box above



Send your dirty coins to the Helix address



Now, clean coins sent to your Bitcoin address



CRYPTOMARKETS



European Monitoring Centre
for Drugs and Drug Addiction

USD 593.42 CAD 781.88 EUR 532.12 AUD 782.55 GBP 457.16

HOME SALES MESSAGES ORDERS LISTINGS BALANCE FEEDBACK FORUMS API SUPPORT

Home



Joined: [redacted]
Trust level: [redacted]
Total sales: USD 0.00
Total orders: USD 0.00

Welcome, meghosta.

Personal phrase:
The sentence above is here to ensure that you are on the real Alphabay Market site and not on a phishing site.

⚠ We highly recommend that you disable Javascript when viewing the marketplace for better security.

CC / ACCOUNT AUTOSHOP

- Access the CC autoshop
- Access the account autoshop

QUICK SEARCH

Search:

BROWSE CATEGORIES

- Fraud 26757
- Drugs & Chemicals 143274
- Guides & Tutorials 10377
- Counterfeit Items 5407
- Digital Products 12544
- Jewels & Gold 1187
- Weapons 2284
- Carried Items 2546

FEATURED LISTINGS



Double Your Bitcoins in ONE Day! GUARANTEED! \$7000+ in 20 TWENTY MINUTES (84 + COPIES SOLD 100% POSITIVE FEEDBACK!)
183848 - Other - BitcoinThief
Buy: USD 1,050.00



Square AssFucking Cashout \$6167 in ONE day + \$4000 in 2 TWO Days - Make Thousands per Day Carding Square + (Bonus Method USA Bank Cashout To BTC)
197843 - Fraud - BitcoinThief
Buy: USD 1,500.00



[MS] ***PURITY: 5 STARS - VERY HIGH COCAINE CONTENT / CUT: HCL*** 7gs PURE FISHSCALE COCAINE FROM PERUVIAN CONNECT***
171867 - Cocaine - shakalhan
Buy: USD 368.00



[MS] [FE 100%] FRESH CC/CVV USA SNIFFED 100% VALID (NEW STOCK/DB)
41783 - CVV & Cards - RedSon
Buy: USD 8.50



[MS] [FE 100%] FRESH CC/CVV USA VISA/MASTERCARD/DISCOVER/AMEX (OLD MAGIC CC) - (New Stock OF CC +20K) - (Good Price) - (Good Quality) - (Good Validity) - (Delivery Is Instawork) - (Support Always Online).



[MS] [CARDING-UNIVERSITY-VIRTUAL-EDITION] Jump From Noob to Pro Carder in No Time [Live Mentorship] [CUVE 3.0] [Includes 2 Full Free Months of FraudFox VM + Exclusive Vouchers from Top Vendors]
648 - Accounts & Bank Drops - hazzedebaks

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Country/language	Platform name	Source
France/French	The French connection	Survey
France/French	French Deep Web	Survey; Deepdotweb.com
France/French	French Freedom Zone	Survey; Deepdotweb.com
France/French	THC Market	Deepdotweb.com
France/French	French Darknet	Deepdotweb.com
France/French	French Market Place	darknetmarkets.org
France/French	French Dark Place 2.0	darknetmarkets.org
Italy/Italian	Babylon	darknetmarkets.org
Italy/Italian	Italian darknet Community	Deepdotweb.com; darknetmarkets.org
Norway/Norwegian	Fluesopp	Survey
Russia/Russian	Wayaway	Deepdotweb.com
Russia/Russian	Rutor	Deepdotweb.com
Russia/Russian	Ramp	Deepdotweb.com

CRYPTOMARKETS






European Monitoring Centre
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France/French	THC Market	Deepdotweb.com
France/French	French Darknet	Deepdotweb.com
France/French	French Market Place	darknetmarkets.org
France/French	French Dark Place 2.0	darknetmarkets.org
Italy/Italian	Babylon	darknetmarkets.org
Italy/Italian	Italian darknet Community	Deepdotweb.com; darknetmarkets.org
Norway/Norwegian	Fluesopp	Survey
Russia/Russian	Wayaway	Deepdotweb.com
Russia/Russian	Rutor	Deepdotweb.com
Russia/Russian	Ramp	Deepdotweb.com

SOCIAL NETWORK

Drug dealing on Facebook, Snapchat and Instagram: A qualitative analysis of novel drug markets in the Nordic countries

JAKOB DEMANT¹ , SILJE ANDERDAL BAKKEN¹ , ATTE OKSANEN²  & HELGI GUNNLAUGSSON³

Drug and Alcohol REVIEW

Drug and Alcohol Review (May 2019), 38, 377–385
DOI: 10.1111/dar.12932

SOCIAL NETWORK

Table 3. Key information on most popular social media and drugs and the number of interviews and Facebook groups by country

Country	Social media	Number of interviews	Number of Facebook groups	Top three drugs (from Facebook posts)
Denmark	Facebook, Messenger, Wickr	26	26	Cannabis, cocaine, prescription drugs
Finland	Darknet, Wickr, other encrypted apps	15	—	—
Iceland	Facebook	7	30	Cannabis, prescription drugs, ecstasy/MDMA
Norway	Wickr, Snapchat, darknet	35	—	—
Sweden	Facebook, Wickr, darknet	24	57	Cannabis, prescription drugs, amphetamine

SOCIAL NETWORK

👶 Ho ho ho. Then Santa is back with presents

👶 ❄️❄️ 'We are in with [capitol]'s best.

Sne ❄️❄️ X-mas offer ❄️❄️

🕒🕒 Active days 24/7 🕒🕒

🚗🚗 Delivers all city 🚗🚗

👉 Taste before buy 👉

❄️ 1/700.

❄️ 10/4000

❄️ 2/1400.

❄️ 20/8000 ❄️ 3/.2000

❄️ 30/13000

❄️ 5/3500.

❄️ 50/20000

❄️ 100/3800

(PS: larger amounts available)

TOP QUALITY!! TOP FLAKE!! TOP SERVICE!!

Best,
👉 XXX

Figure 1. Example of a Facebook seller post.

Drug and Alcohol REVIEW

Drug and Alcohol Review (May 2019), 38, 377–385

DOI: 10.1111/dar.12932

SOCIAL NETWORK



Drug and Alcohol REVIEW

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How much fentanyl is available on the darknet?

March 2019

Matthew Ball, Roderic Broadhurst and
Harshit Trivedi



Australian Government

Australian Institute of Criminology

Statistical Bulletin **18**

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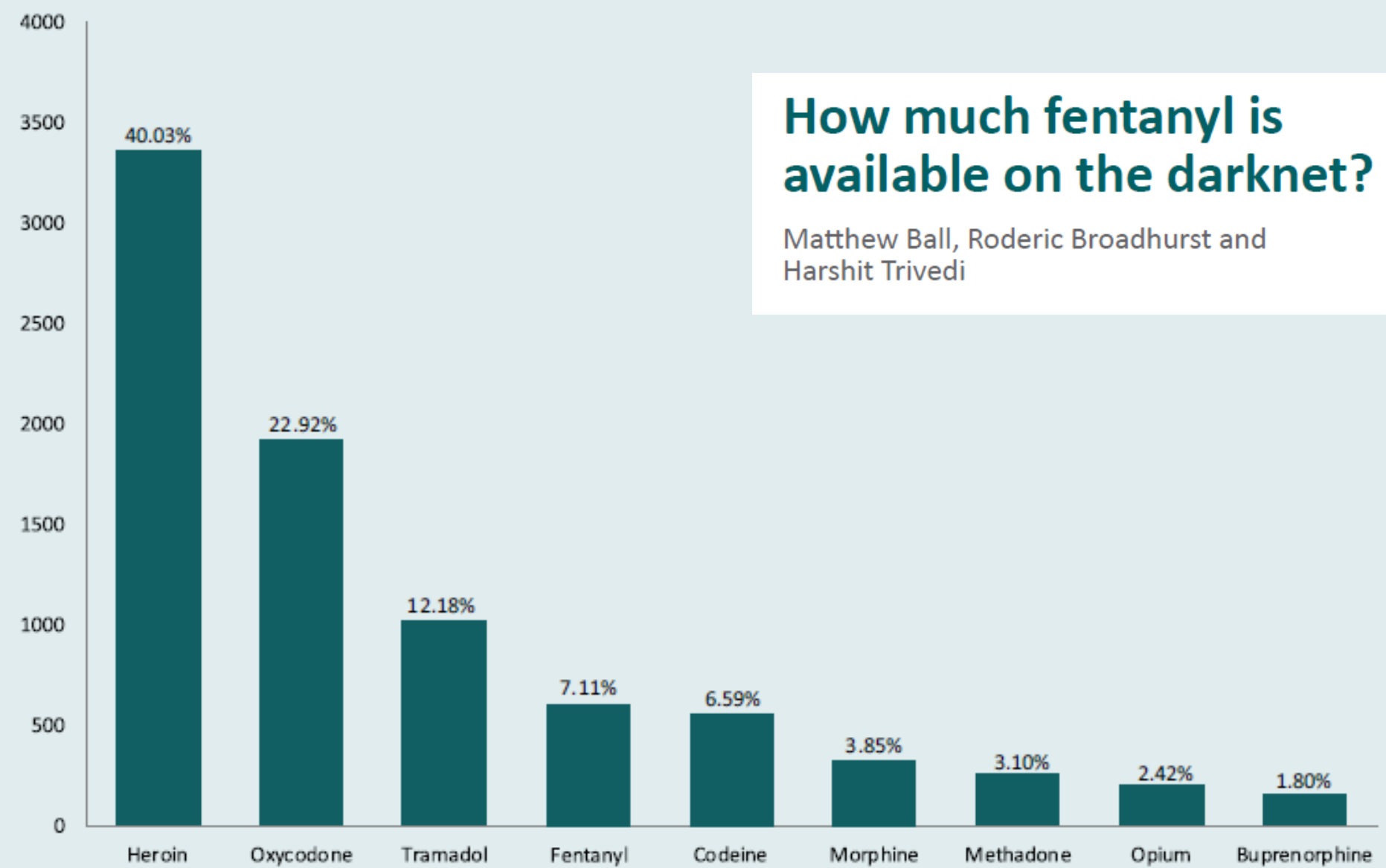
Matthew Ball, Roderic Broadhurst and Harshit Trivedi

Table 1: Market share by all unique products, drugs, opioids and fentanyl listings

Markets	All unique listings n (%)	Drugs n (%)	Opioids n (%)	Fentanyl n (%)
Berlusconi	38,673 (15.5)	13,079 (10.6)	420 (5.7)	64 (14.6)
Dream	167,217 (67.1)	88,905 (72.3)	5,495 (74.3)	30 (6.8)
Empire	9,483 (3.8)	2,765 (2.2)	104 (1.4)	34 (7.7)
Tochka	6,336 (2.5)	3,312 (2.7)	72 (1.0)	38 (8.6)
Valhalla	10,765 (4.3)	7,110 (5.8)	511 (6.9)	45 (10.3)
Wall Street	16,866 (6.8)	7,861 (6.4)	795 (10.8)	228 (51.9)
Total	249,340	123,032	7,397	439

Note: Percentages refer to column totals. Percentages may not total 100 due to rounding

Figure 1: Opioids available on darknet markets, by type of opioid



How much fentanyl is available on the darknet?

Matthew Ball, Roderic Broadhurst and Harshit Trivedi

How to Fight the Opioid Crisis

The New York Times

By David A. Kessler

Jan. 10, 2018



How to Fight the Opioid Crisis

The New York Times

By David A. Kessler

Jan. 10, 2018



Educating physicians and health professionals

- The Centers for Disease Control and Prevention, which established primary physician practice guidelines
 - The National Institute of Drug Abuse
- The Substance Abuse and Mental Health Administration; the Food and Drug Administration; and the Office of the Surgeon General.

How to Fight the Opioid Crisis

The New York Times

By David A. Kessler

Jan. 10, 2018



Expanding access to medications that help treat opioid addiction, requiring “**prescriber education initiatives**” and providing model legislation for states to allow a standing order for anyone to receive naloxone, a drug used to reverse opioid overdoses



THE PRESIDENT'S COMMISSION ON COMBATING DRUG ADDICTION AND THE OPIOID CRISIS

Roster of Commissioners

Governor Chris Christie, Chairman
Governor Charlie Baker
Governor Roy Cooper



Evidence– based Prevention Programs

- Selective interventions are delivered to particular communities, families, or children who, due to their exposure to risk factors are at increased risk of substance misuse problems.
- Selective interventions may include families living in poverty, the children of depressed or substance using parents, and children who have difficulties with social skills or may have experienced trauma.



- Mass Media Public Education Campaigns
- Opioid Prescription Practices
- Reducing and Addressing the Availability of Illicit Opioids
- Protecting First Responders

from Harmful Effects Resulting from

Exposure to Fentanyl and other Synthetic Opioids..

And more..



October 30, 2019



Opioid crisis has cost Canada nearly \$5 billion in lost productivity, U of A student finds

Economics student estimates financial toll of a drug epidemic that has claimed more than 11,000 lives since 2016.

Canada: nearly 14,000 people die from opioid overdoses in four years

More than 17,000 have been hospitalized in what officials say is mounting crisis



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**The
Guardian**

Distribution of take-home opioid antagonist kits during a synthetic opioid epidemic in British Columbia, Canada: a modelling study



Michael A Irvine, Jane A Buxton, Michael Otterstatter, Robert Balshaw, Reka Gustafson, Mark Tyndall, Perry Kendall, Thomas Kerr, Mark Gilbert*, Daniel Coombs*



Correlates of seeking emergency medical help in the event of an overdose in British Columbia, Canada: Findings from the Take Home Naloxone program

Mohammad Karamouzian^{a,b,c}, Margot Kuo^d, Alexis Crabtree^d, Jane A Buxton^{a,d,*}

^a School of Population and Public Health, Faculty of Medicine, University of British Columbia, Vancouver, BC, Canada

^b British Columbia Centre on Substance Use, St. Paul's Hospital, Vancouver, BC, Canada

^c HIV/STI Surveillance Research Center, and WHO Collaborating Center for HIV Surveillance, Institute for Futures Studies in Health, Kerman University of Medical Sciences, Kerman, Iran

^d British Columbia Centre for Disease Control, Vancouver, BC, Canada

KNOW HOW TO RECOGNIZE AN OPIOID OVERDOSE

Signs of an Opioid Overdose



Blue lips or nails



Dizziness and confusion



Can't be woken up



Choking, gurgling or snoring sounds



Slow, weak or no breathing



Drowsiness or difficulty staying awake

Suspect an Overdose?

CALL **911**

Ask festival staff for **help**

Administer **naloxone** if you have it

Stay with the person until help arrives

Canada's new Good Samaritan law can protect you.
You have the power to save a life.

Learn more at Canada.ca/Opioids
Together we can **#StopOverdoses**



U.S. Department of Education

Combating the Opioid Crisis and Other Substance Misuse: Schools, Students, Families

In October 2017, President Donald J. Trump declared the opioid crisis a national public health emergency. The U.S. Department of Education (the Department) is joining other Federal agencies in combating the opioid crisis that is killing Americans at unprecedented rates and plaguing families and communities. While the causes of opioid misuse are complex and determined by multiple factors, the goals of prevention and recovery focus on reducing risk and promoting factors that increase resiliency. Schools play an important role in reaching these goals.



U.S. Department of Education



What are opioids, how are they having an impact and what is the Federal government doing?

- Opioids are natural or synthetic chemicals that reduce feelings of pain.
- Opioids are a class of drugs that include pain relievers available legally by prescription such as oxycodone, hydrocodone (Vicodin), codeine and morphine, as well as heroin and synthetic opioids such as fentanyl.
- **Anyone** who takes prescription opioids can become addicted to them or develop tolerance of physical dependence.
- In 2016, more Americans died due to opioid overdoses than car crashes. From cities and suburbs to rural America, opioid addiction and overdose is "the crisis next door".



TAKE BACK DAY

The National Prescription Drug Take Back Day addresses a crucial public safety and public health issue. According to the 2018 National Survey on Drug Use and Health, **9.9 million Americans misused controlled prescription drugs.**

The study shows that a majority of abused prescription drugs were obtained from family and friends, often from the home medicine cabinet.

The DEA's Take Back Day events provide an opportunity for Americans to prevent drug addiction and overdose deaths.



TAKE BACK DAY

DEA NATIONAL ^{Rx}
TAKEBACK

DON'T BE THE
DEALER



STOP STIGMA



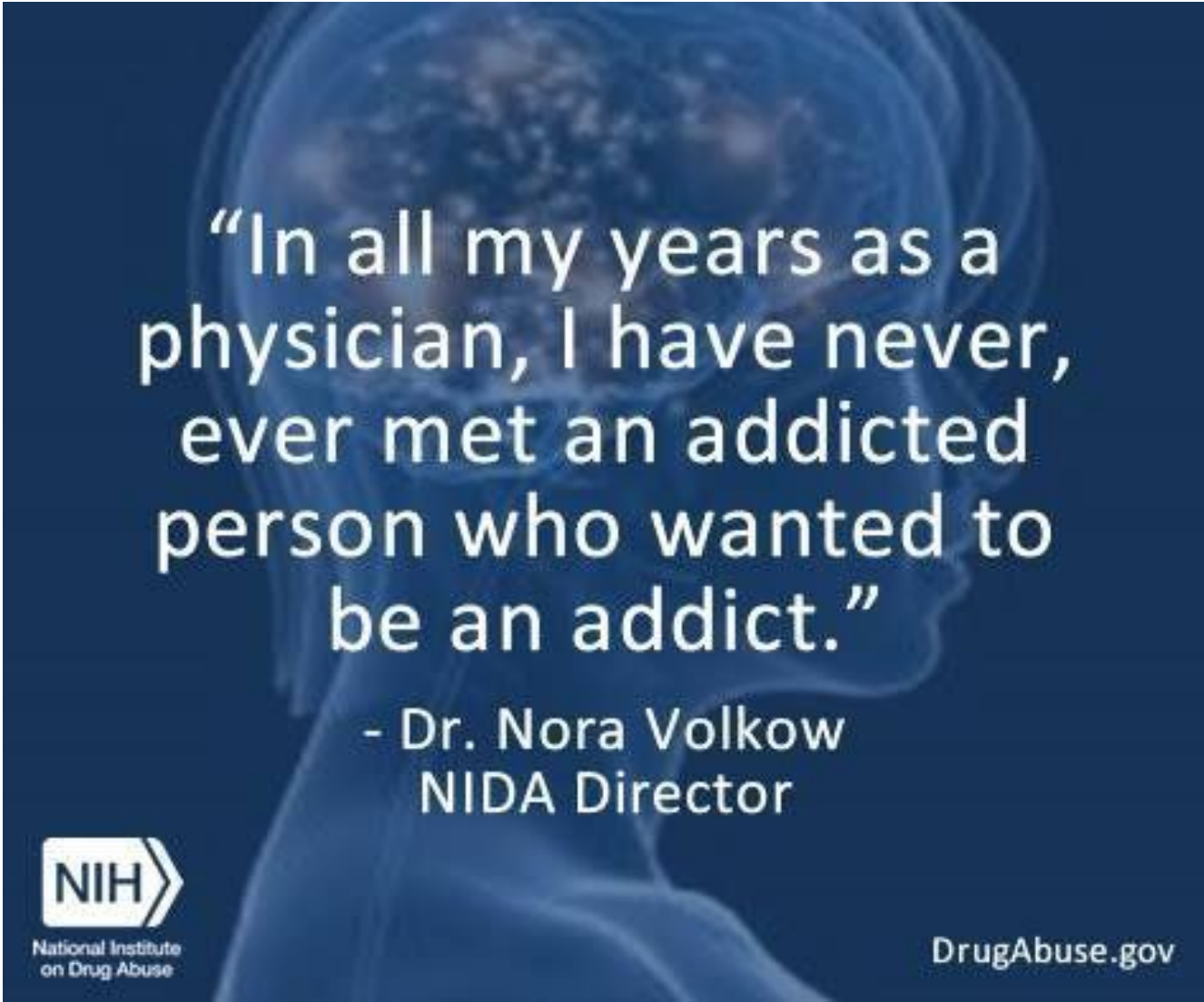
The 12 Step Program is Great
But it is NOT the Only Way

Medicine Assisted Treatment (MAT) Works Too!

Methadone

Suboxone

Naltrexone



“In all my years as a physician, I have never, ever met an addicted person who wanted to be an addict.”

- Dr. Nora Volkow
NIDA Director



National Institute
on Drug Abuse

DrugAbuse.gov

Grazie a tutti per l'attenzione

