

**What
The
Fentanyl?!**

**and
other drugs
of abuse!**

Russ Brown NRP





No disclosures



American College of Medical Toxicology
Physicians Specializing in the Care of Poisoned Patients



AACT

American Academy
of Clinical Toxicology

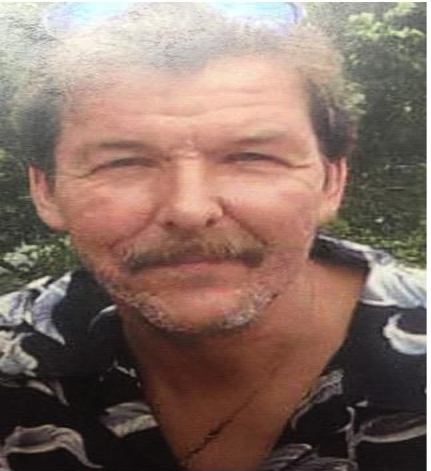
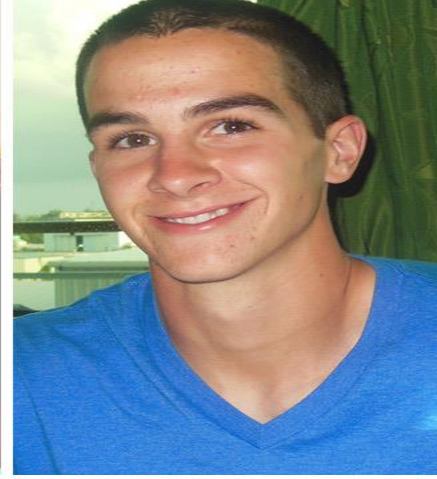


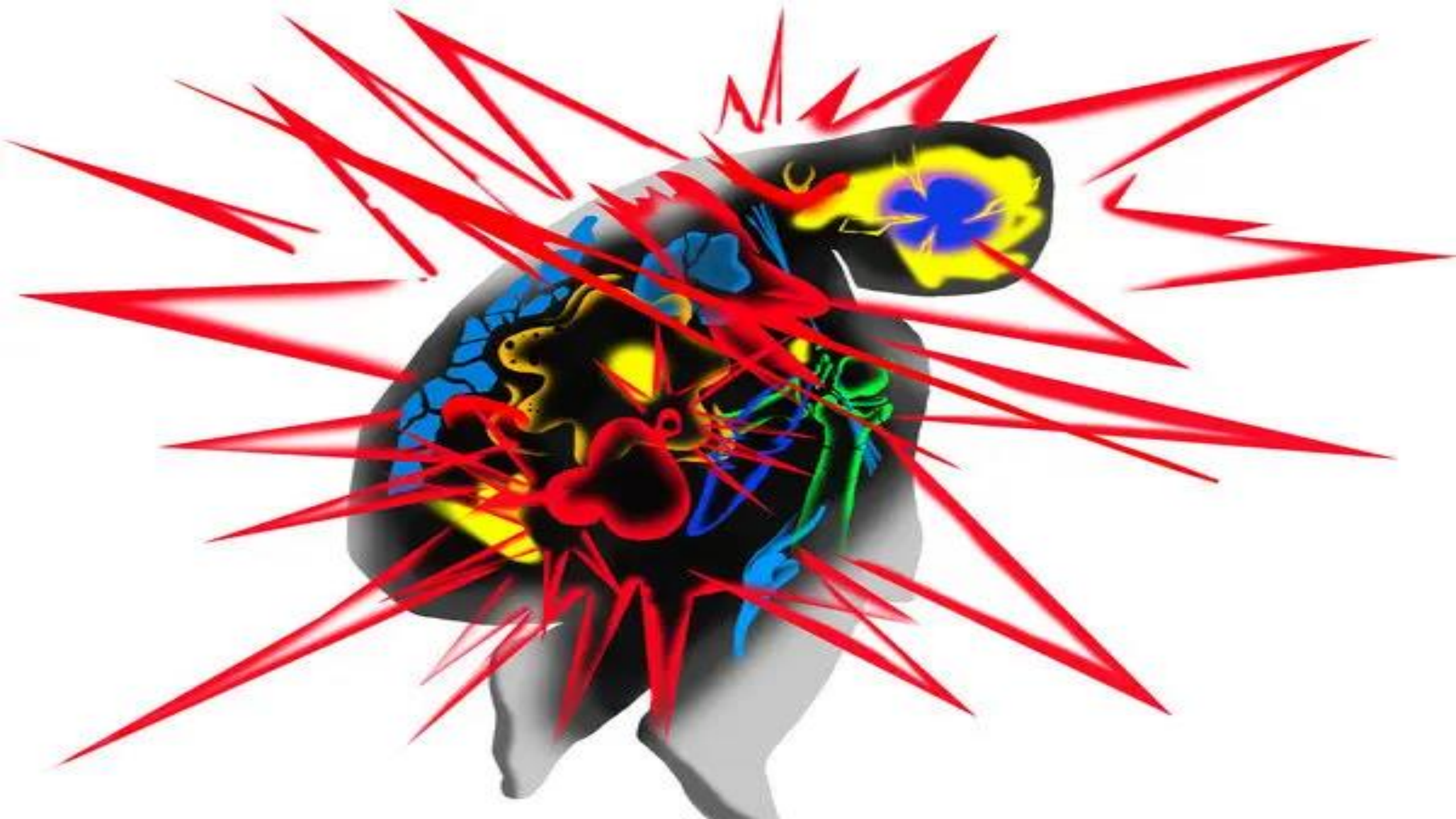
American College of
Emergency Physicians®



POLICE • EMS • SHERIFF • FIRE

FIRST RESPONDERS





The relentless marketing of pain pills.
Crews from one small Mexican town
selling heroin like pizza. The collision has
led to America's greatest drug scourge.

The True Tale of America's Opiate Epidemic

DREAM LAND



SAM QUINONES

**“In fact, pain was really not a vital sign, after all, for unlike the four real vital signs it cannot be measured objectively and with exactitude.”-
Sam Quinones**



CBSAP May 15, 2017, 12:07 PM

Officer nearly dies from fentanyl overdose after traffic stop

EAST LIVERPOOL, Ohio -- Police say an officer suffered an accidental overdose following a drug arrest in Ohio when he touched powder on his shirt without realizing it was the powerful opioid fentanyl.



NEW AT 6

**OFFICER'S ACCIDENTAL OD
TOUCHED FENTANYL**



ACCIDENTAL OVERDOSE

9 ON YOUR SIDE AT NOON

OFFICER ACCIDENTALLY OVERDOSES
EAST LIVERPOOL, OHIO

abc 9 ON YOUR SIDE
wcpo.com
12:15 71°

Some people think
you can catch
AIDS from a glass.



You can't.

The California Medical Association and public health officials agree: AIDS is not spread through the air. AIDS is not spread by touching someone. AIDS is not spread by hot tubs. AIDS is not spread through the preparation or serving of food or beverages in restaurants or homes.

The virus that causes AIDS is spread by unprotected sex with an infected person, or by contaminated blood entering the blood stream—such as by sharing drug needles.

Fight the fear with the facts:
800-367-AIDS/800-922-AIDS
(Toll-free in No. Calif.) (Toll-free in So. Calif.)



NOCEBO EFFECT

a harmless thing that causes harm
because you believe it's harmful



**“If men define
situations as real,
they are real in their
consequences.”**

exposed to heroin and fentanyl, *but how hasn't been determined.*



"It's scary, period," Gardiner said. "Every time we walk into a room, building, we don't know what we're going to encounter. It's a whole level of something new."



Then – moments after the man being treated by paramedics came to – the overdose hit.

"My face felt like it was burning. I felt extremely light-headed. I felt like I was getting dizzy," he said. "I stood there for two seconds and thought, 'Oh my God, I didn't just get exposed to something.' I just kept thinking about the carfentanil."

Carfentanil came to mind because just hours earlier, Phillips' boss, Harford County Sheriff Jeffrey Gahler, sent an email to deputies saying the synthetic opioid so powerful that it's used to tranquilize elephants had, for the first time ever, showed up in a toxicology report from a fatal overdose in the county. The sheriff had urged




Respiratory Depression

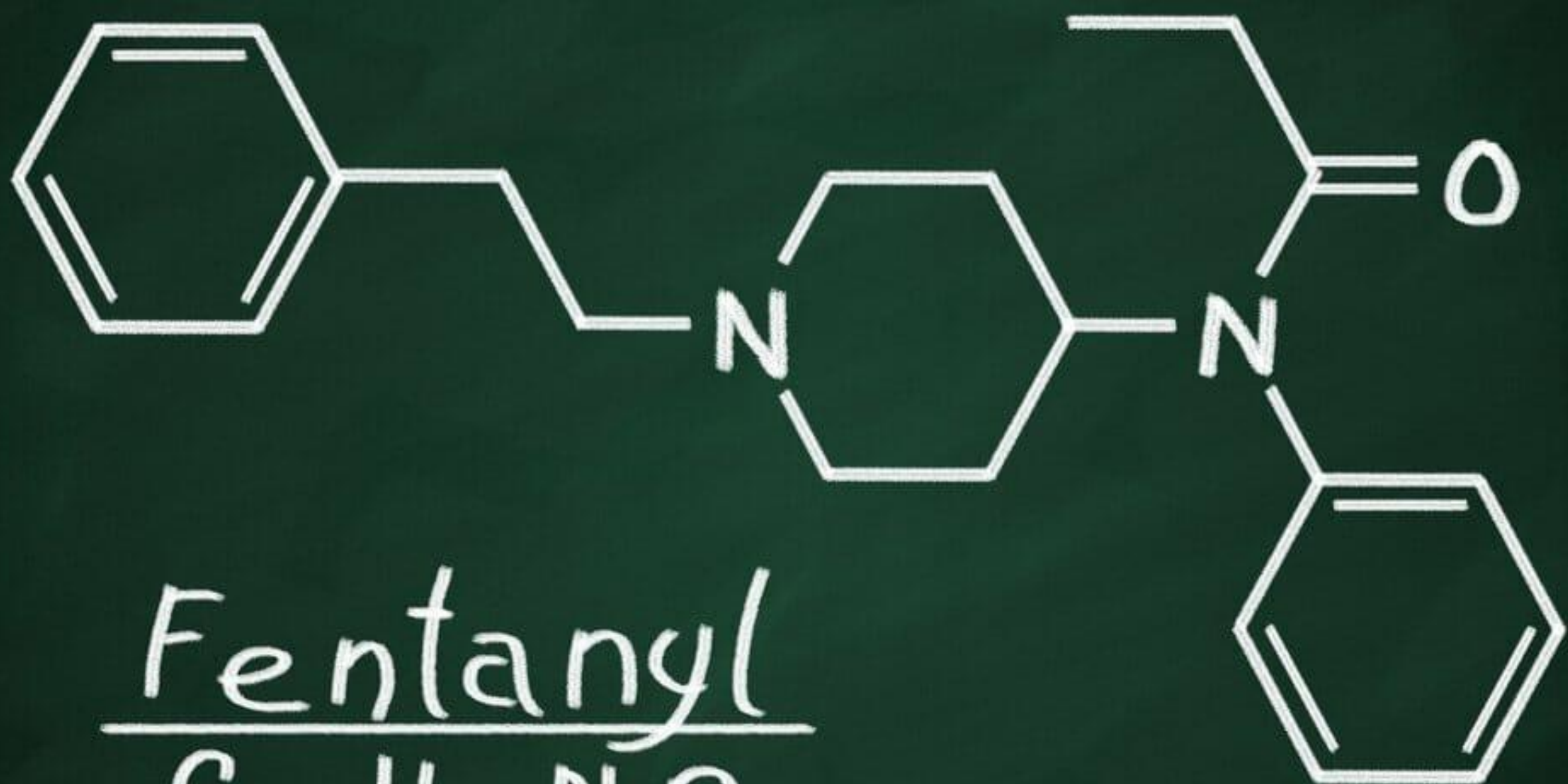
Miosis

Altered mental status

Apnea



**Myth 1: Fentanyl can
be absorbed
Through the skin by
touching it.**



Fentanyl

$C_{22}H_{28}N_2O$



0378-9123-16



MYLAN®

NDC 0378-9123-16



61233216

FENTANYL TRANSDERMAL SYSTEM

Rx only

75 mcg/hr

In vivo delivery of 75 mcg/hr fentanyl for 72 hours

NOT FOR ACUTE OR POSTOPERATIVE USE

Each transdermal system contains:
7.65 mg fentanyl
One (75 mcg/hr) System



**ATTENTION:
ONLY FOR USE
BY PATIENT
FOR WHOM
PRESCRIBED.**

**ATTENTION:
Only for use by
patient for whom
prescribed.**

ADREN

0311

MYLAN®
VITAMIN
INSIDE

AND JOURNAL *of* MEDICINE

JANUARY 28, 2010

AND JOURNAL *of* MEDICINE

JANUARY 21, 2010

GLAND JOURNAL *of* MEDICINE

JANUARY 14, 2010

GLAND JOURNAL *of* MEDICINE

JANUARY 7, 2010

AND JOURNAL *of* MEDICINE

NOVEMBER 26, 2009

GLAND JOURNAL *of* MEDICINE

NOVEMBER 12, 2009

GLAND JOURNAL *of* MEDICINE

NOVEMBER 5, 2009

LAND JOUR

Carfentanil- An Ultra Potent Opioid

ternal Medic

The American Journal of Emergency Medicine May 2010

ternal Medicine

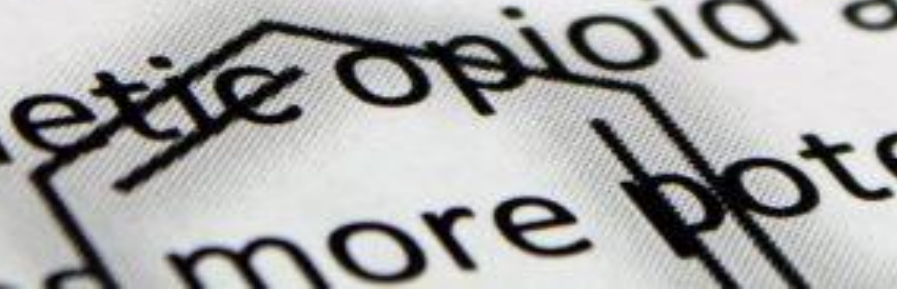
1 September 2009

Volume 151

Number 5



Carfentanil or carfentanyl is an
synthetic opioid analgesic fentanil
more potent than morphine
commercial





**Myth 2:
Fentanyl
powder can
get into
the air and be
inhaled**



The National Institute for Occupational Safety and Health (NIOSH)

[Emergency Response Safety and Health Database](#) > [Category Index](#) > [Incapacitating Agents](#)



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Promoting productive workplaces
through safety and health research



FENTANYL : Incapacitating Agent

The information and recommendations below were developed to address a wide area release of fentanyl as a weapon of terrorism, and are not specifically intended to address exposures associated with fentanyl use as an illicit drug. NIOSH is currently in the process of reviewing more recent research and publications regarding appropriate emergency response guidelines for fentanyl. Consequently, some of the guidelines presented on this page may be different than recommendations for emergency response personnel responding to fentanyl used as an illicit drug. Please see this website for information for emergency response personnel responding to fentanyl as an illicit drug: <https://www.cdc.gov/niosh/topics/fentanyl/risk.html>.





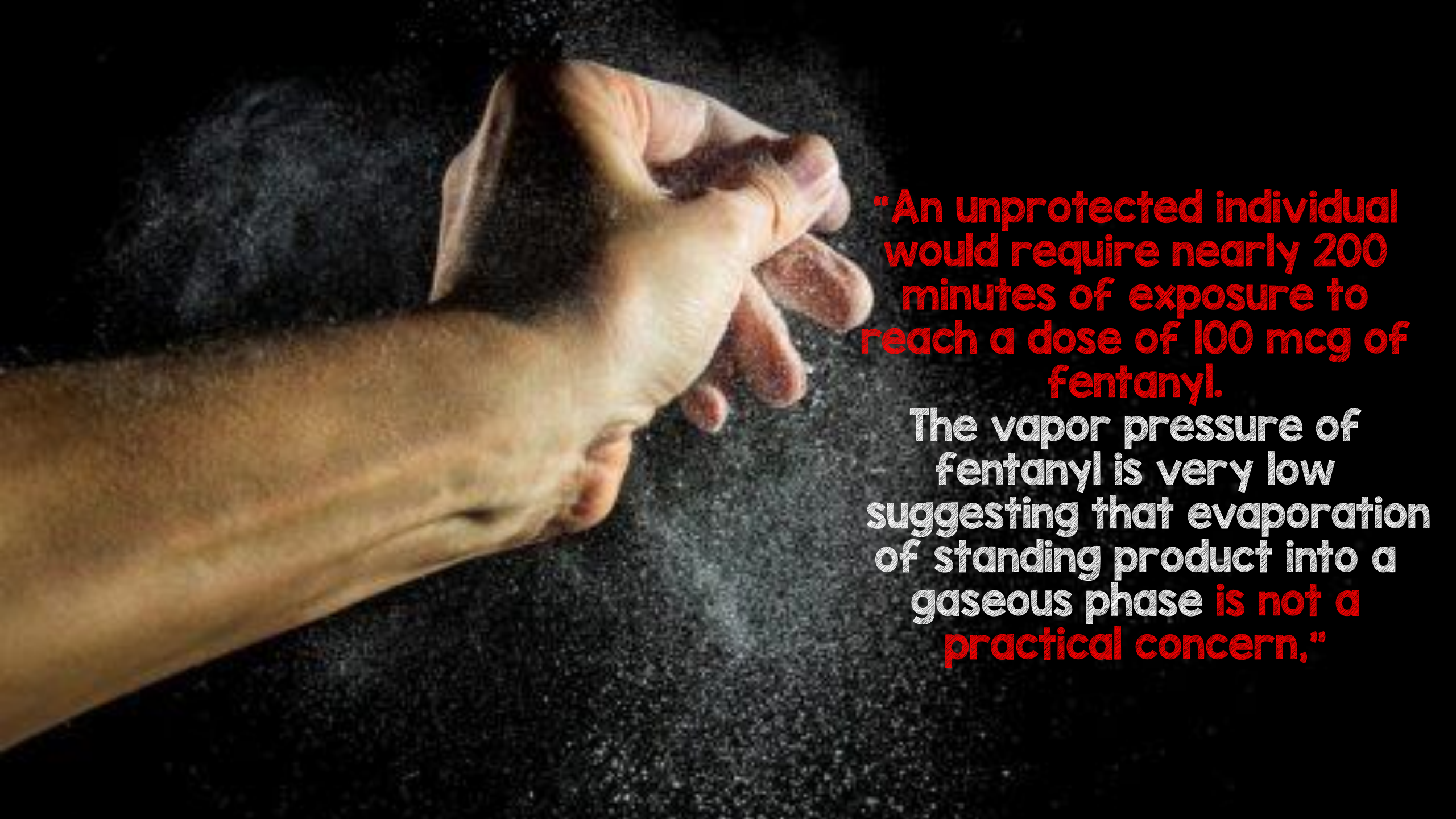
consequently, responders rely heavily on PPE. **The National Institute for Occupational Safety and Health (NIOSH), in its recommendations for preventing occupational exposure to fentanyl and other opioids, outlines safe operating procedures, risk assessment, training, decontamination and PPE guidelines for potentially exposed emergency responders**



ACMT

American College
of Medical Toxicology

“The US National Institute for Occupational Safety and Health (NIOSH, Centers for Disease Control) published a bulletin addressing potential danger to law enforcement, public health workers, and first responders who may be exposed to fentanyl or its analogs. **Citing an absence of empirical evidence, the NIOSH bulletin recommended use of a P100-rated respirator, nitrile gloves, and eye protection. For personnel performing tasks that may aerosolize fentanyl, the NIOSH bulletin recommended dermal protection such as coveralls or protective sleeves.”**



“An unprotected individual would require nearly 200 minutes of exposure to reach a dose of 100 mcg of fentanyl.

The vapor pressure of fentanyl is very low suggesting that evaporation of standing product into a gaseous phase is not a practical concern.”



**Myth 3: Synthetic opioids
are even more
Dangerous for EMS personal
and first responders.**

THIS MUCH CARFENTANIL WILL KILL YOU.



Someone has been mixing deadly carfentanil into heroin.
People are dying at alarming rates, nationwide.



CHINA WHITE
ADDICTION



1976

NDC 50580-338-18

Imodium[®]

Loperamide HCl, 2 mg / Simethicone, 125 mg Antidiarrheal/Anti-Gas

Multi-Symptom Relief

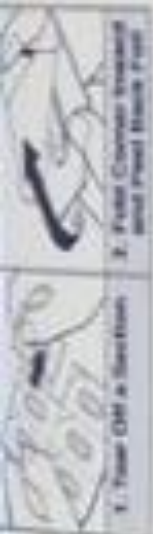
Diarrhea **PLUS**

- Cramps & Pressure
- Bloating
- Gas



18 Caplets

3 0045-0212-184



A group of people, including men and women in formal attire, are standing on a red carpet. A man in a blue shirt is holding a clipboard and talking to a man in a black shirt. Other people are in the background, some talking and some looking towards the camera. The scene is dimly lit, typical of a red carpet event.

P-glycoprotein

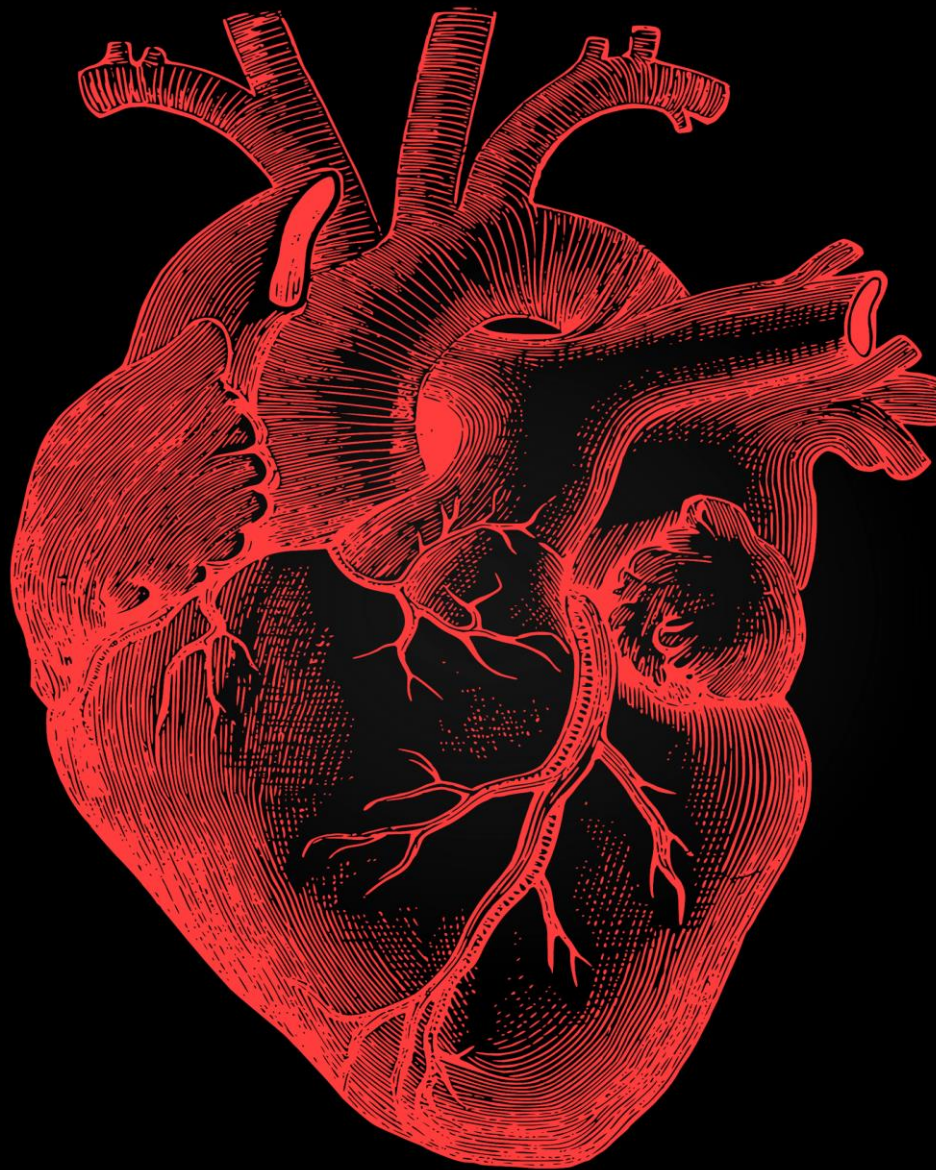
Loperamide



Cimetidine

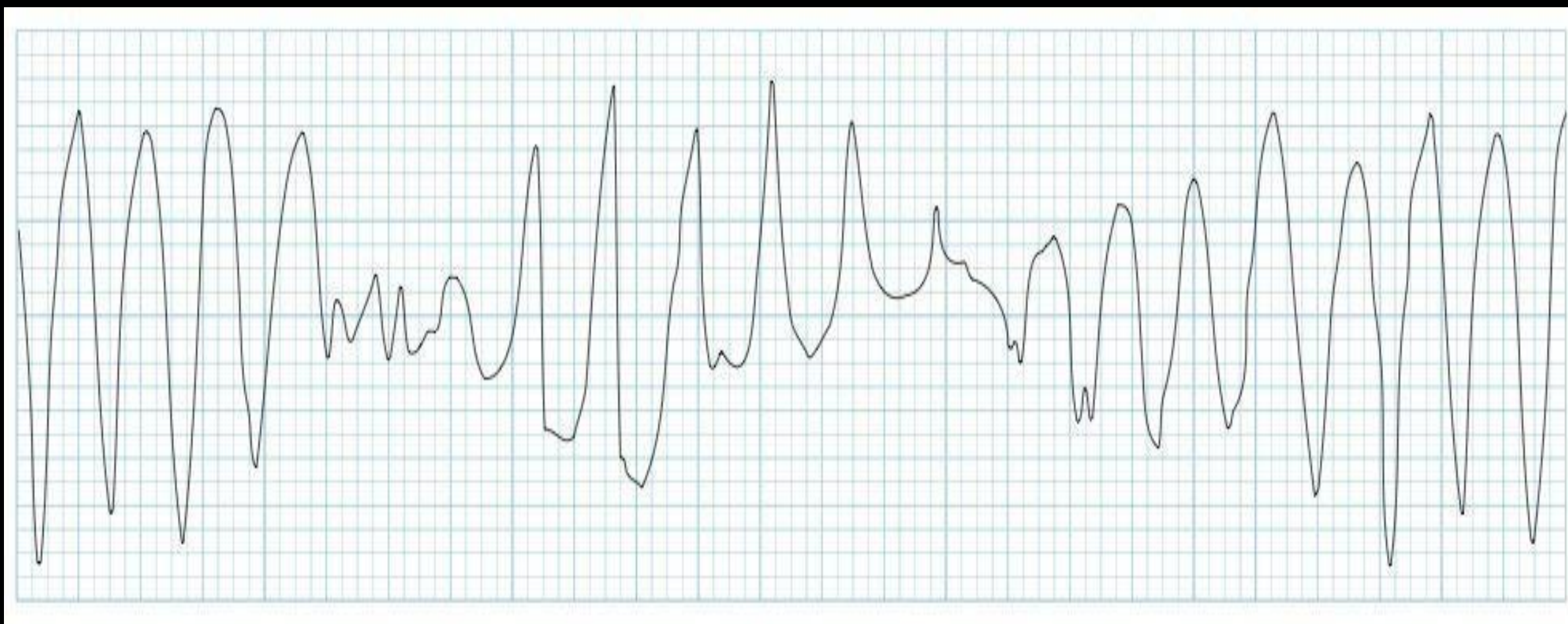
P-Glycoprotein

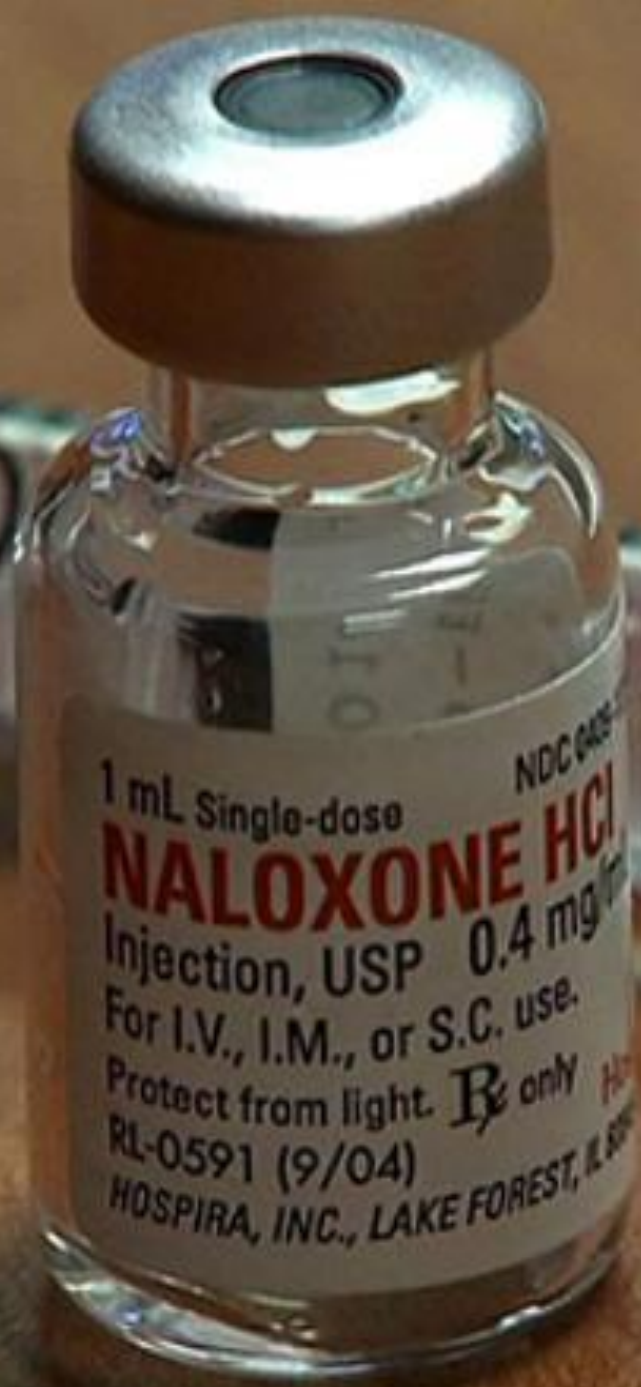
Ca^{2+}



K^{+}

Na^{+}





1 mL Single-dose

NALOXONE HCl

Injection, USP 0.4 mg/mL

For I.V., I.M., or S.C. use.

Protect from light. Rx only

RL-0591 (9/04)

HOSPIRA, INC., LAKE FOREST, IL 60045

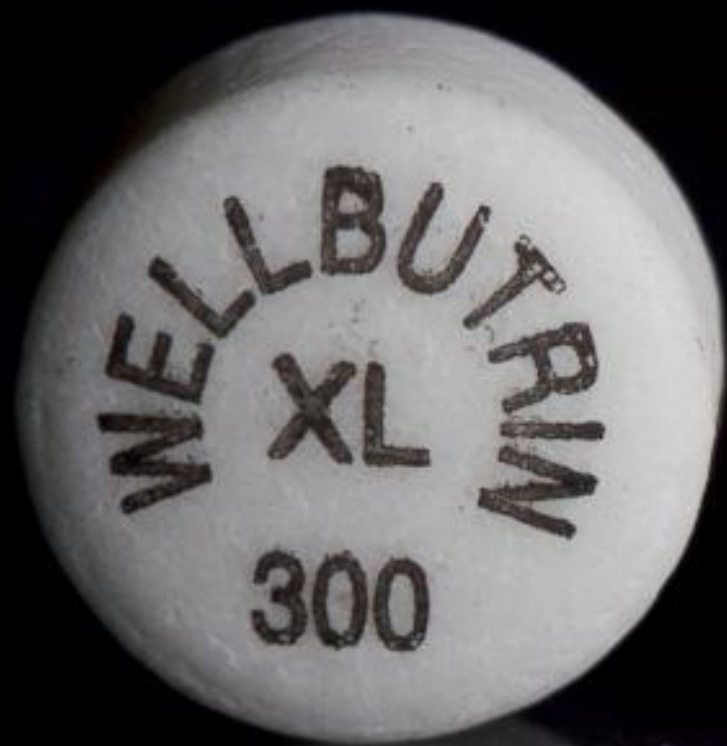
NDC 0485-0101-01

ACLS

Bicarb

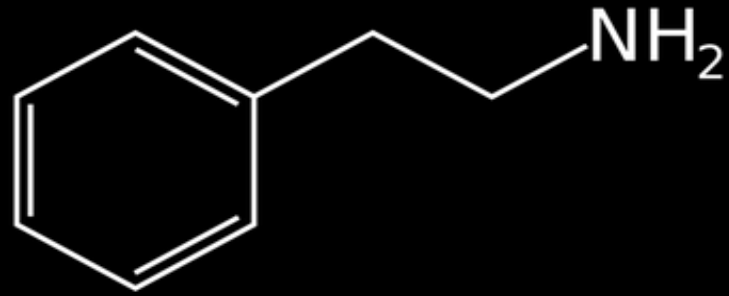
Magnesium

Overdrive Pacing

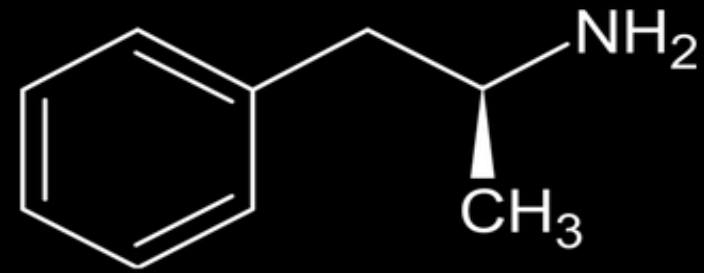




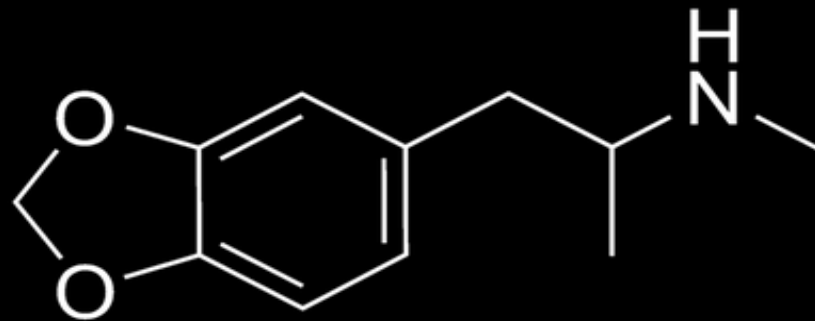
phenethylamine



amphetamine



MDMA



bupropion





Jailhouse coke

Barnies

Wellies

dubs





NEVER LOSE HOPE.



Drug addiction is
everyone's battle

Thank You!

medicrbrown@gmail.com

www.bemedinspired.com

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