

Law Enforcement Interview

Narcotics & Opioids

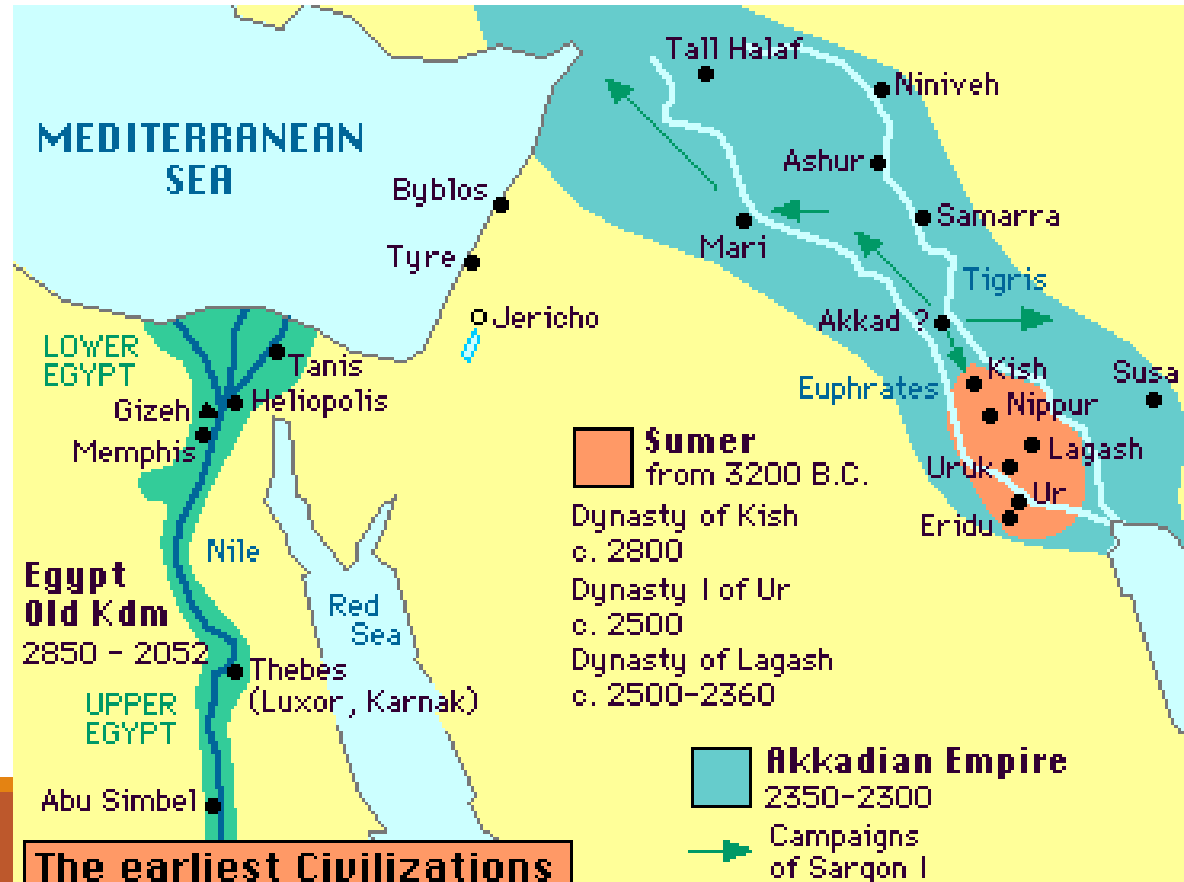
CHAPTER 9



Historical Context

Ancient Samaria

Opium = “The Joy Plant”



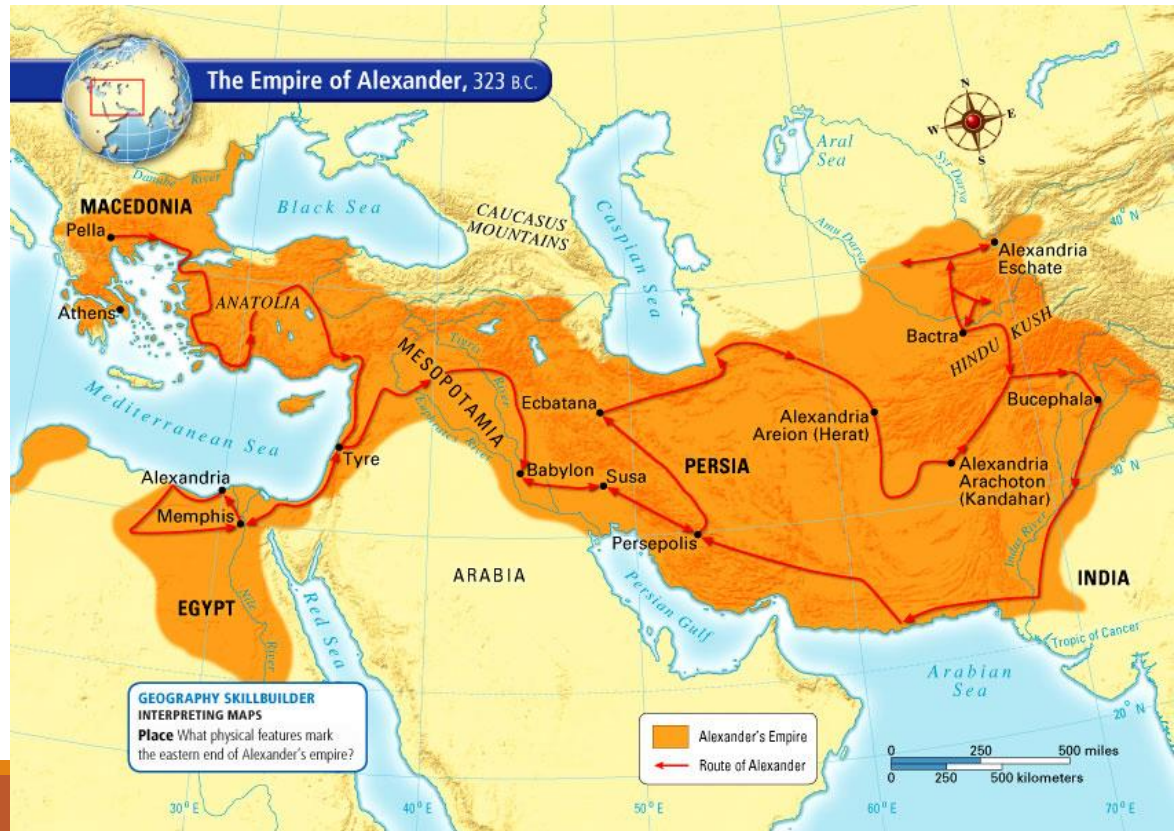
Alexander the Great

Spread of Opium to India

Marching Soldiers



Alexander der Große.



Nomenclature

1793

Opium = Papaver **somniferum**

Somnus = Roman god of sleep



Nomenclature

1793

Opium = *Papaver somniferum*

Somnus = Roman god of sleep



1803

Morphine

Morpheus = Greek god of dreams



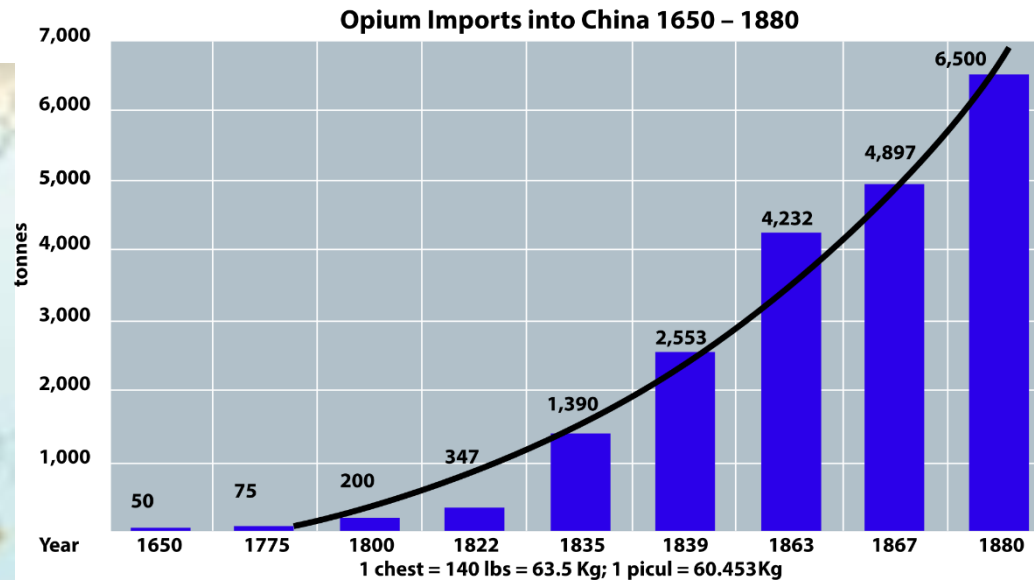
Opium Wars

Britain controlled India

- India → Opium production

Britain imported tea from China

Britain exported opium



Opium Wars

Britain controlled India

- India → Opium production

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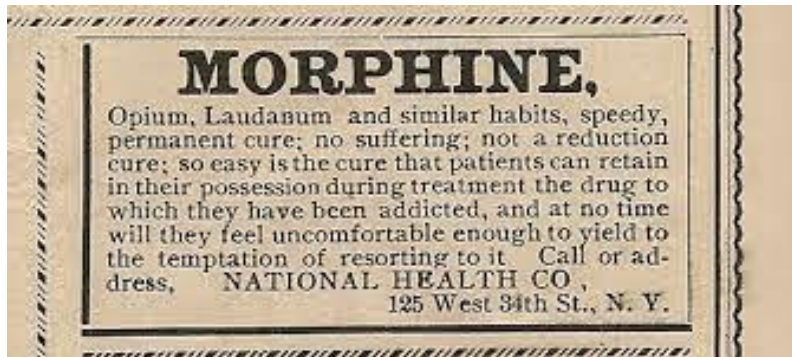
Britain exported opium

- China outlawed opium
- Britain went to war



Opioids in the US

1803 – Morphine = more potent & addictive

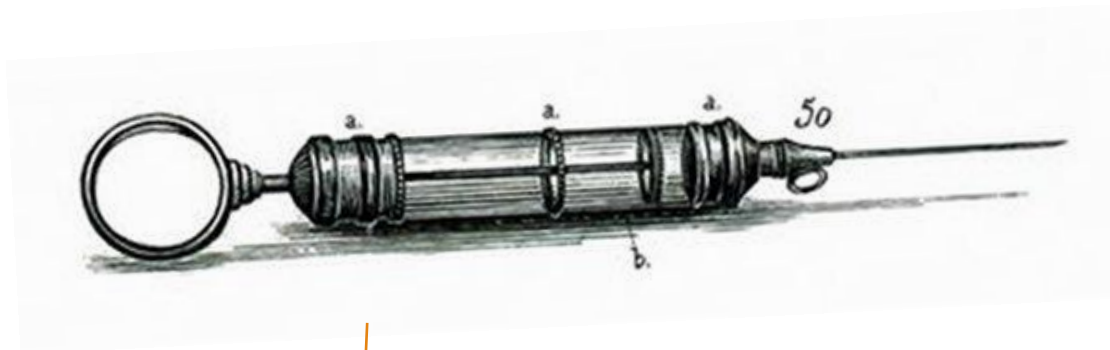


1803

Opioids in the US

1803 – Morphine = more potent & addictive

1853 – Hypodermic Needle



MORPHINE.
Opium, Laudanum and similar habits, speedily permanent cure; no suffering; not a reduction cure; so easy is the cure that patients can retain in their possession during treatment the thing to which they have been addicted, and at no time will they feel uncomfortable enough to yield to the temptation of returning to it. Call or address, NATIONAL HEALTH CO., 125 West 31st St., N. Y.



1803



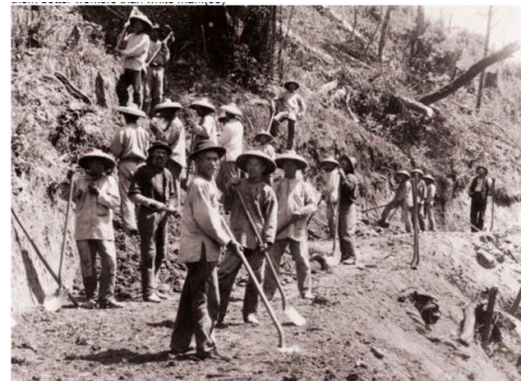
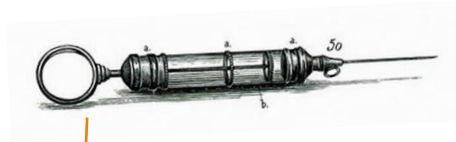
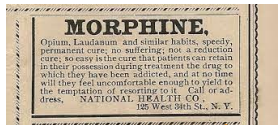
1853

Opioids in the US

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1840s – 1860s – Transcontinental Railway + Gold Rush (Chinese Workers)



1803

1853

Opium Dens



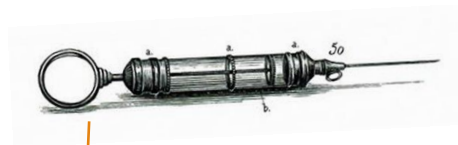
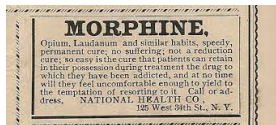
Opioids in the US

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1860s – Civil War – Morphine wounded soldiers



1803

1853

1861 - 1865

Opioids in the US

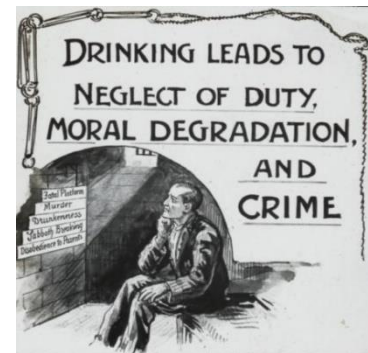
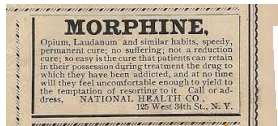
1803 – Morphine = more potent & addictive

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1875 – Temperance Movement



1803



1853



1861 - 1865



1875



"WET" OR "DRY"

"VOTE WET
FOR MY
SAKE!"



"VOTE DRY
FOR
MINE!"



Shall the Mothers and Children
be Sacrificed to the Financial
Greed of the Liquor Traffic?

IT IS UP TO YOU, VOTER, TO DECIDE

VOTE DRY



"WET" OR "DRY"

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IT IS UP TO YOU, VOTER, TO DECIDE

VOTE DRY

An anti-marijuana poster. On the left, a green devil with horns and a mischievous grin is shown. On the right, a woman in a white dress looks shocked. A large speech bubble from the woman contains the text "A VICIOUS RACKET WITH IT'S ARMS AROUND YOUR CHILDREN!". Various words are scattered around: "SIN", "DEGRADATION", "VICE", "INSANITY", and "DEBAUCHERY". At the bottom, a large green cigarette is labeled "MARIJUANA".

SIN

DEGRADATION

VICE

INSANITY

DEBAUCHERY

A VICIOUS RACKET WITH IT'S ARMS AROUND YOUR CHILDREN!

THE TRUTH ABOUT ...

MARIJUANA

THE SMOKE OF HELL!

"DEVIL'S HARVEST"

"WET" OR "DRY"

Although it does not create a physical addiction, marijuana can bring about psychological dependence. In large doses, it offers the same dangers associated with the other hallucinogens. Marijuana serves no useful purpose and has no known medical value.

"POT" OPENS THE DOOR!



The use of one drug all too often leads to experimentation with another and it is rare indeed to find a user of hard narcotics who did not start out on marijuana. Dope pushers have been known to supply hard narcotics free to their victims until they were hooked, but the large majority of narcotics users are first "turned on" by so-called "friends" who are part of "the wrong crowd." It is the mistaken belief that addiction won't happen to them that so many young people move on from marijuana to heroin or other hard narcotics.

Shall
be Sa
Greed

IT IS UP

VO

DRY



A VICIOUS RACKET WITH ITS ARMS AROUND YOUR CHILDREN!

MARIJUANA

THE SMOKE OF HELL!

EVIL'S HARVEST

"WET" OR "DRY"

Although it does not create a physical addiction, marijuana can bring about psychological dependence. In large doses, it offers the same dangers associated with the other hallucinogens. Marijuana serves no useful purpose and has no known medical value.

"POT" OPENS THE DOOR

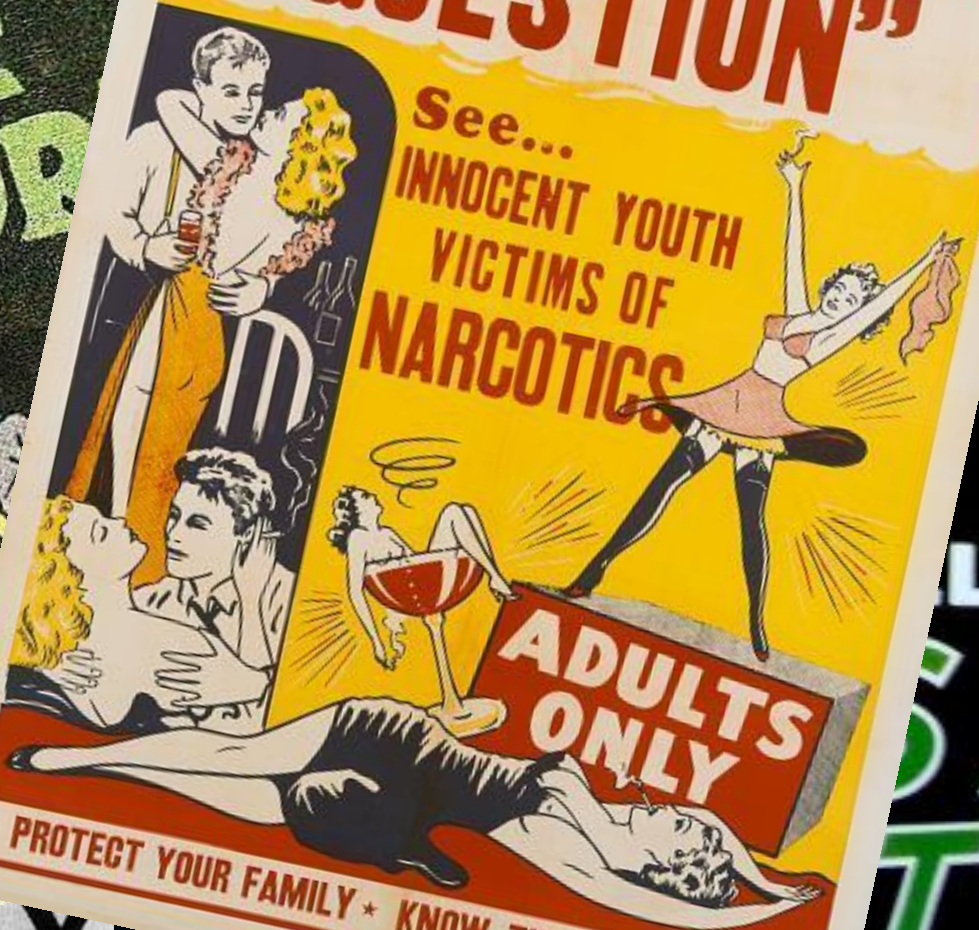


The use of one drug all too often leads to exposure on marijuana. Dope pushers have been known to find a user of hard narcotics free to their victims until they are part of "the wrong crowd." The majority of narcotics users are first "turned" who are part of "the wrong crowd." Addiction won't happen to them that from marijuana to heroin or other hard

Shall
be Sa
Greed
IT IS UP
VO

DRY

"THE BURNING QUESTION"



See...
INNOCENT YOUTH
VICTIMS OF
NARCOTICS

ADULTS ONLY

PROTECT YOUR FAMILY * KNOW THE WHOLE TRUTH

L!
T

Opioids in the US

1803 – Morphine = more potent & addictive

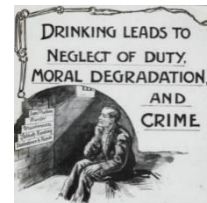
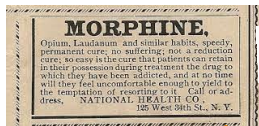
1853 – Hypodermic Needle

1840s – 1860s – Transcontinental Railway + Gold Rush (Chinese Workers)

1860s – Civil War – Morphine wounded soldiers

1875 – Temperance Movement

1900s – Pneumonia, TB, Diarrhea leading causes of death



1803



1853



1861 - 1865



1875



1900s

To what degree does this history still influence us today?

Temperance movement?

Socioeconomic status and drug use?

“Other”

Black Market Begins

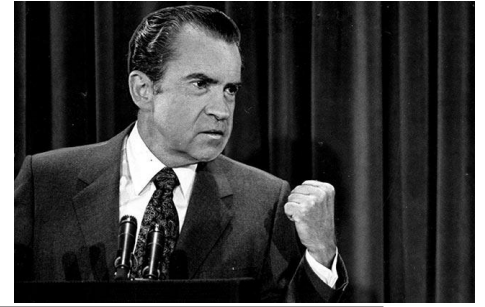
Pure Food & Drug Act (1904)

Opium banned (1905)

“Junkie”



1971 “War on Drugs”



Vietnam

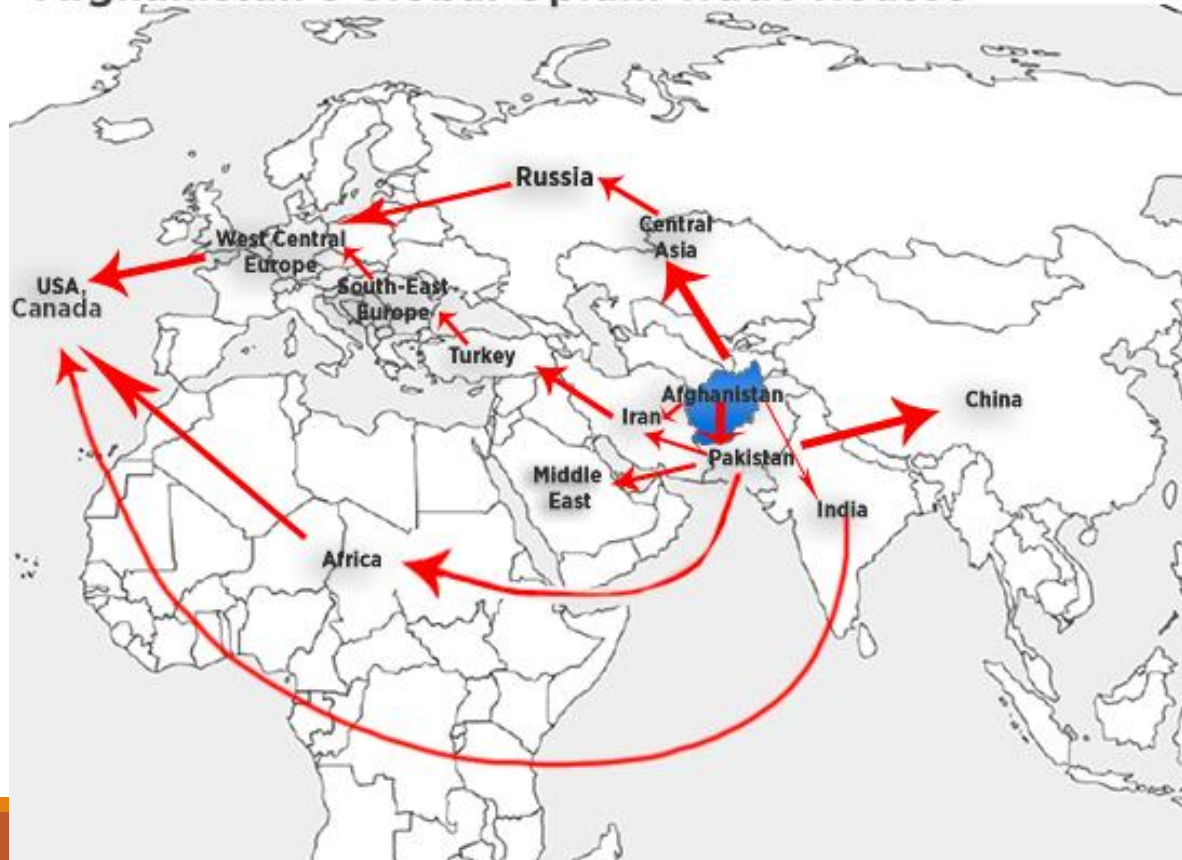
Operation Golden Flow



Afghanistan

Largest supplier of heroin in the world

Afghanistan's Global Opium Trade Routes

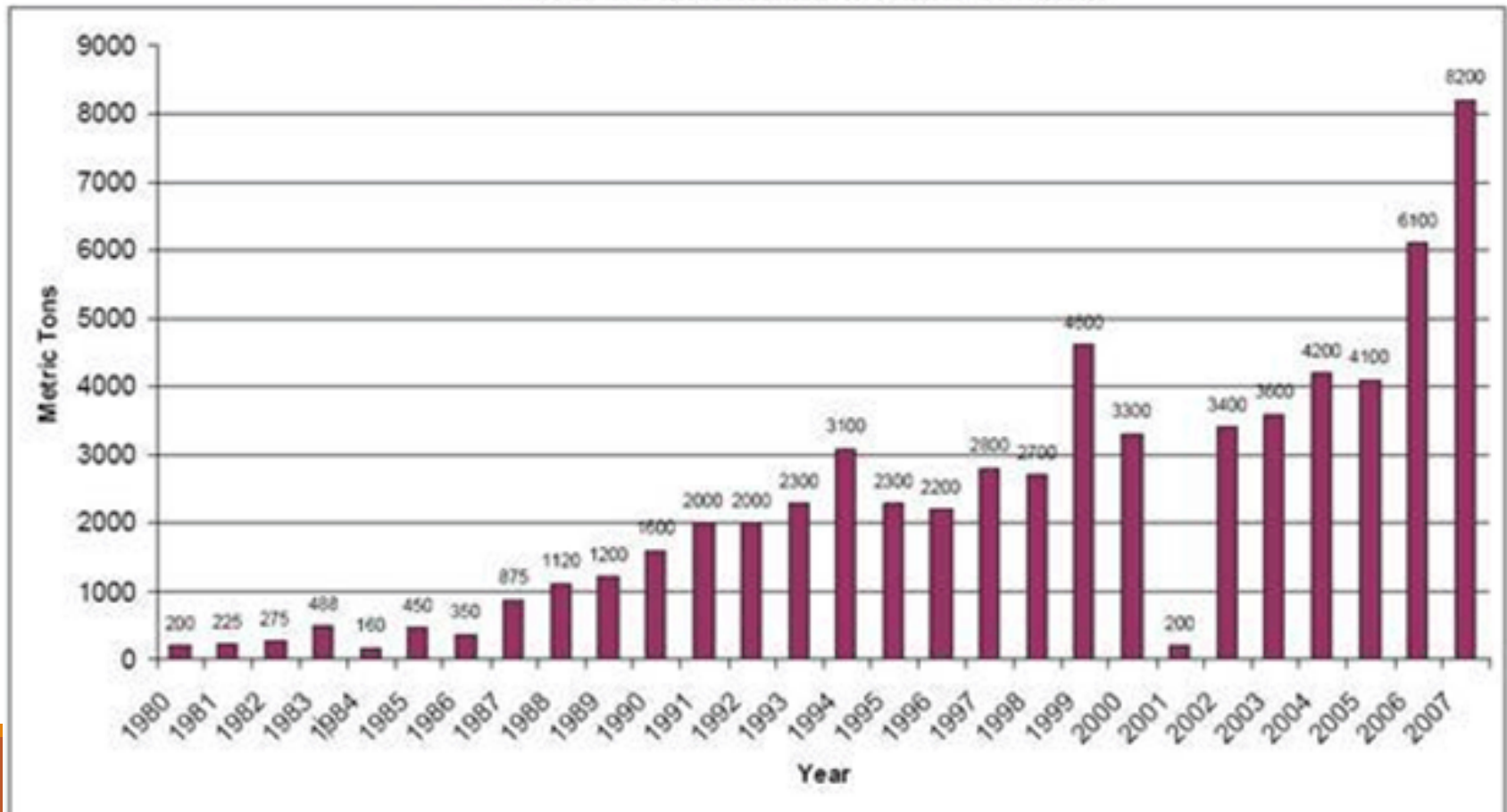


Source: United Nations Office on Drugs and Crime

Afghanistan

Largest supplier of heroin in the world

Opium Production in Afghanistan, 1980-2007



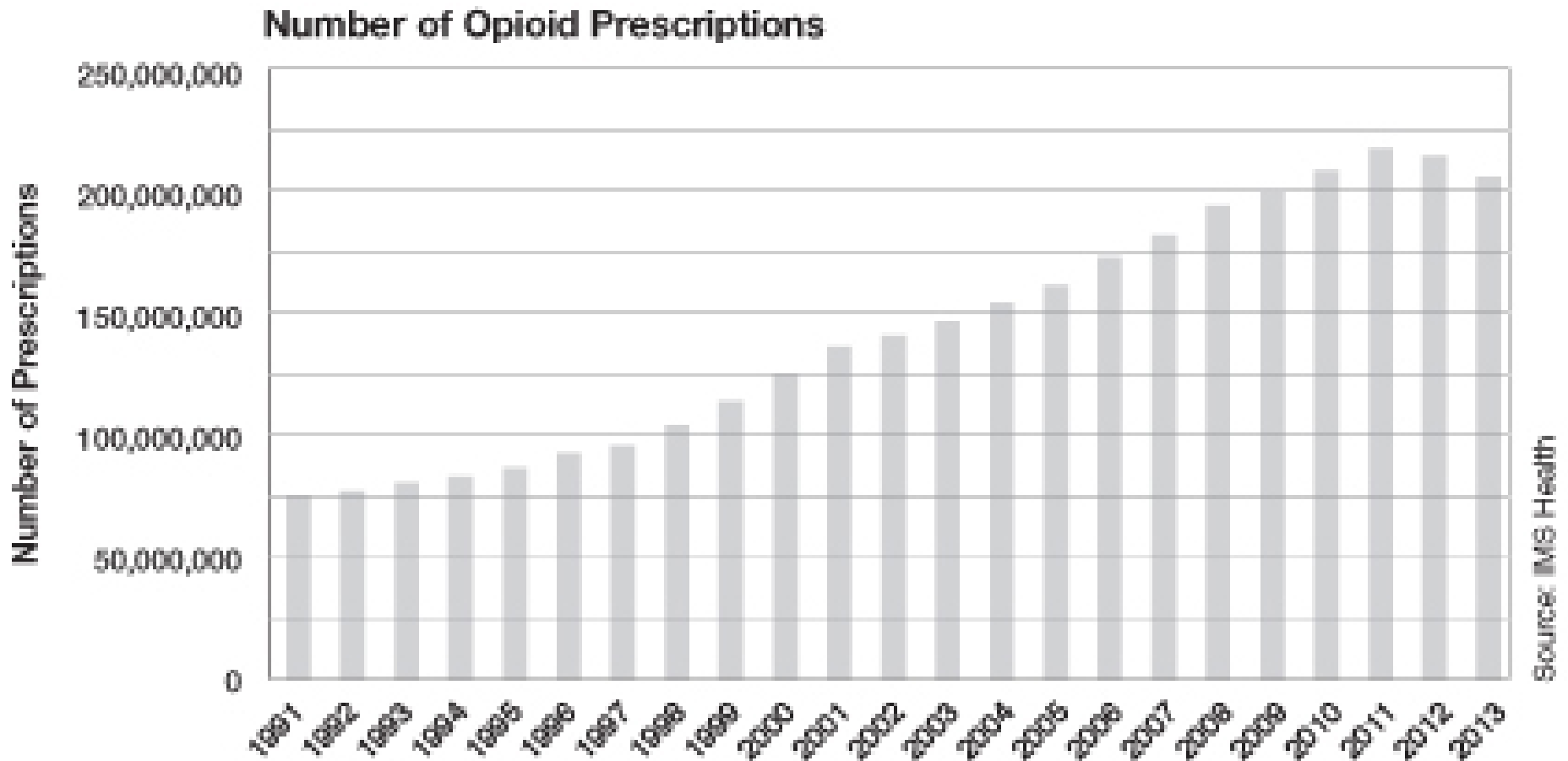
US Opioid Use

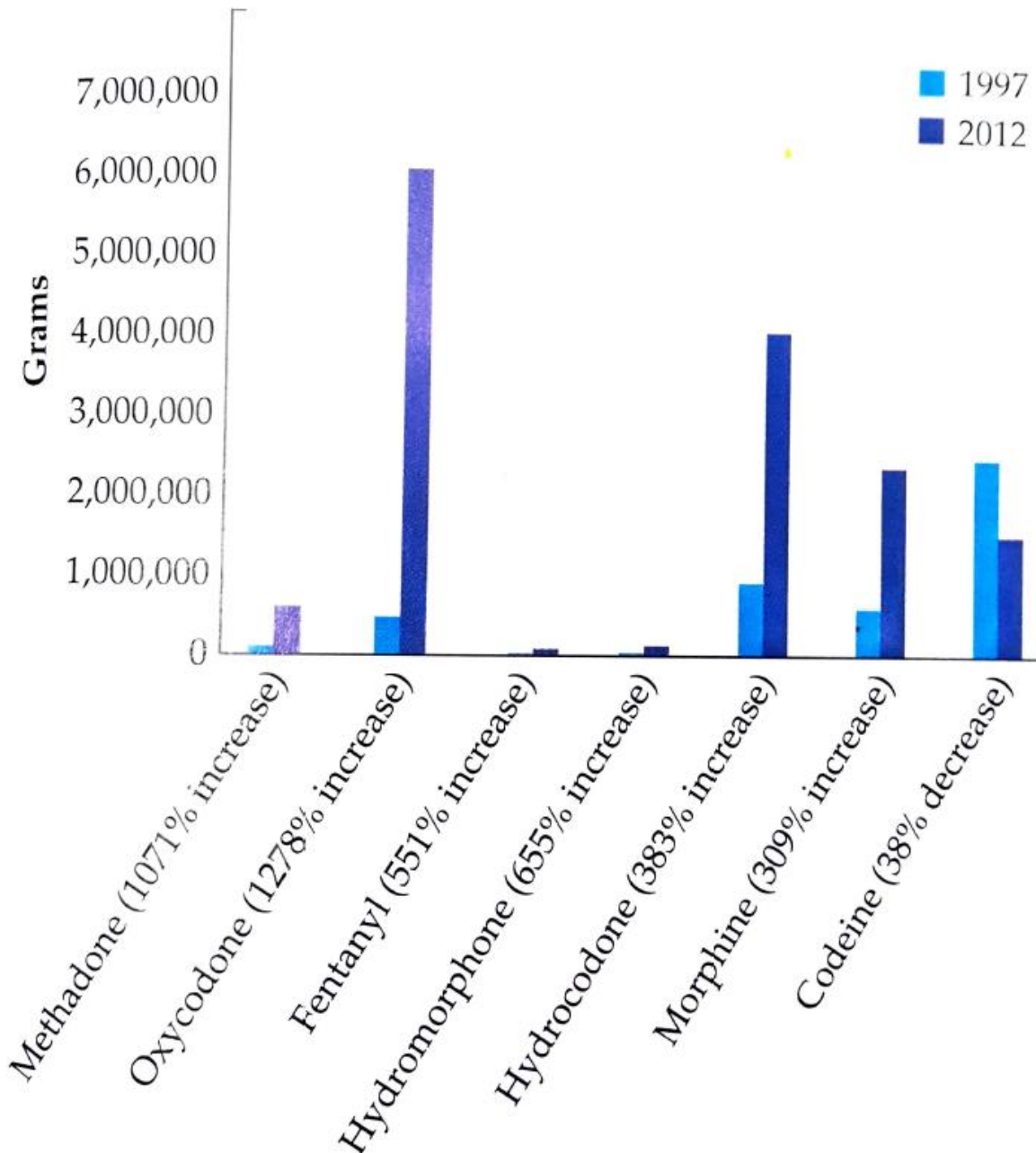
USA consumes 80% of the world's opioids

(USA = <5% of world's population)



Opioid Scripts Written





Opioid sales in United States

Supply & Demand

Where does the opium raw material come from for 100 million prescriptions?



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PEACEBRIEF 179

September 2014

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Licensing Afghan Opium for Medicinal Use Why It Won't Work

Summary

- With large increases in Afghan opium cultivation and production in 2013 and 2014, there is a risk that resulting frustration may give rise to a search for extreme but unproductive solutions.
- There are no easy solutions to the illegal narcotics problem. The proposal that Afghanistan could shift to licensed production of opium for pain medications will not work.
- Due to severe problems with governance, rule of law and security, opium licensing in Afghanistan would be subject to extremely high leakages. Afghanistan's comparative advantage in supplying the illicit market means that it would likely expand cultivation to meet demand in both markets.
- Afghanistan is a high-cost producer of opium, and prices for licensed opium are much lower than on the illegal market, so profits might well be marginal or even negative.
- Existing producers of licensed opiates—Australia, Turkey, India, France and others—would strongly oppose any move to let Afghanistan become a competitor on the licensed market.
- Even if a more liberalized market for opiates is envisioned, technological advances and modern techniques in other countries mean that Afghanistan could not be a competitive producer.

The Problem and the Proposal

Afghan opium cultivation and production has increased sharply since 2012, with further increases expected in coming years. By far Afghanistan's largest illicit economic activity, opium production and its processing into heroin brings many problems for the country, including adverse effects on governance and the rule of law, as well as a growing drug use problem among Afghans. These problems more than offset the short-term financial benefits for rural households cultivating opium poppy and the stimulus opium provides to demand in a weak economy.

There is a risk that frustrated reactions in the international community to repeated increases in opium cultivation will give rise to a search for extreme solutions. But there are no silver bullets—simplistic, one-dimensional remedies—for Afghanistan's opium problem. Radical measures, such as massive eradication of opium poppy fields, either ground-based or through aerial chemical spraying,

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Supply & Demand

Supply & Demand

What economic decisions are being made in the growth of opium poppy?

What political decisions are being made in the growth of opium poppy?

What sociological/cultural decisions are being made in the growth of opium poppy?

Supply & Demand

[Eli Lilly & Co. stock](#)

[Pfizer Inc. Stock](#)

[GlaxoSmithKline stock](#)

[Merck & Co. stock](#)

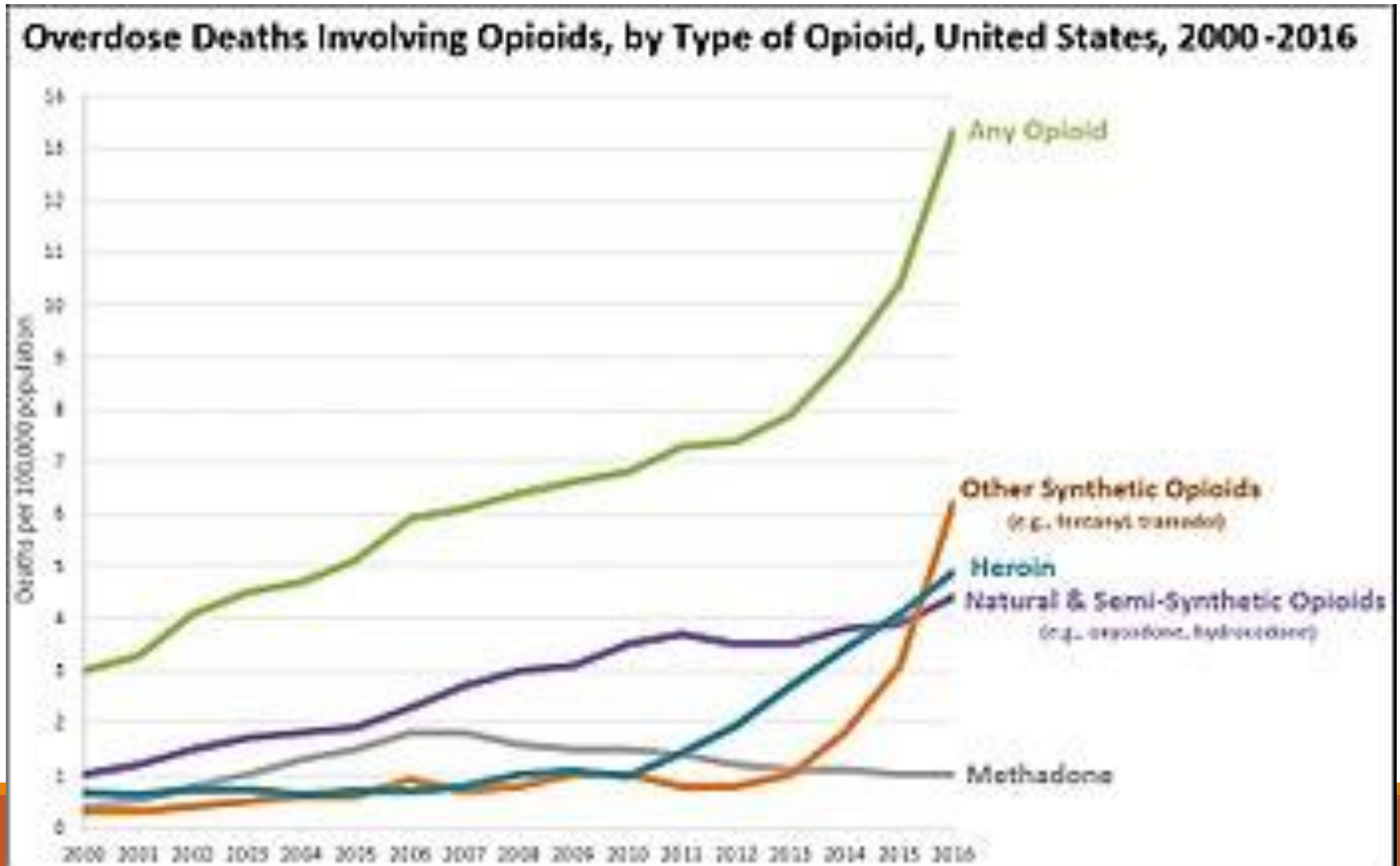


US Opioid Use

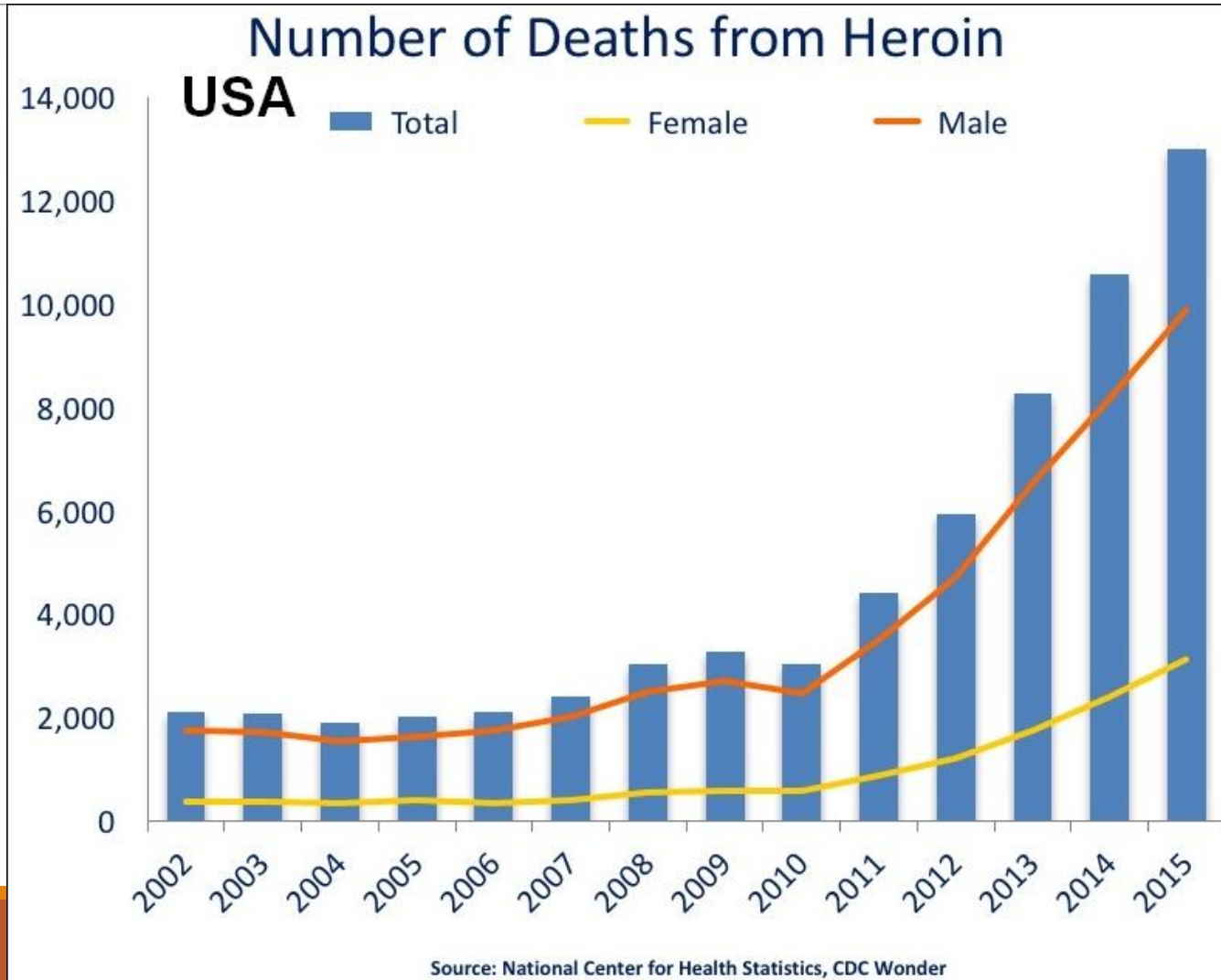


**How
opioid addiction
is hurting
businesses**

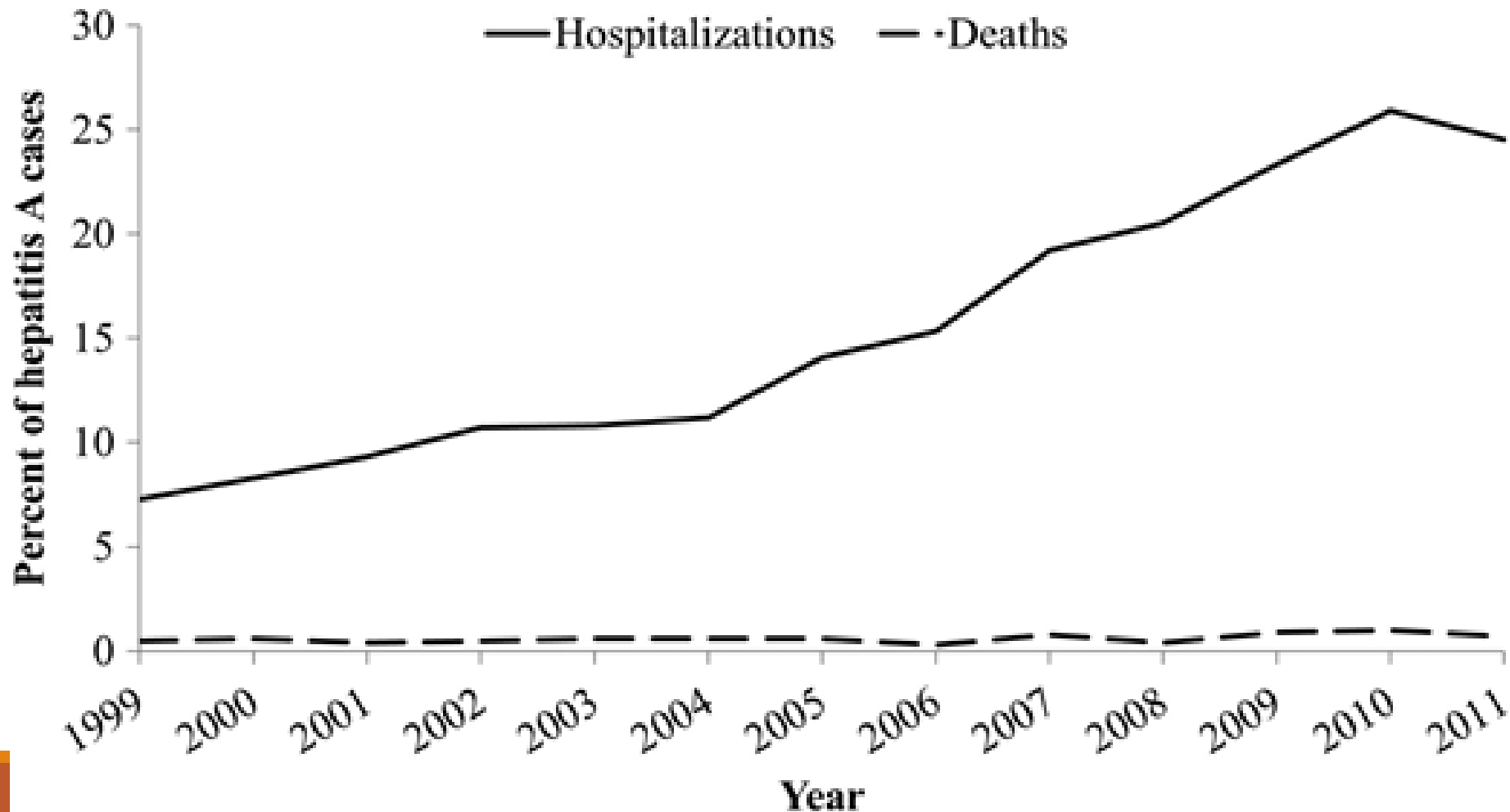
Opioid Related Overdose Deaths



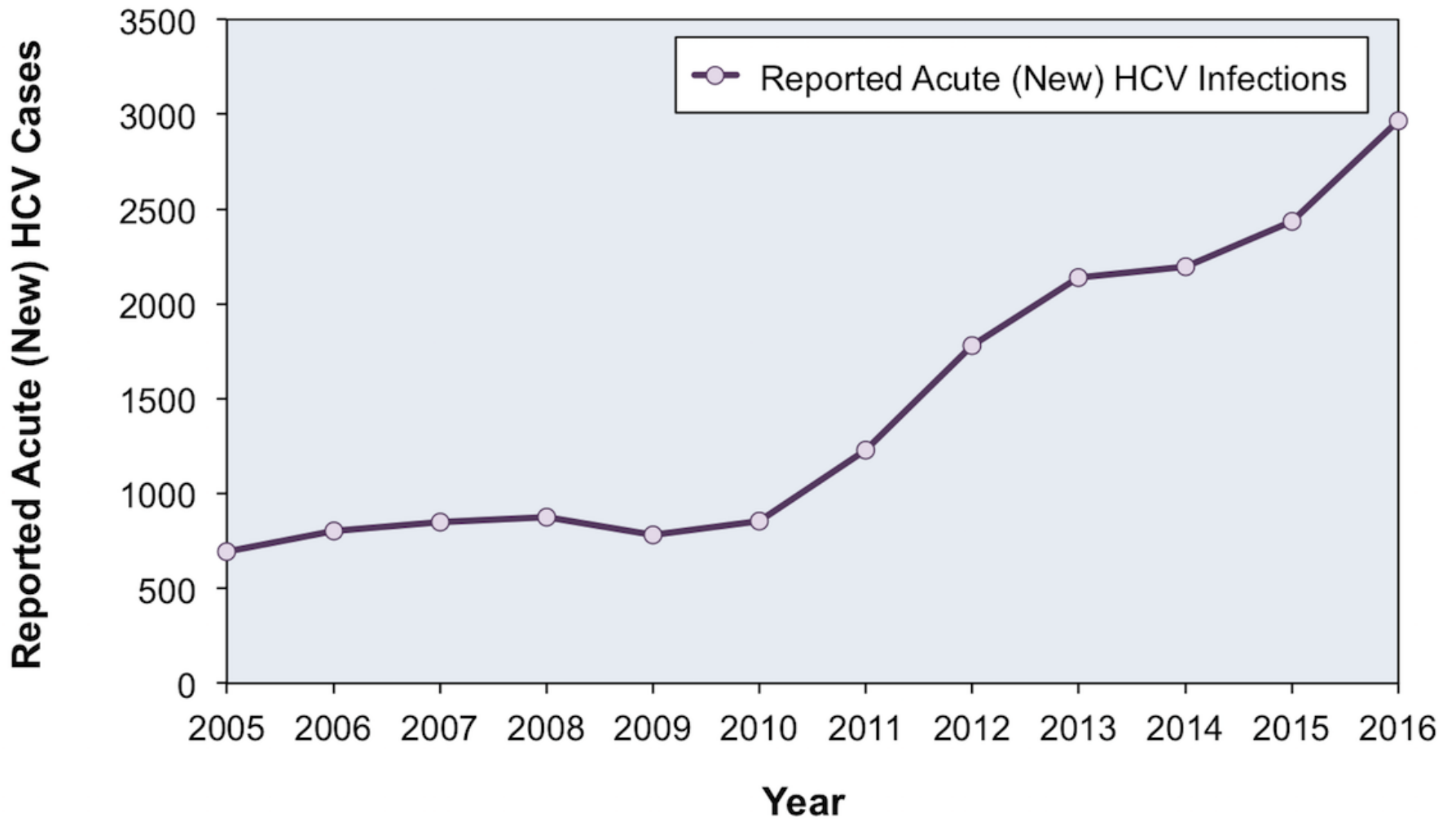
The National Epidemic



Drug Use & Disease Transmission - HAV

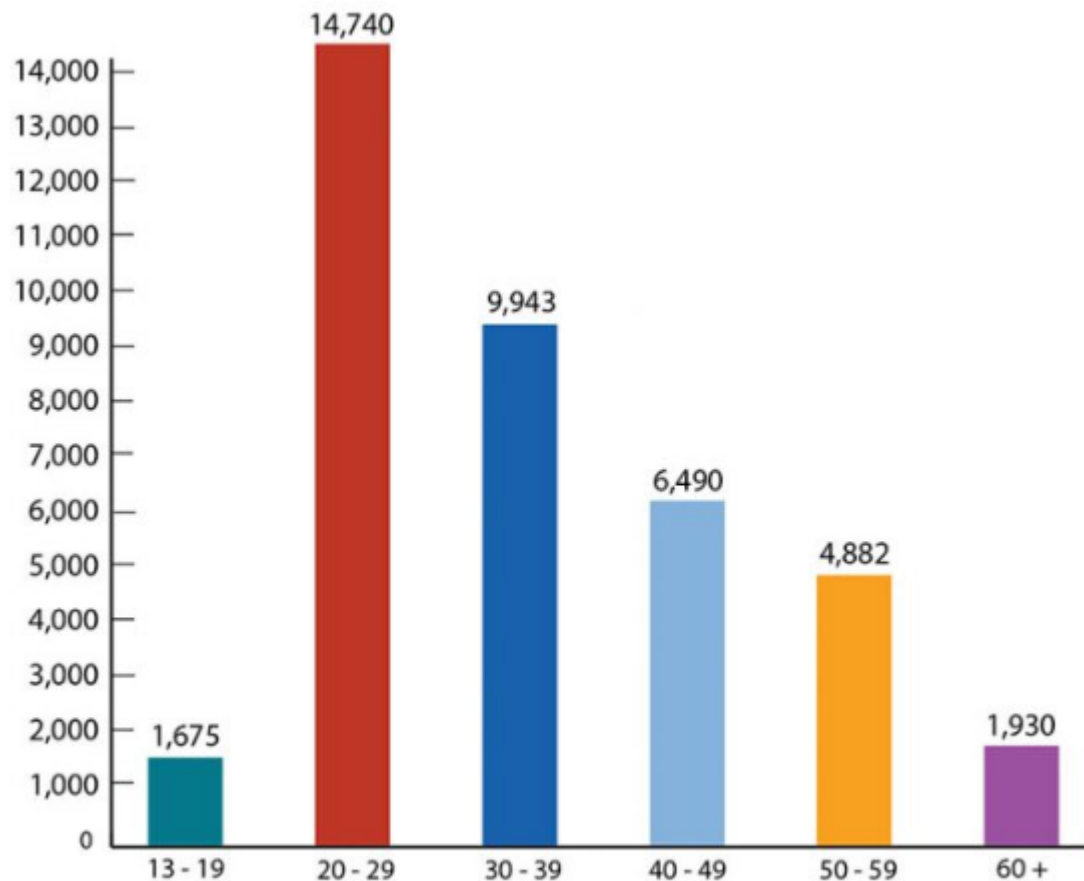


Drug Use & Disease Transmission - HCV



Drug Use & Disease Transmission - HIV

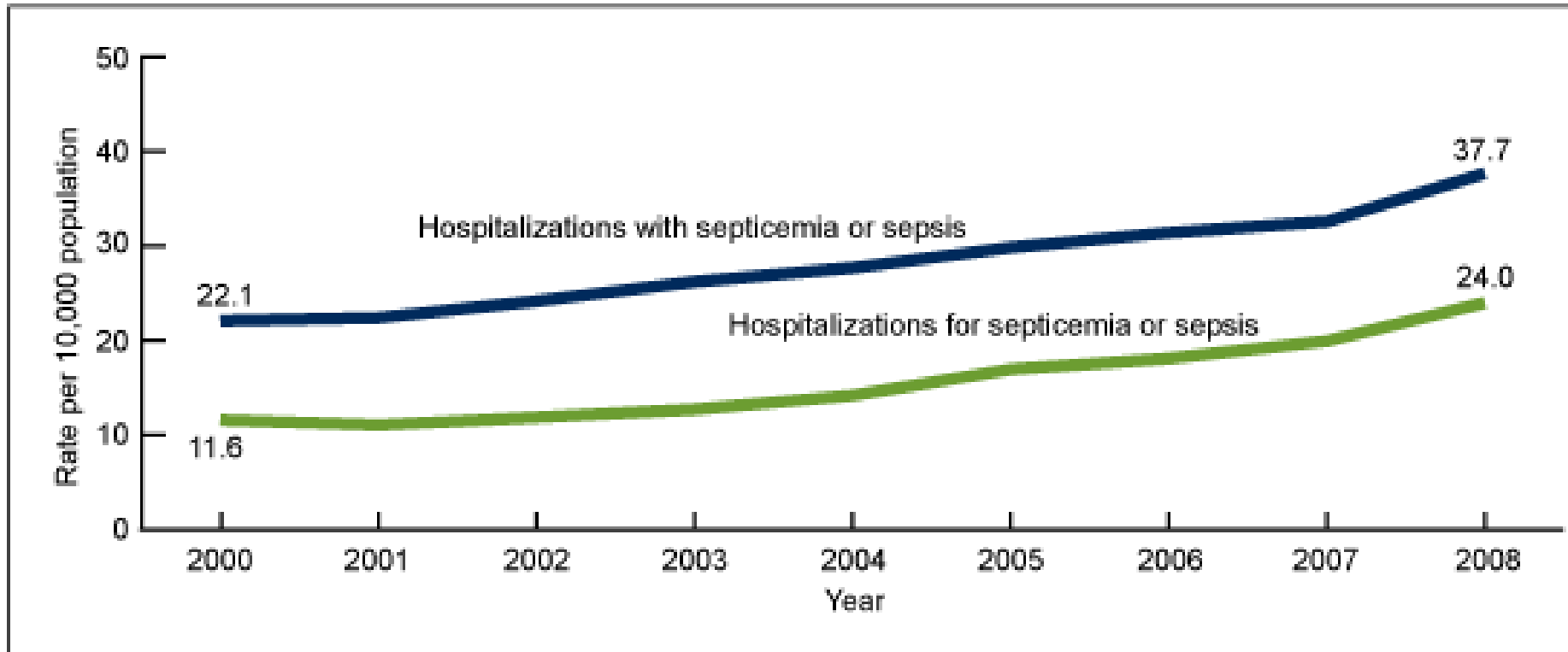
New HIV Diagnoses in the United States by age, 2016



Source: CDC. [Diagnoses of HIV infection in the United States and dependent areas, 2016](#). *HIV Surveillance Report* 2017;28.

Drug Use & Disease Transmission - Sepsis

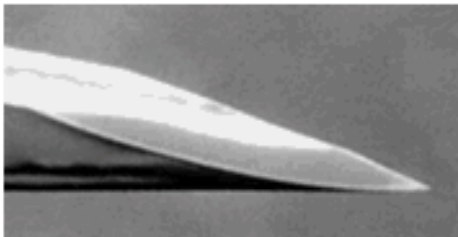
Figure 1. Hospitalizations for and with septicemia or sepsis



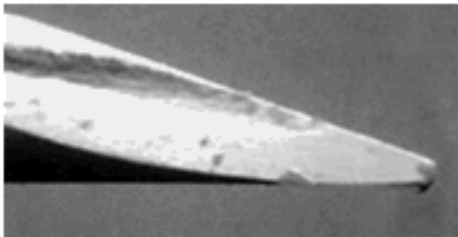
NOTE: Significant linear trend from 2000 through 2008 for both categories.

SOURCE: CDC/NCHS, National Hospital Discharge Survey, 2000-2008.

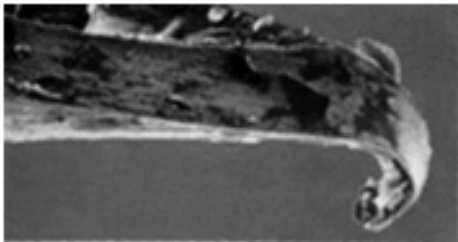
Intravenous Drug Use



After one use



Before use



After six uses



Types of Opioids

Types of Narcotics & Opioids

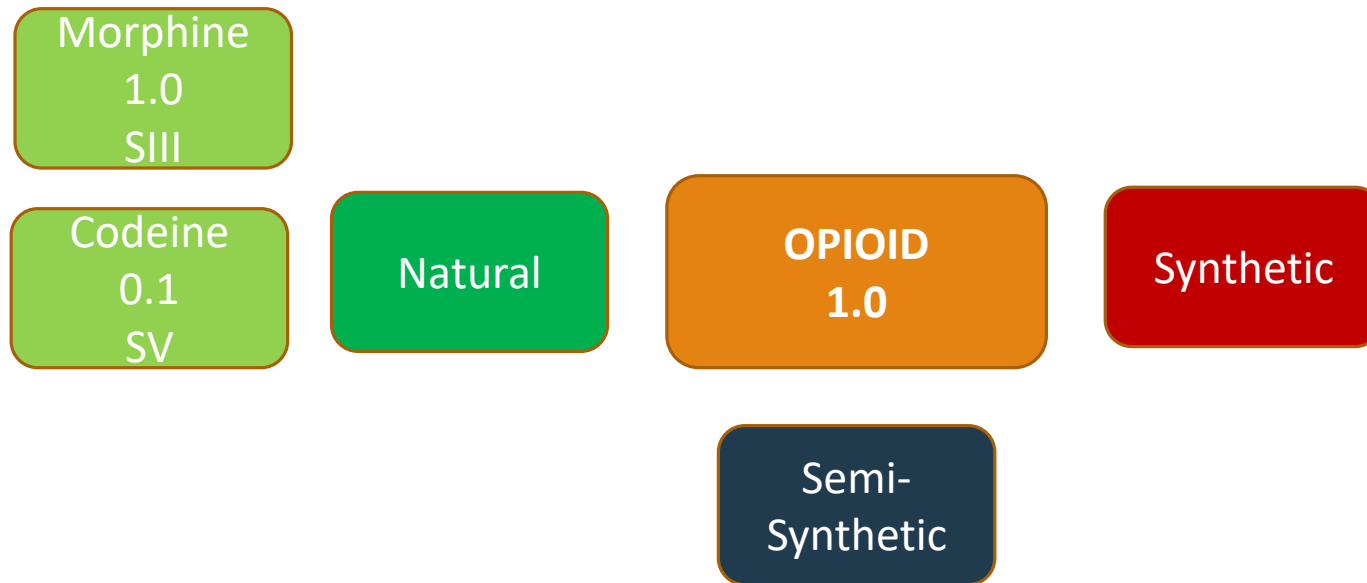
Natural

OPIOID
1.0

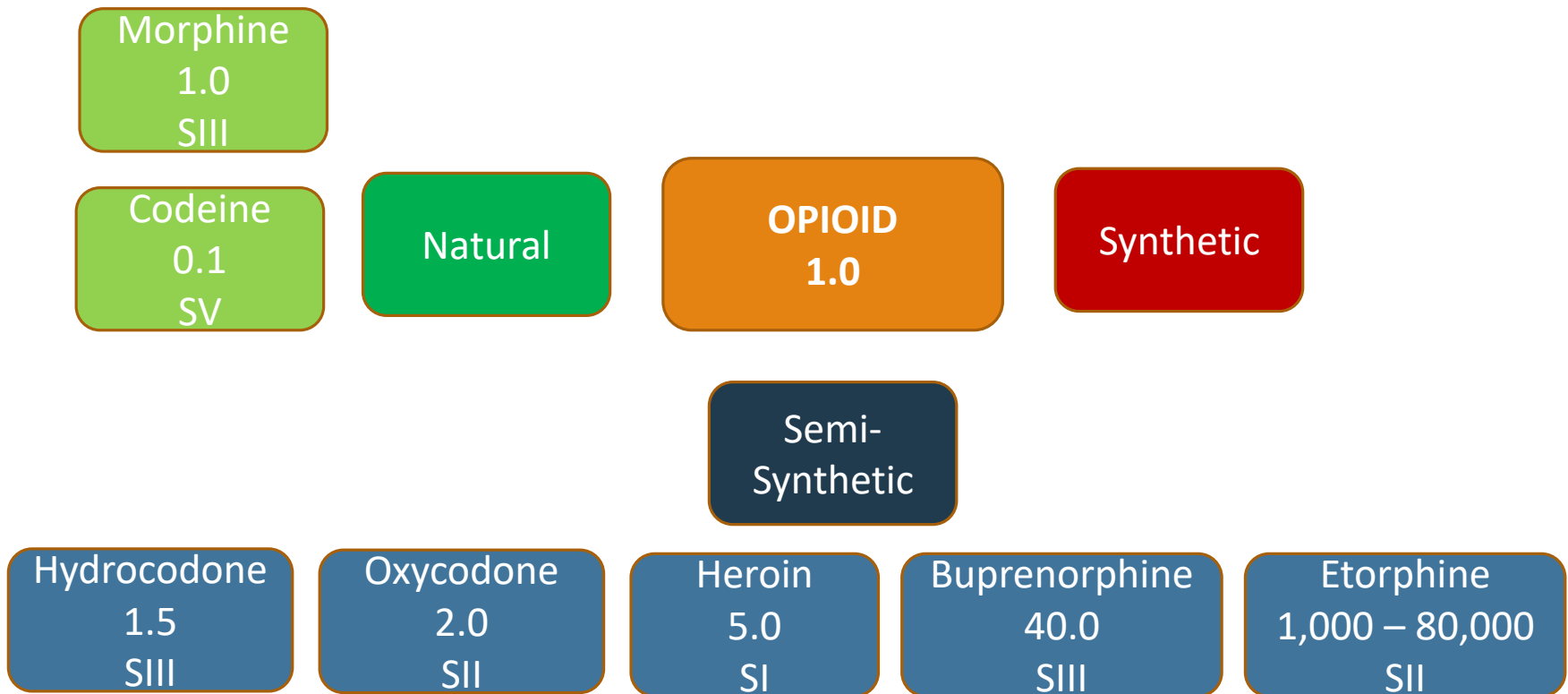
Synthetic

Semi-
Synthetic

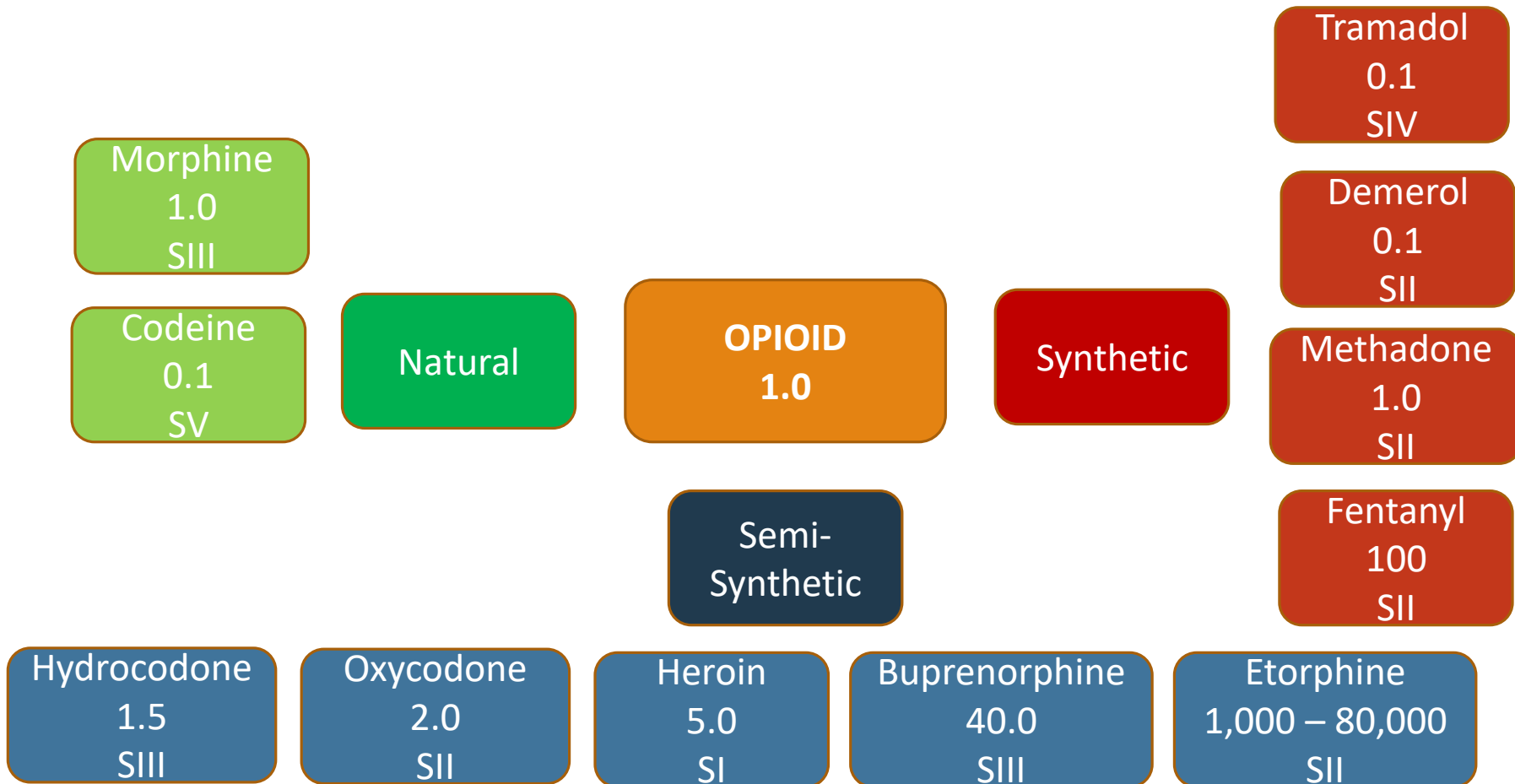
Types of Narcotics & Opioids



Types of Narcotics & Opioids



Types of Narcotics & Opioids

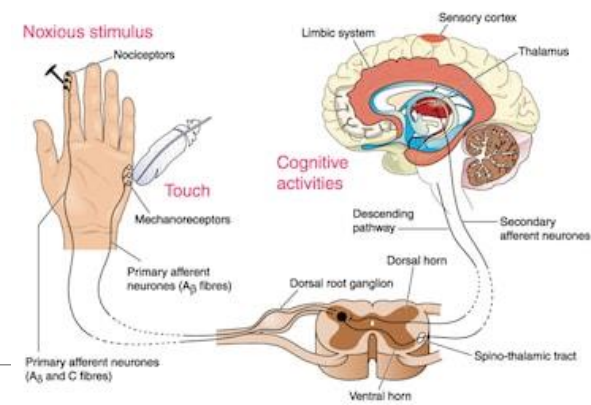


Work Groups

BRN – Chargers

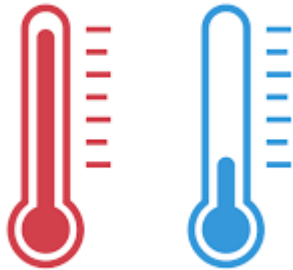
- Describe the principle pharmacological effects of narcotics.

Pain



shutterstock.com · 229165600

Nociceptors



Temperature

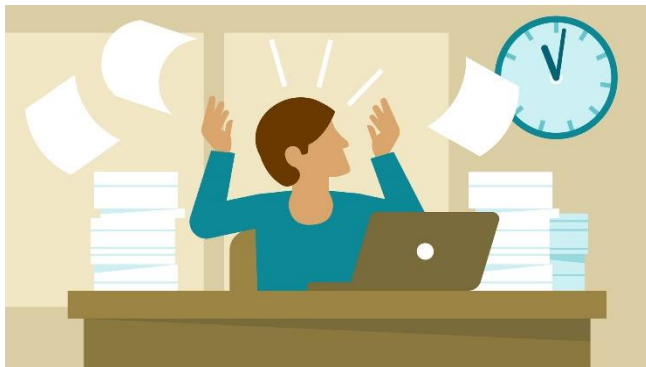


Mechanical



Chemical

Silent



Stress



Anxiety, Perceived



Trauma

Opioid Receptors

Endogenous Opioid molecules = Endorphins

Delta & Mu →

- Analgesia, Euphoria, Dependence, Convulsant, Respiratory Depressant

Kappa →

- Analgesia, Dissociative, Depression, Sedative, Constipation

ORL →

- Anxiety, depression, tolerance

Opioid Receptor Sites



Brain

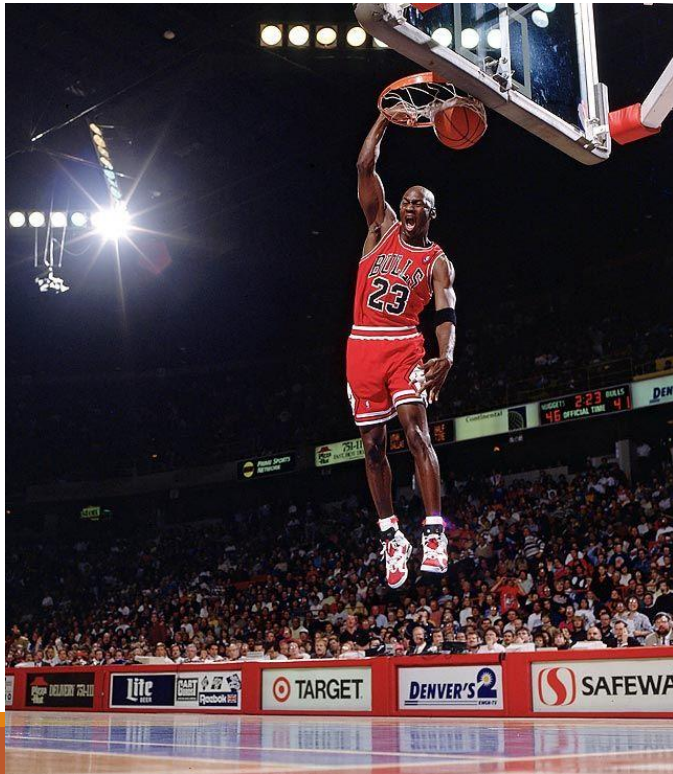
Spinal Cord

Respiratory

Gastrointestinal

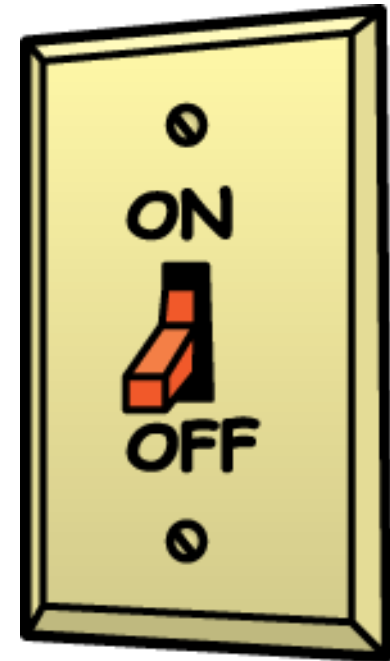
Opioid Receptors

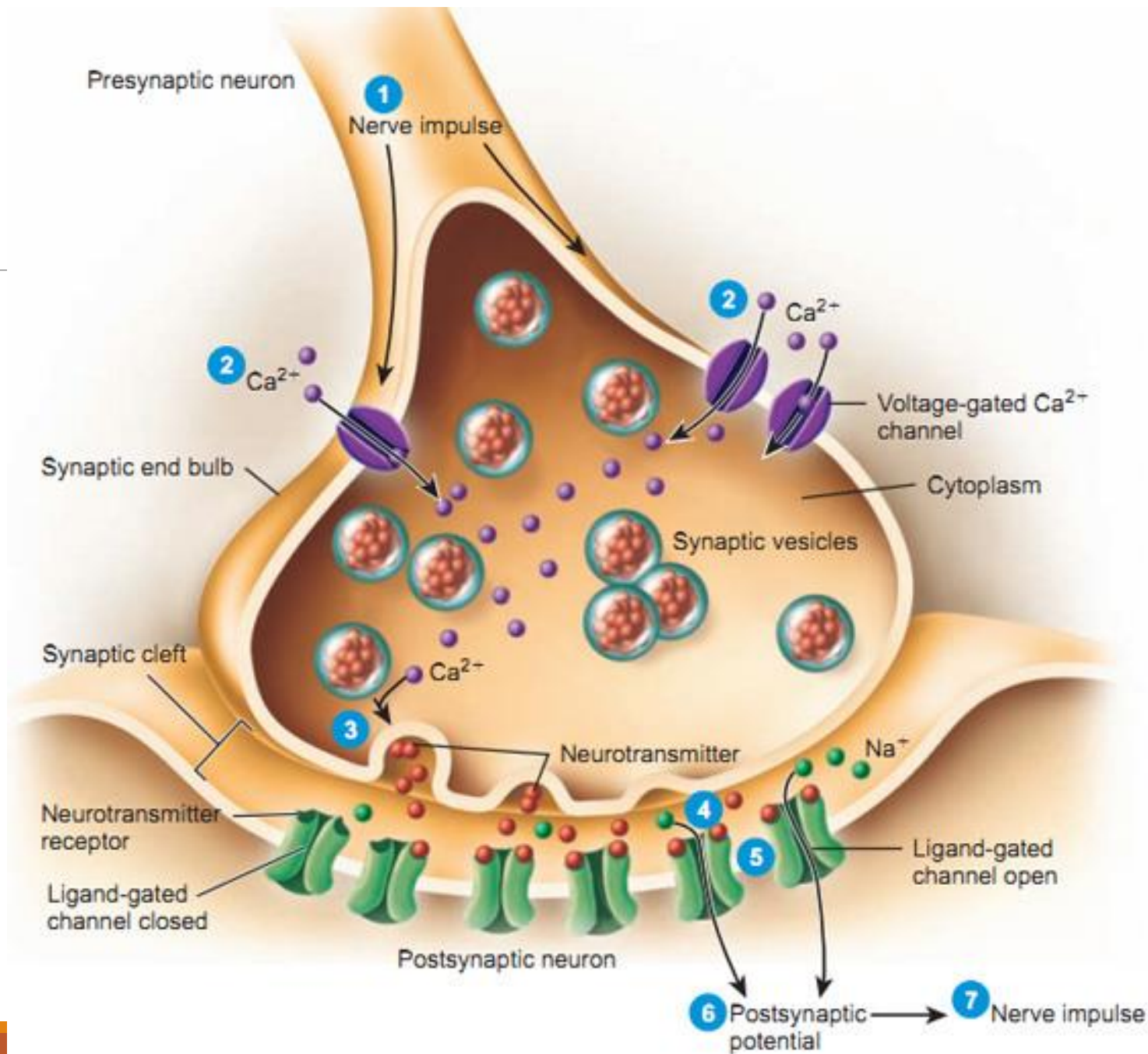
Agonist = activates



Opioid Receptors

Antagonist = Blocks





Heroin



Full agonist



Buprenorphine



Partial agonist



Naloxone



Antagonist



Activity zone

Affinity zone



FOX – Cyclones

Identify major side-effects of narcotics, in particular their abuse potential

MNT – Buccaneers

Distinguish between narcotic physical dependence and addiction.

MAN – Blue Devils

Explain narcotic tolerance and withdrawal symptoms

BRN – Bluegolds

Describe and compare the use of methadone and buprenorphine in the treating narcotic addiction.

FOX – Titans

Explain the unique features of fentanyl that makes it appealing to illicit drug dealers but dangerous to the addict.

MAN – Phoenix

Describe how “designer” drugs have been associated with narcotics and Parkinson’s disease.

MNT – Phoenix

Describe why/how dextromethorphan and tramadol are potential for abuse

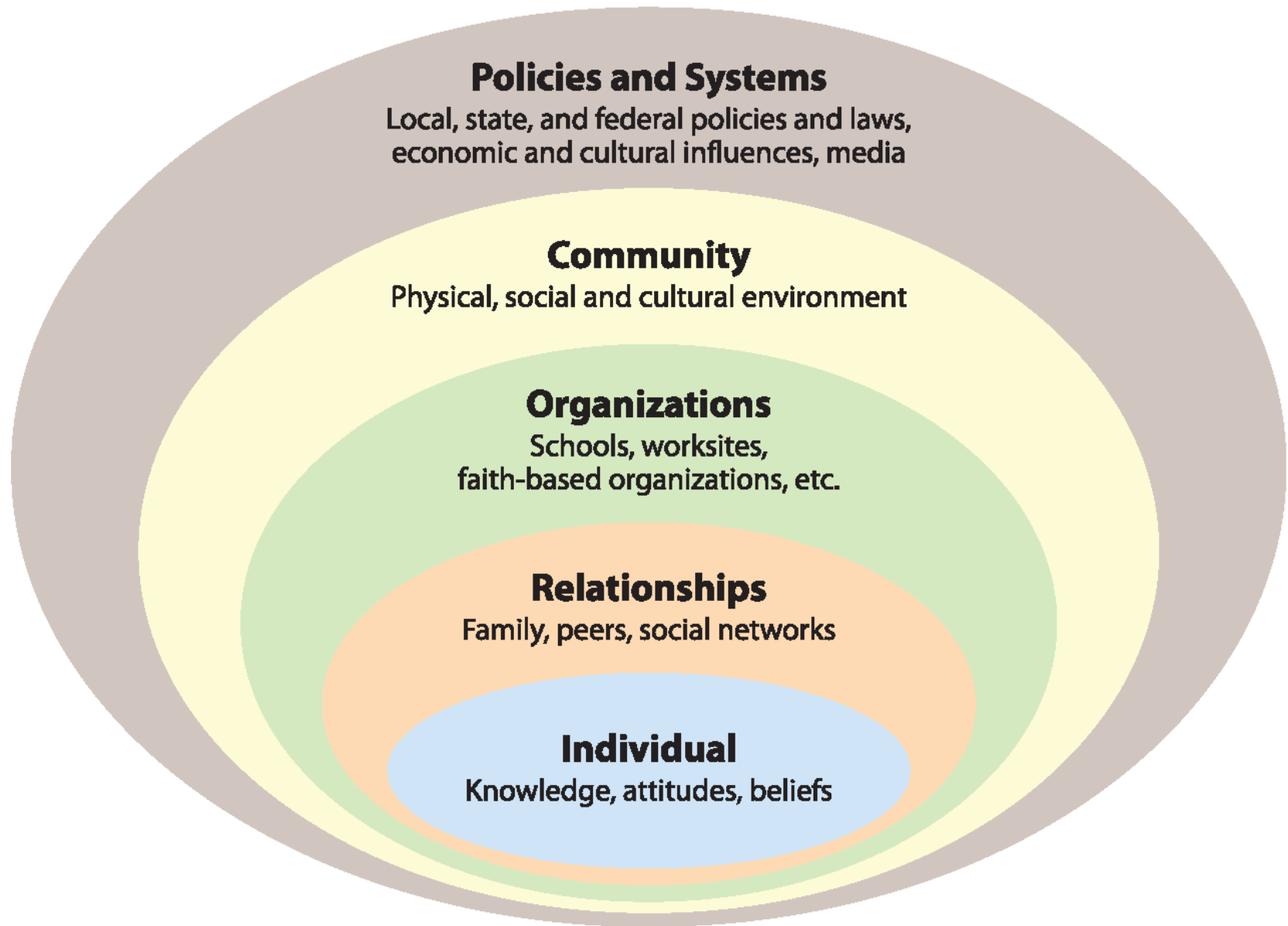
Prevention & Treatment

Levels of Prevention

Primary

Secondary

Tertiary



Policies and Systems

Local, state, and federal policies and laws,
economic and cultural influences, media

Community

Physical, social and cultural environment

Organizations

Schools, worksites,
faith-based organizations, etc.

Relationships

Family, peers, social networks

Individual

Knowledge, attitudes, beliefs

Prevention

[Naloxone](#) (3:09) – Opioid Triad

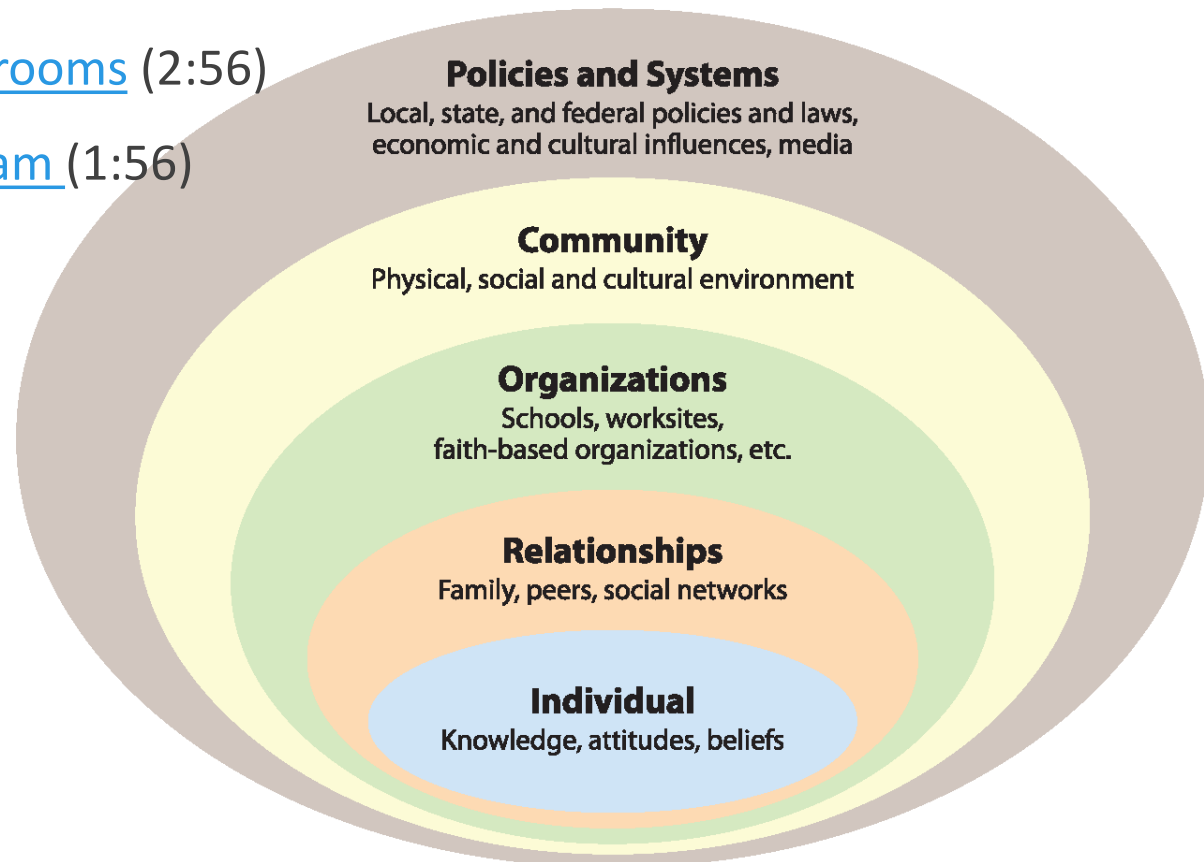
[Joy's Story](#) (4:39)

[Blue light in Public Restrooms](#) (2:56)

[Needle exchange Program](#) (1:56)

[HOPE Agenda](#) (0:55)

[Drug Court](#) (3:55)



Treatment

“Kick the Habit” & “Cold Turkey”

- Withdrawal symptoms begin within 6 – 12 hours
- Peak in 2 – 3 days
- Complete within 10 days



Treatment

Methadone & Suboxone

Work Groups for Next Week

Read Chapter 10 - Stimulants

Be prepared to discuss your answers to the following questions in your work groups

BRN Chargers – What are the side effects of amphetamines on brain and cardiovascular functions.

FOX Cyclones – Discuss the unique dangers of products such as bath salts.

MNT Buccaneers – Describe why stimulants are used as “performance enhancers” and why they are dangerous.

MAN Blue Devils – Explain how Ritalin compares to methamphetamine.

BRN Bluegolds – What are the different stages of cocaine withdrawal.

FOX Titans – Compare caffeine dependence and withdrawal to that of other stimulants.

MAN Phoenix – Describe what “energy drinks” are and potential risks associated with their consumption.

MNT Phoenix – What are the potential dangers of herbal stimulants, such as Ephedra.