

Opioid Overdose Prevention

Responding to a crisis

Presented by

Praxis



Massachusetts Department of Public Health
Bureau of Substance Abuse Services



Center for
Social Innovation

Translating Research, Transforming Human Services

Today's workshop is sponsored by BSAS

The Bureau of Substance Addiction Services:

- Provides **access** to **addictions services** for the uninsured
- **Funds** and **monitors** prevention, intervention, treatment and recovery support services
- **Licenses** addictions treatment **programs** and **counselors**
- **Tracks** statewide substance use **trends**
- Develops and implements **policies** and **programs**
- Supports the addictions **workforce**

Helpful

BSAS: www.mass.gov/dph/bsas

Websites:

Helpline: www.helpline-online.com

Careers of Substance: www.careersofsubstance.org

Agenda

- New Developments
- Opioid Overdose: Physiology and Risk Factors
- Opioid Overdose: Signs and Symptoms
- Responding to an Overdose
- Overdose Intervention and Harm Reduction Strategies



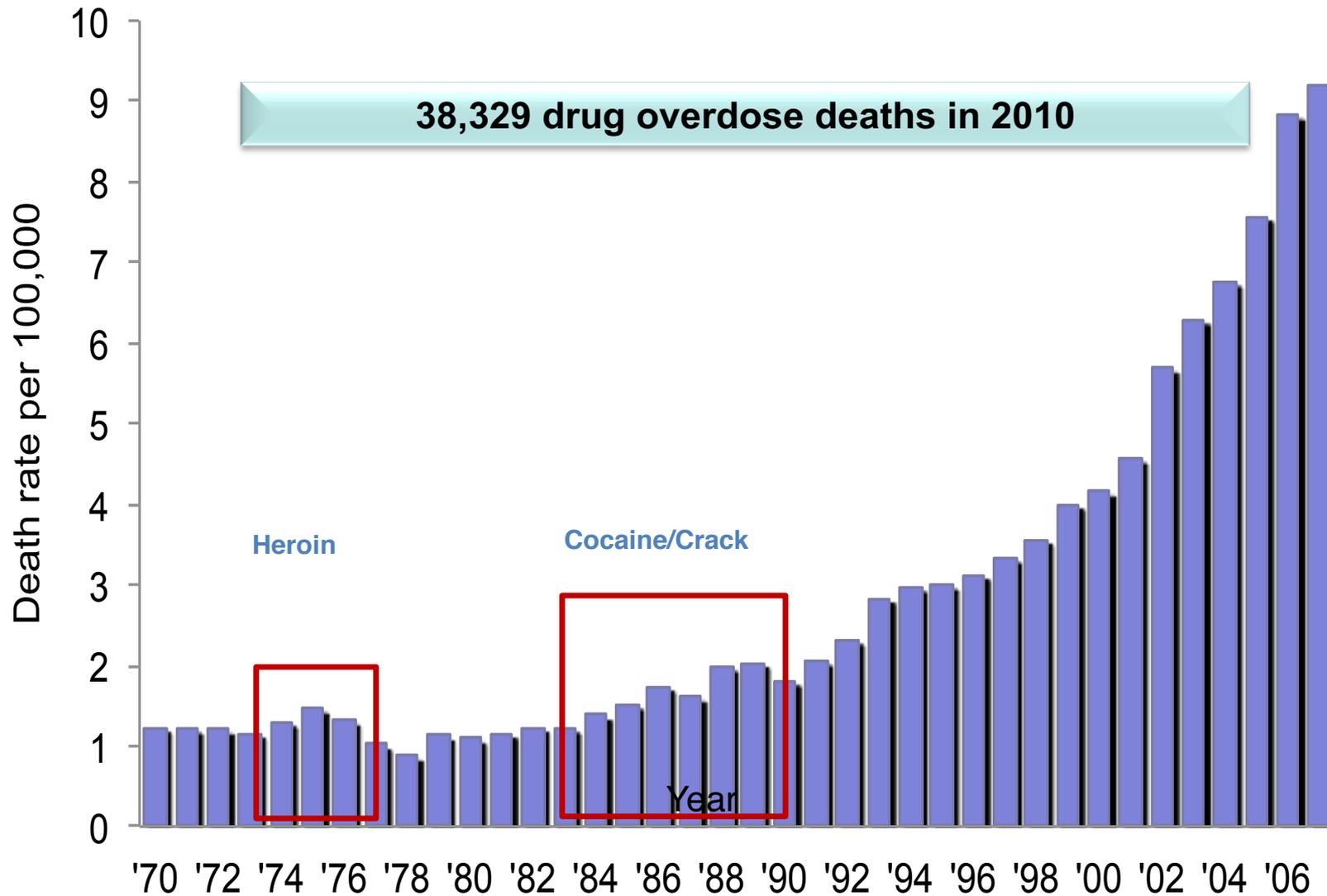
Massachusetts Department of Public Health
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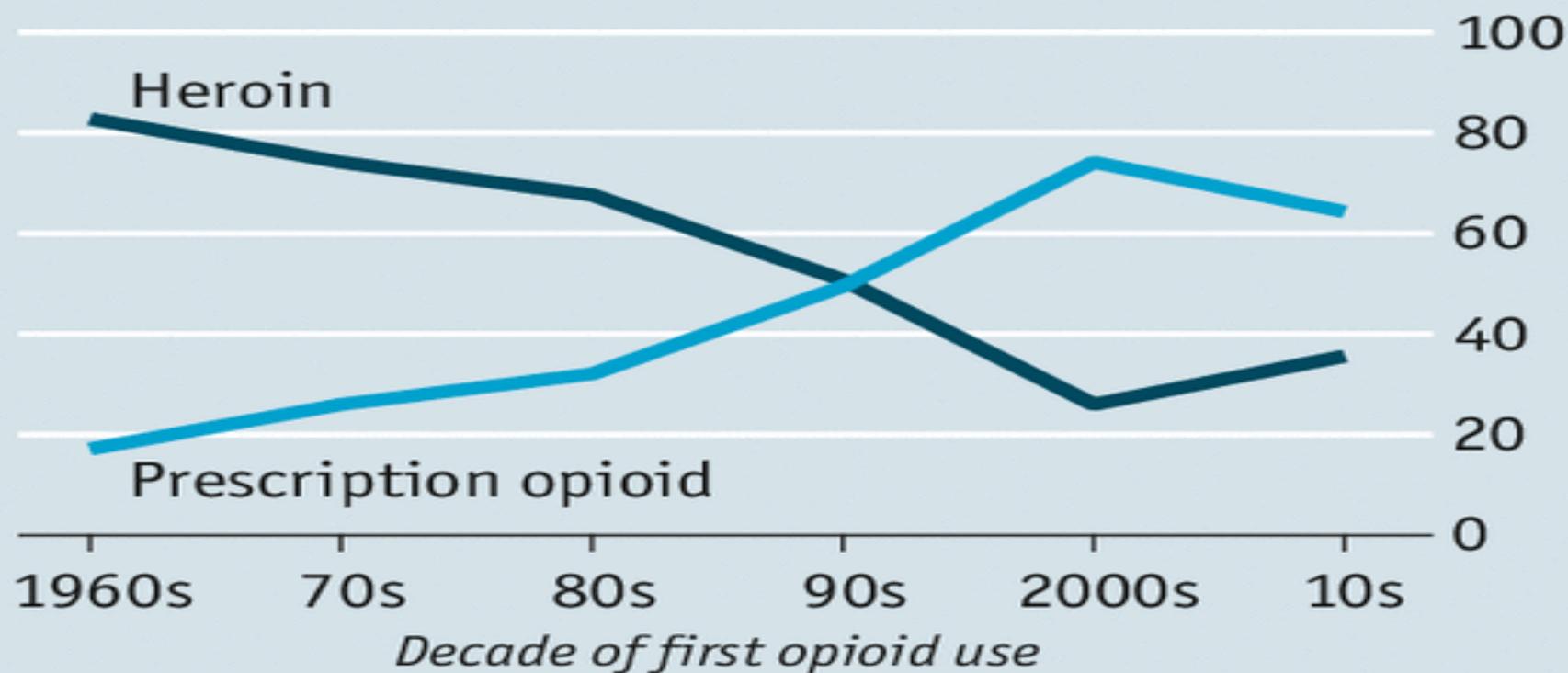
Translating Research, Transforming Human Services

Unintentional Drug Overdose Deaths United States, 1970–2007



New means, same end

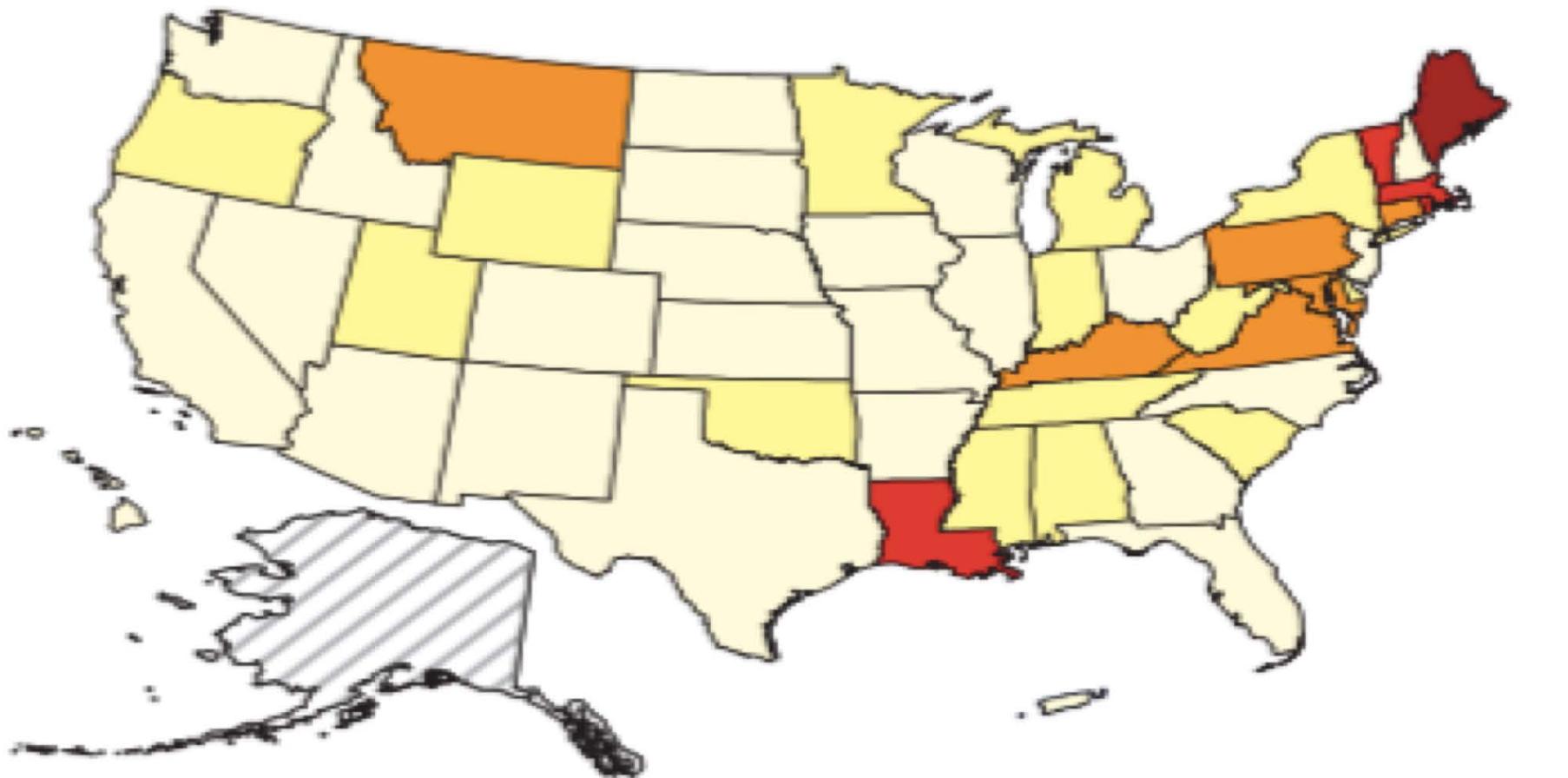
Heroin-dependent sample that used heroin or a prescription opioid as their first opioid of abuse
% of total



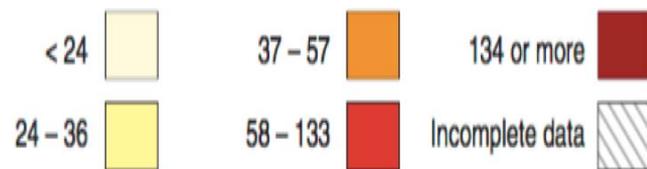
Source: *JAMA Psychiatry*

Primary non-heroin opioids/synthetics admission rates, by State

(per 100,000 population aged 12 and over)

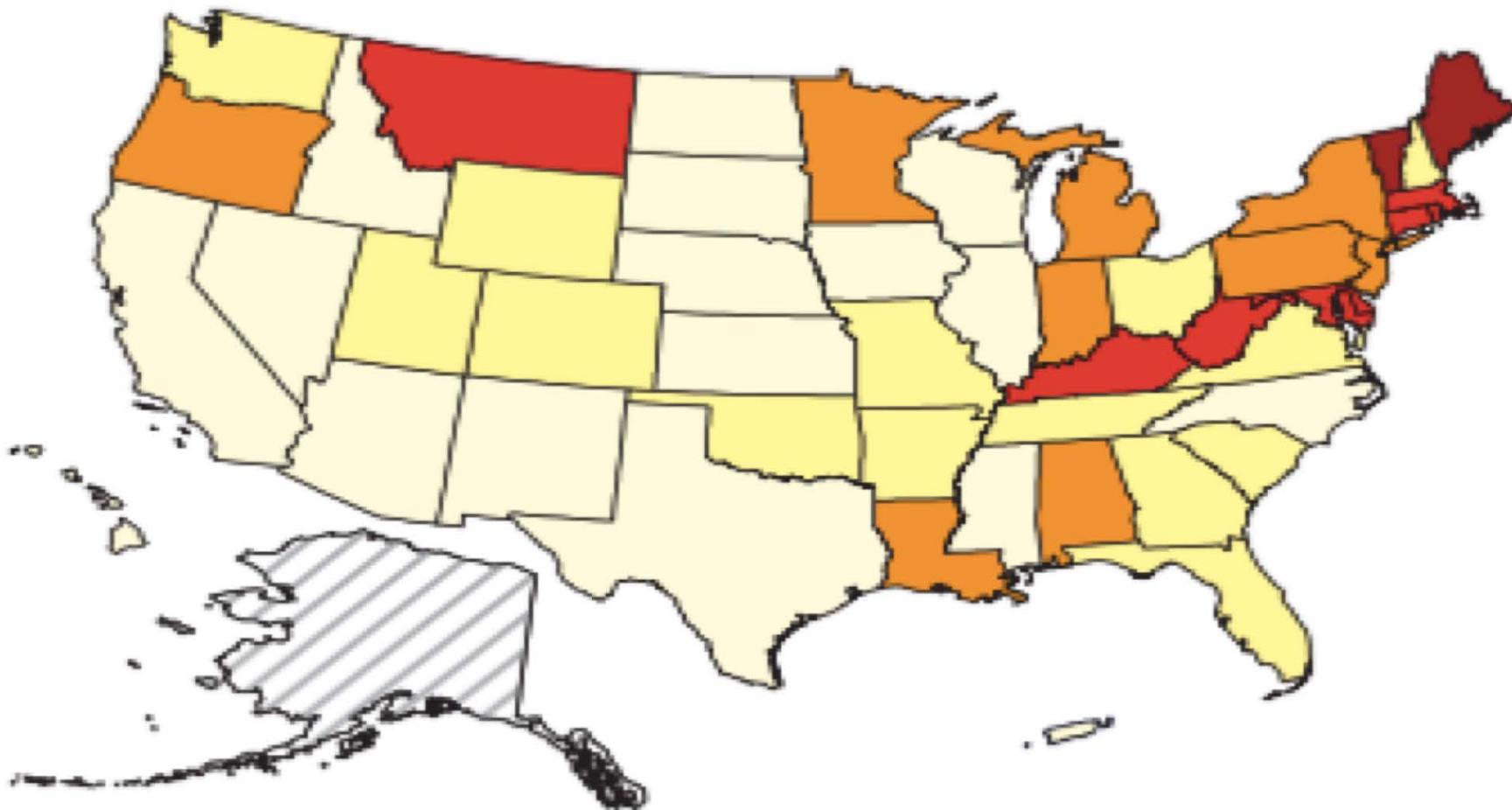


2004
(range <1 – 167)

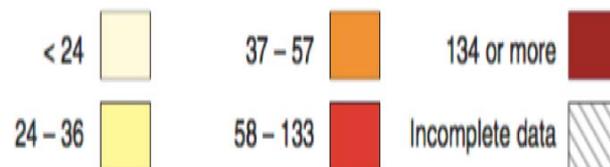


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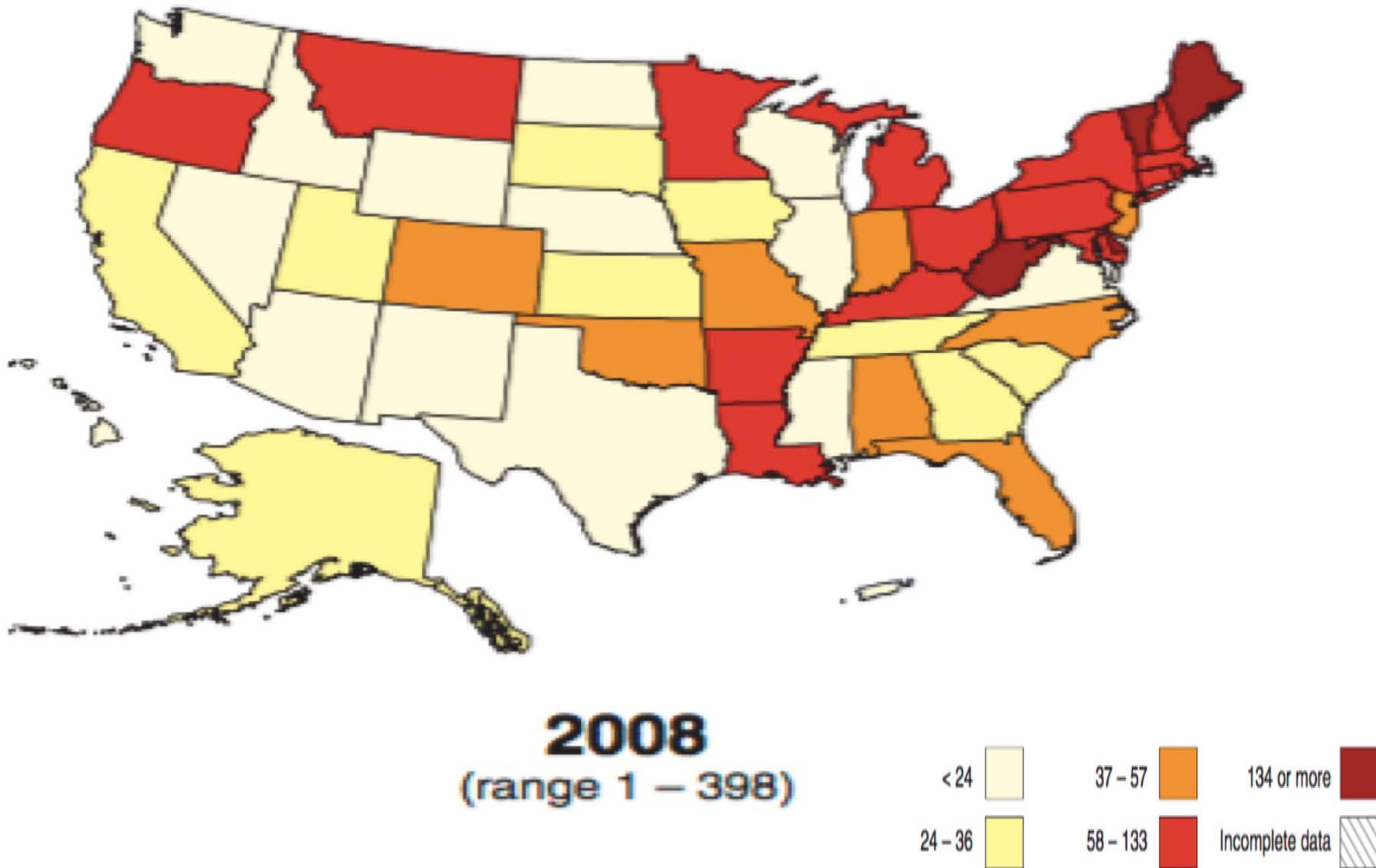


2006
(range <1 – 273)



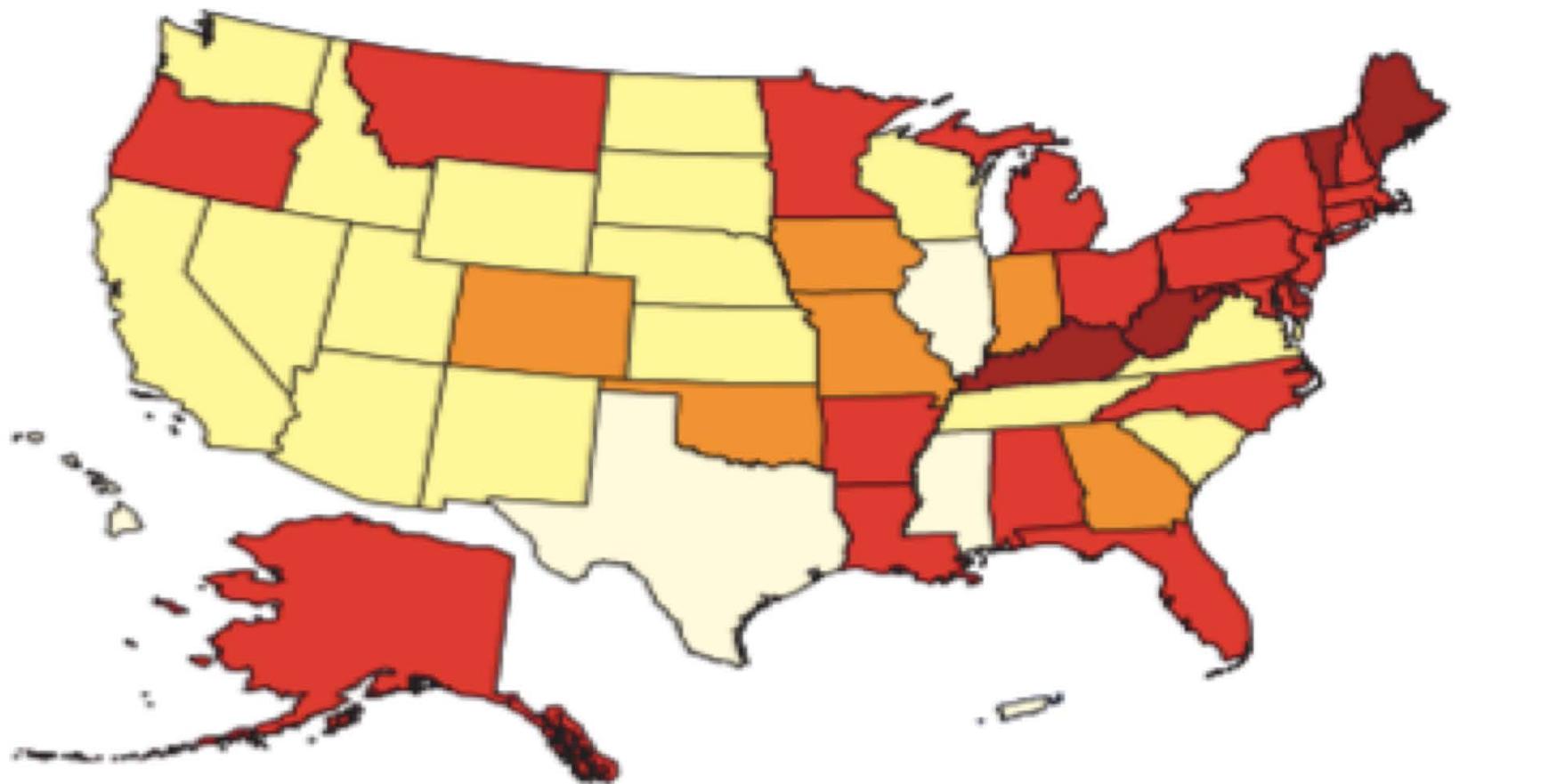
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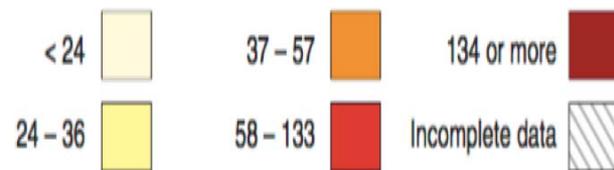


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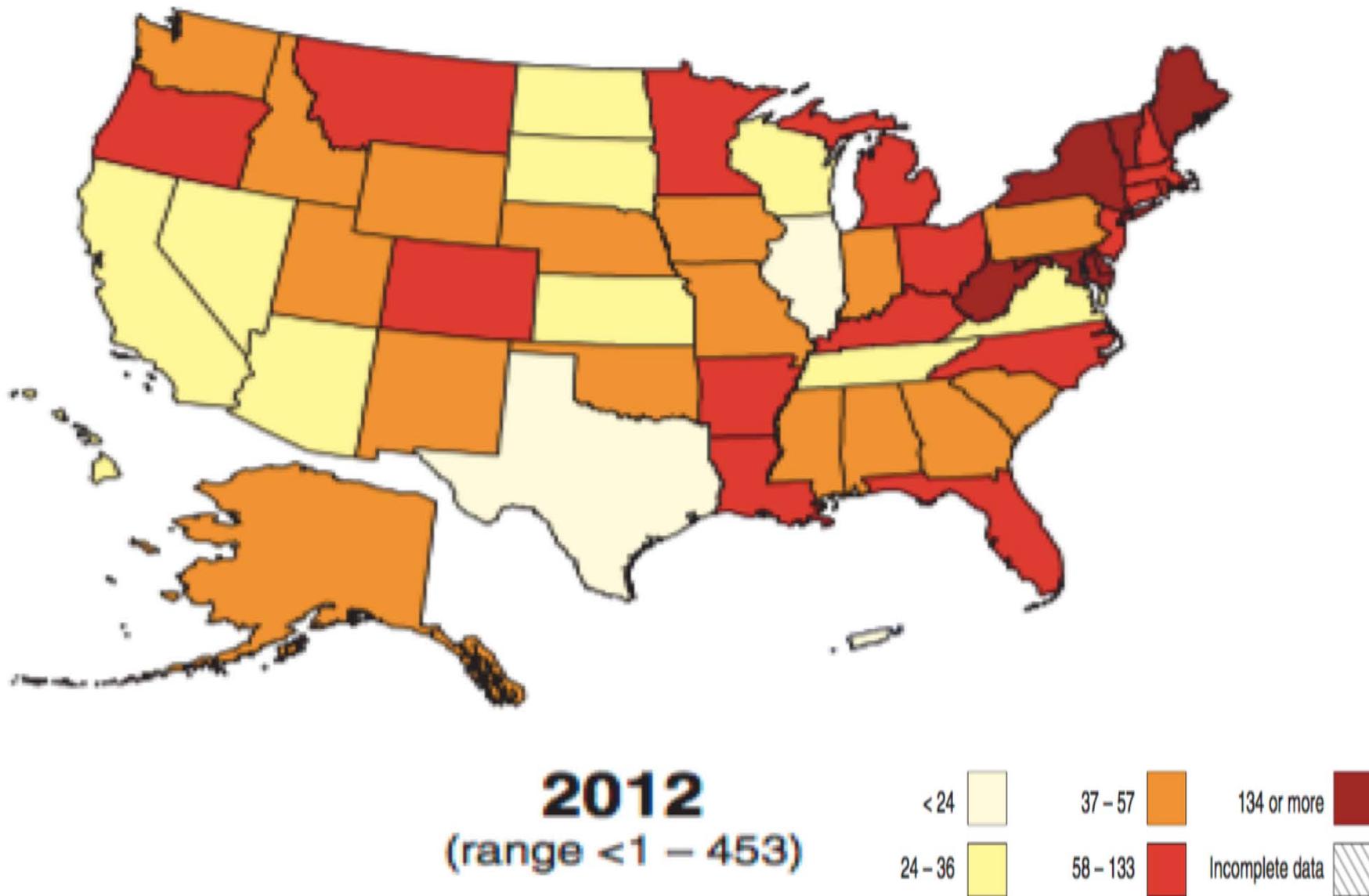


2010
(range 2 – 367)



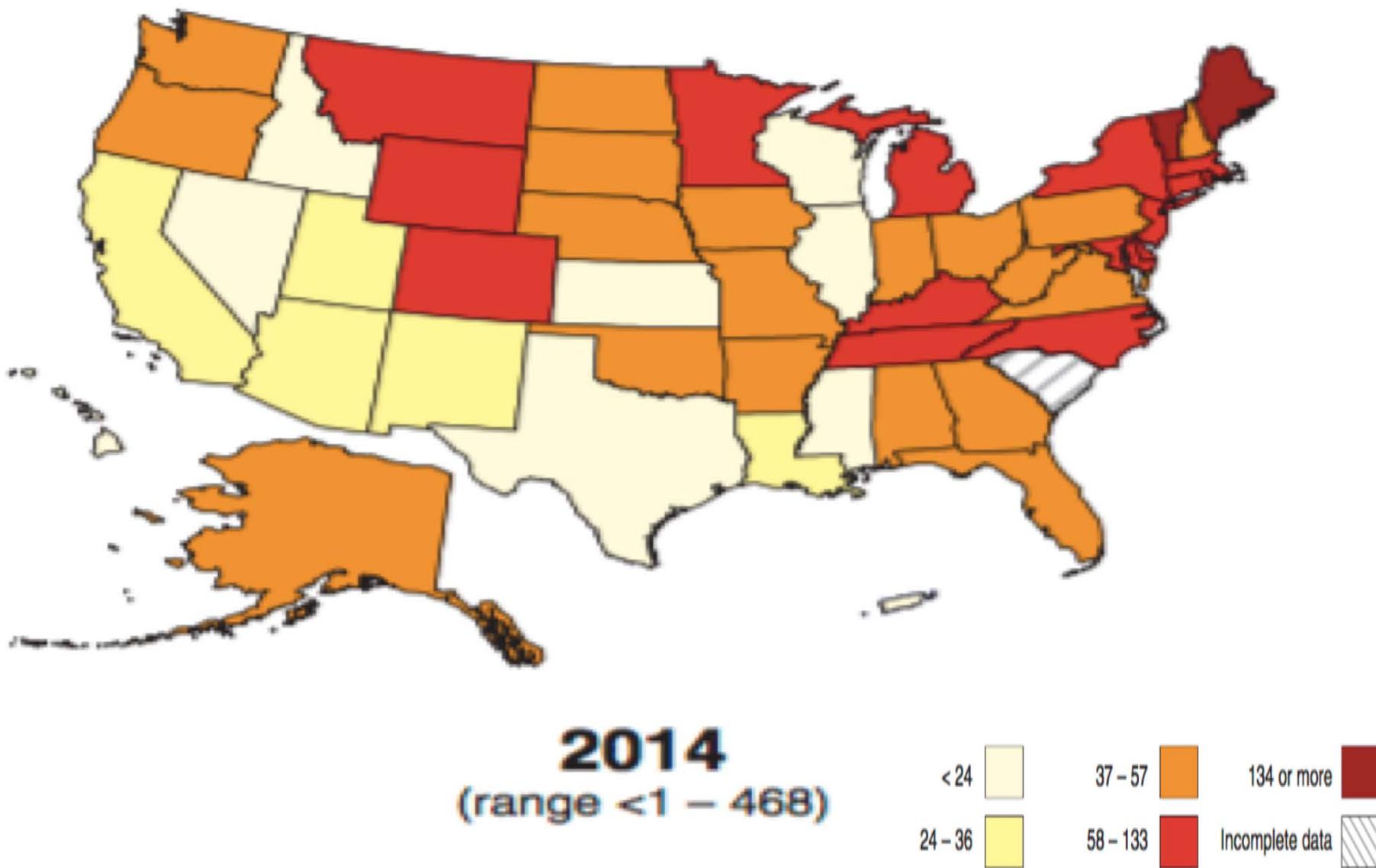
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(per 100,000 population aged 12 and over)



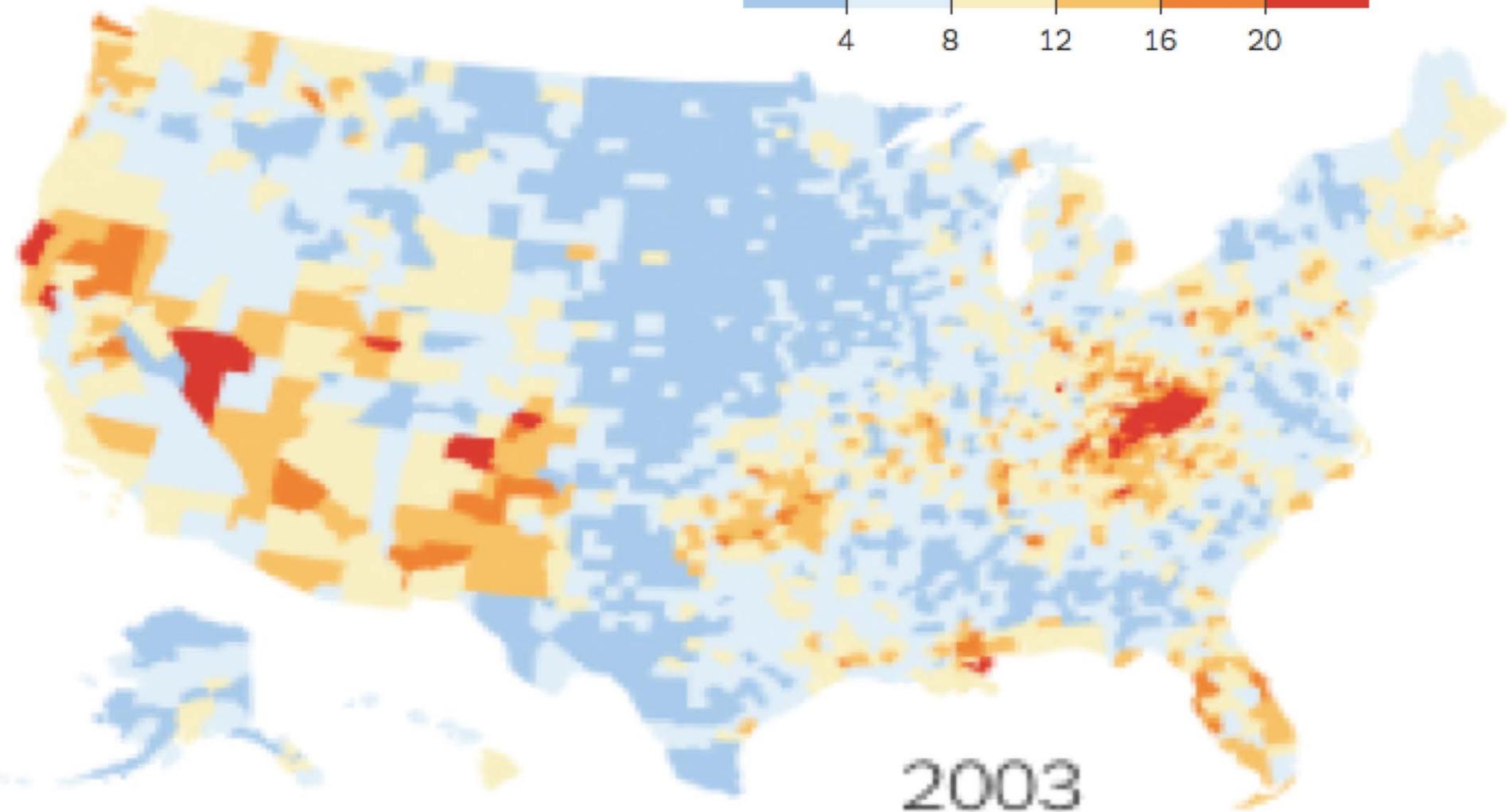
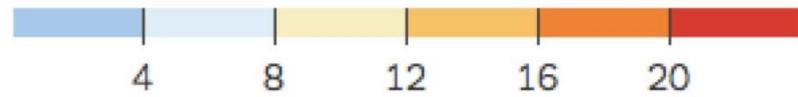
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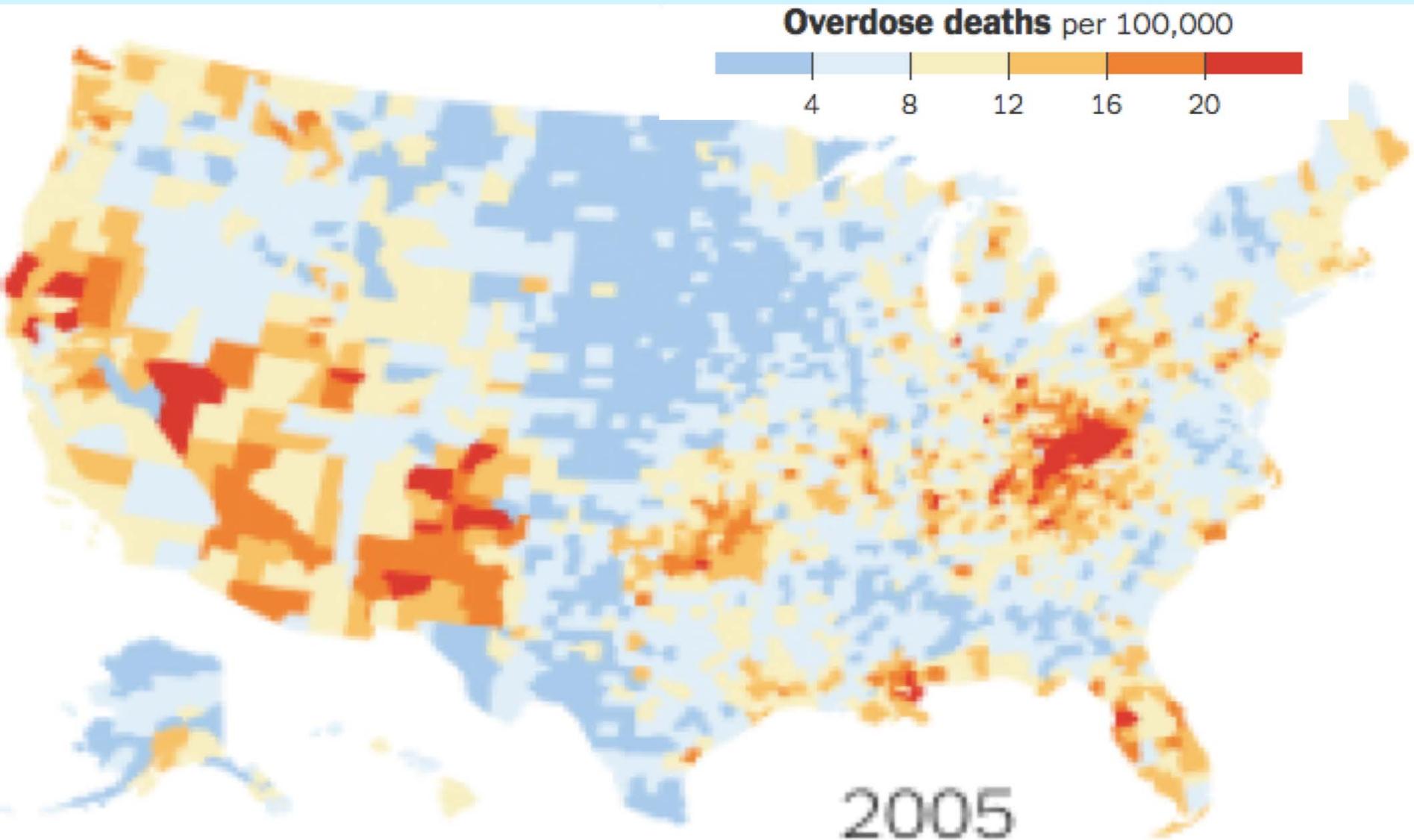


Opioid Analgesic OD Death Rates

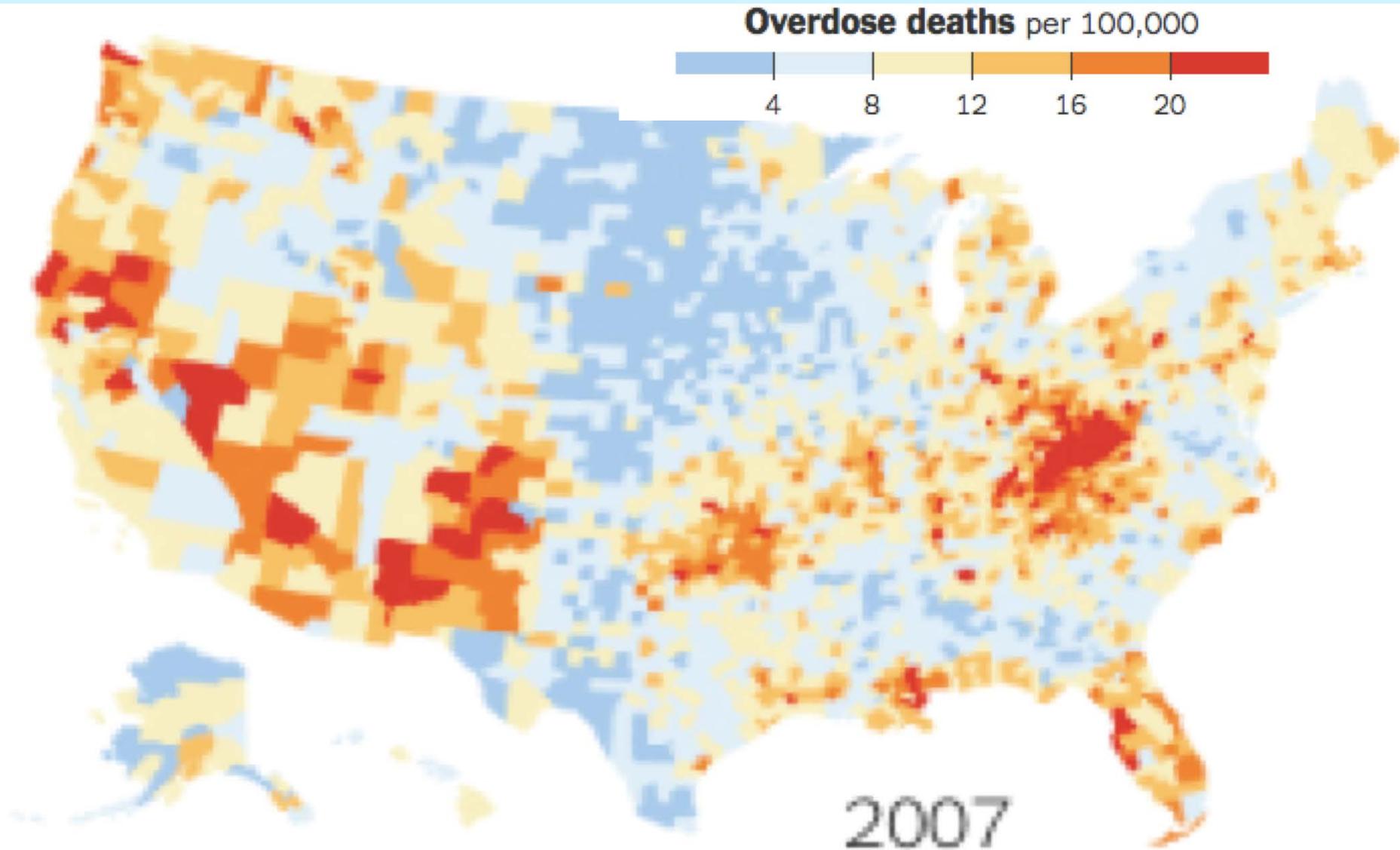
Overdose deaths per 100,000



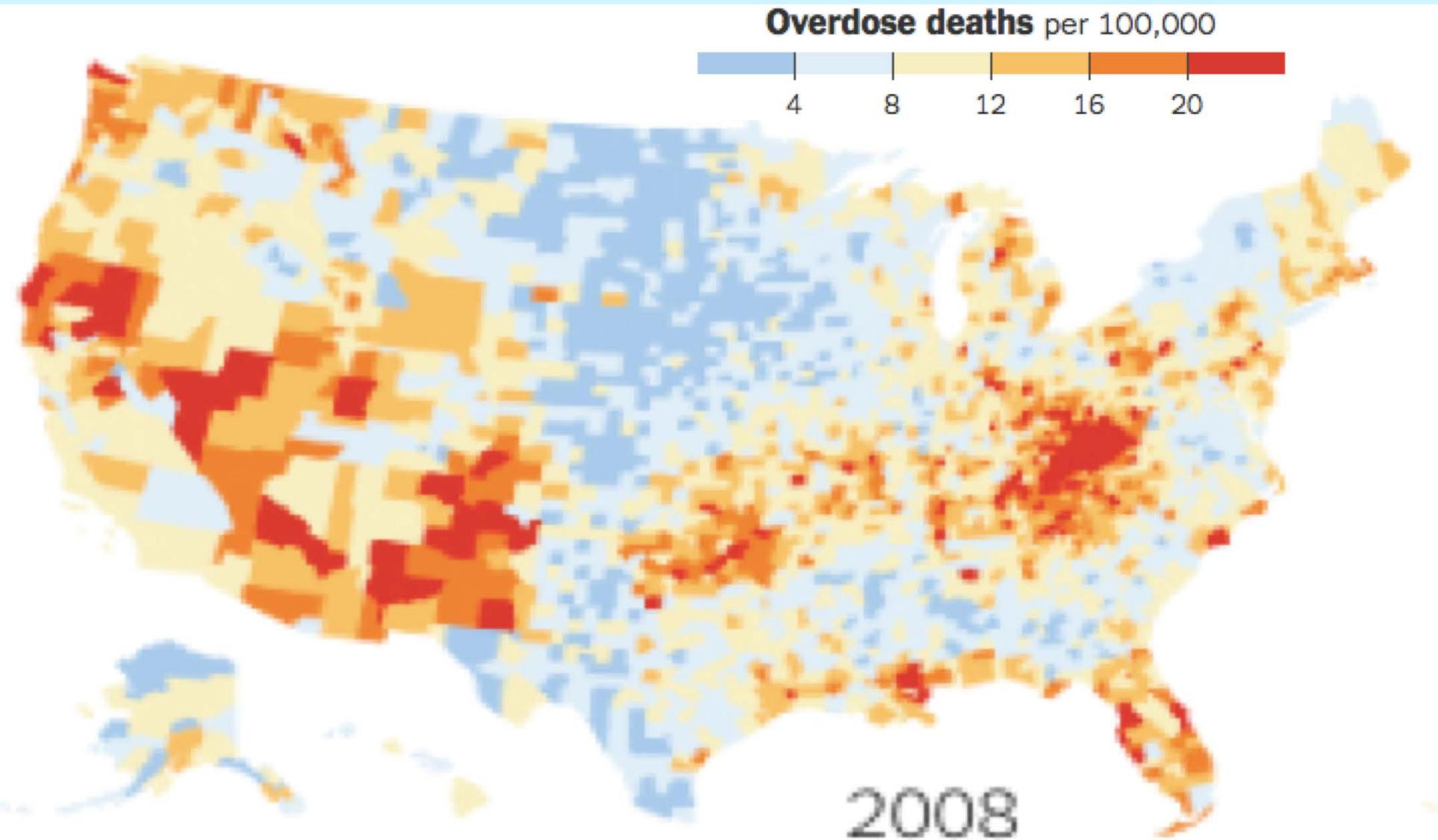
Opioid Analgesic OD Death Rates



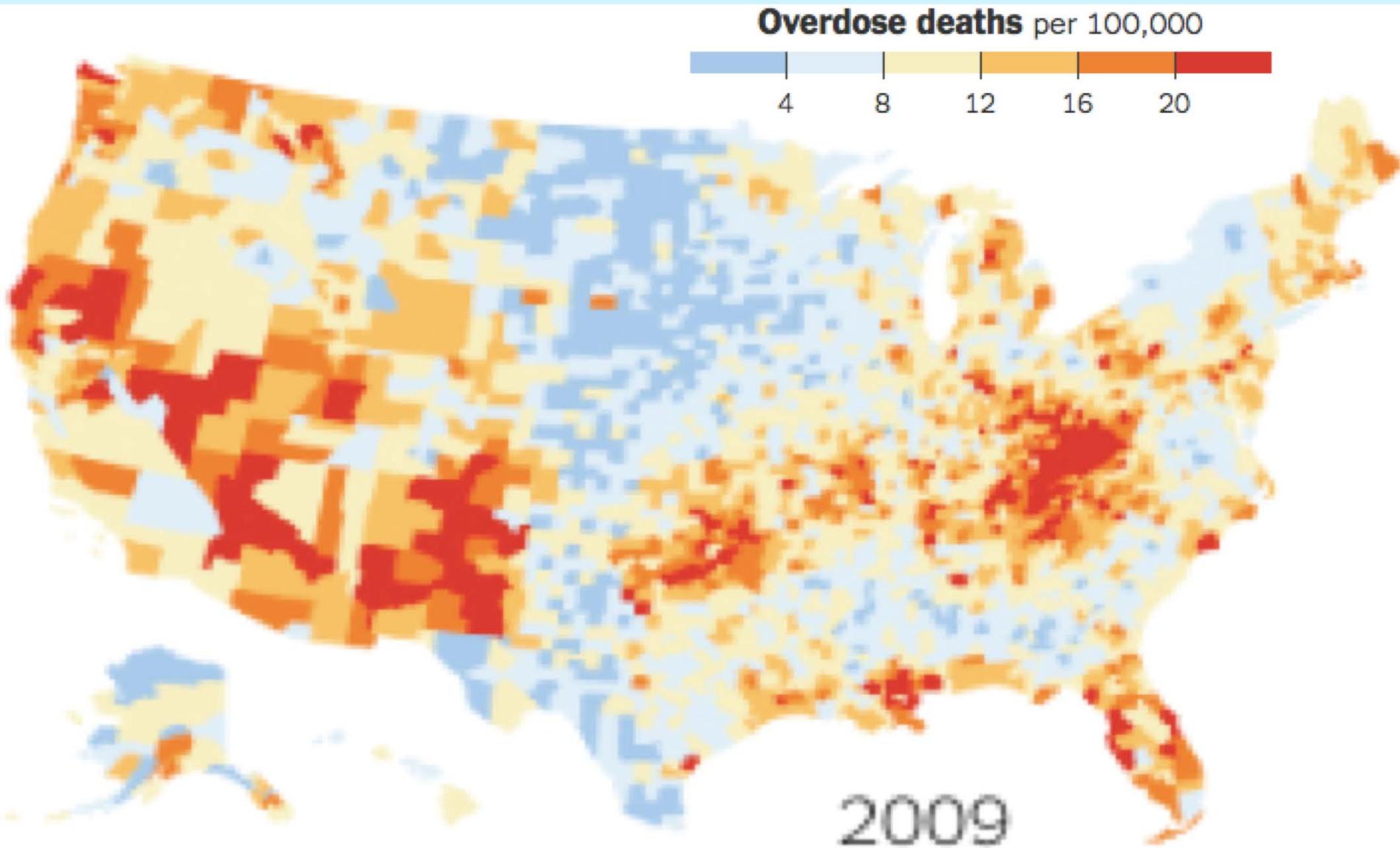
Opioid Analgesic OD Death Rates



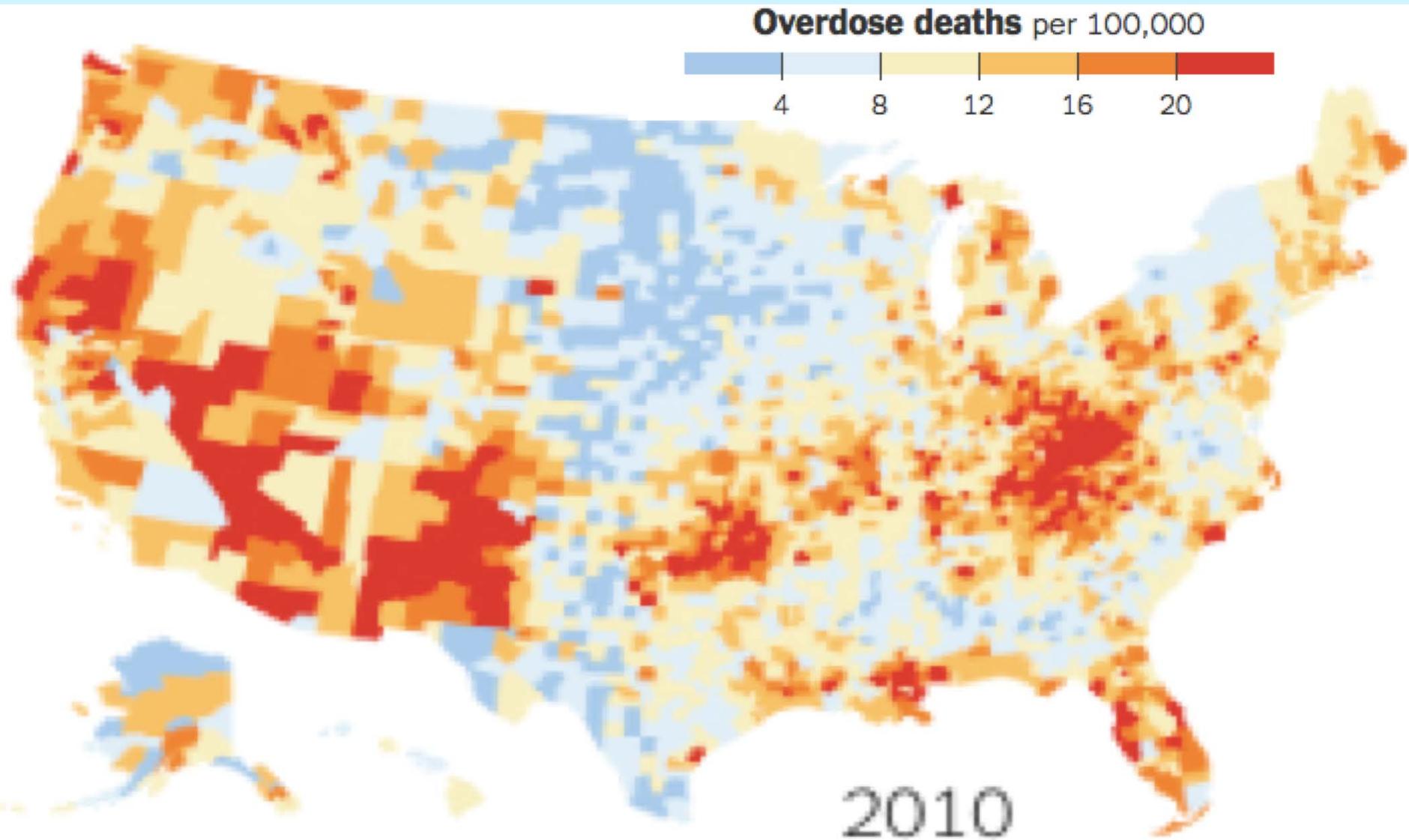
Opioid Analgesic OD Death Rates



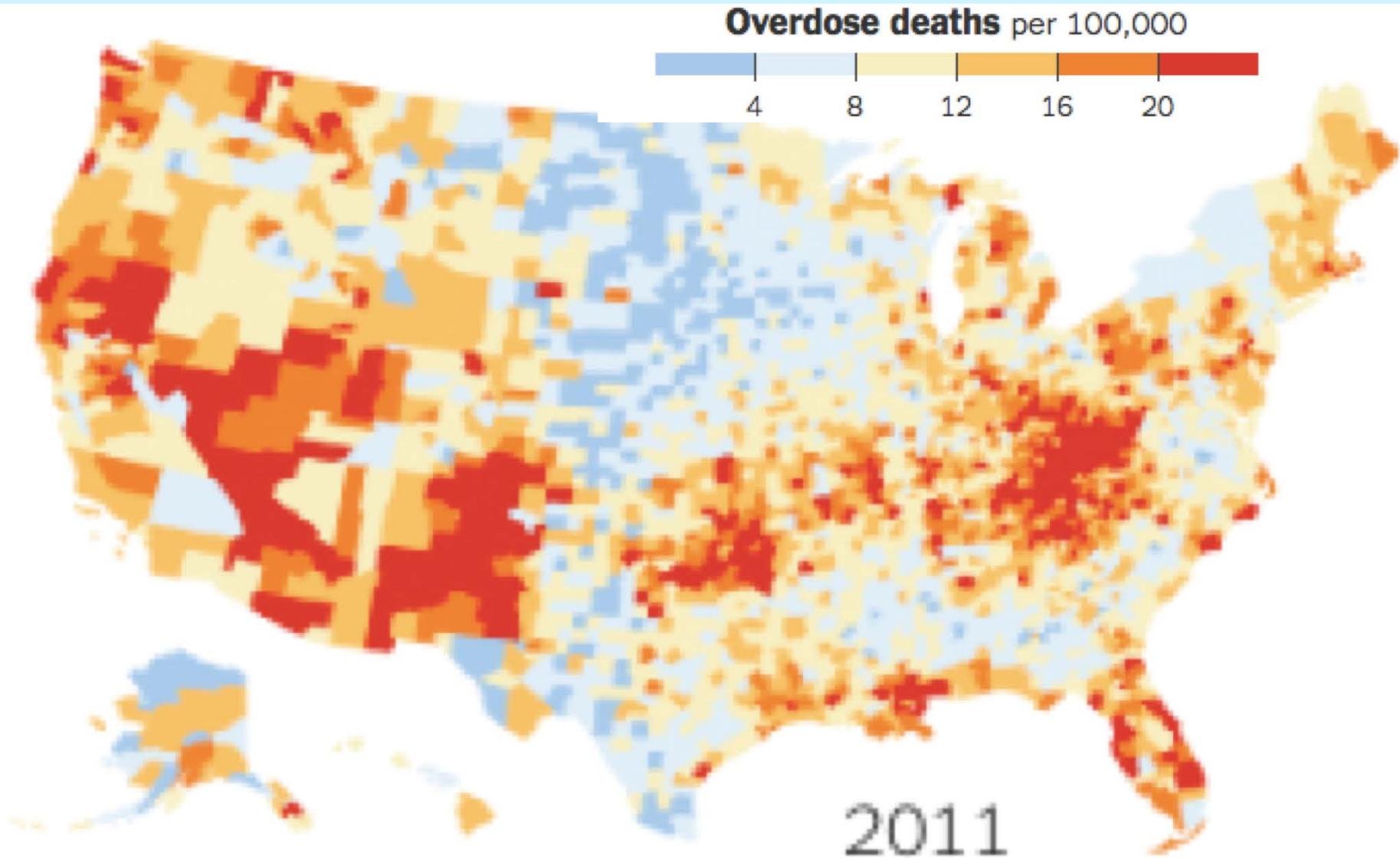
Opioid Analgesic OD Death Rates



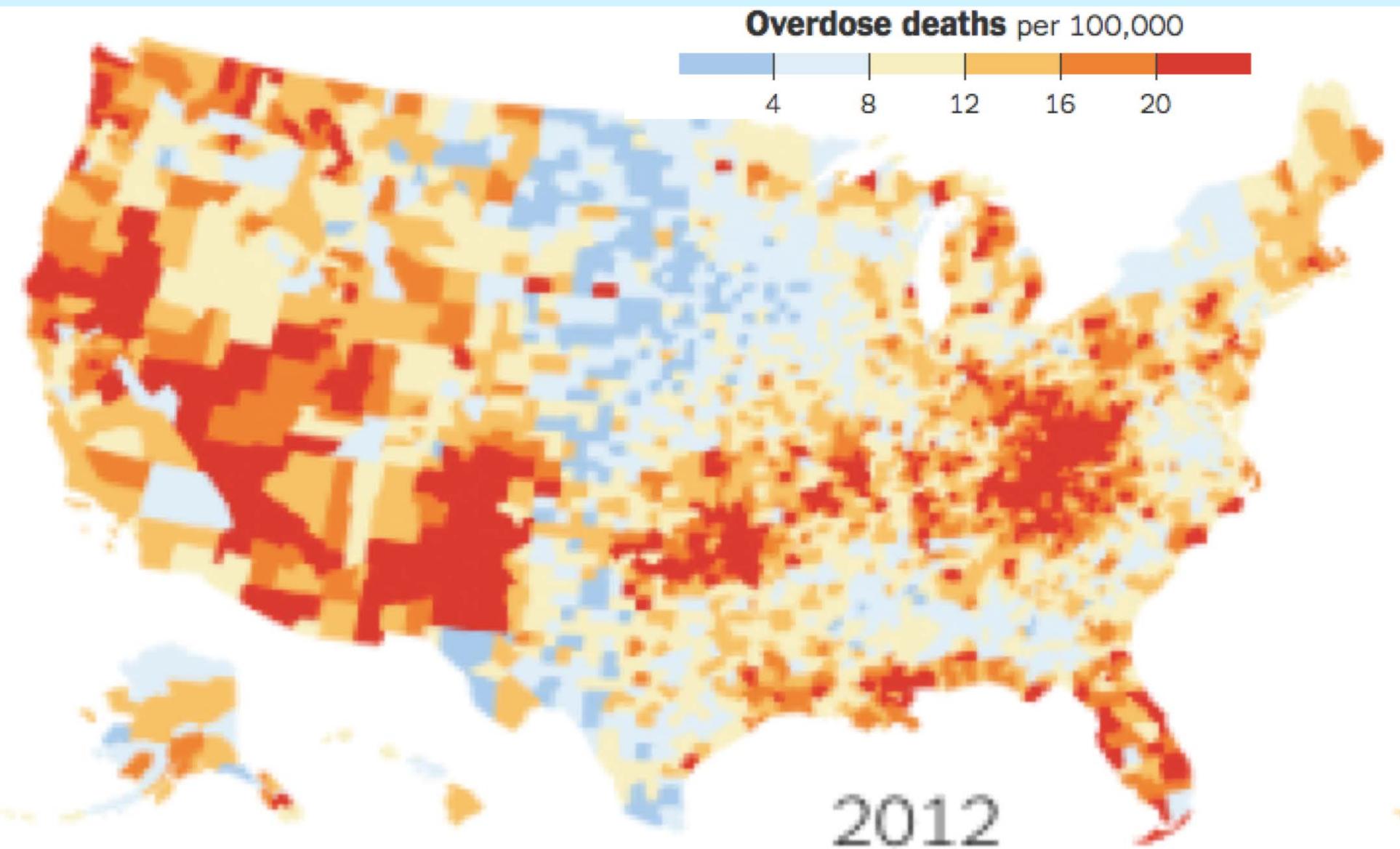
Opioid Analgesic OD Death Rates



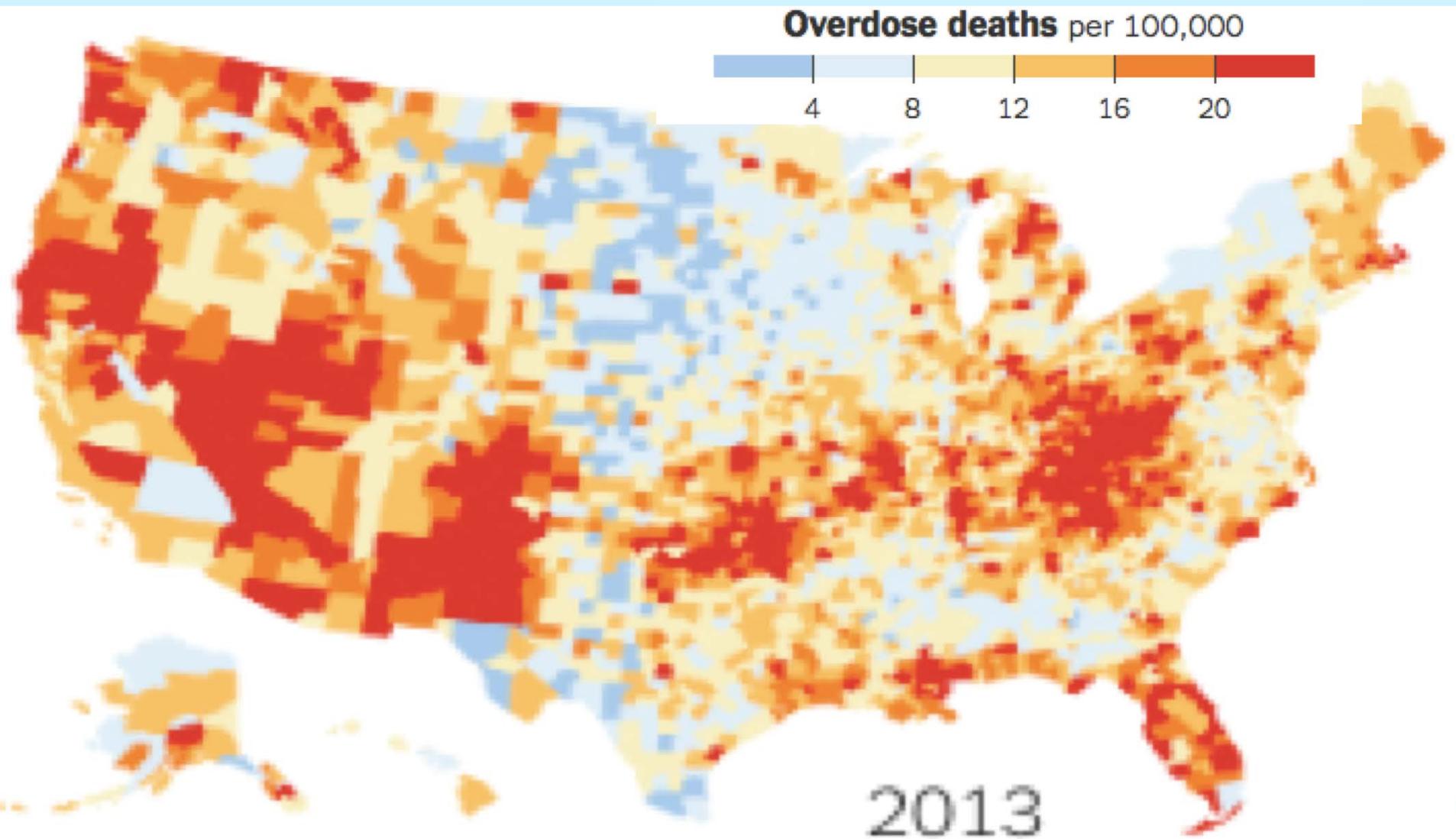
Opioid Analgesic OD Death Rates



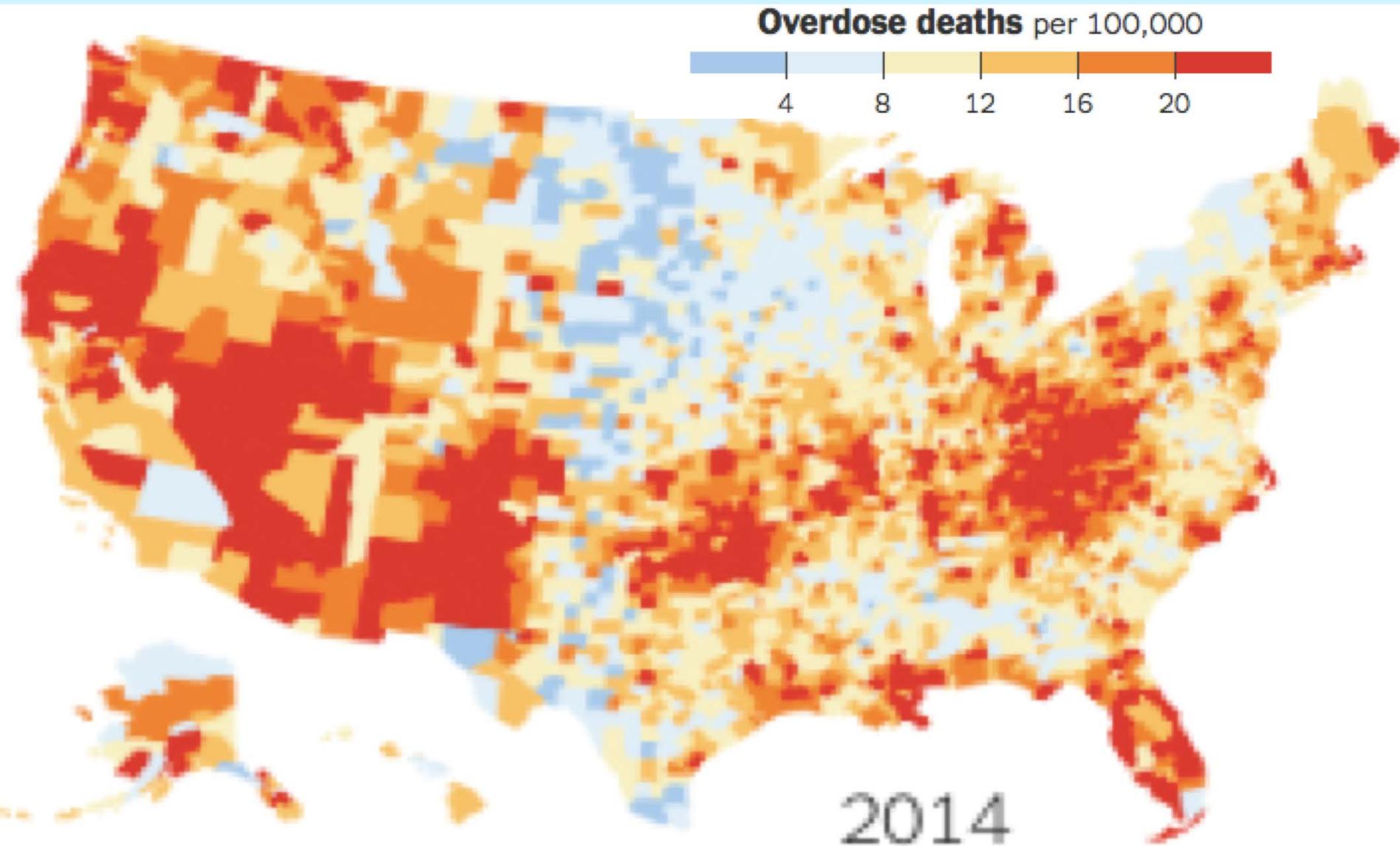
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Opioid Analgesic OD Death Rates

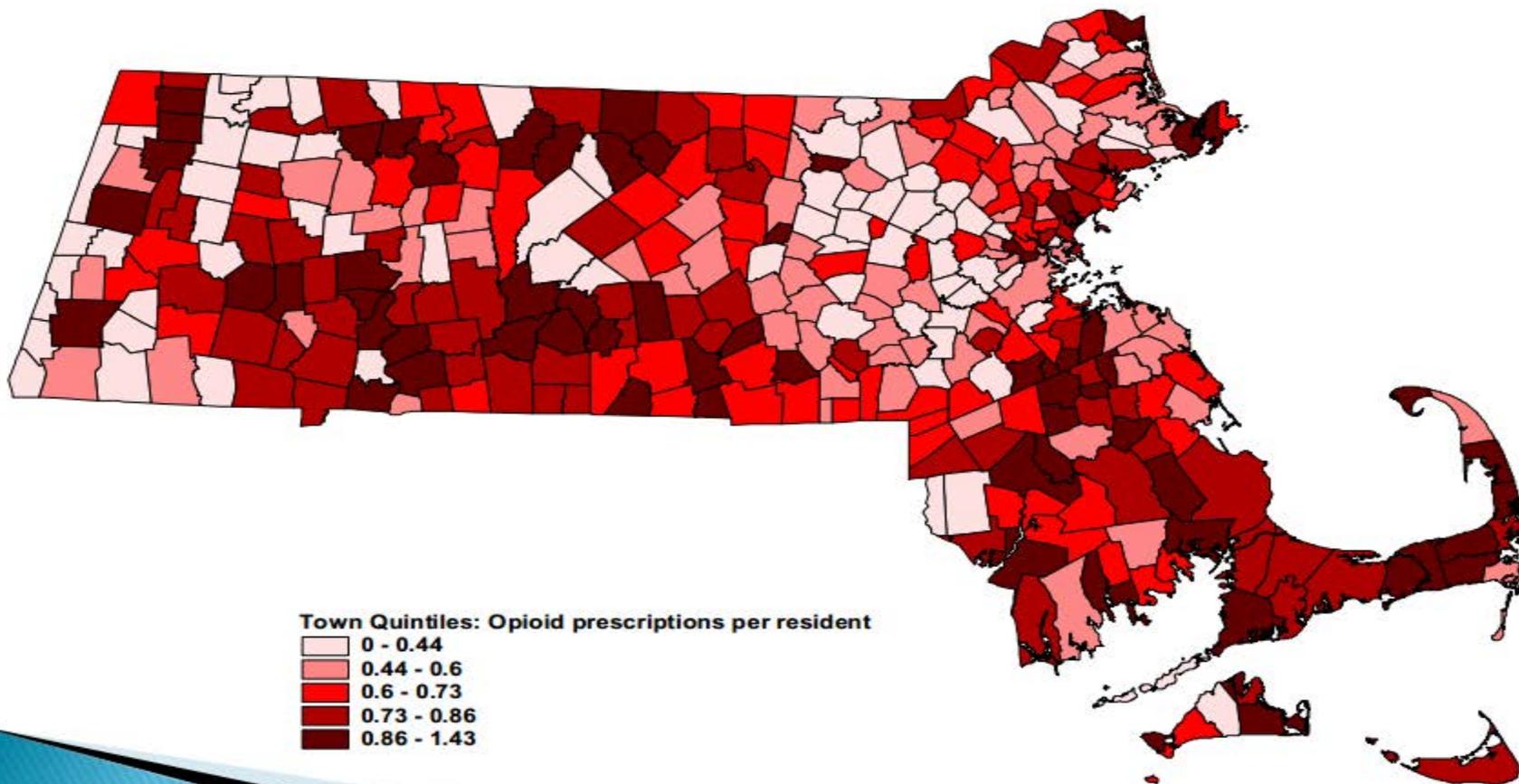


Opioid Analgesic OD Death Rates

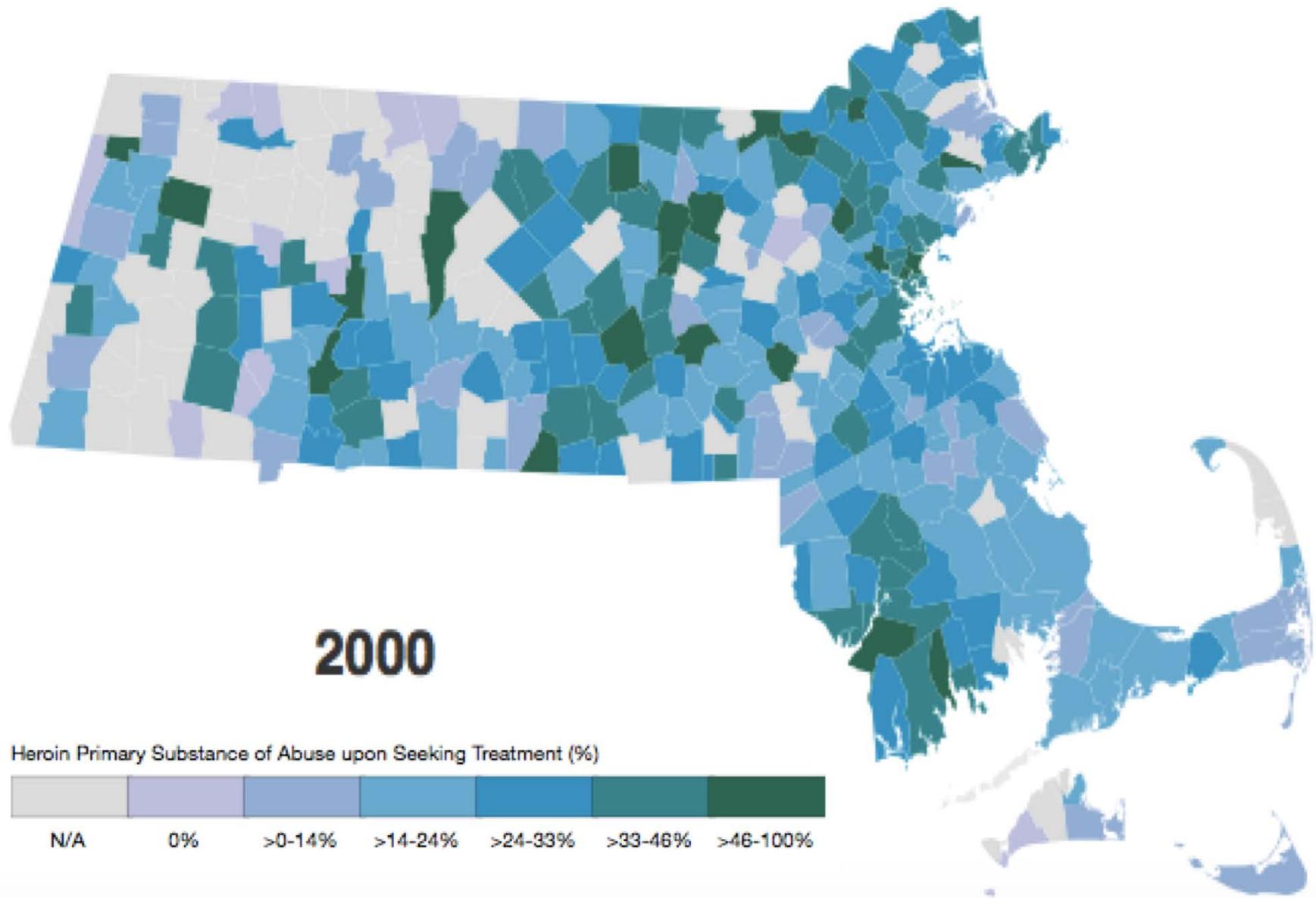


Right Here at Home

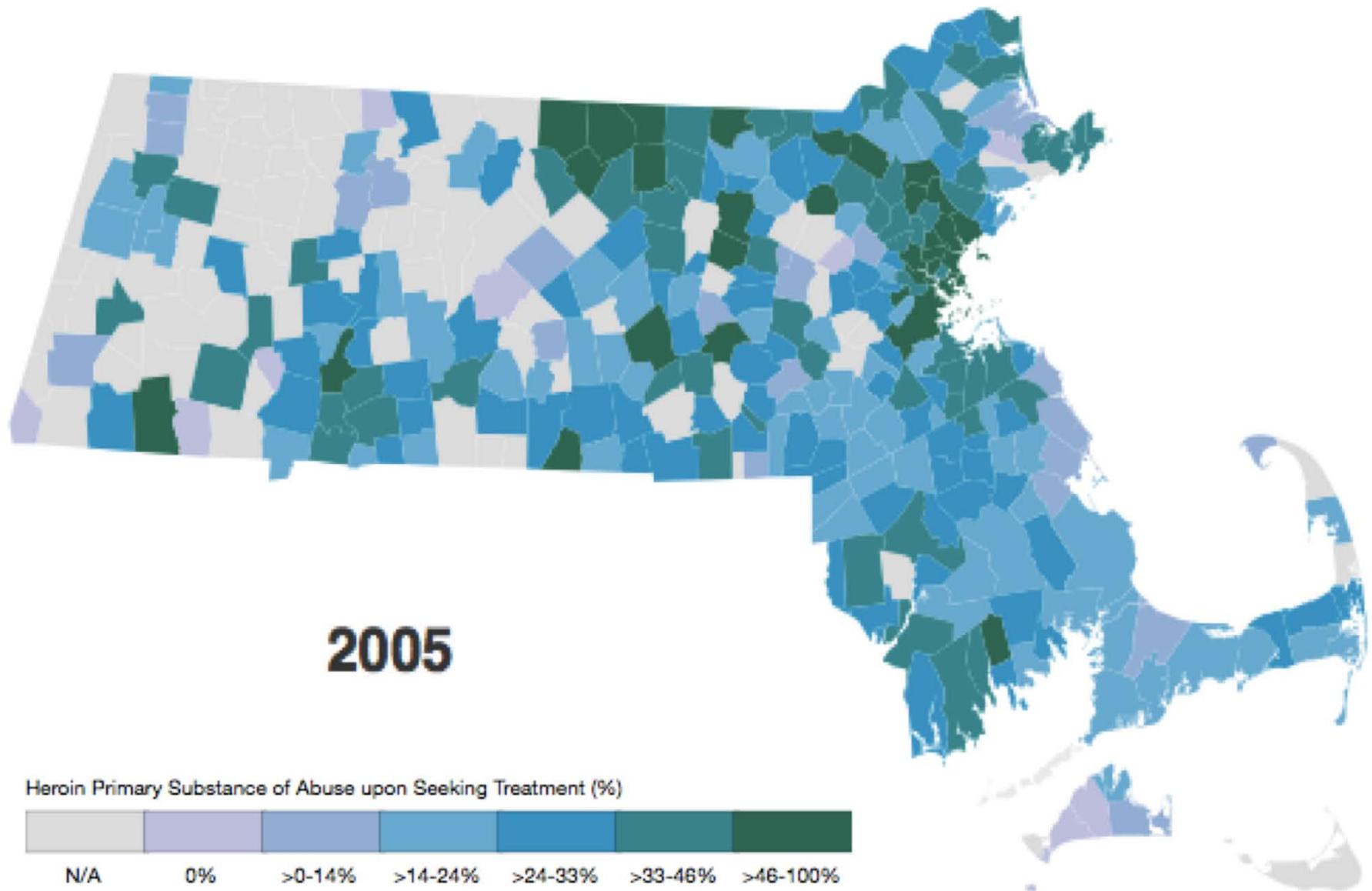
2012 Opioid Prescribing Rates: Number of Schedule II - V Opioid Prescriptions per Town Resident



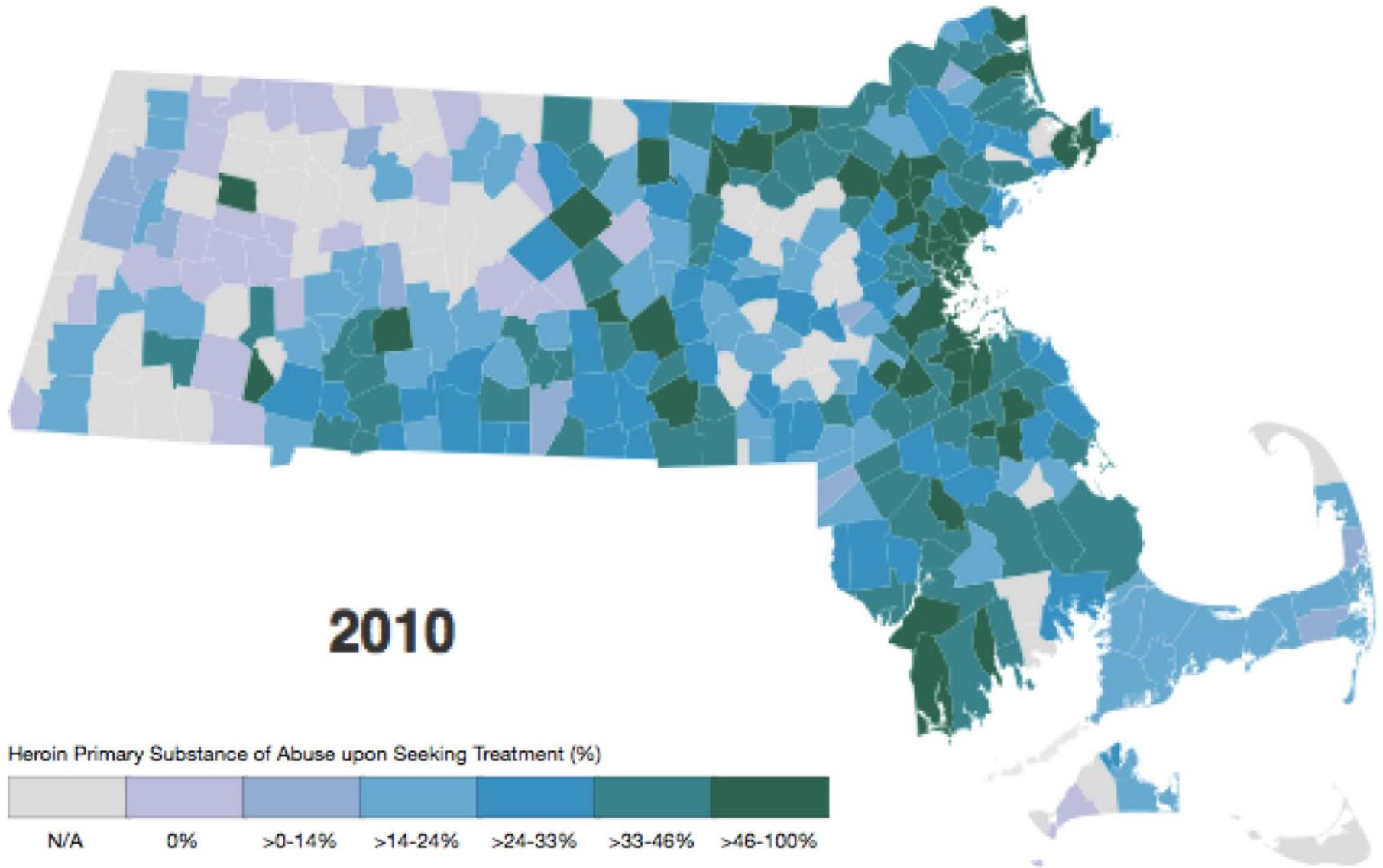
Percentage of Patients in Treatment Listing Heroin as their Primary Substance of Use



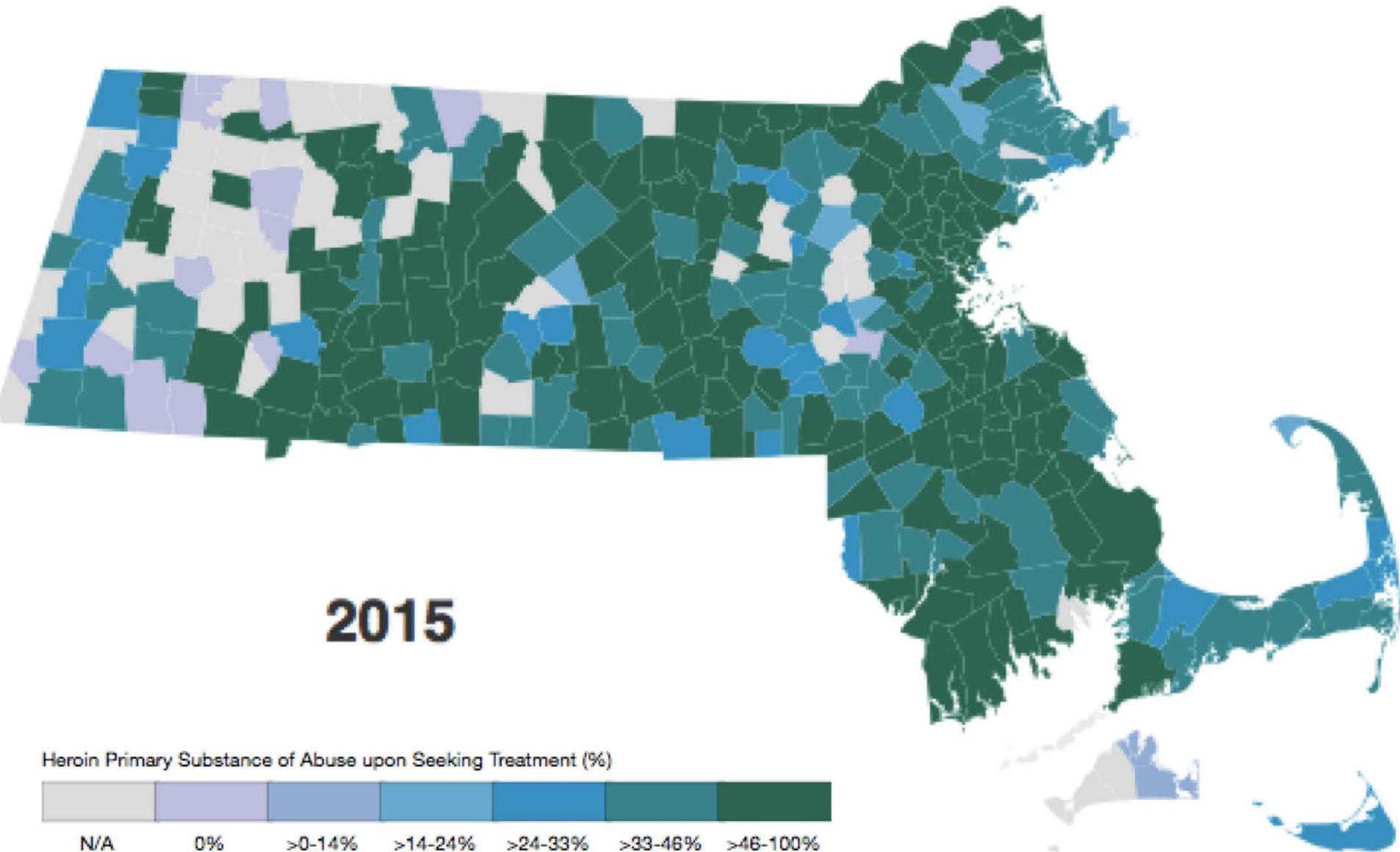
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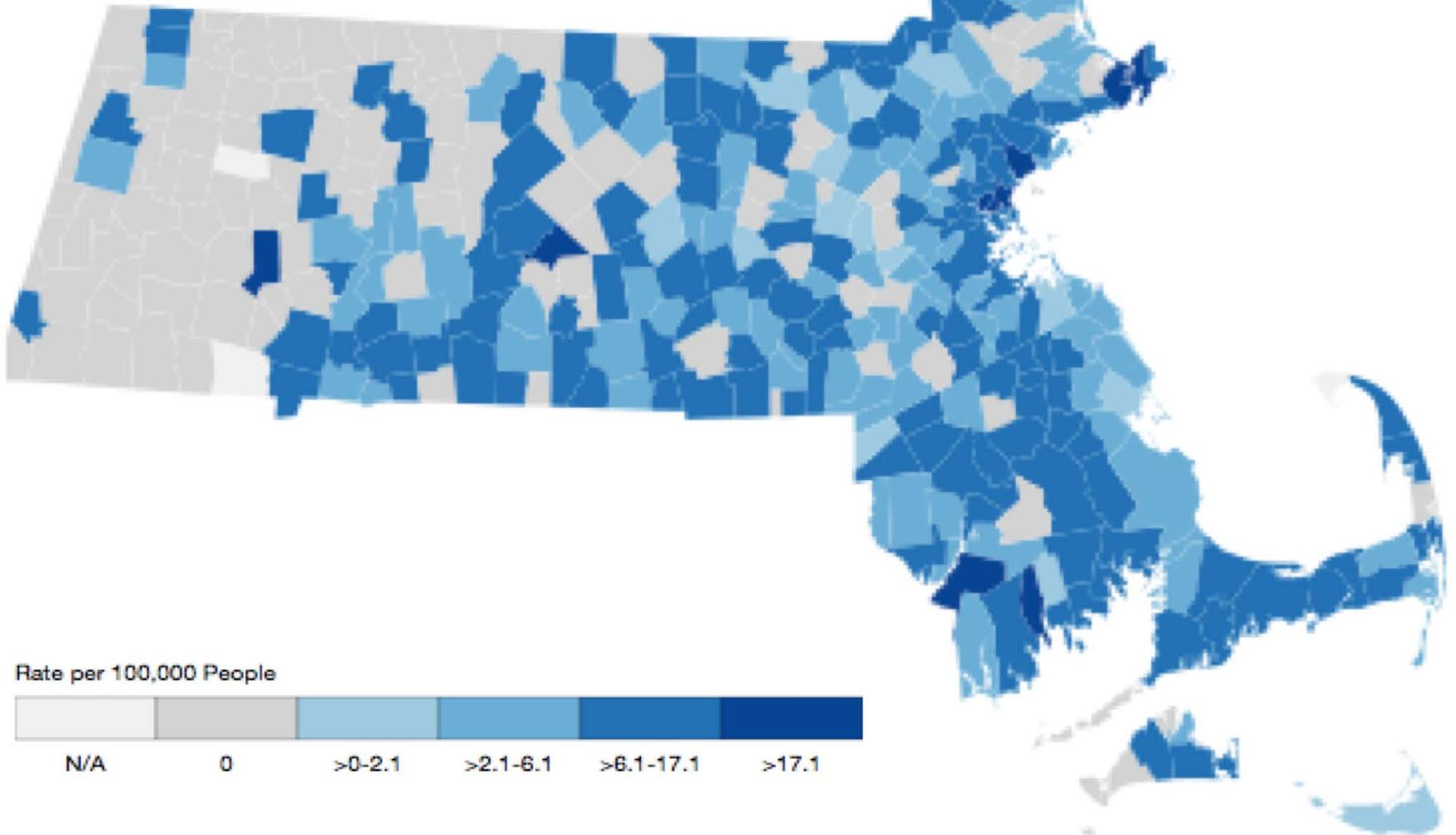


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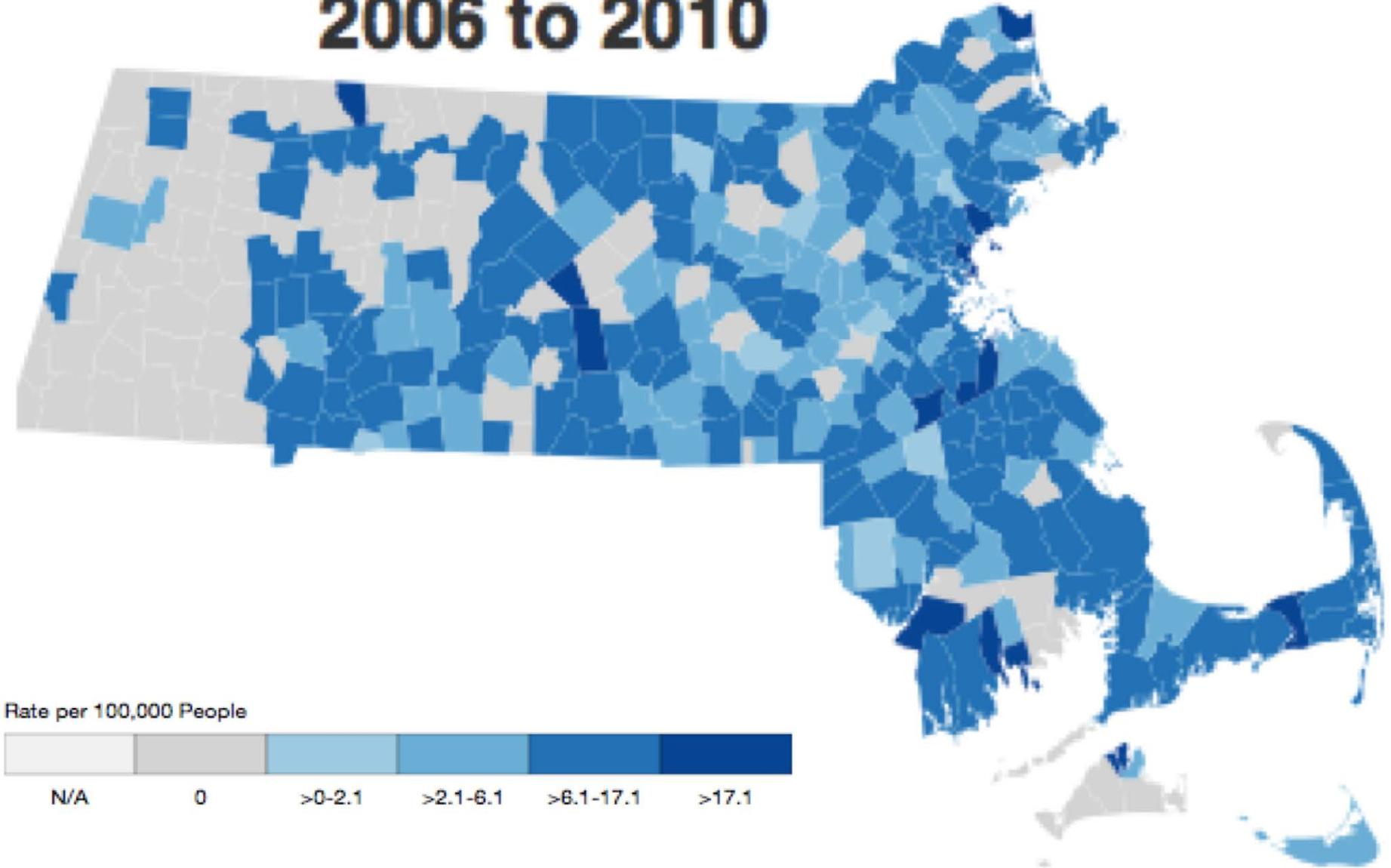
Unintentional Heroin Overdose Deaths in MA

2001 to 2005



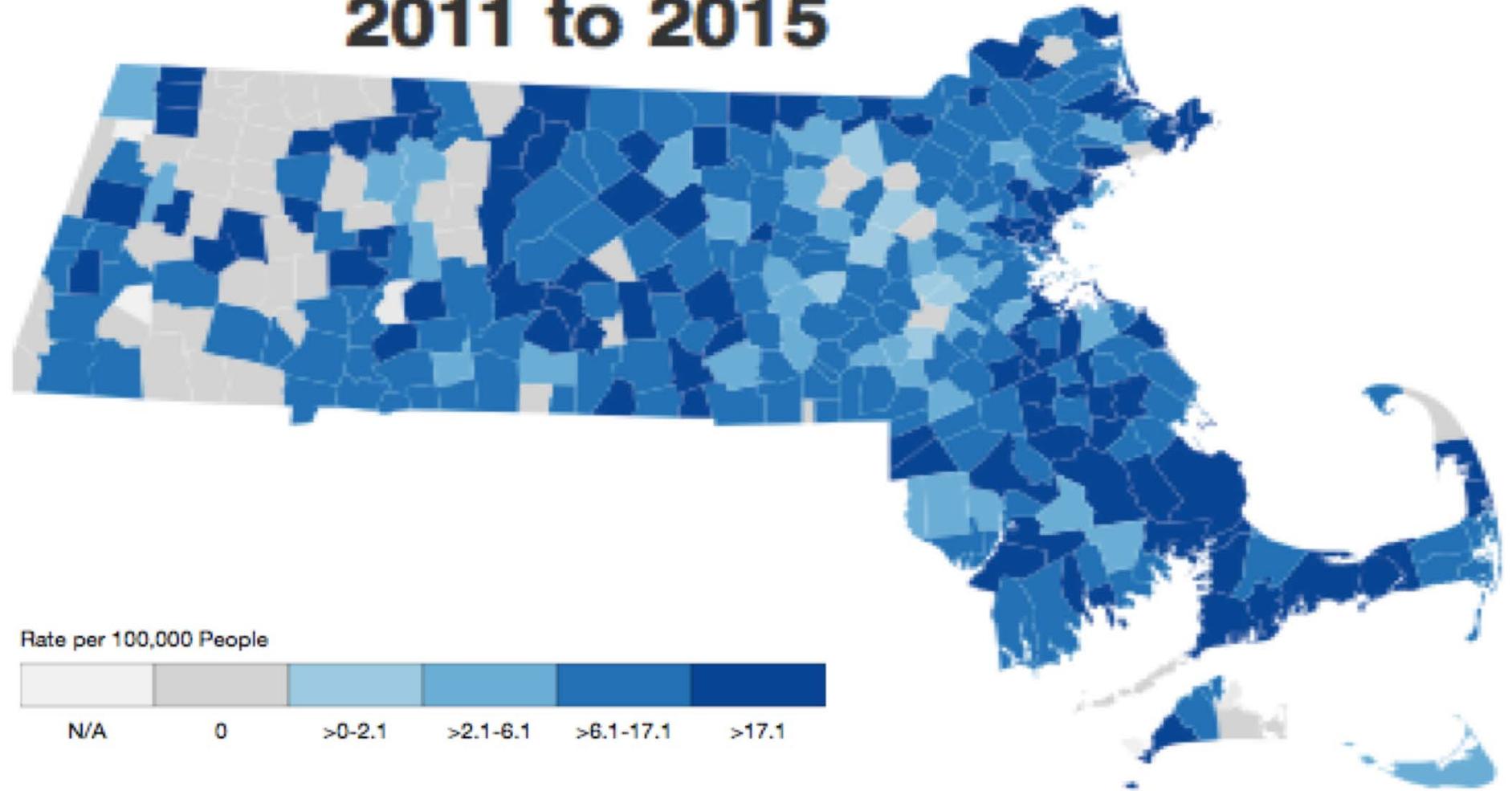
Unintentional Heroin Overdose Deaths in MA

2006 to 2010



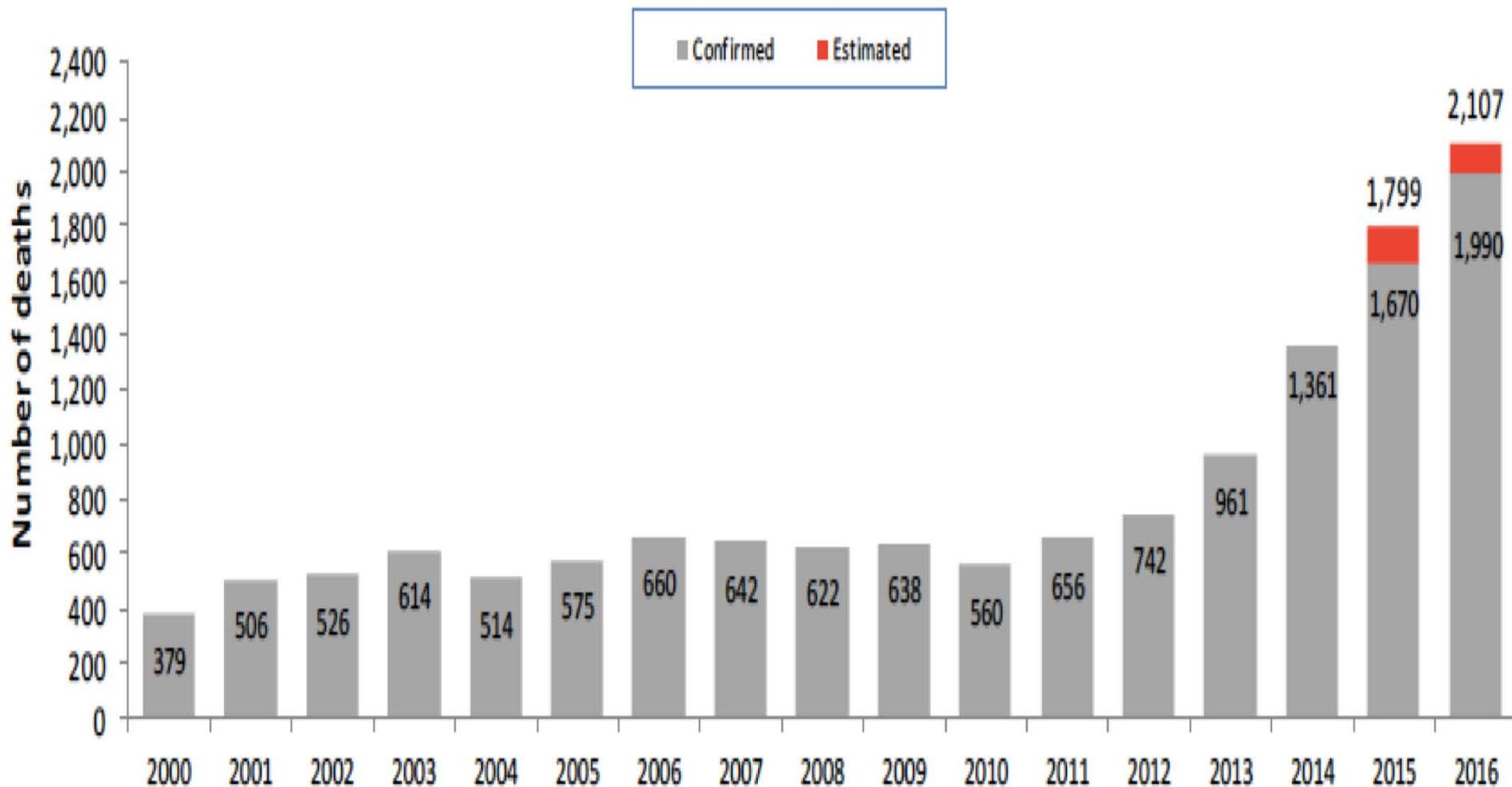
Unintentional Heroin Overdose Deaths in MA

2011 to 2015



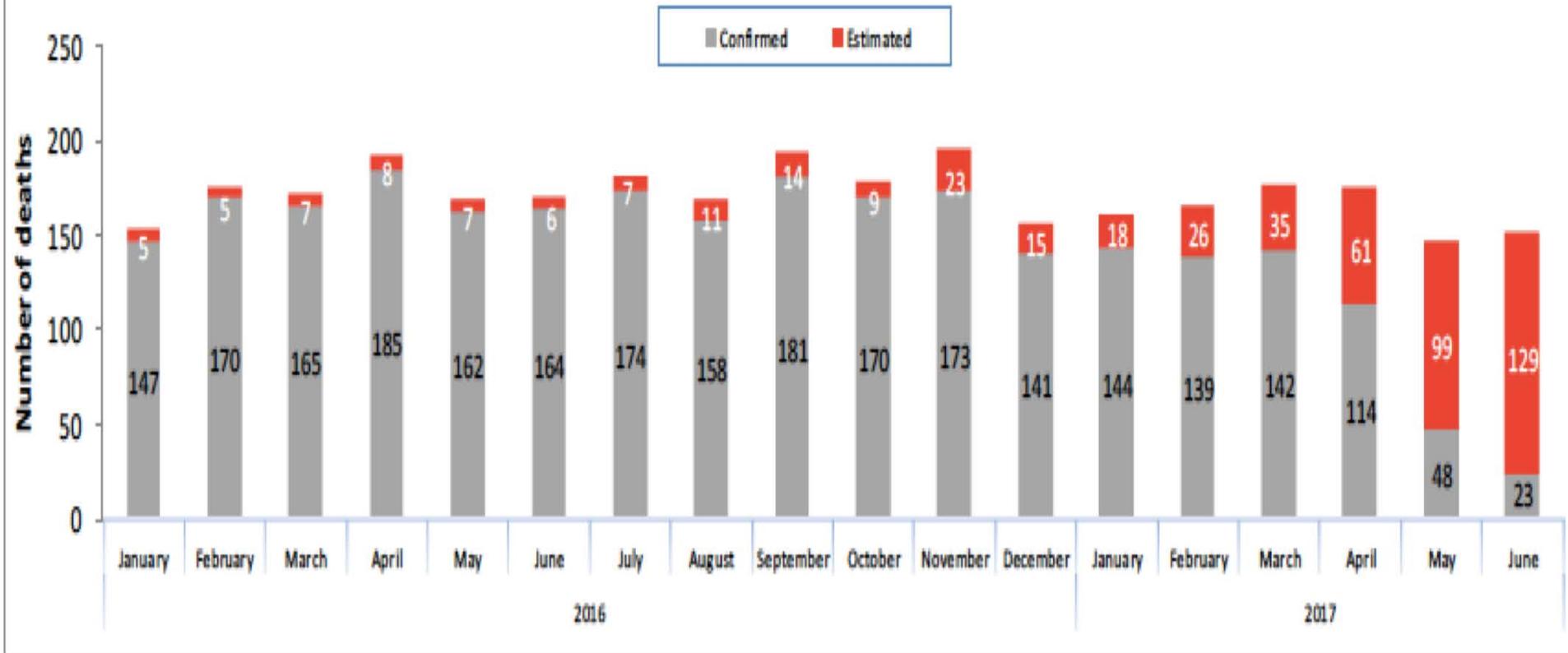
Unintentional Opioid Overdose Deaths in MA

Figure 1. Opioid¹-Related Deaths, All Intent
Massachusetts Residents: January 2000 - December 2016



Unintentional Opioid Overdose Deaths in MA

Figure 2. Opioid¹-Related Deaths, All Intents by Month
Massachusetts Residents: January 2016 - June 2017



The chart above shows month-by-month estimates for all intents from January 2016 through June 2017. For the first 6 months of 2017, there are 610 confirmed cases of all intents opioid-related overdose deaths and DPH estimates that there will be an additional 330 to 406 deaths.]

MA Opioid Overdose Deaths by Age January – December 2016

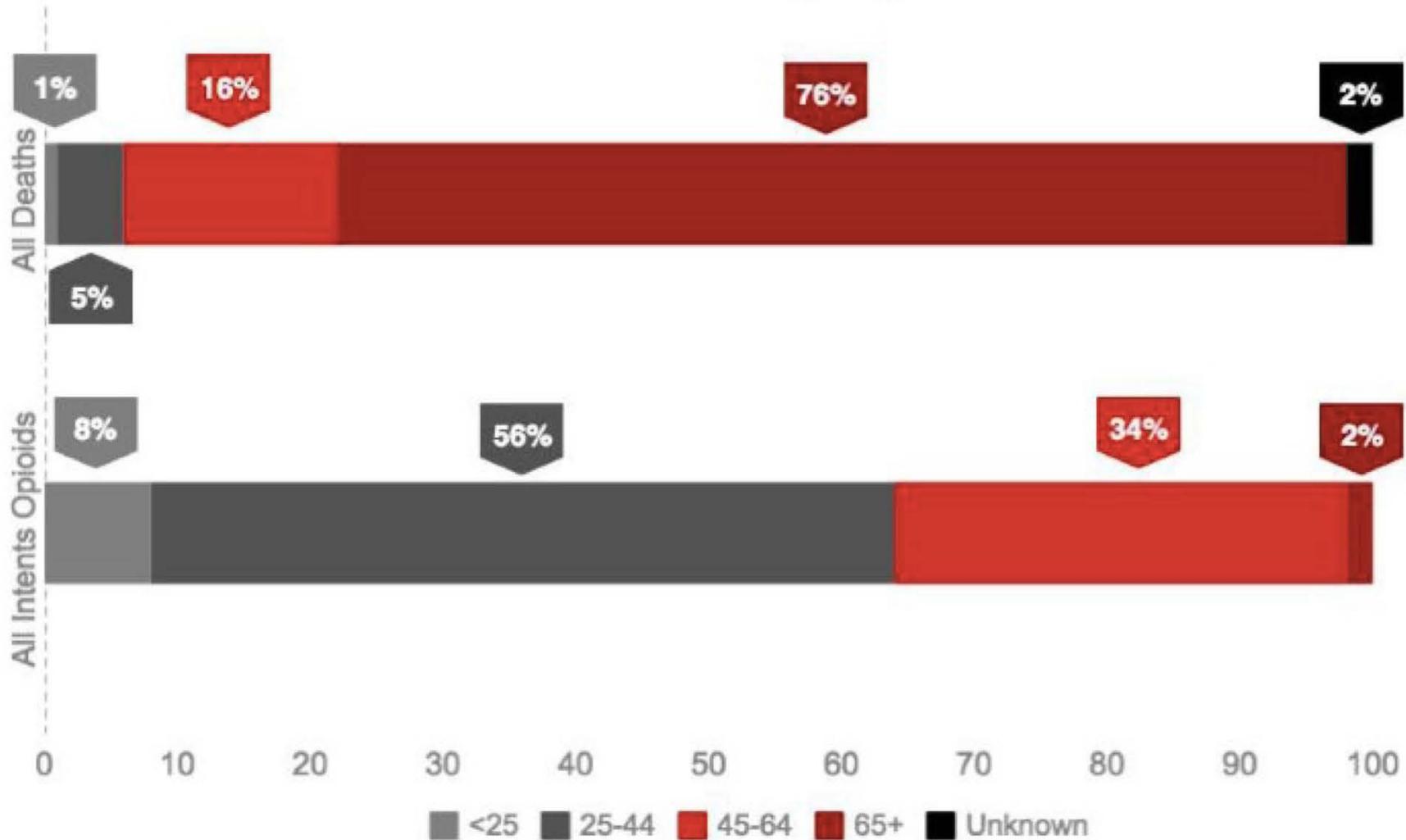
Confirmed Opioid¹-Related Deaths, All Intent

Compared to All Deaths by Age: January 2016-December 2016

| | Deaths by Age: January 2016-December 2016 | | | | | | | | |
|---|---|-------|-------|-------|-------|-------|--------|---------|--------|
| | 0-14 | 15-24 | 25-34 | 35-44 | 45-54 | 55-64 | 65+ | Unknown | Total |
| All Deaths | 370 | 463 | 1,196 | 1,400 | 3,031 | 6,009 | 43,014 | 1,317 | 56,800 |
| Confirmed Opioid ¹ -Related Deaths, All Intent | 1 | 150 | 596 | 480 | 402 | 258 | 32 | 14 | 1,933 |

MA Opioid Overdose Deaths by Age January – December 2016

Deaths by Age



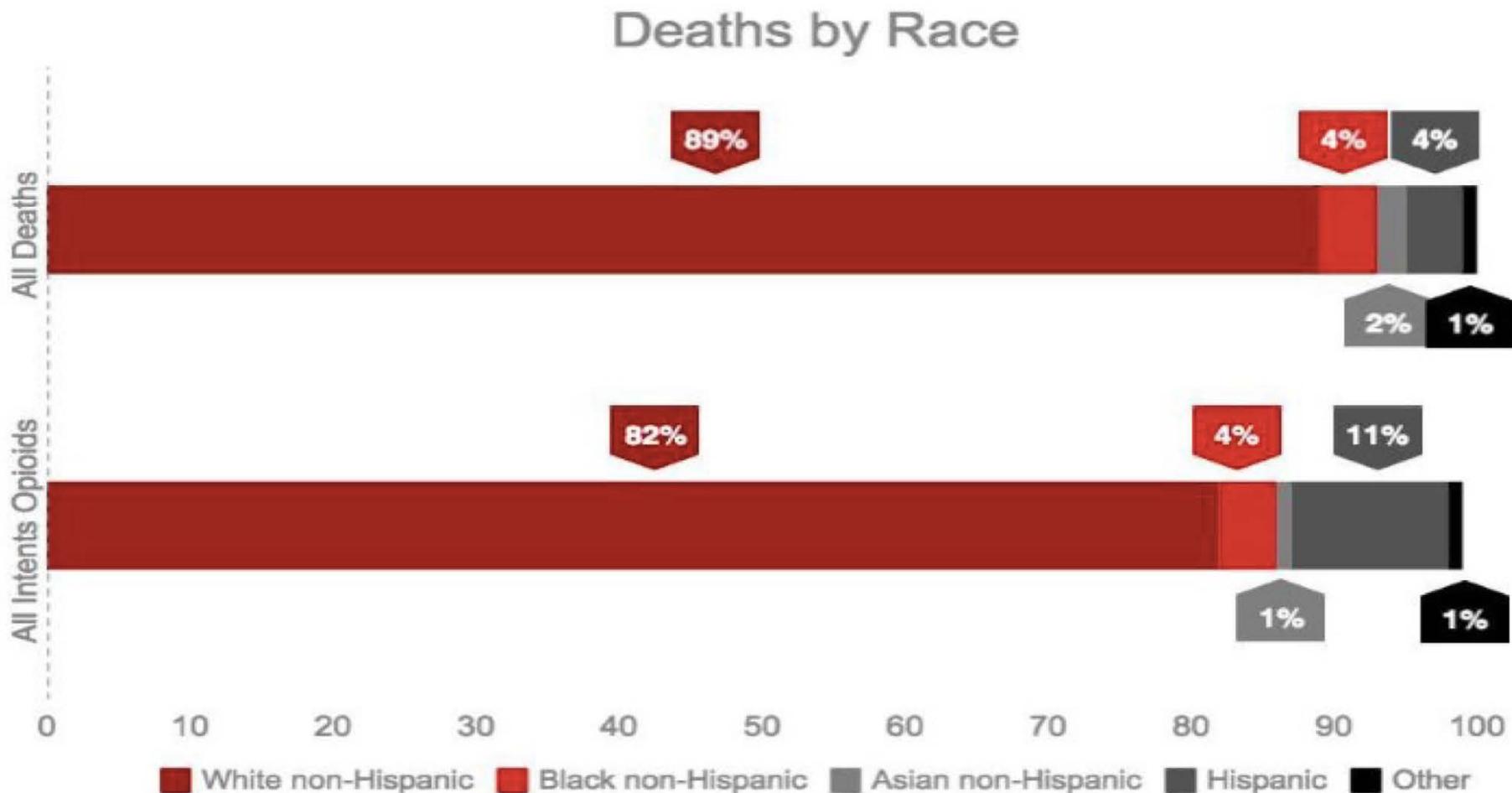
MA Opioid Overdose Deaths by Race January – December 2016

Confirmed Opioid¹-Related Deaths, All Intent

Compared to All Deaths by Race: January 2016-December 2016

| | White non- Hispanic | Black non- Hispanic | Asian non- Hispanic | Hispanic | Other/ Unknown | Total |
|--|---------------------------|---------------------------|---------------------------|----------|-------------------|--------|
| All Deaths | 50,527 | 2,502 | 1,028 | 2,111 | 632 | 56,800 |
| Confirmed Opioid ¹ -Related Deaths, All Intent | 1,590 | 82 | 14 | 221 | 26 | 1,933 |

MA Opioid Overdose Deaths by Race January – December 2016



Note: Due to rounding, percentages under "All Intents Opioids" do not add up to 100%.

¹ Opioids include heroin, opioid-based prescription painkillers, and other unspecified opioids.

MA Prescription Monitoring Program County-Level Data

| County (County classifications are by patient zip code; patient state must also = MA) | Census Population | Total Schedule II Opioid Prescriptions | Total Number of Schedule II Opioid Solid Dosage Units | Individuals Receiving Schedule II Opioid Prescription | % of Individuals Receiving Schedule II Opioid Prescription (of total population) | Individuals with Activity of Concern | Rate of Individuals with Activity of Concern (per 1,000) |
|---|--------------------------|---|--|--|---|---|---|
| Barnstable | 214,990 | 113,486 | 7,068,323 | 30,146 | 14.0 | 465 | 15.4 |
| Berkshire | 130,016 | 63,015 | 3,627,531 | 14,932 | 11.5 | 160 | 10.7 |
| Bristol | 552,780 | 299,070 | 19,065,988 | 72,151 | 13.1 | 1,107 | 15.3 |
| Dukes | 17,256 | 8,704 | 595,884 | 2,462 | 14.3 | 22 | 8.9 |
| Essex | 762,550 | 288,345 | 17,208,100 | 84,517 | 11.1 | 946 | 11.2 |
| Franklin | 71,221 | 41,938 | 2,658,966 | 10,000 | 14.0 | 121 | 12.1 |
| Hampden | 467,319 | 285,285 | 17,770,362 | 71,999 | 15.4 | 1,162 | 16.1 |
| Hampshire | 159,596 | 75,911 | 5,164,695 | 17,855 | 11.2 | 189 | 10.6 |
| Middlesex | 1,552,802 | 427,499 | 25,593,366 | 139,180 | 9.0 | 1,515 | 10.9 |
| Nantucket | 10,399 | 4,548 | 218,004 | 1,369 | 13.2 | 5 | 3.7 |
| Norfolk | 681,845 | 241,216 | 15,159,612 | 72,975 | 10.7 | 923 | 12.6 |
| Plymouth | 501,915 | 235,010 | 14,937,973 | 66,038 | 13.2 | 1,039 | 15.7 |
| Suffolk | 755,503 | 232,597 | 15,049,960 | 72,114 | 9.5 | 1,050 | 14.6 |
| Worcester | 809,106 | 332,626 | 23,336,013 | 88,395 | 10.9 | 1,264 | 14.3 |
| MA | 6,745,408 | 2,653,358 | 167,737,123 | 733,783 | 10.9 | 9,968 | 13.6 |

MA Prescription Monitoring Program County-Level Data

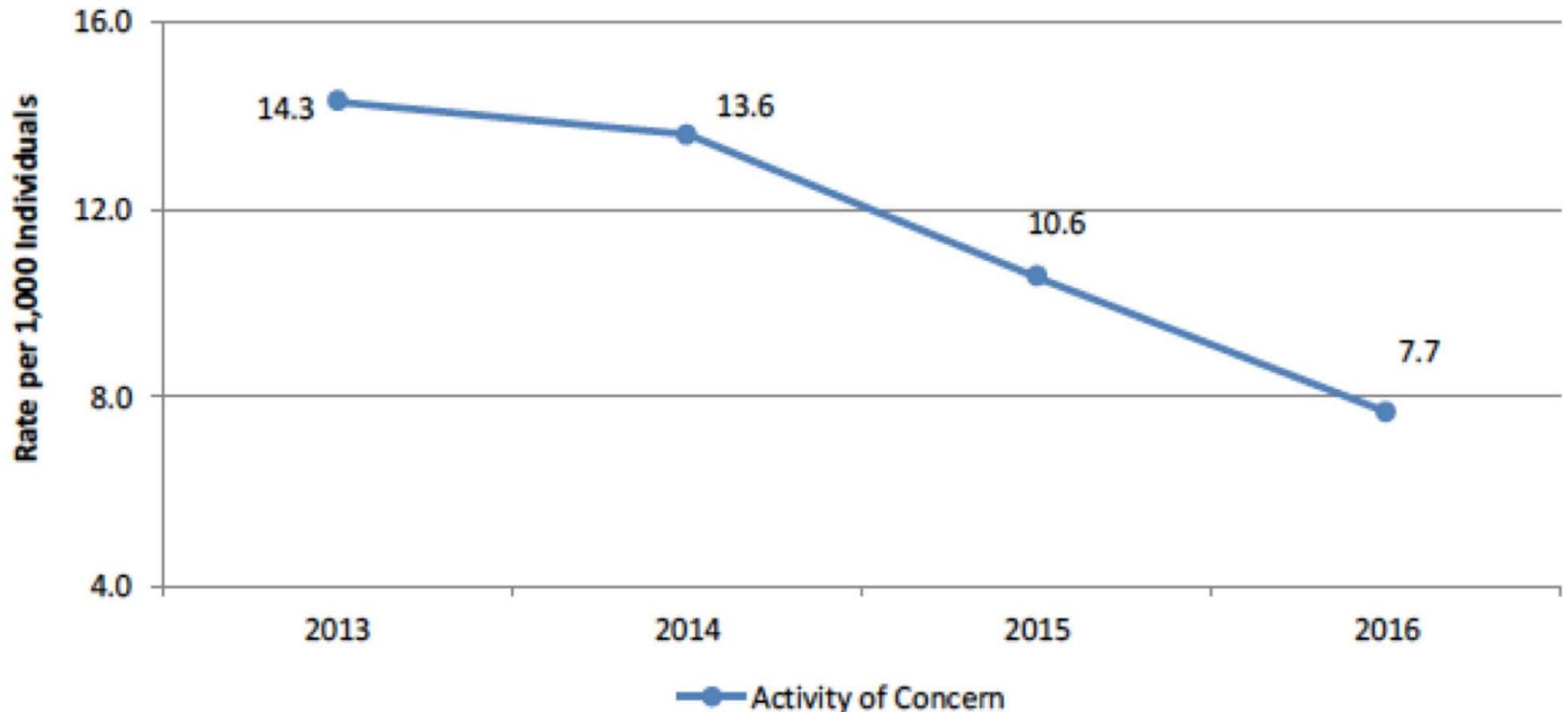
May 2017

MA Prescription Monitoring Program: April 2017 – June 2017

| County (County classifications are by patient zip code; patient state must also = MA) | Census Population | Total Schedule II Opioid Prescriptions | Total Number of Schedule II Opioid Solid Dosage Units | Individuals Receiving Schedule II Opioid Prescription | % of Individuals Receiving Schedule II Opioid Prescription (of total population) | Individuals with Activity of Concern | Rate of Individuals with Activity of Concern (per 1,000) |
|--|-------------------|--|---|---|--|--------------------------------------|--|
| Barnstable | 214,276 | 25,374 | 1,432,643 | 11,414 | 5.3 | 19 | 1.7 |
| Berkshire | 126,903 | 14,892 | 810,777 | 6,476 | 5.1 | <5 | NR |
| Bristol | 558,324 | 73,990 | 4,487,217 | 31,267 | 5.6 | 21 | 0.7 |
| Dukes | 17,246 | 1,611 | 92,592 | 817 | 4.7 | <5 | NR |
| Essex | 779,018 | 75,312 | 4,136,184 | 34,760 | 4.5 | 22 | 0.6 |
| Franklin | 70,382 | 10,024 | 595,653 | 4,054 | 5.8 | <5 | NR |
| Hampden | 468,467 | 62,565 | 3,655,319 | 26,649 | 5.7 | 29 | 1.1 |
| Hampshire | 161,816 | 17,446 | 1,093,030 | 7,128 | 4.4 | <5 | NR |
| Middlesex | 1,589,774 | 106,900 | 5,757,663 | 53,556 | 3.4 | 45 | 0.8 |
| Nantucket | 11,008 | 1,105 | 43,538 | 541 | 4.9 | <5 | NR |
| Norfolk | 697,181 | 57,327 | 3,253,694 | 27,724 | 4.0 | 31 | 1.1 |
| Plymouth | 513,565 | 55,172 | 3,266,634 | 25,454 | 5.0 | 21 | 0.8 |
| Suffolk | 784,230 | 51,803 | 3,118,818 | 24,351 | 3.1 | 27 | 1.1 |
| Worcester | 819,589 | 84,729 | 5,379,002 | 37,678 | 4.6 | 35 | 0.9 |
| MA | 6,811,779 | 638,250 | 37,122,764 | 291,869 | 4.3 | 250 | 0.9 |

MA Prescription Monitoring Program County-Level Data

**Figure 3. Rate¹ of Individuals with Activity of Concern² in MA³
2013–2016**



¹ Rates of individuals with activity of concern are based on the population of individuals who have received one or more Schedule II opioid prescriptions.

² "Activity of Concern" is defined as an individual who received prescriptions for one or more Schedule II opioid drugs from four or more different prescribers and had them filled at four or more pharmacies during the specified time period.

³ Activity of concern rates include only MA Residents

Global Picture

Where Do Opioids Come From?



Opioids

Opiates:

Opium

Morphine

Codeine

Semi-Synthetic

Heroin

Hydrocodone

Hydromorphone

Oxycodone

Oxymorphone

Buprenorphine

Synthetic

Fentanyl

Methadone

Tramadol

Opioids Differ

| Drug | Duration | Potency |
|-----------|-------------|---------|
| Methadone | 24-32 hours | **** |
| Heroin | 6-8 hours | ***** |
| Oxycontin | 3-6 hours | ***** |
| Codeine | 3-4 hours | * |
| Demerol | 2-4 hours | ** |
| Morphine | 3-6 hours | *** |
| Fentanyl | 2-4 hours | ***** |

Most Widely-used Opioids in the U.S.

- Vicodin – A powerful pain reliever prescribed for acute episodes of pain (injury, post surgery) and chronic pain. Most abused prescription in the U.S. (Hydrocodone and Acetaminophen)
- OxyContin – A powerful opiate originally formulated to time-release its effects. Easily overridden and abused. New formulations have made OxyContin less desirable on the streets, contributing to an increase in heroin and fentanyl.
- Heroin – The most widely used non-prescription opiate. It is estimated that more than half of people currently using heroin began opiate use from a prescription.

The Current Nightmare
FENTANYL



Origins of Fentanyl

- Developed in 1959 in Belgium by Dr. Paul Janssen
 - Analgesic 50 x stronger than morphine
 - Many times more powerful than heroin and far cheaper and easier to manufacture
- Quickly adopted in medical settings as a pain reliever and intravenous anesthetic (Sublimaze)

A Young Pain-killer Grows Up

- Analogues are quickly developed
 - Slight molecular reformulation of fentanyl to enhance different effects
- Duragesic® is developed in 1992
 - Delivers fentanyl via a transdermal patch
 - Used in chronic pain management
- Actiq® available to the public in 1999
 - Dissolved in the mouth (fentanyl lollipop)
 - Intended for opioid-tolerant individuals
 - Found effective in treating breakthrough pain in cancer patients, because of its potency.

The Darker Path

- Illicit use of pharmaceutical fentanyl first appeared in the mid-1970s in the medical community.
- The first documented presence of fentanyl on the streets was in Los Angeles, CA 1979 under the name of “*China White*”.

The Evil Analogues

In addition to the many legal analogues produced over the years at least 12 different illegal fentanyl analogues have been identified by law enforcement in the U.S.

Analogues are sometimes produced to circumvent the various regulations in a variety of countries. The U.S. has laws to circumvent this effort.

The source for many of these analogues are clandestine laboratories in countries like Mexico and “legitimate” factories in China.

The China Connection

Chinese companies are:

- **Pressing various analogues into pills and selling online to a variety of countries including the U. S.**
- **Where the pills can not be sold, companies are selling key ingredients to assist people in manufacturing their own analogues.**
- **Companies are also selling machinery used to press pills and mold plates for a variety of legal pills.**

Black Market Fentanyl Economics

Traffickers manufacturing Fentanyl often purchase key ingredients from China, which does not regulate its sale.

A small investment in ingredients, can translate to a tremendous profit margin . . .

From the Drug Dealer's Perspective

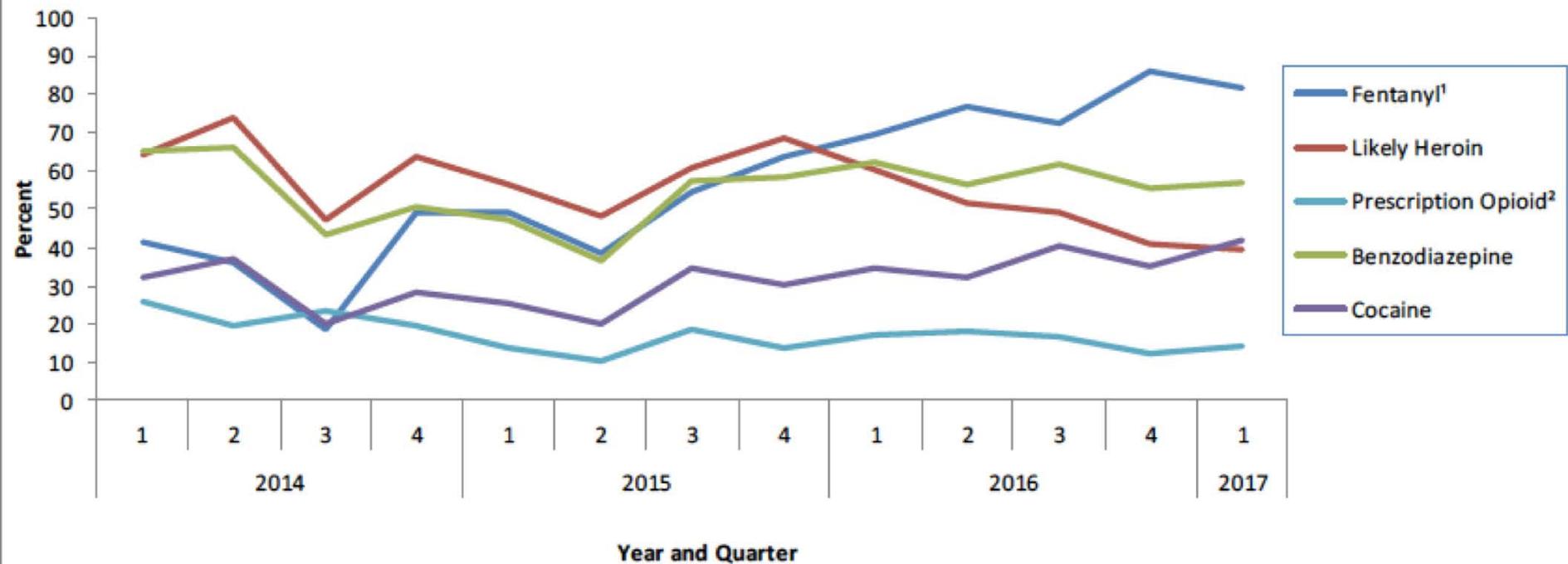
- Heroin is expensive to produce and import
 - Plants, cultivation, harvesting, refining, importing
- Chemicals can be shipped into the U.S. or other countries cheaply
- It's potency makes volumes easier to ship (cars instead of trucks, planes vs. boats)

Who's Buying and Manufacturing?

- **Variety of companies in China are manufacturing and exporting with little regulation**
- **Small cells in the U.S. and Canada, individuals or small crews around the countries**
- **Larger cartels in Central and South America, mostly Mexico and most of that product ends up in the U.S and Canada.**
- **Because it is so much cheaper to produce than heroin and 50 -120 x more potent than morphine, fentanyl is often times being used to “cut” heroin or replace it entirely.**

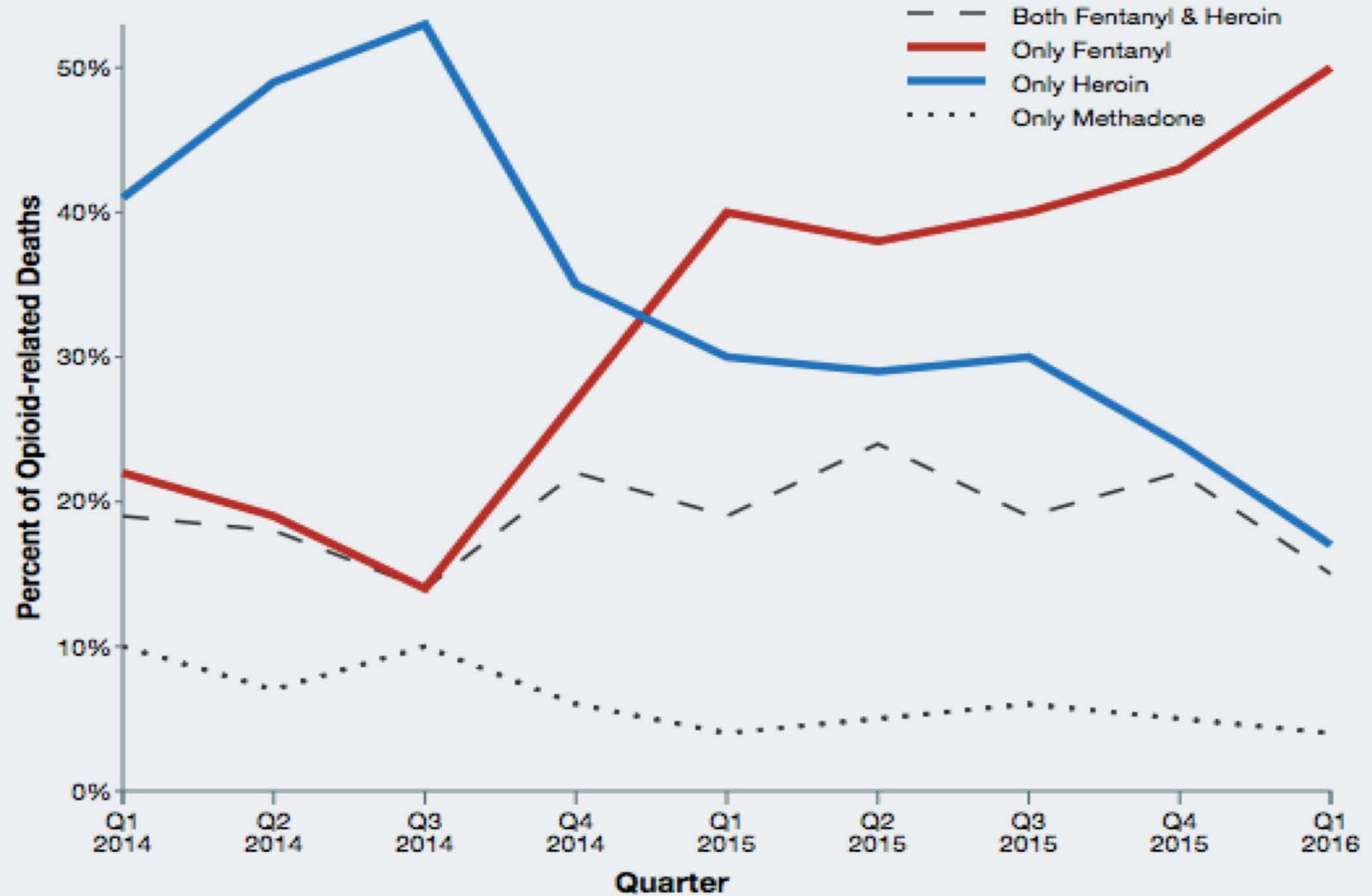
Drugs Present in Opioid Overdose Deaths

**Figure 4. Percent of Opioid Deaths with Specific Drugs Present
MA: 2014-2017**

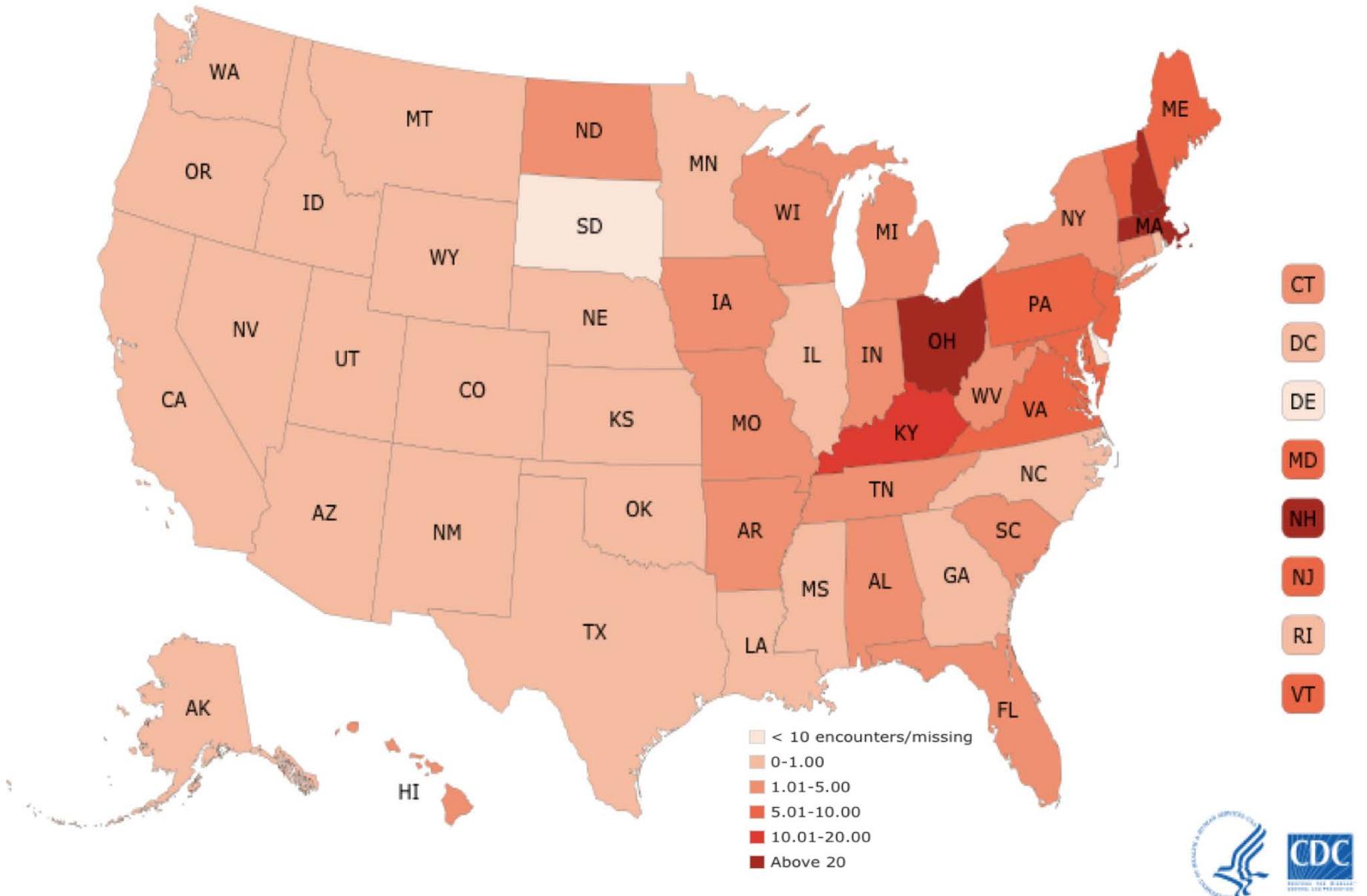


1. This is most likely illicitly produced and sold, not prescription fentanyl
 2. Prescription opioids include: hydrocodone, hydromorphone, oxycodone, oxymorphone, and tramadol
 Please note that previous estimates may change slightly as DPH routinely receives updated toxicology data from the Office of the Chief Medical Examiner and the Massachusetts State Police.

MA Toxicology Data Post Mortem



Fentanyl Report in NFLIS by State 2016



Top 10 states by total Fentanyl Seizures, 2016

| Rank | State | Number of Fentanyl seizure |
|-------------|---------------|-----------------------------------|
| 1 | Ohio | 1355 |
| 2 | Massachusetts | 870 |
| 3 | Pennsylvania | 449 |
| 4 | Maryland | 402 |
| 5 | New Jersey | 390 |
| 6 | Kentucky | 252 |
| 7 | Virginia | 243 |
| 8 | Florida | 209 |
| 9 | New Hampshire | 198 |
| 10 | Indiana | 144 |

The Impact Massachusetts

- A continued drop in death rates involving **heroin**, which have decreased at approximately the same rate that **fentanyl**-related deaths have increased.
- A continued rise in the number of fentanyl-related deaths with **88-89 percent of deaths** in Q4 of FY16 that had a toxicology screen showing a positive result for **fentanyl**.

What's the Difference?

Heroin

- Derived from the alkaloids found in the Poppy plant.
- Formulated to be 15 times stronger than morphine**
- Schedule I drug with no recognized legitimate use
- Stimulates opioid receptors in the brain & brainstem
- Will show up on a routine general opioid screening test

Fentanyl

- Human made through chemicals
- Formulated to be 100 times stronger than morphine
- Schedule II drug with limited medical use
- Stimulates opioid receptors in the brain & brainstem
- Will **NOT** show up on a routine general opioid screening test

The Catch

What makes fentanyl different from other opioids?

- Fentanyl binds faster than any other opiate for an elevated feeling of euphoria
- Fentanyl is 50 -120x stronger than Morphine and 25-50x stronger than Heroin
- Smaller margin for error regarding overdose

What Sets Fentanyl Apart



Amounts required for a lethal overdose

What Sets Fentanyl Apart

Fentanyl works exactly like all other opioids, just significantly faster which is what makes it more “potent”.

Where overdose from other opioids usually takes 1 to 3 hours, overdose from fentanyl can occur in as little as **5 to 10 minutes**.

What Sets Fentanyl Apart

Wood Chest

Fentanyl Induced Chest Wall Rigidity

- A condition which causes a seizing of the chest muscles
- Makes rescue breathing and CPR ineffective
- Can be reversed with Narcan

Why Overdoses Happen

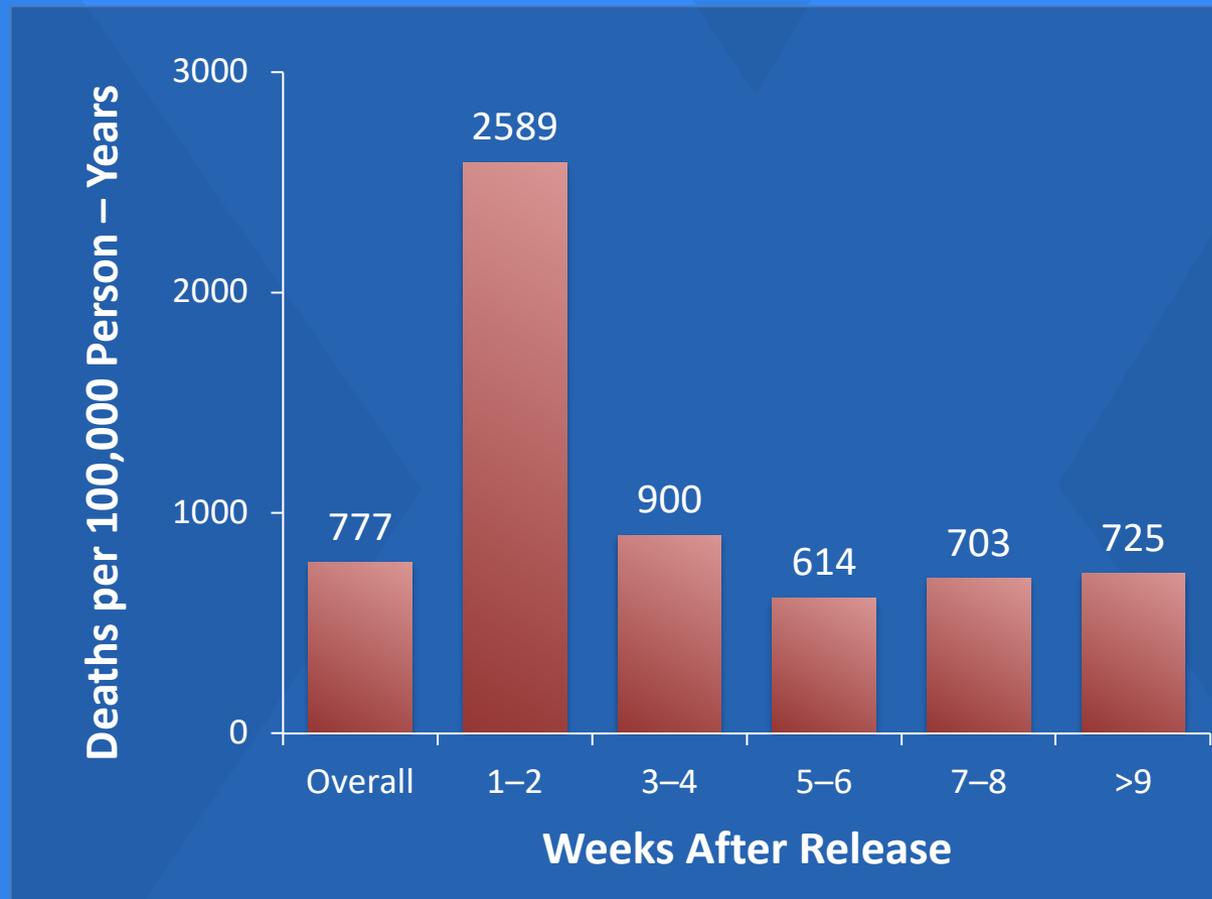
- Opioid overdose happens when a person takes so much opioid that their respiration slows and stops.
- Many don't know the purity or exact content of a drug
- Many drug users don't know the risks of mixing drugs and alcohol or Benzodiazepine
- Many overdose deaths happen because people who witness ODs don't know how to respond

When Overdoses Happen

- May happen 1-3 hours after use or quicker when fentanyl is involved (as little as 5 to 10 minutes)
- After periods of abstinence/relapse (after treatment stay, hospitalization, incarceration)
- New city/residential location
- New dealer/source
- New route of administration
- Post incarceration

Reentry and Drug Overdose

In the first 2 weeks post-release, a former inmate's risk for death by drug overdose = **129** times the risk for the general population.



Binswanger IA, Stern MF, Deyo RA, Heagerty PJ, Cheadle A, Elmore JG, Koepsell TD. *Release from prison-a high risk of death for former inmates.* N Engl J Med. 2007;356(2):157-165.

Top Overdose Risk Factors

- Using drugs alone – **use must be coordinated** – spaced out 10 minutes
- Misjudging body tolerance
- Poor physical health (advance liver damage, respiratory issues)
- Variation of substance
- Using an opioid with other depressants such as alcohol or benzodiazepines
- Cocaine is a stimulant but can contribute to overdose risk

What are Benzodiazepines?

- Class of prescription drugs that depress central nervous system and commonly used to treat anxiety and insomnia and alcohol detox
- Benzos are often misused, diverted or sold illegally
- Commonly used benzodiazepines are Xanax, Klonopin, Ativan, Valium, Librium
- Presents an extreme risk-factor for overdose when combined with any opioid

Signs of an Overdose

- **White/fair skin** – blue tint to the skin, eyelids and nail beds, deep bluing of the lips
- **Black/Brown skin** – grey tint to the skin, greying or deep purpling of the lips, vivid whitening of the nail beds
- Shallow breathing infrequent breathing or no breathing
- Shallow snoring, gurgling, labored breathing sounds – **DEATH RATTLE**
- Not responsive to loud sound or appropriate physical stimulation

Responding to an Overdose

Old Protocol

- Call 911
- Rescue breathing
- Administer Narcan
- Stay with the person until help arrives
- Recovery position as needed

New Protocol

- **ADMINISTER NARCAN FIRST THING**
- *Rescue breathing*
- *Call 911*
- Stay with the person until help arrives
- Recovery position as needed

Overdose: Most Critical Signs

1. Responsiveness to stimuli

1. Breathing

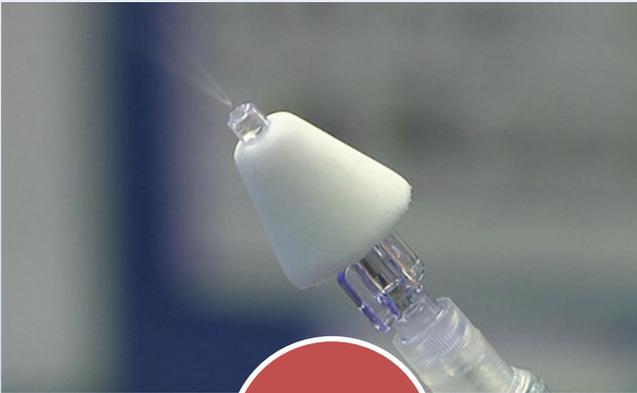
1 Recognize overdose?

Steps to teach patients, family, friends, caregivers

- If a person is not breathing or is struggling to breathe: call out name and rub knuckles of a closed fist over the sternum
- Look for signs of overdose
 - Slow or absent breathing
 - Gasping for breath or a snoring sound
 - Pinpoint pupils
 - Blue/gray lips and nails



When an Overdose Happens



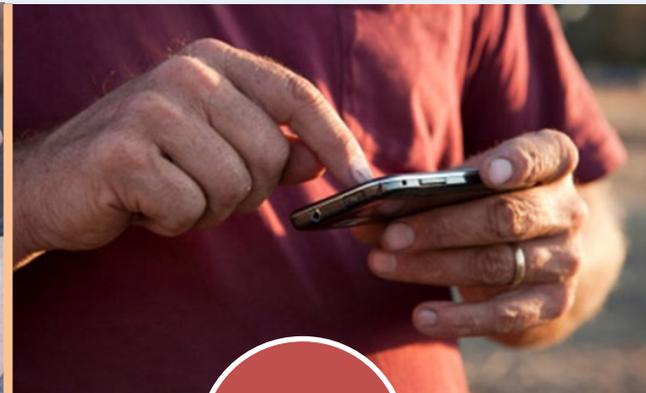
1

Administer
naloxone



2

Rescue
breathing



3

Call
911

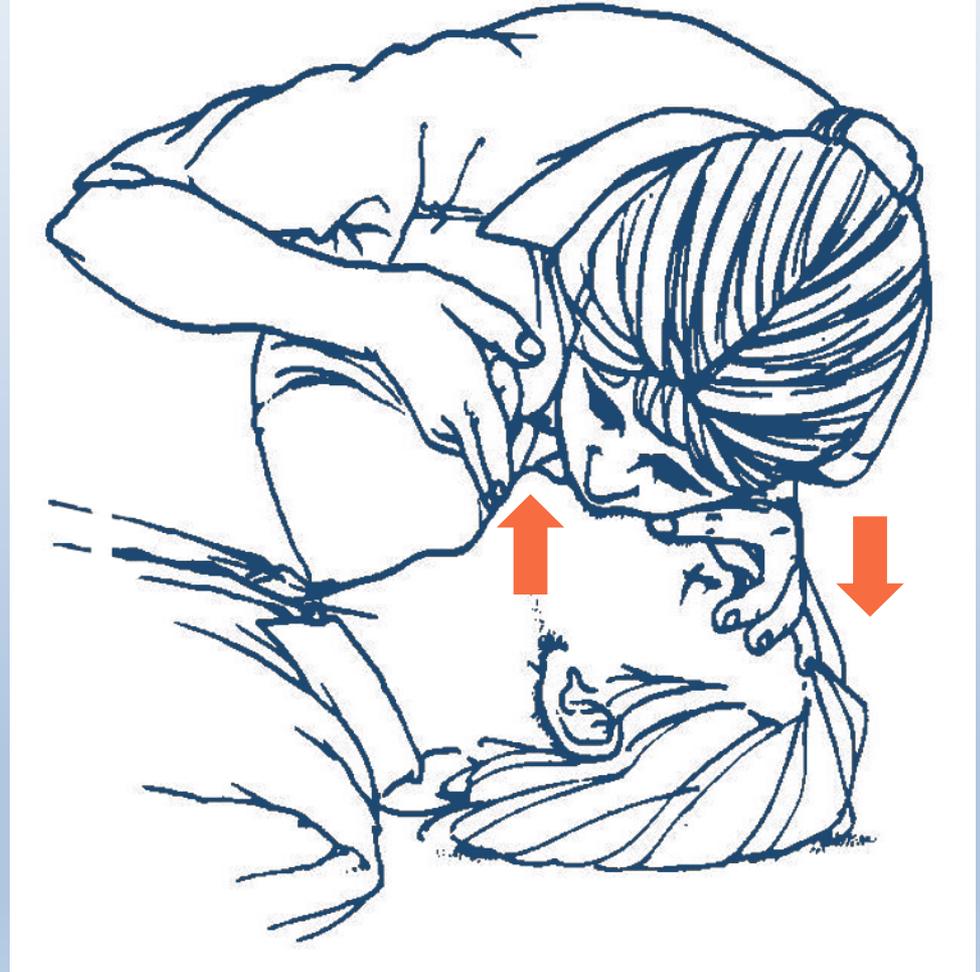
Rescue Breathing

Make sure there is nothing in the mouth

Tilt head back, lift chin, pinch nose

Watch to ensure the chest rises

Give a breath every *5 seconds* or do the best you can, no more than **90 seconds**.



Recovery Position

If you must leave the person who is overdosing, put them into the recovery position so they won't choke on their own vomit



Naloxone

Naloxone (Narcan) will reverse the effects of opioids, reversing an overdose

- A prescription medicine that does nothing but reverse an opioid overdose
- Injectable and intranasal applications, simple nasal spray (most common formulation)
- Wakes a person who is overdosing in 3-5 minutes and lasts 30-90 minutes
- No effect other than blocking the opioids
- No adverse reactions
- No potential for abuse
- Cannot cause harm, even if the person is not overdosing but may cause withdrawal symptoms

Timing Is Everything: The Duration of Naloxone & Opioids

| Drug | Duration | Naloxone wears off in... |
|-------------|-----------------|---------------------------------|
| Methadone | 24-32 hours | 30-90 mins |
| Heroin | 6-8 hours | 30-90 mins |
| Oxycontin | 3-6 hours | 30-90 mins |
| Codeine | 3-4 hours | 30-90 mins |
| Demerol | 2-4 hours | 30-90 mins |
| Morphine | 3-6 hours | 30-90 mins |
| Fentanyl | 2-4 hours | 30-90 mins |

Responding to OD: **Action**

- **Administer Naloxone**
- Rescue breathing
- Call 911
- Recovery position
- Stay with the person

Naloxone Facts

- Reverses an overdose by blocking opioid receptors for 30-90 minutes
- After a maximum of 90 minutes any opioids in the body will return to the receptors
- Advise against using more opioids as overdose could occur again once the naloxone/narcan wears off

Naloxone Formulations



Nasal with separate atomizer
“Multi-step”

Amphastar Pharmaceuticals



Narcan Nasal Spray
“Single-Step”

Adapt Pharma



Auto-injector

Kaleo Inc.

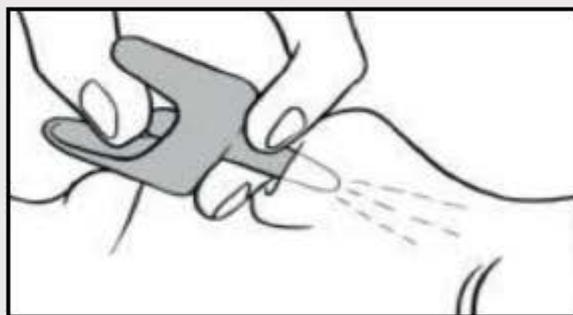


Intramuscular Injection

Various Companies



Single-Step Nasal Spray Administration



1 PEEL back the package to remove the device.

2 PLACE the tip of the nozzle in either nostril until your fingers touch the bottom of the patient's nose.

3 PRESS the plunger firmly to release the dose into the patient's nose.

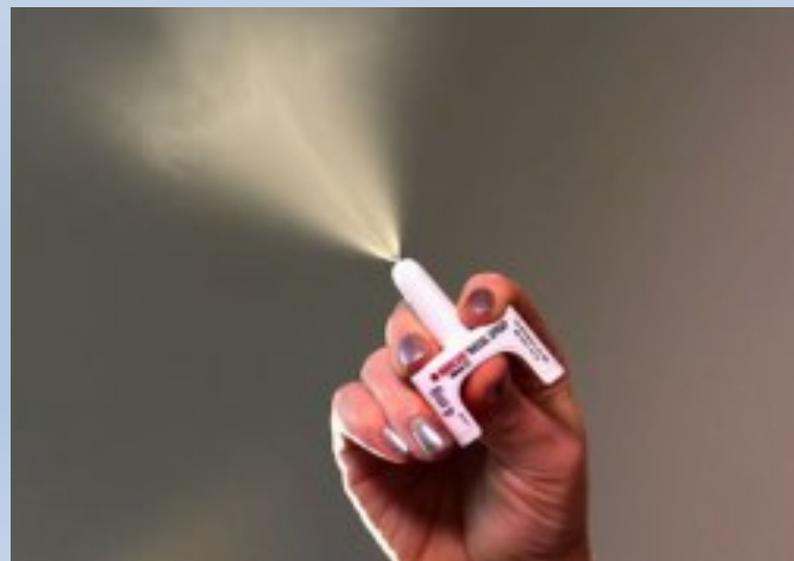
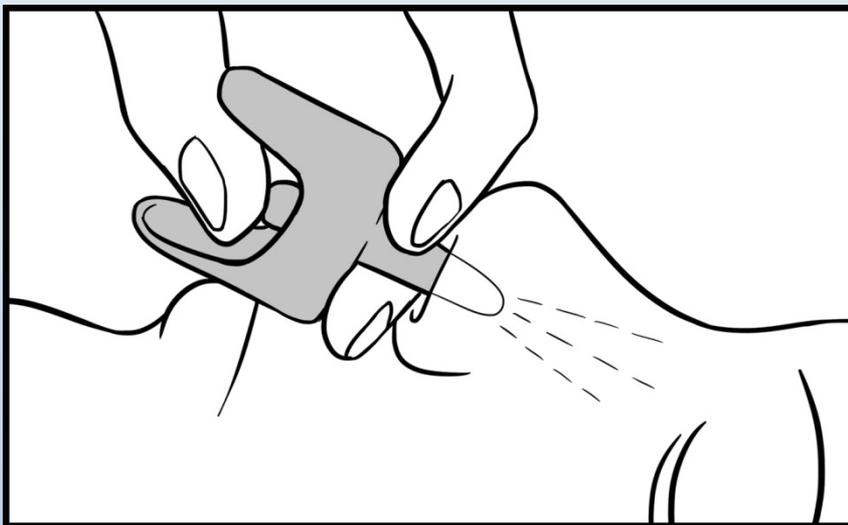
Naloxone Single Step Administration

Single-step:

- Comes with a pre-assembled applicator with Narcan built in
- Requires **no assembly**, just insert in nostril and push the button
- Delivers **4 milligrams dose via a spring-action button** that delivers a full dose in **one nostril**
- Delivered via nasal cavity with reports of delivery via anus when nasal was not an option

3 4 Administer Naloxone

Steps to teach patients, family, friends, caregivers



Naloxone from Pharmacies

1. Obtain a prescription from your prescriber and take it to a pharmacy that stocks naloxone
1. Go directly to a pharmacy with a naloxone standing order and request a naloxone kit at cost. Price ranges \$41 to as much as \$400 for the auto-injection model

*Most insurers cover naloxone including Mass Health

Myths: What NOT To Do

- DON'T leave the person alone
- DON'T leave the person without calling 911
- DON'T lock the door behind you
- DON'T put the person in a cold water bath or shower – they could drown!
- DON'T inject them with salt water, milk, or other drugs (like cocaine or speed)
- DON'T put ice on their genitals, Ice won't help.
- Neither will tea, coffee, or alcohol.
- DON'T make them vomit – they could choke!

Firefox File Edit View History Bookmarks Tools Window Help

https://www.kitestring.io/home

Kitestring Upgrade Sign out

You're all set! Remember that verification code we texted you? Try replying 5m to see how easy Kitestring is. ✕

Tip: Did you know you can start a trip by texting? Text Kitestring a duration like 45m and you're all set. ✕

⚙️ Trip options

🗨️ Emergency alert message:

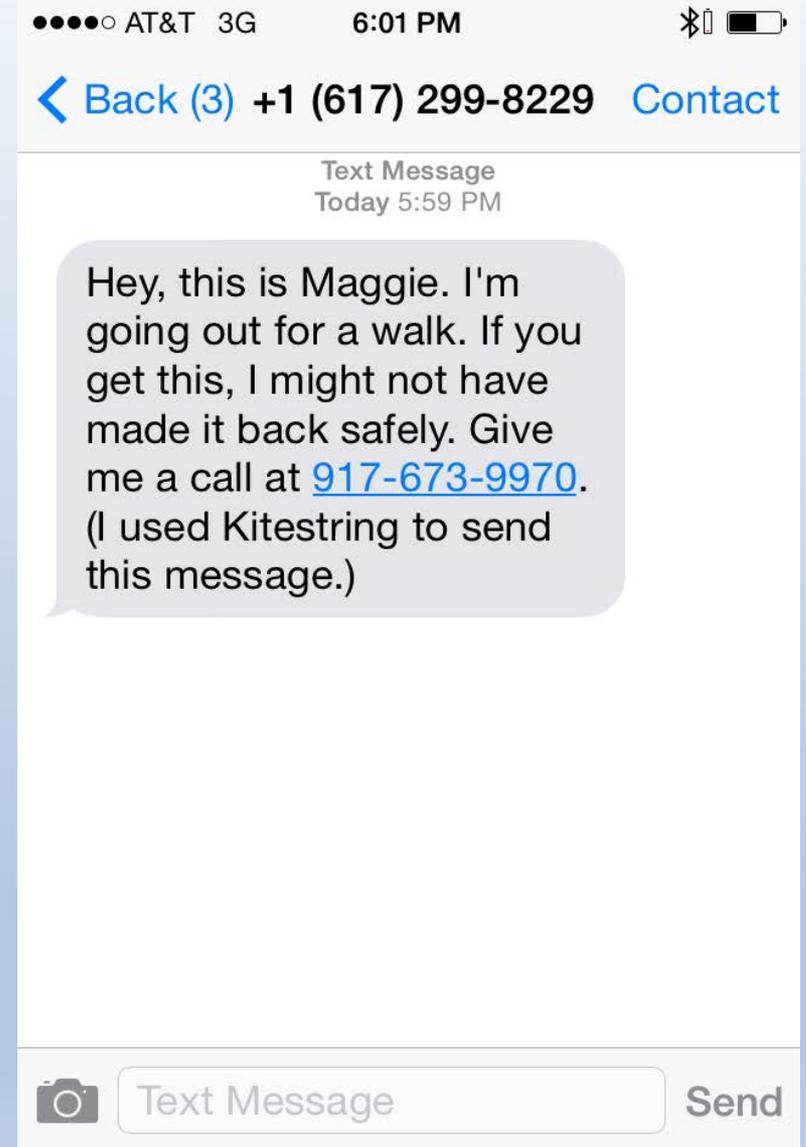
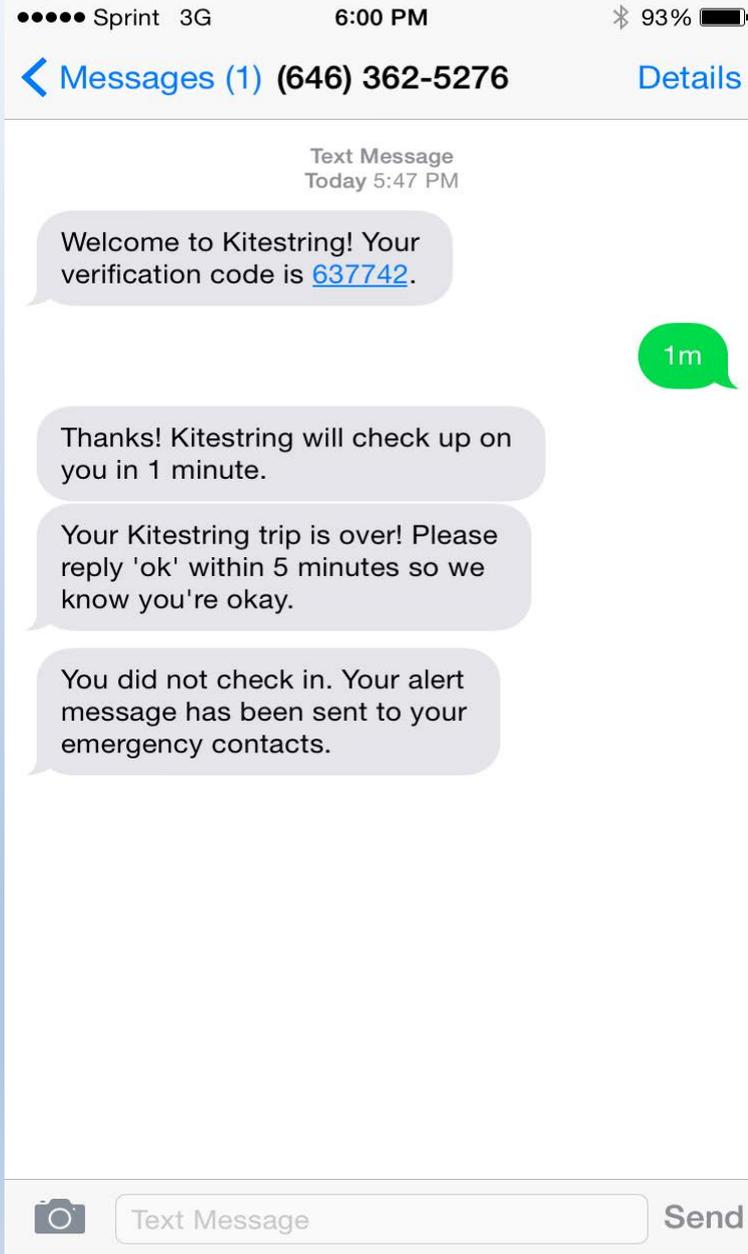
Hey, this is Maggie. I'm going out for a walk. If you get this, I might not have made it back safely. Give me a call at 917-673-9970. (I used Kitestring to send this message.)

🗨️ Check-in reminder message: Default

🕒 Check-in period: 5 minutes ▾

😊 Check-in password: None

😬 Duress code: None



Massachusetts Responds

- Expanding first-in-the-nation core competencies for safe prescribing of opioids to community health centers, advanced nursing, physician assistance and dental schools.
- Successfully launching MassPAT, the new online prescription awareness and monitoring tool.
- Approving of new standing orders that allow EMS providers to administer a higher dose of naloxone to counteract overdoses. The change is in response to the need for stronger, multiple doses required for overdoses caused by fentanyl, which is far more potent than heroin.
- Adding 75 treatment beds in Taunton and Western Mass.
- Releasing of an unprecedented report using advanced data to further understand the underlying causes of opioid-related deaths.

Wrap Up

- Fentanyl is showing up more and more nationally and within Massachusetts
- Fentanyl is causing more overdoses and bringing them on quicker
- The presence of fentanyl may require the administration of more Narcan than was previously required
- Much of the state is moving to the single-step narcan kits
- Single-step Narcan kits deliver 4ml (twice as much as single-step) and has a spring trigger that delivers entire contents in one nostril

Thank you

Center for Social Innovation

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