

Integrating Opioid Use Disorder and Medication Based Treatment into Undergraduate Medical Education



Disclosures

- None



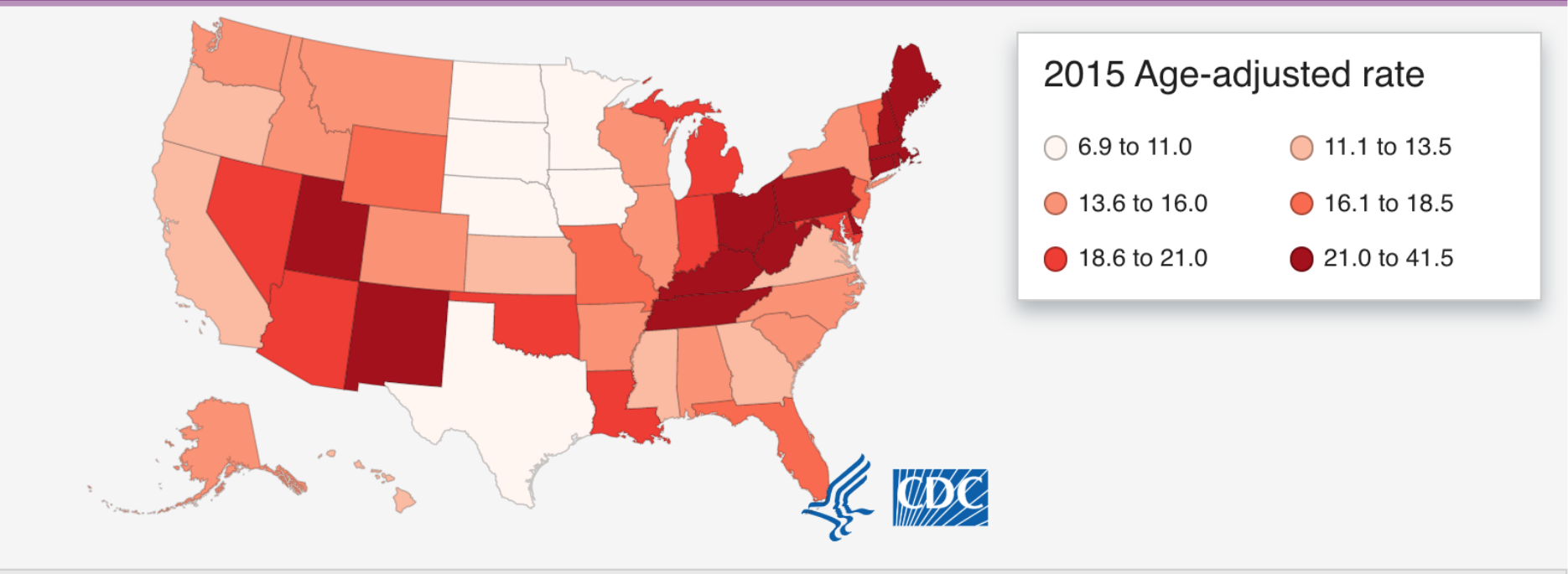
Objectives

- Describe briefly the extent of the opioid overdose epidemic on the U.S. population
- Analyze one implemented undergraduate curriculum model used to combat the opioid epidemic
- Describe the pathway for a UME curriculum to fulfill the educational requirements for physicians under the Drug Addiction and Treatment Act



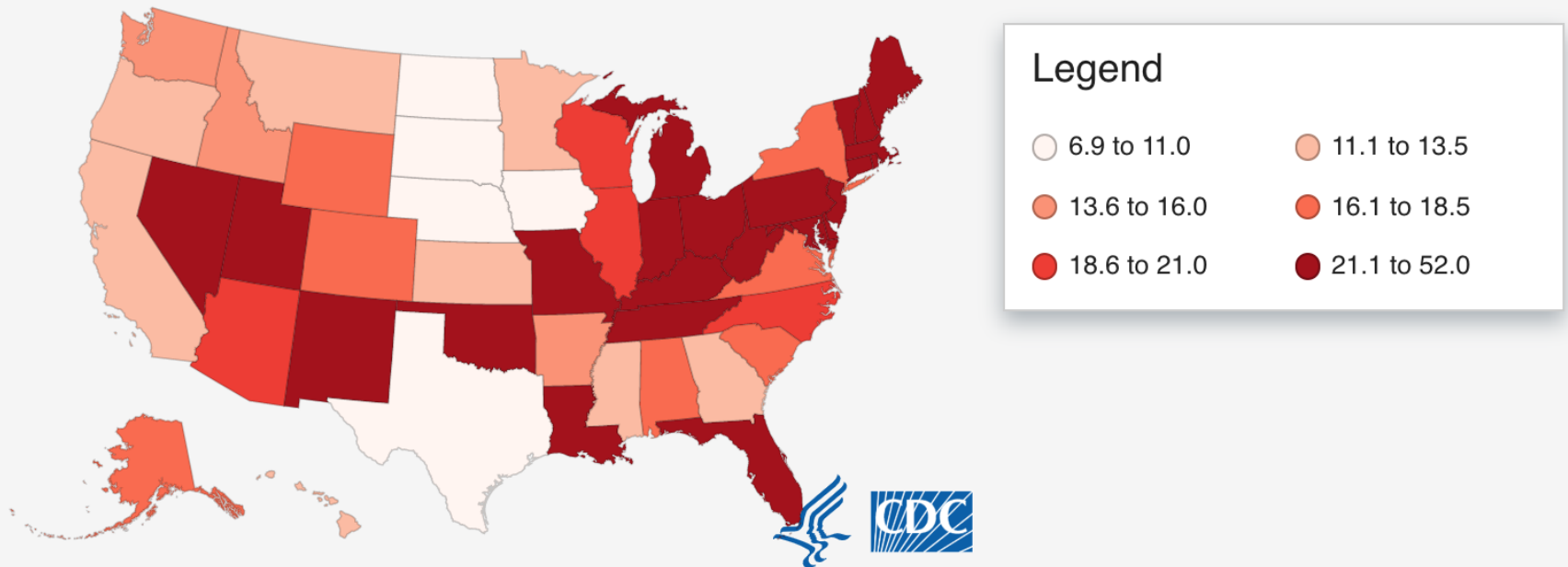
2015 Drug Overdose Death Rates

Number and age-adjusted rates of drug overdose deaths by state, US 2015



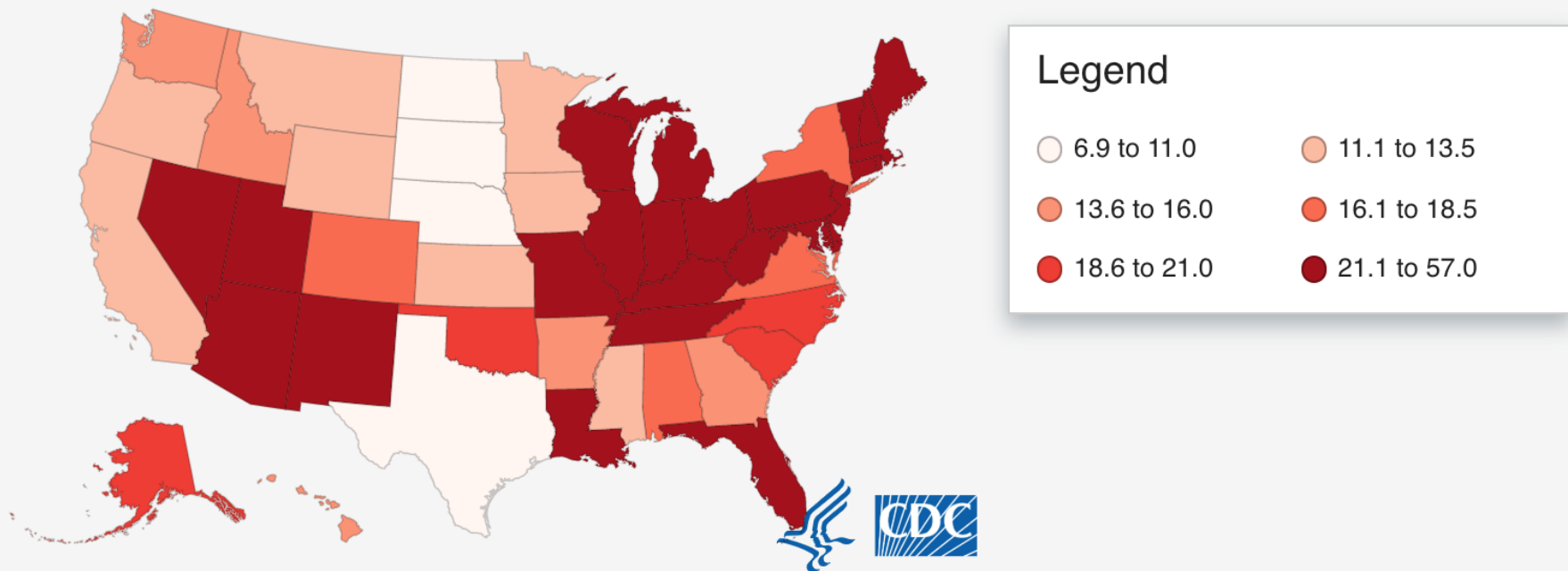
2016 Drug Overdose Death Rates

Number and age-adjusted rates of drug overdose deaths by state, US 2016



2017 Drug Overdose Death Rates

Number and age-adjusted rates of drug overdose deaths by state, US 2017

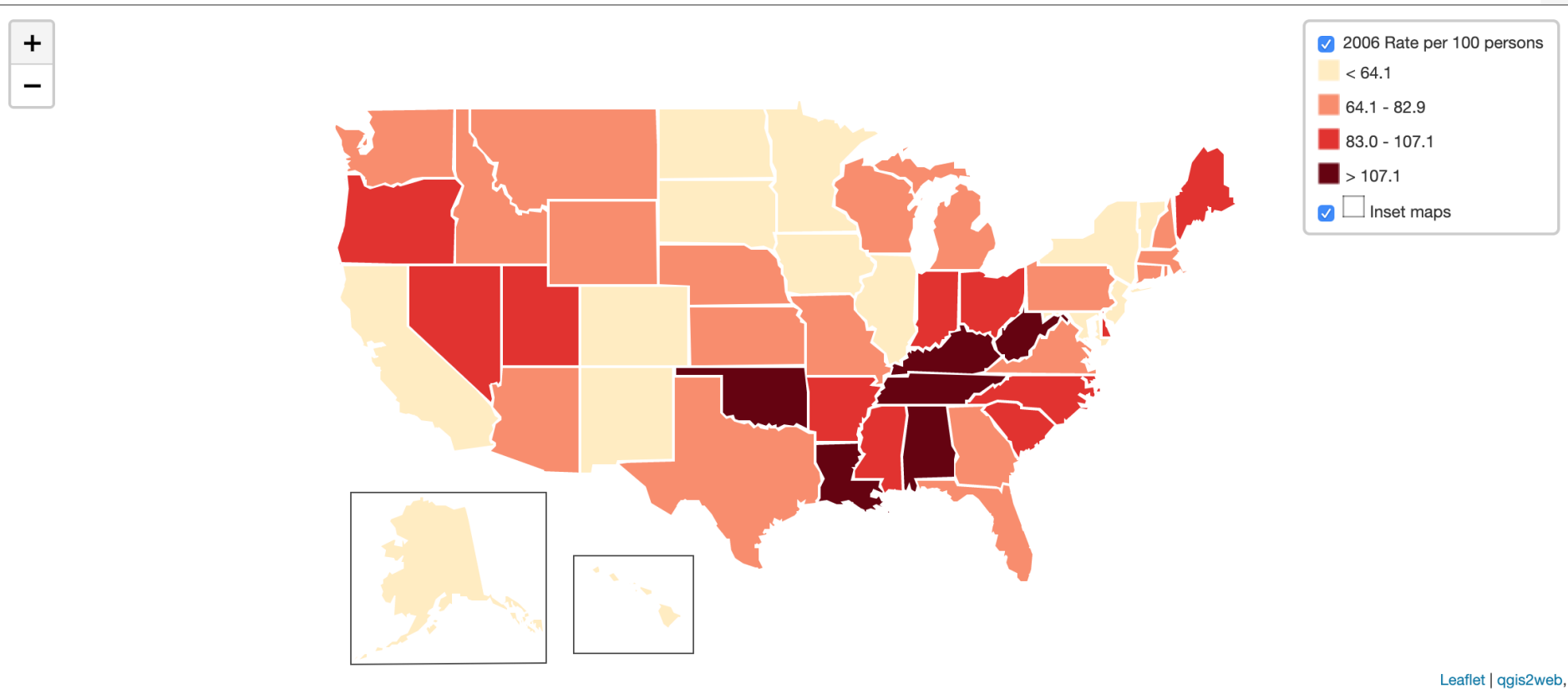


In 2016...

- Rhode Island's death rate from opioid overdose was 30.8 (per 100,000 population) (8th highest in nation)
- Total number of deaths = 326

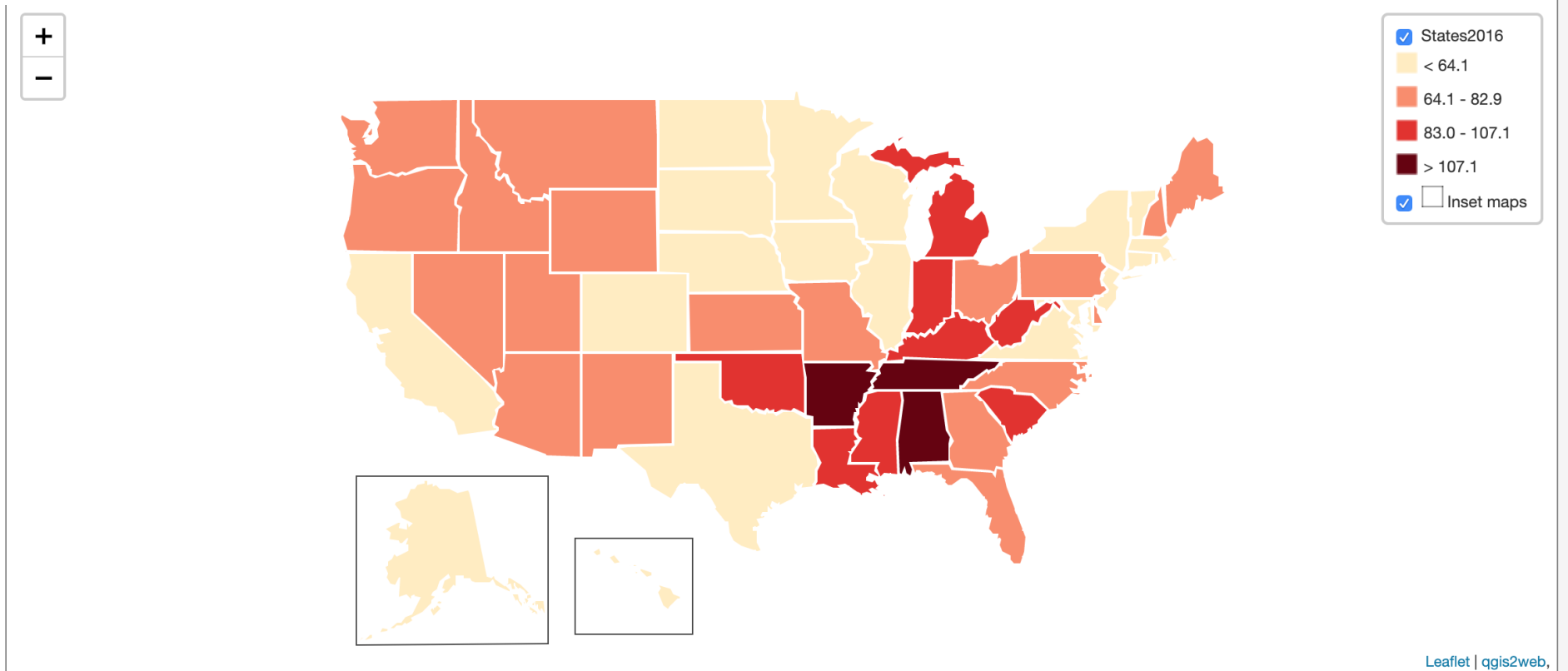


U.S. State Prescribing Rates, 2006



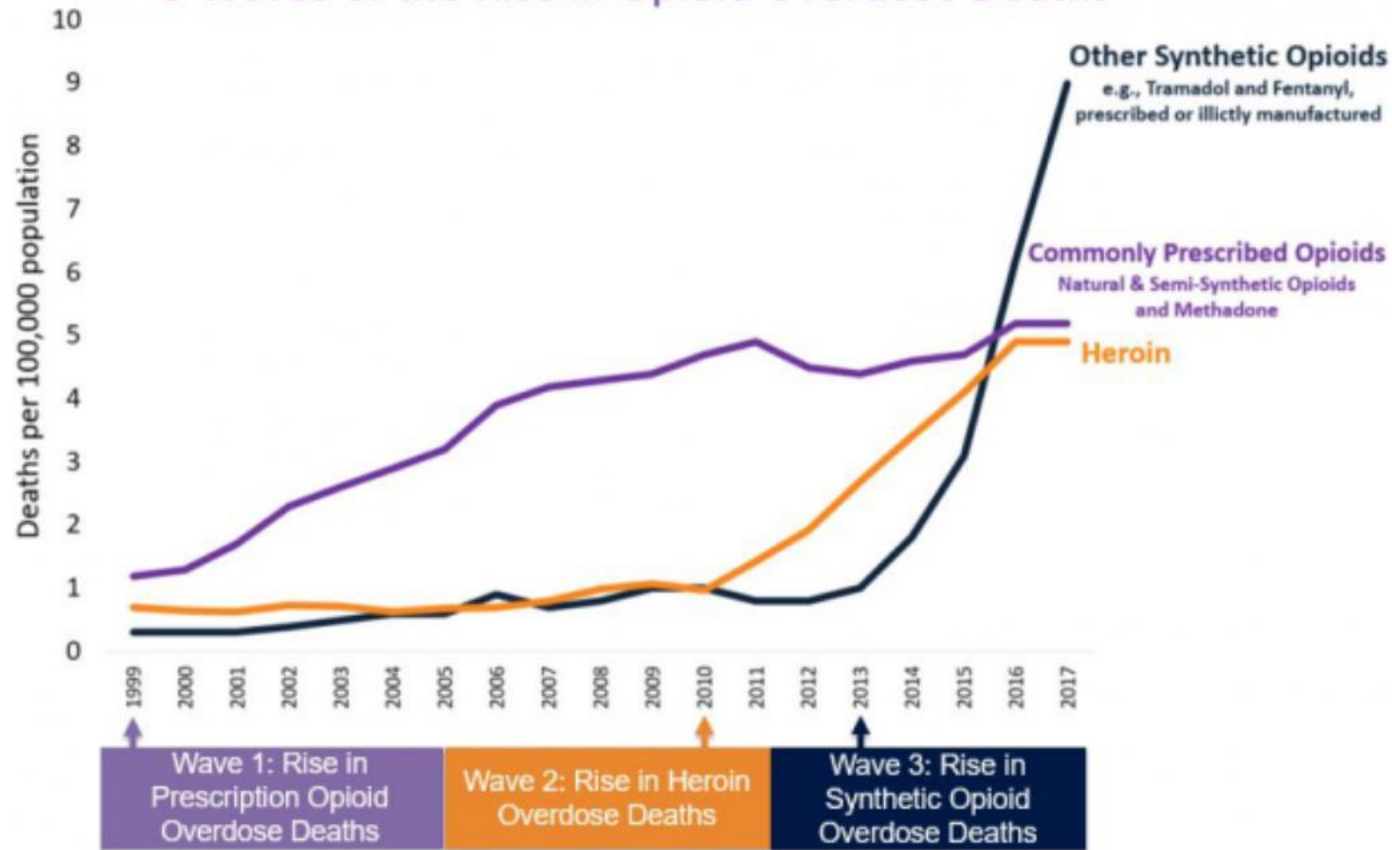
<https://www.cdc.gov/drugoverdose/maps/rxstate2006.html>

U.S. State Prescribing Rates, 2016



<https://www.cdc.gov/drugoverdose/maps/rxstate2016.html>

3 Waves of the Rise in Opioid Overdose Deaths



SOURCE: National Vital Statistics System Mortality File.



The AMS story




Brown's response to the Opioid Epidemic

- Designed a 4-year longitudinal curriculum around substance use with focus on opioids
- Initially allowed students to prescribe MAT in Rhode Island upon graduating



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Brief Report: Access to Treatment for Opioid Use Disorders: Medical Student Preparation

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Curriculum

Pre-Clerkship Years (MS I and II)	Clerkship and Clinical Years (MS III and IV)
Doctoring I and II (Year I): <ul style="list-style-type: none"> • Introduction to Behavioral Change Counseling (1 hour) • Substance Use Counseling/Behavior Change Practice (2 hours) • All students must screen at least five patients for substance abuse disorders; those who screen positive will receive brief intervention and referral for treatment; students must document (2 hours) • PCCS SUD 101 Core Curriculum Course #9 (1 hour) 	Family Medicine Clerkship <ul style="list-style-type: none"> • All students must screen at least five patients for substance abuse disorders; those who screen positive will receive brief intervention and referral for treatment; students must document (2 hours) • Completion of fmCASES/Aquifer modules on chronic pain (1 hour) • Workshop on chronic, non-malignant pain (3 hours)
Integrated Medical Sciences (Year I) <ul style="list-style-type: none"> • Preparatory video on Opioid Use Disorder Epidemiology (30 minutes) • Substance Use Disorder 1 lecture (1 hour) • Substance Use Disorder 2 lecture (1 hour) • Pain: A clinical and research perspective (1 hour) • Pain circuits and mechanisms (1 hour) • Substance Use Clinical Pearls (1.5 hours) 	Internal Medicine Clerkship <ul style="list-style-type: none"> • All students must screen at least five patients for substance abuse disorders; those who screen positive will receive brief intervention and referral for treatment; students must document (2 hours) • Team-based learning session on evaluation and treatment of substance use disorders, with a focus on alcohol and opioid use disorders (1.5 hours)
Doctoring III and IV (Year 2) <ul style="list-style-type: none"> • All students must screen at least five patients for substance abuse disorders; those who screen positive will receive brief intervention and referral for treatment; students must document (2 hours) 	Psychiatry Clerkship <ul style="list-style-type: none"> • Workshop on substance misuse (2 hours) • PCCS SUD 101 Core Curriculum Course #15
Clinical Skills Clerkship (Transition Between Years II and III) <ul style="list-style-type: none"> • Small group cases on Pain Management/Opiates (1 hour) 	Interprofessional Education <ul style="list-style-type: none"> • 1st year: Interprofessional Workshop (1.5 hours) • 2nd year: Interprofessional workshop (4 hours)

- Prior to 4th year OSCE: Lecture on Medication Assisted Treatment (**1 hour**)



Pre-clerkship Curriculum

Pre-Clerkship Years (MS I and II)
Doctoring I and II (Year I): <ul style="list-style-type: none">• Introduction to Behavioral Change Counseling (1 hour)• Substance Use Counseling/Behavior Change Practice (2 hours)• All students must screen at least five patients for substance abuse disorders; those who screen positive will receive brief intervention and referral for treatment; students must document (2 hours)• PCCS SUD 101 Core Curriculum Course #9 (1 hour)
Integrated Medical Sciences (Year I) <ul style="list-style-type: none">• Preparatory video on Opioid Use Disorder Epidemiology (30 minutes)• Substance Use Disorder 1 lecture (1 hour)• Substance Use Disorder 2 lecture (1 hour)• Pain: A clinical and research perspective (1 hour)• Pain circuits and mechanisms (1 hour)• Substance Use Clinical Pearls (1.5 hours)
Doctoring III and IV (Year 2) <ul style="list-style-type: none">• All students must screen at least five patients for substance abuse disorders; those who screen positive will receive brief intervention and referral for treatment; students must document (2 hours)



Clerkship Curriculum

Clerkship and Clinical Years (MS III and IV)
Family Medicine Clerkship <ul style="list-style-type: none">• All students must screen at least five patients for substance abuse disorders; those who screen positive will receive brief intervention and referral for treatment; students must document (2 hours)• Completion of fmCASES/Aquifer modules on chronic pain (1 hour)• Workshop on chronic, non-malignant pain (3 hours)
Internal Medicine Clerkship <ul style="list-style-type: none">• All students must screen at least five patients for substance abuse disorders; those who screen positive will receive brief intervention and referral for treatment; students must document (2 hours)• Team-based learning session on evaluation and treatment of substance use disorders, with a focus on alcohol and opioid use disorders (1.5 hours)
Psychiatry Clerkship <ul style="list-style-type: none">• Workshop on substance misuse (2 hours)• PCCS SUD 101 Core Curriculum Course #15



Other Curriculum

<p>Clinical Skills Clerkship (Transition Between Years II and III)</p> <ul style="list-style-type: none">• Small group cases on Pain Management/Opiates (1 hour)	<p>Interprofessional Education</p> <ul style="list-style-type: none">• 1st year: Interprofessional Workshop (1.5 hours)• 2nd year: Interprofessional workshop (4 hours)
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SEC. 3202. MEDICATION-ASSISTED TREATMENT FOR RECOVERY FROM SUBSTANCE USE DISORDER.

(a) **WAIVERS FOR MAINTENANCE TREATMENT OR DETOXIFICATION.**—Section 303(g)(2)(G)(ii) of the Controlled Substances Act ([21 U.S.C. 823\(g\)\(2\)\(G\)\(ii\)](#)) is amended by adding at the end the following:

“(VIII) The physician graduated in good standing from an accredited school of allopathic medicine or osteopathic medicine in the United States during the 5-year period immediately preceding the date on which the physician submits to the Secretary a written notification under subparagraph (B) and successfully completed a comprehensive allopathic or osteopathic medicine curriculum or accredited medical residency that—

“(aa) included not less than 8 hours of training on treating and managing opioid-dependent patients; and

“(bb) included, at a minimum—

“(AA) the training described in items (aa) through (gg) of subclause (IV); and

“(BB) training with respect to any other best practice the Secretary determines should be included in the curriculum, which may include training on pain management, including assessment and appropriate use of opioid and non-opioid alternatives.”.













Certification of Curriculum

- Through the American Academy of Addiction Psychiatry
- Submitted curriculum through Dropbox folder
- Reviewer assigned; returned with feedback
- Modifications made and resubmitted



9 folders, 2 files

 Create    

Name ^	Modified
▶  1st Year Integrated M...	11/6/19, 9:48 ...
▶  3rd year intersession	7/8/19, 3:41 pm
▶  4th year curriculum	7/9/19, 9:36 am
▶  Clinical Skills Clerkship	7/9/19, 9:24 am
▶  Doctoring Year 1	7/9/19, 8:22 am
▶  Family Medicine cler...	7/9/19, 9:31 am
▶  Internal Medicine cle...	7/9/19, 9:30 am
▶  Interprofessional Edu...	7/8/19, 3:16 pm
 PCSS-U Letter of Ap...	11/20/19, 10:3...
▶  Psychiatry clerkship	7/8/19, 5:09 pm

Select a file to see comments, activity, and more details.



November 13, 2019

Paul George, MD, MHPE
Associate Dean of Medical Education
Director, Second Year Curriculum and Primary Care-Population Medicine Program
Warren Alpert Medical School of Brown University
222 Richmond St.
Providence, RI 02903

I, John A. Renner, Jr., MD, on behalf of the American Academy of Addiction Psychiatry (AAAP), DATA 2000 sponsoring organization, certify that Brown University Medical School's waiver curriculum fulfills the educational requirements for physicians under the Drug Addiction and Treatment Act (DATA) of 2000 and covers the following topic areas identified by this legislation:

- ☒ Legislative changes affecting office-based opioid-addiction treatment
- ☒ Basic pharmacology
- ☒ Pharmacology of buprenorphine
- ☒ Effectiveness and safety of buprenorphine
- ☒ Patient assessment and selection
- ☒ Clinical management
- ☒ Special treatment populations
- ☒ Buprenorphine/naloxone dosing
- ☒ Urine testing
- ☒ Patient confidentiality

On behalf of the AAAP, the approval period for this curriculum is valid until November 13, 2022. AAAP supports these efforts to integrate training on substance use disorders into general medical education, with the agreement that Brown University Medical School is responsible for maintaining and updating this course in accordance with legislative guidelines as specified in DATA 2000. We look forward to collaborating with Brown University Medical School on this project.

Sincerely,



John A. Renner, Jr., MD, PCSS Clinical Expert



Lessons Learned



Make the curriculum
longitudinal and
integrated



-
- 1st and 2nd year Integrated Medical Sciences
 - 1st and 2nd year Doctoring
 - Clerkships/Intersessions
 - Internship Prep Course



Use a variety of
teaching modalities



-
- Lecture
 - Case-based discussions
 - Paper based cases
 - Videos
 - Team-based learning
 - Standardized patient cases





Make the curriculum
interprofessional



-
- Nursing (Rhode Island College and University of Rhode Island)
 - Pharmacy (University of Rhode Island)
 - Social Work (Rhode Island College)
 - Physical Therapy (University of Rhode Island)



Partner with key stakeholders



-
- Department of Health
 - State Licensing Board
 - School of Public Health
 - COBRE grant
 - Other medical schools (for us, our neighbor medical schools in Massachusetts)



Link the curriculum
across UME, GME,
CME



2018 AAMC OPIOID CURRICULAR INNOVATION AWARD WINNER SERIES | BROWN UNIVERSITY ALPERT MEDICAL SCHOOL

Physicians at the Brown University Alpert Medical School highlight their award winning curriculum that addresses the opioid epidemic.



Award Winner Series



Addiction used to be someone else's problem. Doctors graduating today are eager to take it on

By Felice J. Freyer Globe Staff, May 21, 2019, 6:12 p.m.





WBUR

May 28, 2019 11am – 12pm



BROWN
Alpert Medical School

Final Thoughts

- Re-examine the necessity of the DATA waiver
- Re-think the settings in which Methadone can be prescribed
- Assessment drives learning (or educational programs)
 - Mandate for Undergraduate (Medical Schools) and Graduate Medical Education (Residency Programs) to incorporate training around OUD and MAT

It takes a team...



Many thanks to:

- Luba Dumenco MD, MEHP
- Sarita Warriar MD
- Kristina Monteiro PhD
- Allan Tunkel MD PhD
- Rahul Vanjani MD
- Michael Mello MD MPH
- Josiah Rich MD, Tim Flanigan MD
- James MacDonald MD and Nicole Alexander Scott MD, MPH
- Ellie McCance-Katz MD
- SAMSHA
- AAMC
- AAAP (Kathryn Cates Wessel, John Renner MD, Justine Pereira)
- And the many more who influenced this work...



Questions

- Thank you!
- Paul_George@brown.edu

