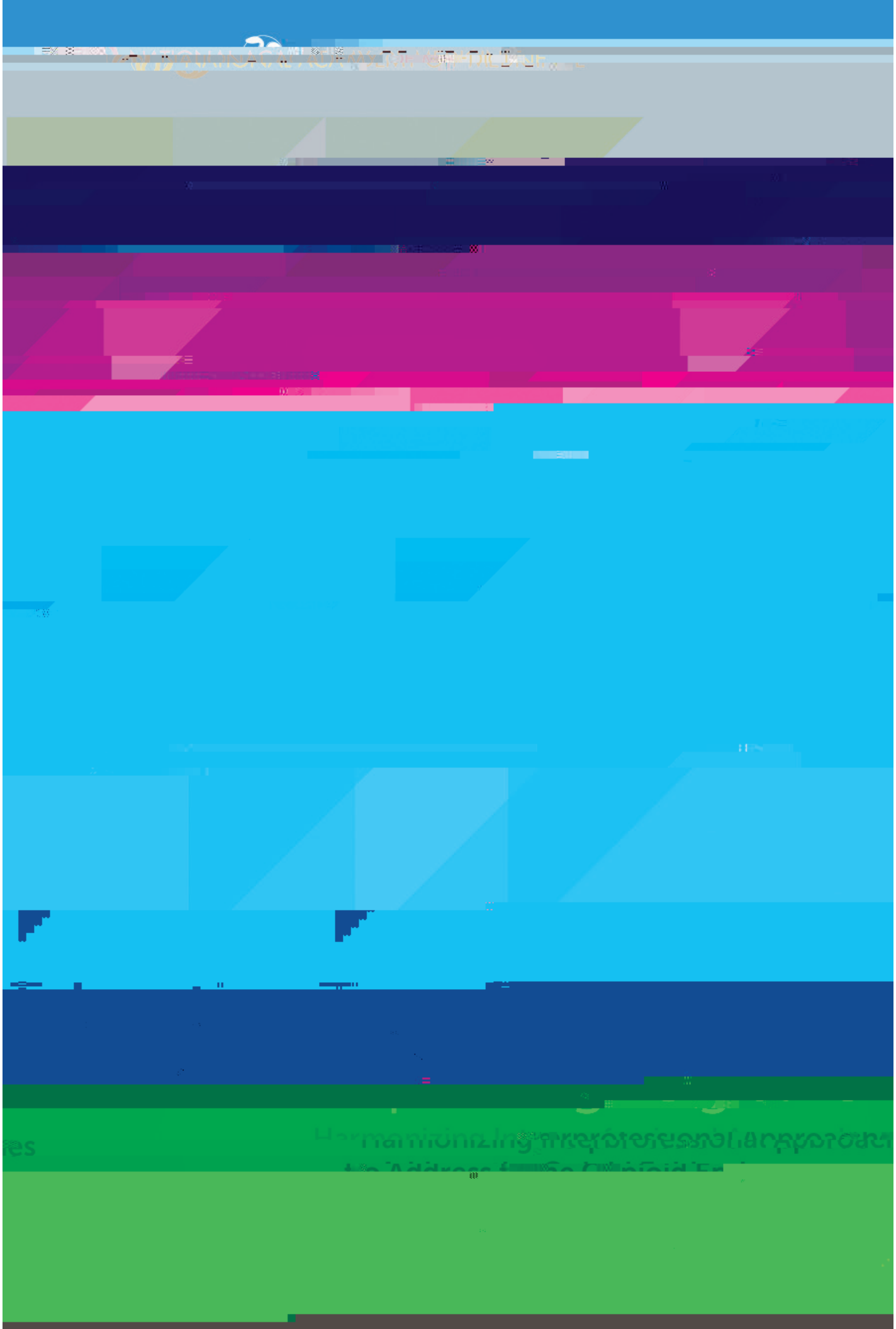


NAM Special Publication.

"Knowing is not enough; we must apply.
Willing is not enough; we must do."
— GOETHE

NATIONAL ACADEMY of MEDICINE

ABOUT THE NATIONAL ACADEMY OF MEDICINE

National Academy of Medicine

ACTION COLLABORATIVE ON COUNTERING THE U.S. OPIOID EPIDEMIC
HEALTH PROFESSIONAL EDUCATION AND TRAINING WORKGROUP

KATHY CHAPPELL *(Co-Lead),*
ERIC HOLMBOE *(Co-Lead),*
STEVE SINGER *(Co-Lead),*
DAVID BENTON,
TIMOTHY BRENNAN,
ROBERT CAIN,
THERESA CAMPO,
LEMREY "AL" CARTER,
JIANGUO CHENG,
DAVOREN CHICK,
CHARLENE DEWEY,
OMAR ESCONTRIAS,
RICK GARCIA,
JAMES GIFFORD,
LISA HOWLEY,
MARGARET JARVIS,
BEVERLEY JOHNSON,
RONEET LEV,
LUCINDA MAINE,
RAY MITCHELL,
DANIEL PACE,
MARGOT SAVOY,
JOY RUCKER,
DANIEL SLEDGE,

NAM Staff

ELIZABETH FINKELMAN,
AISHA SALMAN,
NOAH DUFF,
EMMA FREILING,
JENNA OGILVIE,
MADELEINE DEYE,

REVIEWERS

II

ADDRESSING THE EPIDEMIC WITHIN A PANDEMIC

Acute to Chronic

Pain Signatures,

Ⅱ

OBJECTIVES AND METHODS

Search Design and Strategy

(*Appendix A).*

Coding and Analysis

Appendix C

Results

Quantitative

Table 1

TABLE 1 |

Type of Research Article	Count	Percentage
Quantitative		
Qualitative		
Mixed methods		
Total		

Table 2

TABLE 2 |

Professions by Type	Count	Percent
Nursing (APRN)		
Nursing (unspeciٛied)		
Nursing (RN)		

Table 3

TABLE 3 |

Specialties	Count	Percent of Total Respondents

Table 4

TABLE 4 |

Practice Environments	Count	Percent

Table 5

TABLE 5 |

Domains of Practice	Count	Percent

Table 6

Table 7,

TABLE 7 |

Patient Populations	Count	Percent

Table 8

TABLE 8 |

Type or Stage in Care Process	Count	Percent

Table 9

Qualitative

Health Care Professionals Theme 2: Guidelines

Health Care Professionals Theme 3: Lack of Evidence, Tools, or Resources

Health Care Professionals Theme 4: Attitudes or Biases

Health Care Professionals Theme 5: Lack of Interprofessional Collaboration, Interest, and Trust

Health Care Professionals Theme 6: Differences in Prescribing Practices

Care Environment Theme 3: Insurance Coverage

Care Environment Theme 4: Mandatory Continuing Education

Care Environment Theme 5: Lack of Referral Resources

Care Environment Theme 6: Lack of Institutional Guidelines

BACKGROUND

OBJECTIVES AND METHODS

Survey Design and Strategy

Appendix C

II

Data Extraction

DATA ANALYSIS AND SYNTHESIS

Table 11

TABLE 11 |

Policy	Requirement

RESULTS

Respondents

Requirements

Acute and Chronic Pain Management

Pain Management Policies Board-by-Board Overview

TABLE 16 |

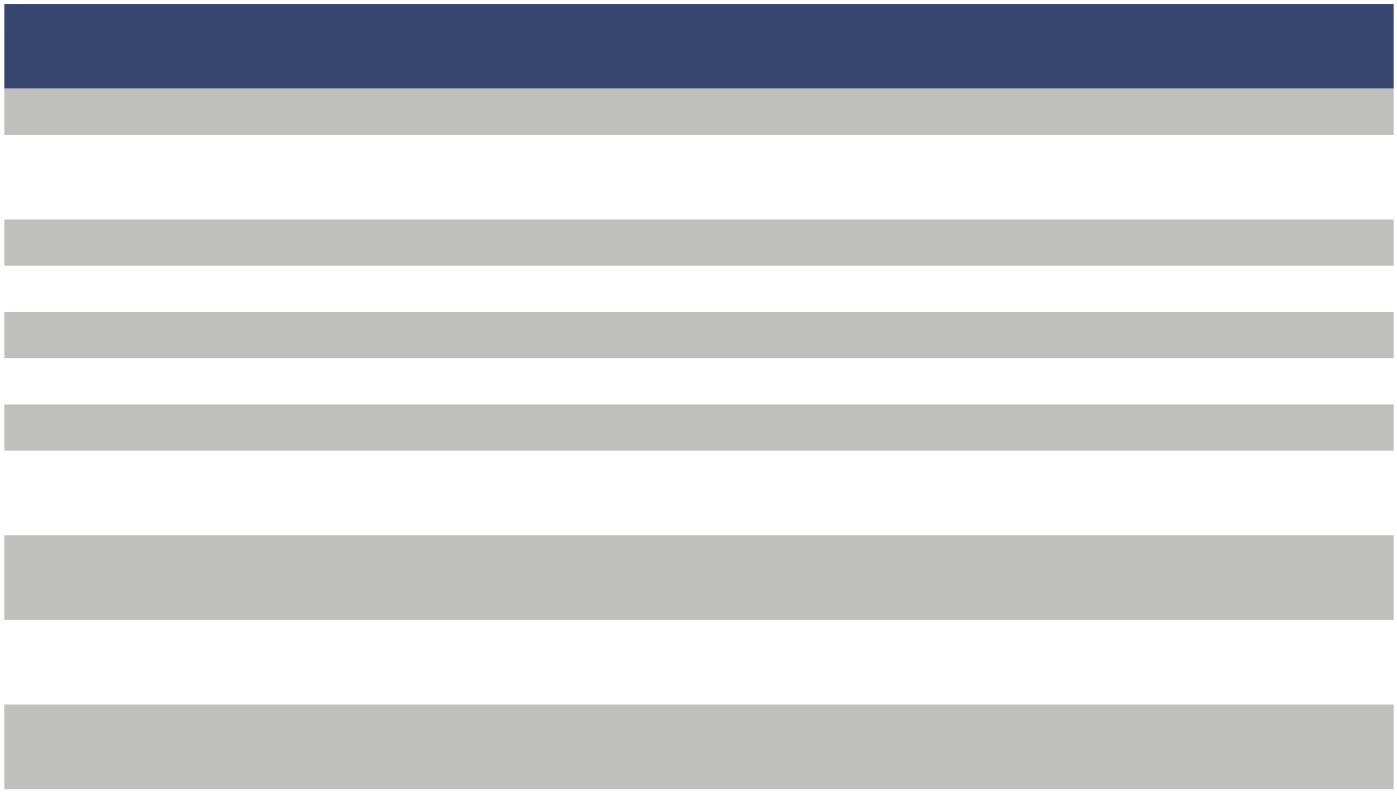
Type of Health Professional	Training Level and Practice				
	Student	Resident	Fellow	Expectations of Practicing Health Care Professionals	
				Participation in CME/CPD	Required for Licensure

Policy Review

Table 17

TABLE 17 |

Characteristic	Number of Policies



Policies Addressing Patient Health

II

Naloxone Access Laws

Individuals	Teams	Institution or Practice Setting

Attitudes and Biases

0001 Tc-29tigma a(onic p7in, SUD)24 Tdatepra)14.8patifra7s and/ and4.6(acupatients idit.6(, a

view 1 Tf13 0 0 14.8151

System Issues

VARIATION IN REGULATORY REQUIREMENTS TO ADDRESS PAIN MANAGEMENT AND SUBSTANCE USE DISORDER

Table 20

Table 15

Type or Stage in Care Process	System	
	Private	Public

Type or Stage in Care Process	System	
	Private	Public

Type or Stage in Care Process	System	
	Private	Public

 Minimum

minimum

2. Align Accreditors' Expectations for Interprofessional Collaboration in Education for Pain Management and Substance Use Disorders

3. Foster Interprofessional Collaboration among Licensing and Certifying Bodies to Optimize Regulatory Approaches and Outcomes

Merit-based Incentive Payment System

Medication-Assisted Treatment (MAT) Waiver Training

REMS Requirements

4. Unleash the Capacity for Continuing Education to Meet Health Professions Learners Where They Are Through Investment and Leadership

Box 1

Key Priority #5

TABLE 21 |

Key Priority	Who	How

		Ⅱ
	Ⅱ	

SEARCH PLAN

Databases

Database Results - Inclusion/Exclusion Pre-Selection Criteria

Inclusion Criteria	Exclusion Criteria

SEARCH TERMS

Objective

Preliminary Terms

A. Terms provided by staff	B. Terms suggested by RC Staff	
A1. Identified health professions	**MeSH Terms**	**Other Terms**

A2. Treatment			

A3. Condition

A4. Competencies

A5. Collaboration with patients and families		

A6. Patient outcomes		

EndNote Groups

EndNote Group	Target	Query	Strategy

EMBASE DATABASE SEARCH

Group 1: Competencies

No.	Query
	[illegible]
	[illegible]
	[illegible]
	[illegible]
	[illegible]
	[illegible]

	[illegible]
	[illegible]
	[illegible]
	[illegible]

MEDLINE DATABASE SEARCH

Group 1: Competencies

No.	Query

	1, 2
	3, 12
	4, 12
	13, 14
16	5, 15
17	6, 16
1	, 17., ("200 - ". , 9
1	7, 16
20	, 1 ., ("200 - ". , 9
21	, 16
22	, 21., ("200 - ". , 9
23	, 16
24	, 23., ("200 - ". , 9
25	10, 16
26	, 25., ("200 - ". , 9
27	11, 16
2	, 27., ("200 - ". , 9

PUBMED DATABASE SEARCH

Group 1: Competencies

Results before deduplication: 73

Results before deduplication: 7

Results before deduplication: 16

Results before deduplication: 3

SCOPUS DATABASE SEARCH

Group 1: Competencies

Results before deduplication: 381

Results before deduplication: 11

Results before deduplication: 3

BASIC IDENTIFYING INFORMATION

“reviewer name”

unique number assigned to the article

INCLUSION CRITERIA

Criteria for inclusion are:

Item	Variable	Response Options	Comment

Definitions (with validation from working group members)

1. Screening/assessment

2. Identification/diagnosis

3. **Treatment: Prescribing/Tapering Opioids**

4. **Treatment: Prescribing Non-Opioids**

5. **Treatment: Nonpharmacological**

6. **Monitoring**

Goal:

Definitions:

- *Accreditation*

- *Certification*

- *Continuing professional development/continuing education (CPD/CE)*

- *Graduate*

- *Licensing*

- *Post-graduate*

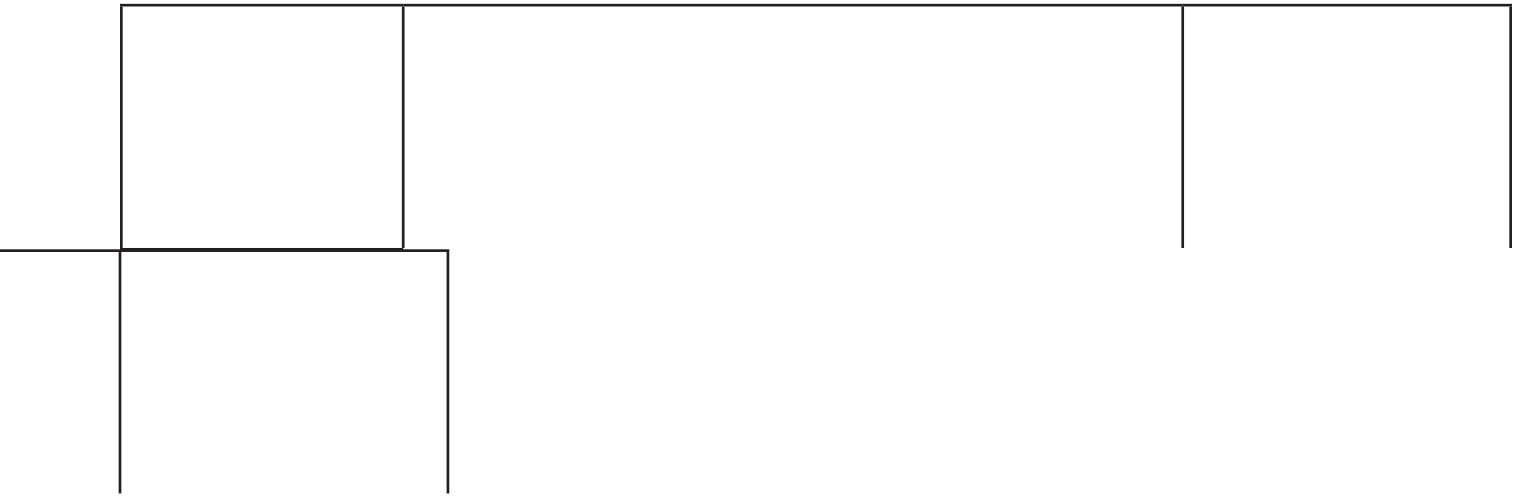
- *Regulation*

- *Undergraduate*

Strategy:

New England

Journal of Medicine



Arizona		

Colorado	**1 hour every 6 years**	
Connecticut	**1 hour every 6 years**	
Connecticut	**1 hour every 2 years**	
Delaware	**2 hours, every 2 years**	
Washington, DC	**1 course every 2 years**	
Florida	**2 hours every 2 years**	

Florida	**10 hours every 2 years**	
Georgia	**3 hours**	
Georgia	**3 hours every 2 years**	
Illinois	**3 hours every 3 years**	
Illinois	**3 hours every 2 years**	
Indiana	**2 hours every 2 years**	
Indiana	**2 hours every 2 years**	
Iowa	**2 hours, every 5 years**	

Iowa	**2 hours, every 2 years**	
Kentucky	**60 hours every 3 years**	
Louisiana	**3 hours one-time only**	
Louisiana	**3 hours one-time only**	
Maine	**3 hours every 2 years**	
Maine	**3 hours every 2 years**	
Maryland	**1 hours every 2 years**	

Maryland	**2 hours one-time only**	
Massachusetts	**3 credit hours each cycle**	
Massachusetts		

Minnesota	**2 hours**	
Mississippi	**5 hours**	

New Mexico		
New York	**3 hours every 3 years**	
North Carolina	**3 hours every 3 years**	
North Carolina	**2 hours every 2 years**	

Oklahoma	**1 hour, every 2 years**	
Oregon	**6 hours one time**	
Oregon	**6 hours one time**	
Pennsylvania	**4 hours, once, for initial licensure; 2 hours, every 2 years**	
Pennsylvania	**2 hours, every 2 years**	
Rhode Island	**8 hours one-time**	
South Carolina	**2 hours every 2 years**	

South Carolina	**4 hours every 2 years**	
Tennessee	**2 hours every 2 years**	
Tennessee	**2 hours every 2 years**	
Tennessee	**2 hours every 2 years**	
Texas	**2 hours every 2 years**	
Texas	**2 hours every 2 years**	
Utah	**3.5 hours**	

Utah	**4 hours every 2 years** *AMA PRA Category 1 Credit™* **The online tutorial and test may only be offered by the Division of Occupational and Professional Licensing. Access the training here: https://dopl.utah.gov/csd/index.html.*	
Vermont	**3 hours every 2 years**	
Vermont	**2 hours every 2 years**	
Virginia	**2 hours every 2 years**	
Virginia	**2 hours every 2 years**	
Washington	**1-hour, one-time requirement**	

West Virginia	**3 hours, every 2 year renewal cycle**	
Wisconsin	**2 hours every 2 years**	
Wyoming	**3 hours every 2 years**	

Arizona				
Arkansas				
California				
Colorado				
Connecti-cut				
Delaware				

District of Columbia				

Florida				

Idaho				
Illinois				
Indiana				

Iowa				
Kansas				
Maine				
Maryland				

Massa-chusetts				
Kentucky			‖	

Michigan				
Minnesota				
Mississippi				
Missouri				
Montana				
Nevada				

New York				

North Carolina				

North Dakota				
Ohio				
elact				

Oregon				
Pennsyl-vania				
Rhode Island				

South Carolina				

Texas				

Virginia				

Washing-ton				

West Virginia				
Wisconsin				

Wyoming				
Guam				

Nursing Continuing Education Requirements by State.

ment

Pain Medicine

Annals of Emergency Medicine

ppendix B: State-by-state summary of opioid prescribing regulations and guidelines. In 50 State Review on Opioid Related Policy.

Drug and Alcohol Dependence

Drug and Alcohol Dependence

JAMA

Journal of Hospital Medicine

COVID-19.

Pain Management Policies Board-by-Board Overview.

Continuing Medical Education Board-by-Board Overview.

Pain Medicine

FDA Education Blueprint for Health Care Providers Involved in the Treatment and Monitoring of Patients with Pain.

The Journal of the American Board of Family Medicine

Journal of General Internal Medicine

Journal of Medical Toxicology

Journal of the American Pharmacists Association

Morbidity and Mortality Weekly Report

 Pain Medicine

Western Journal of Emergency Medicine

Journal of Opioid Management

The American Journal of Emergency Medicine

Morbidity and Mortality Weekly Report

JAMA Network Open

JAMA

BMC Family Practice

Pain Medicine

FHIR Overview.

Psychiatric Clinics of North America

Western Journal of Emergency Medicine

Substance Abuse

Pain Medicine

Journal of Addiction Medicine

JAMA Network Open

Clinical Pediatrics

Wisconsin Medical Journal

Current Drug Safety

Pharmacoepidemiology and Drug Safety

Journal of Cancer Education

The Journal of the American Board of Family Medicine

The American Journal of Surgery

Journal of Substance Abuse Treatment

Otolaryngology–Head and Neck Surgery

Journal of Acquired Immune Deficiency Syndromes

Journal of Opioid Management

Evidence brief: Barriers and facilitators to use of medications for opioid use disorder.

Pain Medicine

Pain

Journal of Opioid Management

Journal of the American Academy of Orthopaedic Surgeons

The Annals of Family Medicine

Journal of Addiction Medicine

Academic Emergency Medicine

Innovations in Clinical Neuroscience

Cureus Journal of Medical Science

‖

The American Journal on Addictions

Otolaryngology–Head and Neck Surgery

Journal of Opioid Management

‖

The Journal of Pain

Pain Physician

Pain Medicine

PLOS ONE

Health Affairs

Journal of Opioid Management

Best Care at Lower Cost: The Path to Continuously Learning Health Care in America.

JAMA

BMC Geriatrics

Journal of General Internal Medicine

Journal of Substance Abuse Treatment

State Residential Treatment for Behavioral Health Conditions: Regulation and Policy Environmental Scan.

Certification of Opioid Treatment Programs (OTPs).

Key Substance Use and Mental Health Indicators in the United States: Results from the 2019 National Survey on Drug Use and Health.

Facing Addiction in America: The Surgeon General's Report on Alcohol, Drugs, and Health.

JAMA Network Open

Alaska ECHO Projects.

Annals of Internal Medicine