



NAM Special Publication.

*“Knowing is not enough; we must apply.
Willing is not enough; we must do.”
—GOETHE*



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**

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REVIEWERS

1 Executive Summary

2 Introduction

3 Literature Review (Study 1)

4 Educational Requirements Survey (Study 2)

5 Discussion

6 Key Priorities

Appendixes

References

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ADDRESSING THE EPIDEMIC WITHIN A PANDEMIC

Pain Signatures,

Acute to Chronic

OBJECTIVES AND METHODS

Search Design and Strategy

(*Appendix A*).

Coding and Analysis

Appendix C

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

Data Extraction

DATA ANALYSIS AND SYNTHESIS

TABLE 11 |

Policy	Requirement

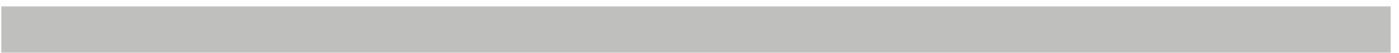
RESULTS

Respondents

Requirements

Acute and Chronic Pain Management

Pain Management Policies Board-by-Board Overview



Policies Addressing Patient Health

Naloxone Access Laws

Individuals	Teams	Institution or Practice Setting

Attitudes and Biases

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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

based Incentive Payment System

REMS Requirements

Medication-Assisted Treatment (MAT) Waiver Training

Merit-

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

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
	exp *pain/ or exp *chronic pain/ or ("acute pain" or "chronic pain").kw.
	exp *narcotic analgesic agent/ or exp *opiate/ or "opioid analgesics".kw.
	exp *opiate addiction/ or ("opioid-related disorders" or "narcotic abuse" or "narcotic addiction" or "narcotic dependence" or "opiate abuse" or "opiate addiction" or "opiate dependence" or "opioid abuse" or "opioid addiction" or "opioid dependence").kw.
	exp *competence/ or exp *clinical competence/ or exp *cultural competence/ or exp *nursing competence/ or exp *professional competence/ or exp *professional practice/ or exp *practice, medical/ or exp *health personnel attitude/ or exp *dental assistant attitude/ or exp *nurse attitude/ or exp *pharmacist attitude/ or exp *physician assistant attitude/ or exp *physician attitude/ or exp *prescription/ or exp *health care quality/ or exp *health care delivery/ or exp *practice gap/ or ("competence" or "competencies" or "competency" or "clinical competence" or "practice patterns" or "prescribing behavior" or "process assessment" or "professional practice gaps" or "safe prescribing").kw.
	exp *physician/ or exp*medicine/ or (physician or doctor).kw.
	exp *physician assistant/ or physician assistants.kw.

MEDLINE DATABASE SEARCH

Group 1: Competencies

No.	Query
	exp *acute pain/ or exp *pain/ or exp *chronic pain/ or ("acute pain" or "chronic pain").kw.
	exp *analgesics, opioid/ or "opioid analgesics".kw.
	exp *opioid-related disorders/ or ("opioid-related disorders" or "narcotic abuse" or "narcotic addiction" or "narcotic dependence" or "opiate abuse" or "opiate addiction" or "opiate dependence" or "opioid abuse" or "opioid addiction" or "opioid dependence").kw.
	exp *clinical competence/ or exp *cultural competency/ or exp *professional competence/ or exp *professional practice/ or exp *practice patterns, physicians'/ or exp *practice patterns, nurses'/ or exp *practice patterns, dentists'/ or exp *attitude of health personnel/ or exp *drug prescriptions/ or exp *quality of health care/ or exp *delivery of health care/ or exp *professional practice gaps/ or ("competence" or "competencies" or "competency" or "clinical competence" or "medical practice" or "nursing competence" or "practice patterns" or "professional practice")/ or ("opioid abuse" or "opioid addiction" or "opioid dependence").kw.

	exp *dentists/ or exp *dentistry/ or exp *dental hygienists/ or exp *dental care/ or exp *dental assistants/ or ("dentist" or "dental hygienist" or "dental care" or "dental assistant" or "dental hygienist").kw.
	1 or 2
	3 and 12
	4 and 12
	13 or 14
16	5 and 15
17	6 and 16
18	limit 17 to (yr="2009 -Current" and english and journal article)
19	7 and 16
20	limit 19 to (yr="2009 -Current" and english and journal article)
21	8 and 16
22	limit 21 to (yr="2009 -Current" and english and journal article)
23	9 and 16
24	limit 23 to (yr="2009 -Current" and english and journal article)
25	10 and 16
26	limit 25 to (yr="2009 -Current" and english and journal article)
27	11 and 16
28	limit 27 to (yr="2009 -Current" and english and journal article)

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
	Study size		
	Professions and specialties included in study (all that apply)		

	Data source used to identify gap (all that apply)		
	Patient population (all that apply)		
	Type or stage in care process		
	Describes gaps related to... (all that apply)		

**Definitions
group members)**

(with validation from working

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:

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		

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 <i>AMA PRA Category 1 Credit™</i> <i>*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.</i>	
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				
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Florida				

Idaho				<hr/> <hr/> <hr/>
Illinois				<hr/> <hr/> <hr/> <hr/> <hr/>
Indiana				<hr/> <hr/> <hr/> <hr/> <hr/>

Iowa				<hr/> <hr/>
Kansas				<hr/> <hr/> <hr/>
Maine				<hr/> <hr/> <hr/>
Maryland				<hr/> <hr/> <hr/>

Massachusetts				_____ _____ _____ _____ _____ _____ _____ _____ _____
Kentucky				_____ _____ _____

Michigan				_____ _____ _____ _____ _____ _____ _____ _____ _____ _____
Minnesota				_____ _____ _____
Mississippi				_____ _____ _____
Missouri				_____ _____ _____
Montana				_____ _____ _____
Nevada				_____ _____ _____

New York				<hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/>
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North Carolina				
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North Dakota				<hr/> <hr/> <hr/>
Ohio				<hr/> <hr/>
elact				

Oregon				<hr/> <hr/> <hr/>
Pennsylvania				<hr/> <hr/> <hr/> <hr/>
Rhode Island				<hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/>

South Carolina				

Texas				

Virginia				
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Washing- ton				
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West Virginia				<hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/>
Wisconsin				<hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/>

Wyoming				<hr/> <hr/> <hr/>
Guam				<hr/> <hr/> <hr/> <hr/>

Nursing Continuing Education Requirements by State.

ment

Pain Medicine

Annals of Emergency

Medicine

Appendix 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.

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

Clinics of North America *Psychiatric*

Journal of Emergency Medicine *Western*

Substance Abuse

Pain Medicine

Addiction Medicine *Journal of*

JAMA Network Open

rics *Clinical Pediat-*

Wisconsin Medical Journal

Current Drug Safety

coepidemiology and Drug Safety *Pharma-*

Journal of Cancer Education

of the American Board of Family Medicine *The Journal*

The American Journal of Surgery

Journal of Substance Abuse Treatment

Otolaryngology–Head and Neck Surgery

Journal of Acquired Immune De iciency Syndromes

Journal of Opioid Management

tators to use of medications for opioid use disorder.

Evidence brief: Barriers and facili-

Pain Medicine

Pain

Journal

of Opioid Management

Journal of the American

Academy of Orthopaedic Surgeons

The Annals of Family Medicine

cine

Journal of Addiction Medi-

Medicine

Academic Emergency

in Clinical Neuroscience

Innovations

Cureus Journal of Medical Science

American Journal on Addictions

The

Otolaryngology–Head and Neck Surgery

Journal of Opioid Management

Pain

The Journal of

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

