

# BEST PRACTICES ON CHRONIC PAIN TREATMENT AND MANAGEMENT IN ADULTS



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Exploring the Treatment & Management of Chronic Pain and Implications for Disability Determinations | NASEM Health & Medicine

# Disclosures

☐ None

# Learning Objectives

- Define chronic pain
- Discuss the importance of pain management on function and disability
- Describe best practices for chronic pain management in adults:
  - ▣ Treatment
    - Analgesics
    - Targeted interventions
    - Physical therapy/exercise
    - Psychology
    - Precision Medicine
    - Neuromodulation
  - ▣ Assessment

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# Chronic Pain

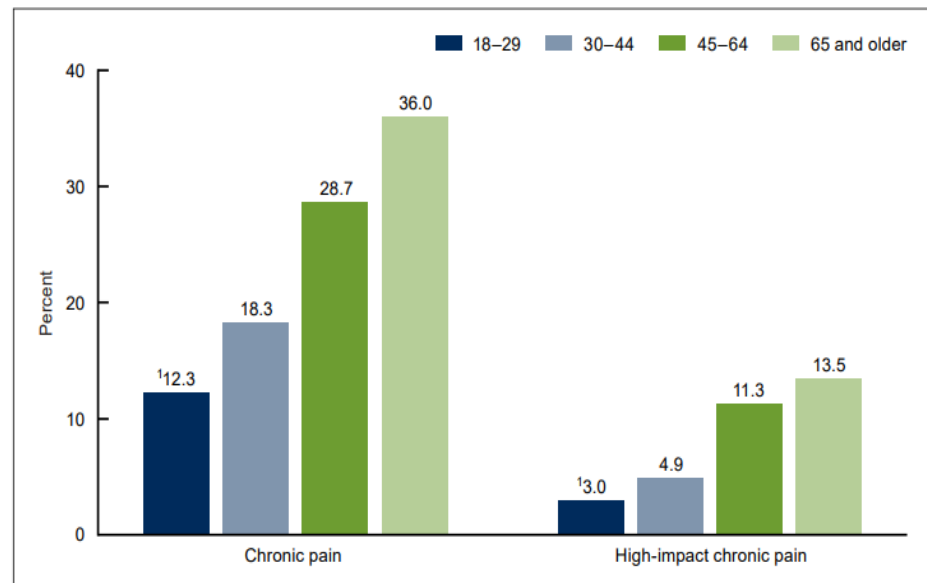
- 📖 “Pain that persists or recurs for **longer than 3 months**. Such pain often becomes the sole or predominant clinical problem in some patients<sup>1</sup>” - *International Association for the Study of Pain*
- ✗ Pain affecting work and activities of daily living: **high-impact chronic pain**

NCHS Data Brief ■ No. 518 ■ November 2024

## Chronic Pain and High-impact Chronic Pain in U.S. Adults, 2023

Jacqueline W. Lucas, M.P.H., and Inderbir Sohi, M.S.P.H.

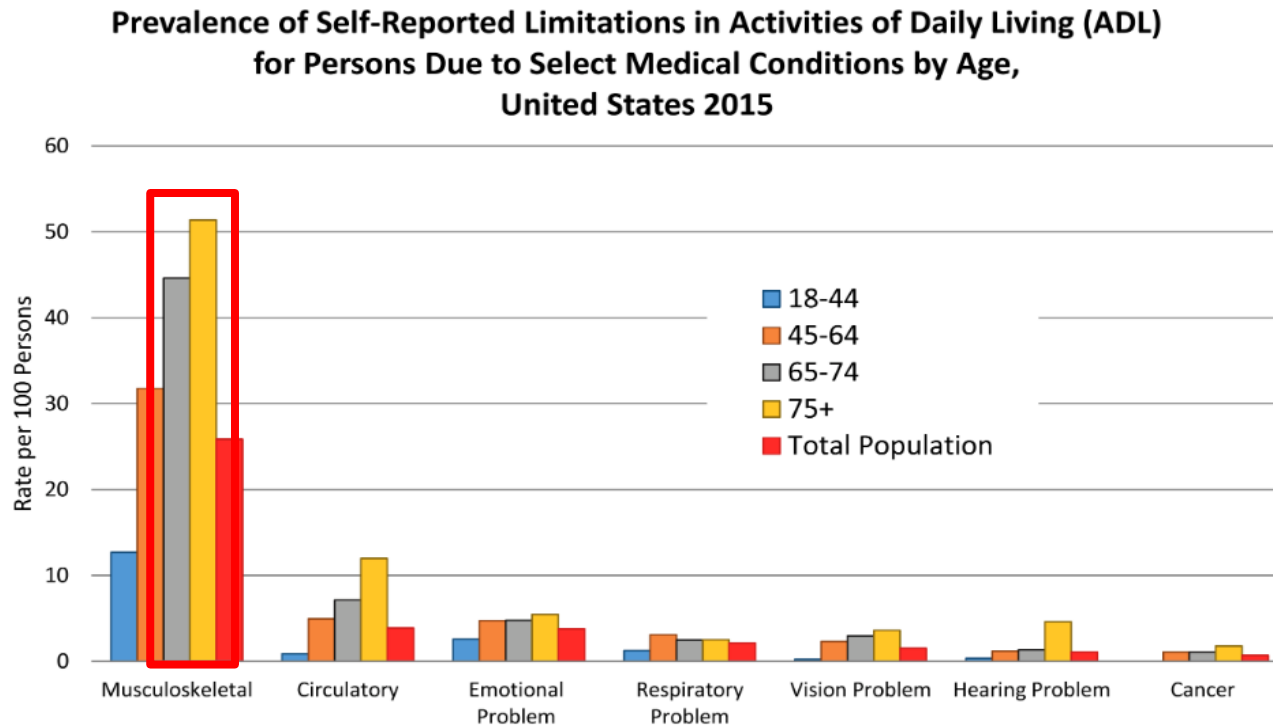
**Chronic pain** increases with age and can **limit mobility** causing **disability**.



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# Chronic Pain & Disability

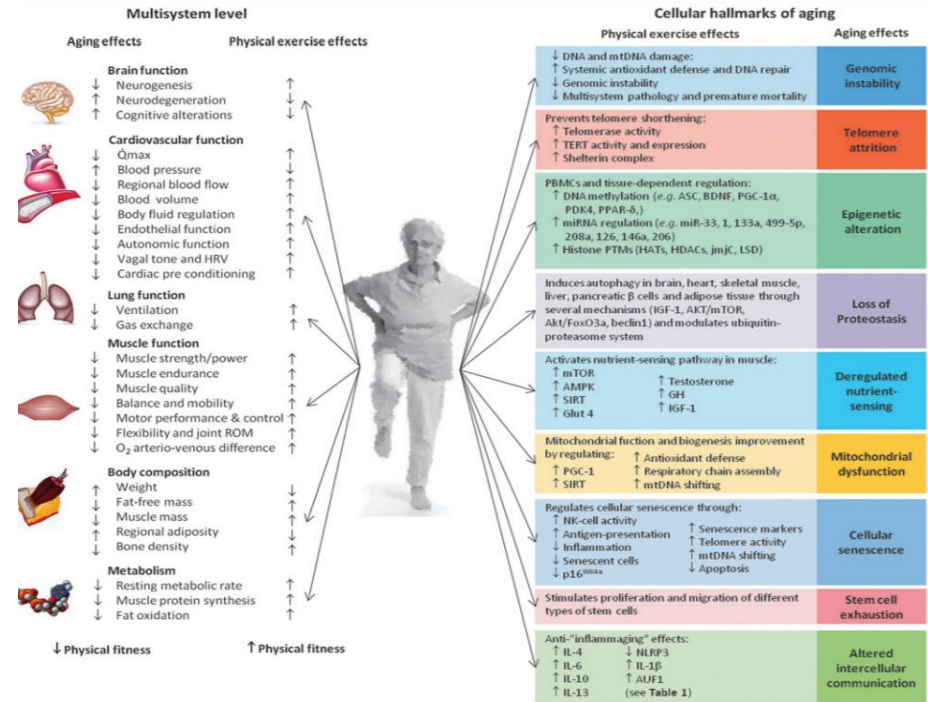


**Musculoskeletal Conditions** account for **34.1% of Social Security Disability** (Dec 2023) contributing \$500-635 billion dollars spent annually

# Chronic Pain & Disability



- ✗ Chronic disease prevention
- ✗ Community integration
- ✗ Improved QOL
- ✗ Slow cognitive decline



Adapted from Garatachea et al. (2015)

Bauman et al. Updating the Evidence for Physical Activity: Summative Reviews of the Epidemiological Evidence, Prevalence, and Interventions to Promote "Active Aging". *The Gerontologist*. 2016, Vol 56. No 52. S268-S280.

Cruz-Almeida et al. Associations of Musculoskeletal Pain with Mobility in Older Adults: Potential Cerebral Mechanisms. *J Gerontol A Biol Sci Med Sci* 2017, Vol 72. No 9. 1270-1276.



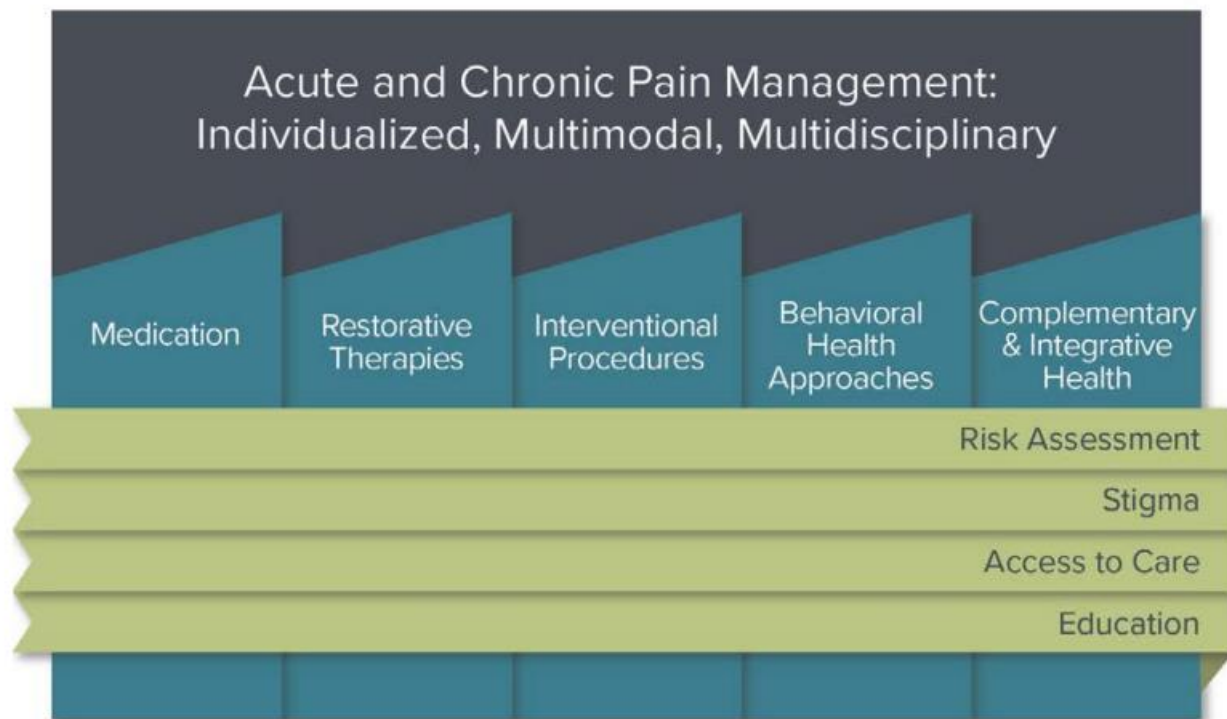
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# Chronic Pain Management

## PAIN MANAGEMENT BEST PRACTICES INTER-AGENCY TASK FORCE REPORT

Updates, Gaps, Inconsistencies, and Recommendations



**Individualized**

**Multimodal**

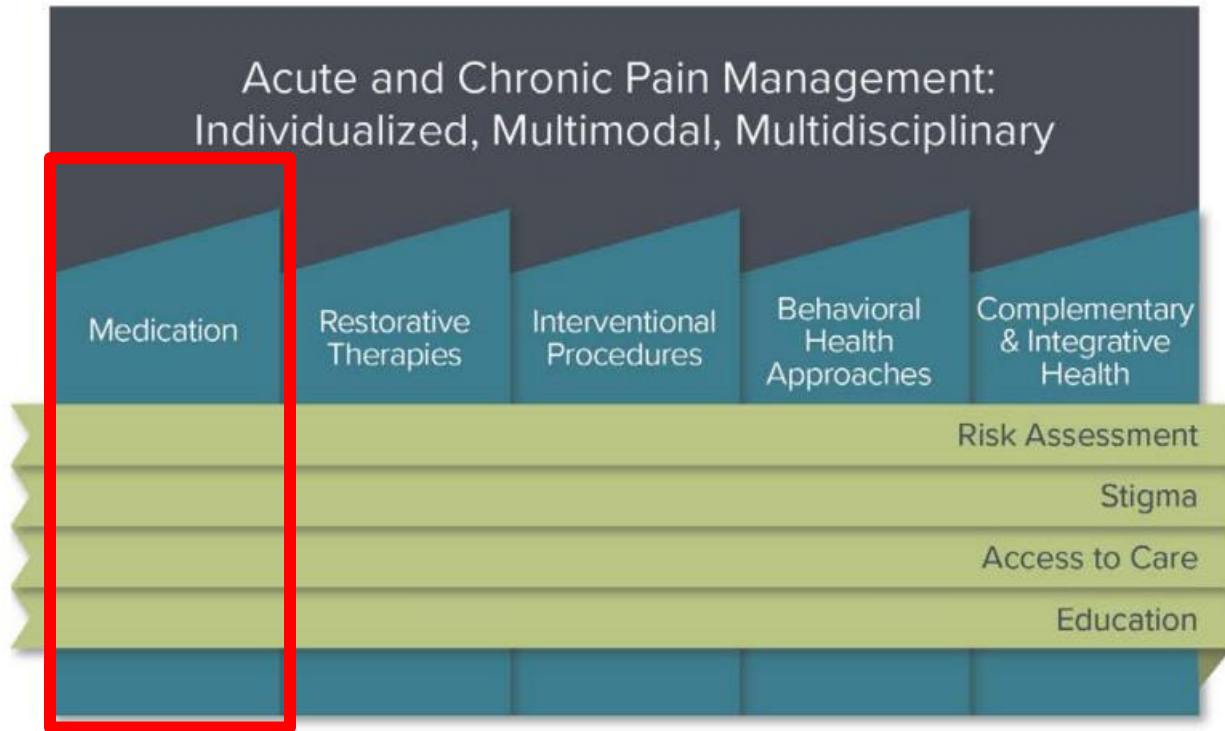
**Multidisciplinary**

Adapted from (2019) Pain Management Best Practices Inter-Agency Task Force.

# Chronic Pain Management

## PAIN MANAGEMENT BEST PRACTICES INTER-AGENCY TASK FORCE REPORT

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**Non-opioid**

**Opioid**

Adapted from (2019) Pain Management Best Practices Inter-Agency Task Force.

**CDC recommends non-pharmacologic and non-opioids as first-line therapies, when clinically appropriate.**

# Chronic Pain Management: Analgesics

| Table D. Pharmacologic Treatments |                                                                                         |                                   |                                                 |
|-----------------------------------|-----------------------------------------------------------------------------------------|-----------------------------------|-------------------------------------------------|
| Class of Medication               | Indications <sup>a</sup>                                                                | Magnitude of Benefit <sup>b</sup> |                                                 |
|                                   |                                                                                         | PAIN                              | FUNCTION                                        |
| NSAIDs (topical or oral)          | Low back pain, osteoarthritis, inflammatory arthritis, acute musculoskeletal (MSK) pain | Small to moderate                 | None to small                                   |
| Acetaminophen                     | Acute MSK pain                                                                          | Small                             | None                                            |
| Antidepressants                   | Diabetic peripheral neuropathy, fibromyalgia                                            | Small                             | None                                            |
| Anticonvulsants                   | Diabetic peripheral neuropathy, fibromyalgia                                            | Small to moderate                 | None (neuropathic pain)<br>Small (fibromyalgia) |

Adapted from (2021) *AAFP Chronic Pain Management Toolkit*. Pain Management Section 3.

Utilize the **lowest effective** dosage for **pain relief** and **functional improvement**.

# Analgesic Harms

**Prepared for:**  
 Agency for Healthcare Research and Quality  
 U.S. Department of Health and Human Services  
 5600 Fishers Lane  
 Rockville, MD 20857  
 www.ahrq.gov

**Table B-2. Harms**

| <b>Drug(s)/Drug Class</b>                                   | <b>Harms by Drug Class</b>                                                                 |
|-------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| All drugs                                                   | Withdrawal due to adverse events, serious adverse events, overdose, misuse, and dependence |
| Serotonin-norepinephrine reuptake inhibitor antidepressants | Cognitive effects, nausea, sedation                                                        |
| Tricyclic antidepressants                                   | Cardiac rhythm abnormalities, cognitive effects, dry mouth, urinary retention, weight gain |
| Pregabalin/gabapentin anticonvulsants                       | Blurred vision, cognitive effects, dizziness, peripheral edema, sedation, weight gain      |
| Oxcarbazepine/carbamazepine anticonvulsants                 | Cognitive effects, hyponatremia, neutropenia, sedation                                     |
| NSAIDs                                                      | CV events, GI, liver dysfunction, renal dysfunction                                        |
| Skeletal muscle relaxants                                   | Dry mouth, sedation, urinary retention                                                     |
| Acetaminophen                                               | Liver toxicity                                                                             |
| Memantine                                                   | Cardiac rhythm abnormalities, cognitive effects, dizziness, sedation                       |
| Topical (any)                                               | Application site reactions                                                                 |
| Topical lidocaine                                           | Cardiotoxicity, cognitive effects                                                          |
| Topical diclofenac                                          | CV events, GI, liver dysfunction, renal dysfunction                                        |
| Cannabis                                                    | Addiction/dependence, cognitive effects, hyperemesis, nausea, sedation                     |



## CDC Clinical Practice Guideline for Prescribing Opioids for Pain — United States, 2022

Recommendations and Reports / November 4, 2022 / 71(3);1–95

**BOX 3. Recommendations for prescribing opioids for outpatients with pain, excluding pain management related to sickle cell disease, cancer-related pain treatment, palliative care, and end-of-life care; recommendation categories; and evidence types — CDC Clinical Practice Guideline for Prescribing Opioids for Pain — United States, 2022**



### Determining Whether or Not to Initiate Opioids for Pain (Recommendations 1 and 2)

1. Nonopioid therapies are at least as effective as opioids for many common types of acute pain. Clinicians should maximize use of nonpharmacologic and nonopioid pharmacologic therapies as appropriate for the specific condition and patient and only consider opioid therapy for acute pain if benefits are anticipated to outweigh risks to the patient. Before prescribing opioid therapy for acute pain, clinicians should discuss with patients the realistic benefits and known risks of opioid therapy (recommendation category: B; evidence type: 3).
2. Nonopioid therapies are preferred for subacute and chronic pain. Clinicians should maximize use of nonpharmacologic and nonopioid pharmacologic therapies as appropriate for the specific condition and patient and only consider initiating opioid therapy if expected benefits for pain and function are anticipated to outweigh risks to the patient. Before starting opioid therapy for subacute or chronic pain, clinicians should discuss with patients the realistic benefits and known risks of opioid therapy, should work with patients to establish treatment goals for pain and function, and should consider how opioid therapy will be discontinued if benefits do not outweigh risks (recommendation category: A; evidence type: 2).

### Selecting Opioids and Determining Opioid Dosages (Recommendations 3, 4, and 5)

3. When starting opioid therapy for acute, subacute, or chronic pain, clinicians should prescribe immediate-release opioids instead of extended-release and long-acting (ER/LA) opioids (recommendation category: A; evidence type: 4).
4. When opioids are initiated for opioid-naïve patients with acute, subacute, or chronic pain, clinicians should prescribe the lowest effective dosage. If opioids are continued for subacute or chronic pain, clinicians should use caution when prescribing opioids at any dosage, should carefully evaluate individual benefits and risks when considering increasing dosage, and should avoid increasing dosage above levels likely to yield diminishing returns in benefits relative to risks to patients (recommendation category: A; evidence type: 3).
5. For patients already receiving opioid therapy, clinicians should carefully weigh benefits and risks and exercise care when changing opioid dosage. If benefits outweigh risks of continued opioid therapy, clinicians should work closely with patients to optimize nonopioid therapies while continuing opioid therapy. If benefits do not outweigh risks of continued opioid therapy, clinicians should optimize other therapies and work closely with patients to gradually taper to lower dosages or, if warranted based on the individual circumstances of the patient, appropriately taper and discontinue opioids. Unless there are indications of a life-threatening issue such as warning signs of impending overdose (e.g., confusion, sedation, or slurred speech), opioid therapy should not be discontinued abruptly, and clinicians should not rapidly reduce opioid dosages from higher dosages (recommendation category: B; evidence type: 4).





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*Recommendations and Reports* / November 4, 2022 / 71(3);1–95

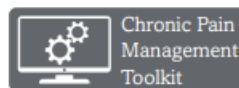
### Deciding Duration of Initial Opioid Prescription and Conducting Follow-Up (Recommendations 6 and 7)

6. When opioids are needed for acute pain, clinicians should prescribe no greater quantity than needed for the expected duration of pain severe enough to require opioids (recommendation category: A; evidence type: 4).
7. Clinicians should evaluate benefits and risks with patients within 1–4 weeks of starting opioid therapy for subacute or chronic pain or of dosage escalation. Clinicians should regularly reevaluate benefits and risks of continued opioid therapy with patients (recommendation category: A; evidence type: 4).

### Assessing Risk and Addressing Potential Harms of Opioid Use (Recommendations 8, 9, 10, 11, and 12)

8. Before starting and periodically during continuation of opioid therapy, clinicians should evaluate risk for opioid-related harms and discuss risk with patients. Clinicians should work with patients to incorporate into the management plan strategies to mitigate risk, including offering naloxone (recommendation category: A; evidence type: 4).
9. When prescribing initial opioid therapy for acute, subacute, or chronic pain, and periodically during opioid therapy for chronic pain, clinicians should review the patient's history of controlled substance prescriptions using state prescription drug monitoring program (PDMP) data to determine whether the patient is receiving opioid dosages or combinations that put the patient at high risk for overdose (recommendation category: B; evidence type: 4).
10. When prescribing opioids for subacute or chronic pain, clinicians should consider the benefits and risks of toxicology testing to assess for prescribed medications as well as other prescribed and nonprescribed controlled substances (recommendation category: B; evidence type: 4).
11. Clinicians should use particular caution when prescribing opioid pain medication and benzodiazepines concurrently and consider whether benefits outweigh risks of concurrent prescribing of opioids and other central nervous system depressants (recommendation category: B; evidence type: 3).
12. Clinicians should offer or arrange treatment with evidence-based medications to treat patients with opioid use disorder. Detoxification on its own, without medications for opioid use disorder, is not recommended for opioid use disorder because of increased risks for resuming drug use, overdose, and overdose death (recommendation category: A; evidence type: 1).

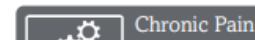
# Opioid Medication for Chronic Pain Agreement



## ment: Opioids

This is an agreement between \_\_\_\_\_ (patient) and Dr. \_\_\_\_\_.

I am being treated with opioid medication for my chronic pain, which I understand may not completely rid me of my pain, but will decrease it enough that I can be more active. I understand that, because this medication has risks and side effects, my doctor needs to monitor my treatment closely in order to keep me safe. I acknowledge that I am taking this medication over time to meet my functional goals, and that my doctor will discuss the risks of the medication, as well as any changes that occur during my treatment. In addition,



| Patient Initials | Please read the statements below and initial in the box at the left.                                                                             |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
|                  | I understand that the medication may be stopped or changed to an alternate medication if it does not meet my functional goals.                   |
|                  | To reduce risk, I will take medication as prescribed. I will not take more frequently than prescribed.                                           |
|                  | I will inform my doctor of all side effects I experience.                                                                                        |
|                  | To reduce risk, I will not take sedatives, alcohol, or illegal drugs while taking this medication.                                               |
|                  | I will submit to urine and/or blood tests to assist in monitoring my treatment.                                                                  |
|                  | I understand that my doctor or his/her staff may check the state prescription database against overlapping prescriptions.                        |
|                  | I will receive my prescription for this medication only from Dr. _____.                                                                          |
|                  | I will fill this prescription at only one pharmacy. (Fill in pharmacy information below)                                                         |
|                  | I will keep my medication in a safe place. I understand if my medication is lost or stolen, it will not be replaced.                             |
|                  | I will do my best to keep all scheduled follow-up appointments. I understand that my prescription will not be refilled if I miss my appointment. |

| Urine Drug Testing for Commonly Used and Misused Drugs |                |                                                                         |                                                                                                                 |
|--------------------------------------------------------|----------------|-------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| OPIATES                                                |                |                                                                         |                                                                                                                 |
| Drug                                                   | Detection Time | Test Order                                                              | False Positive                                                                                                  |
| Codeine                                                | 1-3 days       | Opiates Immunoassay*<br>Confirmatory test: GC/MS or LC/MS/MS**          | Dextromethorphan, diphenhydramine, heroin, poppy seeds, quinine, quinolones, rifampin, verapamil, other opiates |
| Morphine                                               | 1-3 days       | Opiates Immunoassay*<br>Confirmatory test: GC/MS or LC/MS/MS            | Dextromethorphan, diphenhydramine, heroin, poppy seeds, quinine, quinolones, rifampin, verapamil, other opiates |
| Fentanyl                                               | 1-3 days       | GC/MS or LC/MS/MS Fentanyl                                              | n/a                                                                                                             |
| Meripidine                                             | 1-3 days       | GC/MS or LC/MS/MS Meperidine                                            | n/a                                                                                                             |
| Methadone                                              | 3-7 days       | Methadone Immunoassay<br>Confirmatory test: GC/MS or LC/MS/MS Methadone | Diphenhydramine, clomipramine                                                                                   |
| Hydrocodone                                            | 1-3 days       | Opiates immunoassay<br>Confirmatory test: GC/MS or LC/MS/MS             | Dextromethorphan, diphenhydramine, heroin, poppy seeds, quinine, quinolones, rifampin, verapamil, other opiates |
| Hydromorphone                                          | 1-3 days       | Opiates immunoassay<br>Confirmatory test: GC/MS or LC/MS/MS             | Dextromethorphan, diphenhydramine, heroin, poppy seeds, quinine, quinolones, rifampin, verapamil, other opiates |
| Oxycodone                                              | 1-3 days       | Opiates immunoassay<br>Confirmatory test: GC/MS or LC/MS/MS             | Dextromethorphan, diphenhydramine, heroin, poppy seeds, quinine, quinolones, rifampin, verapamil, other opiates |
| Oxymorphone                                            | 1-3 days       | Opiates immunoassay<br>Confirmatory test: GC/MS or LC/MS/MS             | Dextromethorphan, diphenhydramine, heroin, poppy seeds, quinine, quinolones, rifampin, verapamil, other opiates |

Medication name, dose, frequency \_\_\_\_\_

Pharmacy name \_\_\_\_\_

Pharmacy phone number \_\_\_\_\_

By signing below, we agree that we are comfortable with this agreement and our responsibilities.

### Total Score Risk Category

Low Risk 0-3

Moderate Risk 4-7

High Risk ≥8



# Chronic Pain Management: Opioids

Research

JAMA. 2018;319(12):1258-1267. doi:10.1001/jama.2018.11111

OLDER ADULT FALLS  
OPIOIDS AFFECT FALL RISK

JAMA | Original Investigation

THE LANCET

Sul

ARTICLES | ONLINE FIRST

## Opioid analgesia for acute low back pain and neck pain (the OPAL trial): a randomised placebo-controlled trial

Caitlin M P Jones, PhD • Prof Richard O Day, MD • Prof Bart W Koes, PhD • Prof Jane Latimer, PhD •

Prof Chris G Maher, DMedSc • Prof Andrew J McLachlan, PhD • et al. [Show all authors](#) • [Show footnotes](#)

Published: June 28, 2023 • DOI: [https://doi.org/10.1016/S0140-6736\(23\)00404-X](https://doi.org/10.1016/S0140-6736(23)00404-X) •



all-cause mortality compared with commonly prescribed nonsteroidal anti-inflammatory drugs, but further research is needed to determine if this relationship is causal.

residents with **chronic non-cancer pain**  
receive **regularly scheduled opioids**

# Chronic Pain Medication Management

| Table D. Pharmacologic Treatments |                                                                                         |                                   |                                                 |
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| Anticonvulsants                   | Diabetic peripheral neuropathy, fibromyalgia                                            | Small to moderate                 | None (neuropathic pain)<br>Small (fibromyalgia) |
| Opioids                           | Acute MSK pain, chronic pain, neuropathy                                                | Small to no benefit <sup>c</sup>  | Small to no benefit <sup>c</sup>                |

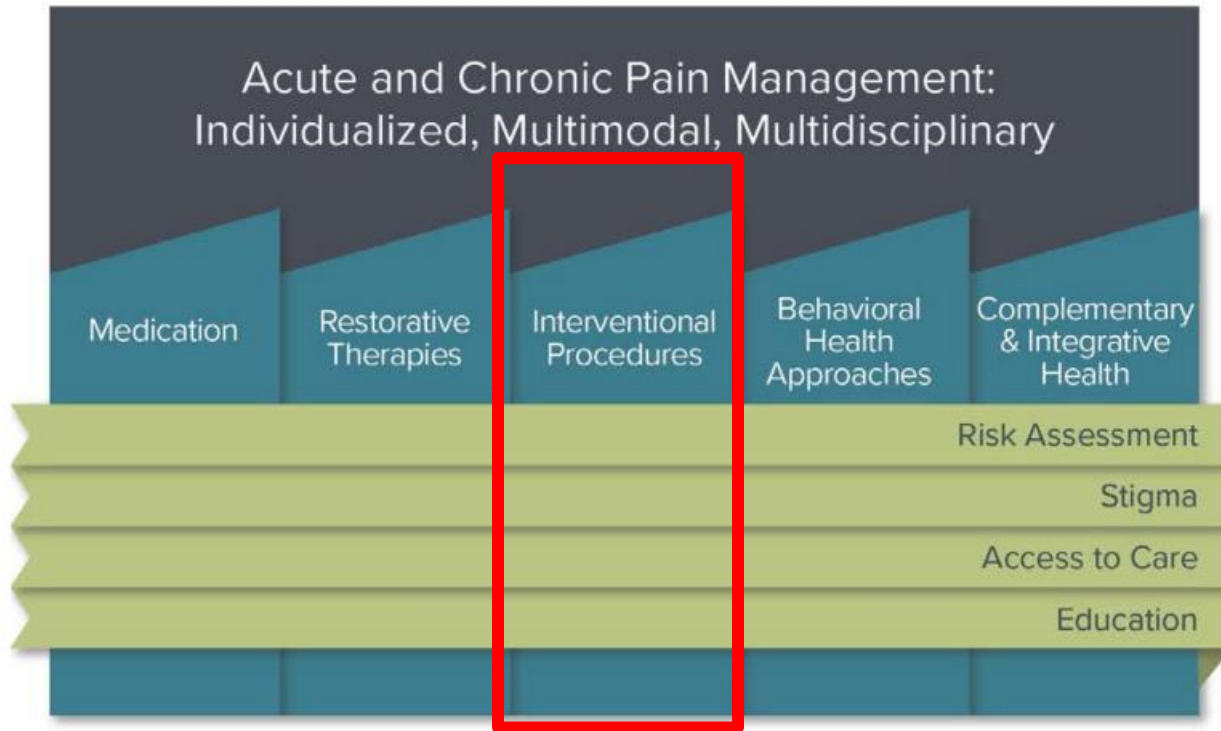
Adapted from (2021) *AAFP Chronic Pain Management Toolkit*. Pain Management Section 3.

Pharmacologic Management can be **ineffective** and **limited**.

# Chronic Pain Management

## PAIN MANAGEMENT BEST PRACTICES INTER-AGENCY TASK FORCE REPORT

Updates, Gaps, Inconsistencies, and Recommendations



Adapted from (2019) Pain Management Best Practices Inter-Agency Task Force.

# Chronic Pain Management: Interventions

Assessment of Utilization of IPM Techniques in the Medicare Population

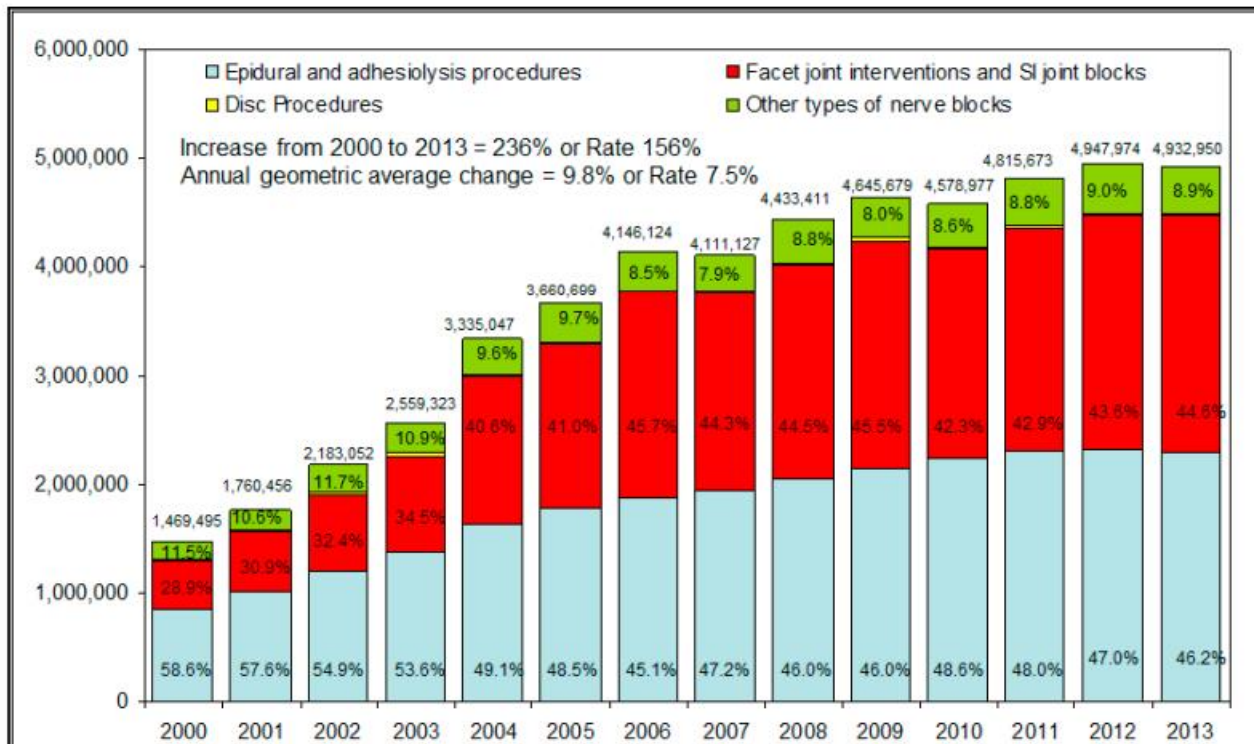


Fig. 1. Distribution of procedural characteristics by type of procedures from 2000 to 2013.

Degree of Complexity

## Example

- Trigger Point Injections
- Joint Injections
- Peripheral Nerve Blocks
- Facet Joint Injections
- Epidural Steroid Injections
- Radio-frequency Ablation
- Regenerative Medicine
- Celiac Plexus Block
- Cryoneurolysis
- Neuromodulation
- Spinal Cord Stimulation
- Intrathecal Drug Delivery
- Epidural Anesthesia
- Vertebral Augmentation
- Interspinous Process Stents
- Percutaneous Discectomy

Figure 12: Interventional Procedures

Epidural Administration

Neuromodulation

Vertebral augmentation



# Chronic Pain Management: Interventions

- ✗ **Fewer side effects** in comparison to pharmacologic interventions
- ✗ **Combine** interventions with **therapy** for **synergistic** benefit
- ✗ Interventions **limit** the **need** for **pharmacologic** interventions or **surgery**

**Interventions** offer a **direct, targeted** approach to both **diagnosing** and **treating** a **pain generator** however requires **complex** decision making

|                   | Non-PT       | PT            | P-value |
|-------------------|--------------|---------------|---------|
| Abduction         |              |               |         |
| Baseline (wk)     | 50 (40-60)   | 50 (41-102)   | 0.39    |
| 6                 | 70 (43-90)   | 100 (80-140)  | 0.01    |
| 12                | 80 (65-98)   | 100 (90-165)  | 0.03    |
| 26                | 85 (80-149)  | 130 (85-170)  | 0.33    |
| Anteflexion       |              |               |         |
| Baseline (wk)     | 70 (70-80)   | 95 (48-120)   | 0.25    |
| 6                 | 90 (75-111)  | 140 (105-165) | 0.02    |
| 12                | 90 (80-146)  | 130 (115-155) | 0.06    |
| 26                | 100 (90-160) | 155 (110-170) | 0.17    |
| External rotation |              |               |         |
| Baseline (wk)     | 0 (0-5)      | 8 (0-24)      | 0.14    |
| 6                 | 13 (5-26)    | 40 (30-43)    | 0.01    |
| 12                | 18 (8-29)    | 40 (25-65)    | 0.04    |
| 26                | 30 (13-44)   | 50 (35-60)    | 0.07    |
| SPADI total       |              |               |         |
| Baseline (wk)     | 80 (65-87)   | 82 (35-86)    | 0.54    |
| 6                 | 63 (45-76)   | 14 (6-38)     | 0.01    |
| 12                | 42 (25-72)   | 16 (7-58)     | 0.17    |
| 26                | 14 (11-39)   | 10 (2-28)     | 0.44    |

SPADI: Shoulder Pain and Disability Index; PT: Physiotherapy treatment.  
Adapted from Kraal et al. (2018)

**Ultrasound-guided** glenohumeral corticosteroid injection (**CSI**) when combined with physical therapy (**PT**) **improves ROM** and **decreases** shoulder **pain** in the first 12 wks for frozen shoulder.



# Chronic Pain Management: Interventional Pain Barriers

**Gap 2:** Inconsistencies and frequent delays exist in insurance coverage for interventional pain techniques that are clinically appropriate for a particular condition and context.

- **Recommendation 2a:** Encourage CMS and private payers to provide consistent and timely insurance coverage for evidence-informed interventional procedures early in the course of treatment when clinically appropriate. These procedures can be paired with medication and other therapies to improve function and QOL.
- **Recommendation 2b:** CMS and other payers must restore reimbursement to non-hospital sites of service to improve access and lower the cost of interventional procedures.

## Interventional Treatments for Acute and Chronic Pain: Systematic Review

### Prepared for:

Agency for Healthcare Research and Quality  
U.S. Department of Health and Human Services  
5600 Fishers Lane  
Rockville, MD 20857  
[www.ahrq.gov](http://www.ahrq.gov)

**Results.** Thirty-seven randomized trials (in 48 publications) were included. Vertebroplasty (13 trials) is probably more effective at reducing pain and improving function in older (>65 years of age) patients, but benefits are small (less than 1 point on a 10-point pain scale). Benefits appear smaller (but still present) in sham-controlled (5 trials) compared with usual care controlled trials (8 trials) and larger in trials of patients with more acute symptoms; however, testing for subgroup effects was limited by imprecision. Vertebroplasty is probably not associated with increased risk of incident vertebral fracture (10 trials). Kyphoplasty (2 trials) is probably more effective than usual care for pain and function in older patients with vertebral compression fracture at up to 1 month (moderate to large benefits) and may be more effective at >1 month to ≥1 year (small to moderate benefits) but has not been compared against sham therapy. Evidence on kyphoplasty and risk of incident fracture was conflicting. In younger (below age for Medicare eligibility) populations, cooled radiofrequency denervation for sacroiliac pain (2 trials) is probably more effective for pain and function versus sham at 1 and 3 months (moderate to large benefits). Cooled radiofrequency for presumed facet joint pain may be similarly effective versus conventional radiofrequency, and piriformis injection with corticosteroid for piriformis syndrome may be more effective than sham injection for pain. For the other interventional procedures and conditions addressed, evidence was too limited to determine benefits and harms.

### Data Analysis

### National and Geographic Trends in Medicare Reimbursement for Pain Management 2014-2023

George Wiest, BMus<sup>1</sup>, Alexander Dorius, MBA<sup>1</sup>, Carson Bateman, BS<sup>2</sup>, and Miles Day, MD<sup>3</sup>

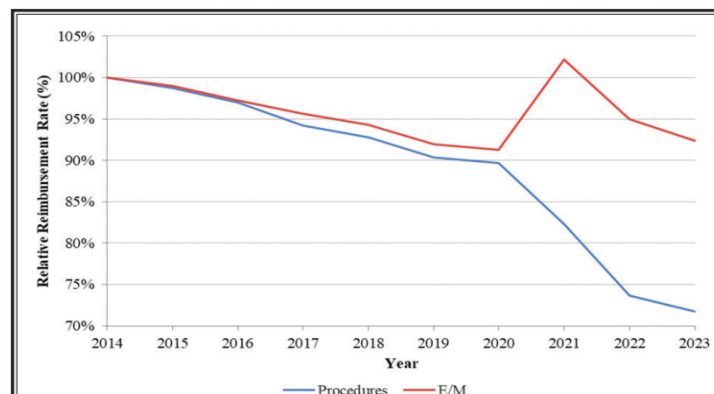


Fig. 1. Average change in Medicare reimbursement 2014-2023 for procedure and E/M reimbursement, relative to 2014.

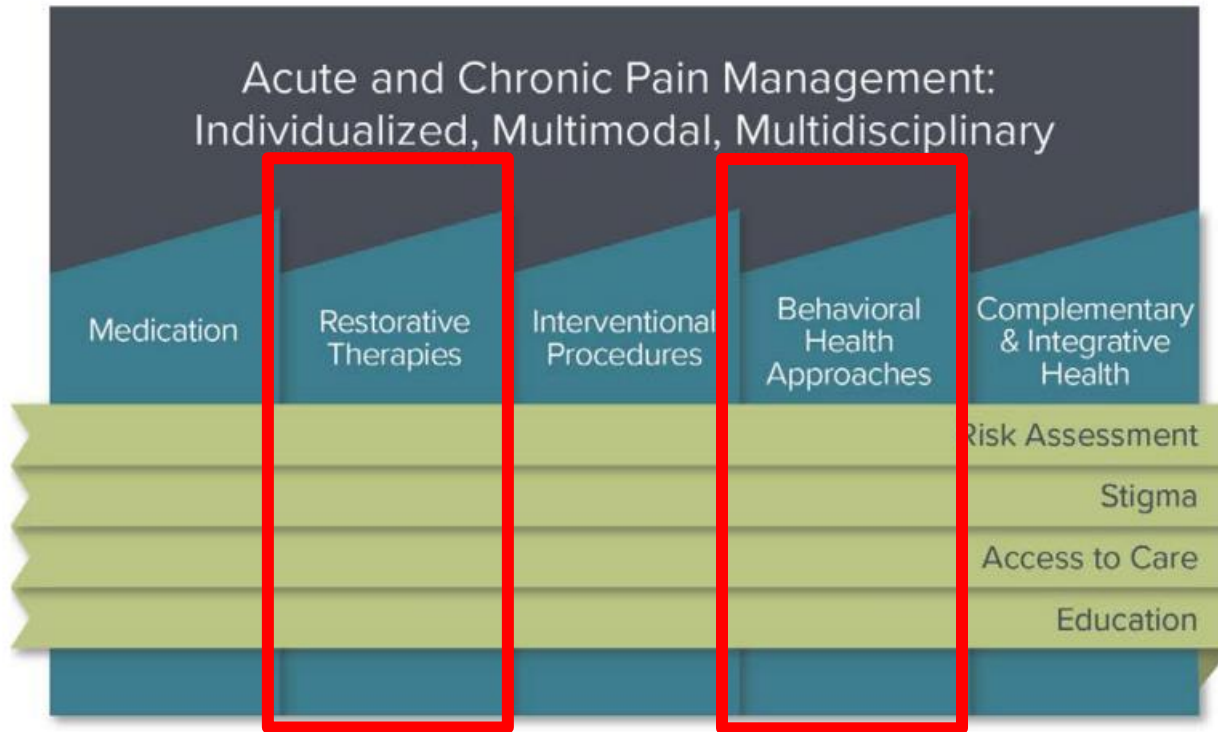
# Summary

- ✗ Chronic pain limits activity and function
- ✗ Improving mobility slows chronic disease
- ✗ Non-pharmacologic and non-opioid management is first-line treatment
- ✗ Pharmacologic managements can be limited and ineffective
  - Utilize lowest-dose effective dose for pain relief to improve function
  - Opioid Management Toolbox
- ✗ Interventions limit the need for pharmacologic interventions or surgery
  - Direct, targeted
  - Diagnostic/therapeutic
  - Complex decision making

# Chronic Pain Management

## PAIN MANAGEMENT BEST PRACTICES INTER-AGENCY TASK FORCE REPORT

Updates, Gaps, Inconsistencies, and Recommendations



Adapted from (2019) Pain Management Best Practices Inter-Agency Task Force.



# Thank you for your attention!



McGovern  
Medical School



TIRR  
MEMORIAL  
HERMANN  
Rehabilitation & Research



**Kemly Philip MD PhD MBE, FAAPMR**

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Interventional Pain*

*Dept. of Physical Medicine & Rehabilitation*

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