Community Principles of Pain Management

PRACTICE PRINCIPLES

Practice Guidelines and Principles: Guidelines and Principles are intended to be flexible. They serve as reference points or recommendations, not rigid criteria. Guidelines and Principles should be followed in most cases, but there is an understanding that, depending on the patient, the setting, the circumstances, or other factors, care can and should be tailored to fit individual needs.

Purpose and Scope: Chronic pain and prescription opioid misuse are both major public health problems that exist across the continuum of care. Pain is a major driver for visits to physicians, a major reason for taking medications, a major cause of disability, and a key factor in quality of life and productivity. These principles aim to identify and promote the essential elements of acute, chronic and palliative pain assessment and management for both children and adults, as well as recognize the risks of opioid use disorder.

The Community Principles of Pain Management provide recommendations for primary care clinicians who are assessing, managing and prescribing treatment, including opioids, for acute, chronic pain and active cancer treatment, palliative care, and end-of-life care. The Principles were revised to align with national guidelines developed by a panel of experts and aim to help clinicians meet federal and state regulations. Improving the way opioids are prescribed through clinical practice guidelines and principles can ensure patients have access to safe and effective chronic pain treatments, while reducing the number of people who misuse or overdose from these drugs. Drug overdose deaths and opioid-involved deaths continue to increase in the United States. Deaths from drug overdose are up among men and women, all races, and adults of nearly all ages.

Key Recommendations/Messages:

• While all patients should be screened for pain, identifying a specific etiology for pain is challenging. A complete assessment, including physical, mental, emotional, and spiritual components is helpful in determining the appropriate course of management.

• It is essential to establish and focus treatment on patient specific SMART (Specific, Measurable, Agreed Upon, Realistic, Time-based) goals that result in improved function and quality of life and reduction in suffering. All patients should be engaged in active management of their pain (active approach.) Because chronic pain affects the whole person (body, mind, and spirit), patient-centered nonpharmacologic therapies that acknowledge the patients' roles in their own healing processes have the potential to provide more efficient and comprehensive chronic pain management. Active self-care therapies allow for a more diverse, patient-centered treatment of complex symptoms, promote self-management, and are relatively safe and cost-effective.

• Treat acute pain actively to avoid transition to chronicity.

• Treat chronic pain thoughtfully and systematically.

• Long-term opioid use often begins with treatment of acute pain. When opioids are used for acute pain, clinicians should prescribe the lowest effective dose of immediate-release opioids & no greater quantity than needed for the expected duration of pain severe enough to require opioids.

• Check Prescription Drug Monitoring Program for opioids or benzodiazepines from other sources. Follow State and federal regulations.

• Use risk assessment tools (e.g. Opioid Risk Tool-Revised), treatment agreements (1 Prescriber, 1 Pharmacy), and medically necessary urine drug testing.

• Opioids are not first line for chronic pain, which should be managed with an active nondrug approach and non-opioid pain relievers, if possible.

• Consider opioid therapy based on a careful risk assessment that determines the expected benefits for both pain & function are anticipated to outweigh risks.

• When opioids are indicated, establish treatment goals and combine with an active nondrug approach and & nonopioid pharmacologic therapy, as indicated.

• When opioids are indicated, develop and document a written treatment plan in the medical record. Review at least annually, using a risk/benefit analysis. Treatment plans must include the goals for pain management and functional improvement based on the patient's diagnosis. A full discussion of how this opioid treatment will be tapered to lower doses or tapered and discontinued, if benefits do not outweigh the risks, is required. The physician must also advise the patient of alternatives to and the risks of alternatives to opioids (informed consent is a discussion of the risks/benefits/alternatives including the alternatives, no treatment, and risks of alternatives).

• When opioids are indicated, use a Pain Management Agreement and Informed Consent.
• Continue opioid therapy only if there is clinically meaningful improvement in pain and function that outweighs risks to patient safety.
• If benefits do not outweigh harms of continued opioid therapy, optimize other therapies and work with patients to taper opioids to lower dosages or to taper and discontinue opioids.
• **Avoid abrupt cessation of opioids.**
• Address opioid-seeking behavior and addiction behaviors without moving patients to illegal means of obtaining opioids.
• Prescribe Medication-Assisted Therapy (MAT) for opioid use disorder; prescribe naloxone for patients at increased risk for opioid overdosing
• Ensure safe medication disposal to avoid unauthorized access, reduce potential harm, and conserve the environment

**When to Refer:**
- For acute pain, refer early to appropriate specialist or pain center if diagnosis unclear or pain refractory to treatment.
- For chronic pain, refer “difficult to treat” cases to a physician with pain management expertise.
- For opioid-seeking behavior and addiction behaviors, refer to addiction or pain specialist and community services as needed.

**Distributed to:** All primary care physicians, specialists and allied health professionals including nurse practitioners, physician assistants, nurses, nursing assistants, rehabilitation specialists, physical therapists, occupational therapists, chiropractors, acupuncturists, other complementary medicine providers, dentists, clergy, psychologists, pharmacologists, social workers, skilled nursing facilities, assisted living centers, homecare agencies, and hospice organizations.

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**Approved by:** Monroe County Medical Society Quality Committee and the Excellus Health Care Quality Monitoring Committee June 2019; next revision: 2021.

Use the “Shopping Cart” button on the home page of CompassionAndSupport.org or MOLST.org to place a free order for:
- Pain Management Patient Guide (available in English and Spanish)
- Equianalgesic Table for Adults (Pocket Card)
- Equianalgesic Table for Pediatrics (Pocket Card)

The comprehensive Pain Toolkit and all individual components, along with additional resources, can be found in the Pain & Symptoms section of CompassionAndSupport.org: [https://compassionandsupport.org/pain-symptoms/pain-guidelines/](https://compassionandsupport.org/pain-symptoms/pain-guidelines/)

**Additional web pages include:**
- Opioid Use Disorder: [https://compassionandsupport.org/pain-symptoms/opioid-use-disorder/](https://compassionandsupport.org/pain-symptoms/opioid-use-disorder/)
- Patient Resources: [https://compassionandsupport.org/pain-symptoms/patient-resources/](https://compassionandsupport.org/pain-symptoms/patient-resources/)

**Information can also be found on the Monroe County Medical Society website:** [http://mcms.org/communityprinciples](http://mcms.org/communityprinciples)

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# COMMUNITY PRINCIPLES OF PAIN MANAGEMENT (CPPM)

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### Assesement and Diagnosis

While all patients should be screened for pain, identifying a specific etiology for pain is challenging. A complete assessment, including physical, mental, emotional, and spiritual components is helpful in determining the appropriate course of management.

All patients should be actively engaged in self-management of their pain (an ‘active’ approach). If necessary, therapies that represent a ‘passive’ approach may be utilized to encourage self-management strategies to help achieve patient centered goals.

**History: Assess**
- Onset, location, quality, intensity, temporal pattern, aggravating and alleviating factors, associated symptoms
- Characteristics of pain
- Red flags: indicative of underlying pathology
- Yellow flags: Psychosocial factors shown to be indicative of long-term chronicity and disability: A negative attitude that pain is harmful or potentially severely disabling; fear avoidance behavior and reduced activity levels; an expectation that passive, rather than active, treatment will be beneficial; a tendency to depression, low morale, and social withdrawal; social or financial problems
- Review previous methods of treatment, response to treatment & adverse reactions
- Other medical and surgical conditions
- Substance use

**Psychosocial History: Assess**
- Depression, anxiety, PTSD, sleep pattern, suicide risk
- Impact on quality of life, ADLs & functional status
- Pain coping skills
- Patient, family, and caregiver’s cultural and spiritual beliefs
- Secondary gain: psychosocial/financial

**Pain, Function & Quality of Life: Assess**
- Evaluate pain on all patients using the 0-10 scale (Use Faces Pain Scale – Revised):
  - A. mild pain: 1-3
  - B. moderate: 4-7 (interferes with work or sleep)
  - C. severe: 8-10 (interferes with all activities)
- Capture variation in pain severity at different sites of pain (Use Ransford Pain Drawing)
- Recognize pain varies at different times of day
- Assess impact of pain on function & quality of life (Use PEG Scale: A Thre-item Scale Assessing Pain Intensity and Interference)
- Ask the patient what matters most and about personal goals for care

**Diagnosis & Treatment Plan**
- Order and evaluate appropriate diagnostic testing
- Determine diagnosis
- Develop & document a written treatment plan in medical records.

### Goals
- Treat acute pain actively to avoid transition to chronicity.
- Treat chronic pain thoughtfully and systematically.
- If possible, identify and address the etiology of pain, including potential confounders (such as psychosocial issues.)
- Maintain an active approach that enables the ability to function safely and productively.
- Allow emergence of emotions associated with pain.
- Establish patient specific SMART (Specific, Measurable, Agreed Upon, Realistic, Time-based) goals that result in improved function and quality of life & reduction in suffering.

#### Nonpharmacologic Therapy: Active Approach
- Patient and Family Education
- Cognitive Behavioral Therapy: Supportive Psychotherapy
- Community and Web-based Support Group
- Exercise: Yoga, Tai Chi, Qi Gong, Walking, Water Therapy
- Meditation, Mindful Practice; Visualization/Interactive Guided Imagery
- Physical Therapy; Chiropractic/Osteopathic Care
- Prayer, Spiritual & Pastoral Support
- Relaxation Techniques: Biofeedback

#### Nonpharmacologic Therapy: Passive Approach
- Acupressure (trigger point therapy)
- Acupuncture (trigger point therapy)
- Counterstimulation: TENS
- Cutaneous Stimulation: Ice, Heat
- Manipulation/Manual Therapies
- Massage, Music, Hydrobath
- Therapeutic Touch, Reiki, Healing Touch

#### Pharmacologic Therapy
- Nonpharmacologic therapy and nonopioid pharmacologic therapy are preferred for treatment of pain.
- For neuropathic pain, use anti-epilepsy drugs (AEDs) first
- Use adjuvant therapies or analgesics as needed
- Opioids are not first line for chronic pain, which should be managed with an active approach and non-opioid pain relievers, if possible.
- Consider opioid therapy based on a careful risk assessment that determines the expected benefits for both pain & function are anticipated to outweigh risks. If opioids are used, establish treatment goals, combine w/active approach & nonopioid analgesics as indicated.
- When opioids are indicated establish treatment goals, combine with an active approach & adjuvant medication as indicated. See Opioid Guidelines on Equianalgesic Table for Adults.
- Avoid combination with potentiatordrugs (i.e. benzodiazepines)

### General
- Reassess pain, quality of life and function regularly, focusing on patient-centered goals
- Follow amount and duration of response
- Partner with patient/family in setting goals of care
- Balance function vs. acceptable control of pain

### Referrals

#### Acute pain
- Refer early to appropriate specialist or Pain Center, if diagnosis unclear or pain refractory to treatment

#### Chronic pain
- Set realistic chronic care goals
- Transition from passive recipient to patient-directed management
- Refer “difficult to treat” cases (H/O substance abuse, neuropathic pain, rapidly escalating opioid doses) to physician with pain management expertise

### Special Considerations for Patients on Opioids
- Use risk assessment tools (e.g. ORT-R), treatment agreements, and medically necessary urine drug testing for compliance/diversion
- Check Prescription Drug Monitoring Program for opioids or benzodiazepines from other sources
- Follow state and federal regulations
- Evaluate benefits & harms w/patients every 3 months or more frequently.
- If benefits do not outweigh harms of continued opioid therapy, optimize other therapies and work with patients to taper opioids to lower dosages or to taper and discontinue opioids.
- Avoid abrupt cessation of opioids
- Address opioid-seeking behavior and addiction behaviors without moving patients to illegal means of obtaining opioids. Refer to addiction or pain specialist and community services as needed

### Special Situations

#### Anxiety and depression: See Depression Guidelines

#### Verbally non-communicative patients: See Nurse’s Guide
Opioids are not first line for chronic pain. Consider opioid therapy based on a careful risk assessment. Avoid inappropriate use of opioids; prevents potential misuse.

For neuropathic pain, use anti-epilepsy drugs (AEDs) first. Nonpharmacologic therapy and nonopioid pharmacologic.

Acute Pain:

- Order and evaluate appropriate diagnostic testing
- Evaluate pain on all patients using the appropriate age/developmentally appropriate scale:
  1. Numeric scale & FPS-R: Adolescents and older children
     - Mild pain: 1-3
     - Moderate: 4-7 (interferes with work or sleep)
     - Severe: 8-10 (interferes with all activities)
  2. Faces Pain Scale-Revised (FPS-R): Younger children (~6-10 years old)
  3. FLACC-revised scale: <6 years old/developmentally delayed
  4. NIPS: Neonatal Infant Pain Score

Nonpharmacologic Therapy:

- Nonpharmacologic therapy and nonopioid pharmacologic therapy are preferred for treatment of pain.
- For neuropathic pain, use anti-epilepsy drugs (AEDs) first.
- Use adjuvant therapies or analgesics as needed.
- Opioids are not first line for chronic pain, which should be managed with an active approach and non-opioid pain relievers, if possible.
- Consider opioid therapy based on a careful risk assessment that determines the expected benefits for both pain & function are anticipated to outweigh risks. If opioids are used, establish treatment goals, combine w/active approach & nonopioid analgesics as indicated.
- When opioids are indicated (e.g. patients with cancer, post-trauma, palliative and end-of-life care), combine with an active approach & adjuvant medications as indicated. See Opioid Guidelines on Equianalgesic Table for Children.
- Avoid inappropriate use of opioids; prevents potential misuse.
- Older children and adolescents are not immune to opioid addiction, addiction, abuse and experimentation. Opioids are often prescribed for acute sports injuries and other trauma; the lowest possible doses and briefest duration of therapy should be used to minimize risk of dependence and addiction. See Adult Guide & key recommendations on page 1.

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Approved in June 2019; Next Scheduled Update in 2021
**QUEST Principles of Pain Assessment**

- Question the child
- Use pain rating scales
- Evaluate behavior and physiological changes
- Secure parents’ involvement
- Take cause of pain into account
- Take action and evaluate results

**Neonates**

<table>
<thead>
<tr>
<th>Signs of Acute Pain</th>
<th>Signs of Chronic Pain</th>
</tr>
</thead>
<tbody>
<tr>
<td>Crying and moaning</td>
<td>Apathy</td>
</tr>
<tr>
<td>Muscle rigidity</td>
<td>Irritability</td>
</tr>
<tr>
<td>Flexion or flailing of the extremities</td>
<td>Changes in sleeping and eating patterns</td>
</tr>
<tr>
<td>Diaphoresis</td>
<td>Lack of interest in their surroundings</td>
</tr>
<tr>
<td>Irritability</td>
<td>Guardians</td>
</tr>
<tr>
<td>Changes in vital signs and pupillary dilatation</td>
<td></td>
</tr>
</tbody>
</table>

**Older Children**

- Children < 6 years old or unable to communicate; clinicians should use the FLACC-revised scale
- Children > 6-10 may use the Faces (FPS-R) scale
- Children over 6 may be able to use descriptor words (stinging, burning)<sup>2</sup>
- Children over 6, who understand the concepts of rank and order, can use scales<sup>2</sup>

**Diagnosis**

- Children ≥ 6 years old who understand the concepts of rank and order
- Children over 6 years old or unable to communicate, clinicians should use the FLACC-revised scale

**Categories of Pain**

- **Procedure-Related Pain**
  - Anticipation of intensity, duration, coping strength, and temperament child, type of procedure, history of pain, and family support system

- **Operative Pain and Trauma-Associated Pain**
  - Postoperative pain management should be discussed prior to surgery
  - Control pain as rapidly as possible

**Acute Illness**

- Determine severity of pain by the particular illness and situation

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**Pharmacological Therapy**

- Oral or IV administration of pain medication is the preferred method.
- Avoid painful IM injections.
- The initial choice of analgesic should be based on the severity and type of pain (see table below).
- IV Opioids can be safely titrated to effect in the pediatric inpatient setting
- For older children PCA is an acceptable form of administering pain medication with proper patient and family education.

**Pharmacologic therapy is based on severity of pain:**

<table>
<thead>
<tr>
<th>Pain Severity</th>
<th>Analgesic Choice</th>
<th>Examples</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mild (pain score 1-3)</td>
<td>Acetaminophen*(APAP) or NSAID**</td>
<td>Tylenol®, ibuprofen, Naproxen</td>
</tr>
<tr>
<td>Moderate (pain score 4-7)</td>
<td>PO APAP/opiod combinations IV/PO low dose MSO4</td>
<td>Toradol®, Vicodin®, Tylox®</td>
</tr>
<tr>
<td>Severe (pain score 8-10)</td>
<td>Opioid</td>
<td>Morphine, Fentanyl®, Hydromorphone</td>
</tr>
</tbody>
</table>

**Drug**

<table>
<thead>
<tr>
<th>Drug</th>
<th>Oral Dose</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mild Pain</td>
<td>Children</td>
</tr>
<tr>
<td>Ibuprofen**</td>
<td>5-10 mg/kg</td>
</tr>
<tr>
<td>Acetaminophen (APAP)*</td>
<td>10-15 mg/kg</td>
</tr>
<tr>
<td>Use APAP* or ibuprofen* to enhance analgesia</td>
<td></td>
</tr>
</tbody>
</table>

**Moderate or Severe Pain**

<table>
<thead>
<tr>
<th>Drug</th>
<th>Children &amp; Adolescents</th>
</tr>
</thead>
<tbody>
<tr>
<td>Morphine</td>
<td>0.15-0.3 mg/kg/dose q3-4 hrs</td>
</tr>
<tr>
<td>Hydromorphone</td>
<td>0.03-0.06 mg/kg/dose q3-4 hrs</td>
</tr>
<tr>
<td>Oxycodone</td>
<td>0.1-0.2 mg/kg/dose q3-4 hrs</td>
</tr>
</tbody>
</table>

*Daily dosing of Acetaminophen not to exceed 15 mg/kg/dose or 5 doses per day (75 mg/kg/24 hrs) in children <40 kg and 3000 mg/24 hrs in adolescents ≥40 kg.

**NSAIDs – monitor in patients on anticoagulation therapy and/or history of bleeding disorder; limit use ≤5 days.

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**Operative Pain Management**

- Preoperative patient assessment, preparation, and interventions
- Intraoperative anesthesia and analgesia, with preemptive measures for postoperative pain control

- No pain or pain not requiring intervention
- Consistent with surgical trauma
- Not explained by surgical trauma

**Postoperative drug and nondrug interventions**

- Assess effect of interventions
- Change drug interval, dose route, modality, or add adjuvant or treat side effect
- Satisfactory response
- Optimize dose interval
- Discharge planning
### PRINCIPLES OF PAIN MANAGEMENT: BEDSIDE NURSING ASSESSMENT TOOL

<table>
<thead>
<tr>
<th>Assessment and Diagnosis</th>
<th>Treatment</th>
<th>Management and Monitoring</th>
</tr>
</thead>
<tbody>
<tr>
<td>“Pain is whatever the experiencing person says it is, existing whenever the experiencing person says it does.” (McCaffrey, 1999)</td>
<td>Goals: 1. Based on patient values/preferences considering pain intensity, improved function, and cognitive function. 2. Balance pain relief, improved function and adverse events 3. Treat acute pain aggressively to avoid chronic pain 4. Treat chronic pain thoughtfully and systematically 5. Identify and address the cause of pain 6. Intervene as noninvasively as possible</td>
<td>General: 1. Reassess regularly for pain, pain relief &amp; function 2. Consistently use valid tools (i.e. numeric scale, face scale); respond urgently to severe pain ≥8 3. Clearly document time medication is given and response to pain medication 4. Assess mobility and ADL status 5. Partner with patient/family in setting goals of care 6. Balance function versus complete absence of pain</td>
</tr>
</tbody>
</table>

### History & Comprehensive Assessment
- Onset, location, quality, intensity, temporal pattern, aggravating and alleviating factors, associated symptoms
- Characteristics of pain
  - Somatic pain: localized; ache, throb, or gnaw
  - Visceral pain: often referred; cramp, pressure, deep ache, squeeze
  - Neuropathic pain: burns, electric shock, hot, stab, numb, itch, tingle
- Acute Pain: ↑HR, HBP, diaphoresis, pallor, fear, anxiety
- Chronic pain: sleep difficulties, loss of appetite, psychomotor retardation, depression, career/relationship change
- Underlying causes of pain to target treatment
- Impact of pain on physical function (i.e. mobility, ADLs, impact on activities) and psychosocial function (i.e. depression, anxiety, sleep)
- Depression, anxiety, PTSD, sleep pattern, suicide risk
- Patient, family and caregiver’s cultural and spiritual beliefs
- Pain coping skills
- Previous and current methods of treatment: effectiveness, adverse events, OTCs
- Other medical and surgical conditions
- Substance use and risk for misuse (e.g. Opioid Risk Tool- Revised)

### Routine Assessment of Pain, Function & Quality of Life
- Evaluate pain on all patients using the 0-10 scale (Use Faces Pain Scale – Revised):
  - A. mild pain: 1-3
  - B. moderate: 4-7 (interferes with work or sleep)
  - C. severe: 8-10 (interferes with all activities)
- Capture variation in pain severity at different sites of pain (Use Ransford Pain Drawing)
- Recognize pain varies at different times of day
- Capture the impact of pain on function & quality of life (Use PEG Scale: A Three-Item Scale Assessing Pain Intensity and Interference)
- Ask the patient what matters most and personal goals for care

### Goals
1. Based on patient values/preferences considering pain intensity, improved function, and cognitive function.
2. Balance pain relief, improved function and adverse events.
3. Treat acute pain aggressively to avoid chronic pain.
4. Treat chronic pain thoughtfully and systematically.
5. Identify and address the cause of pain.
6. Intervene as noninvasively as possible.

### Active Approach
- Patient / Family Education
- Cognitive Behavioral Therapy; Supportive Psychotherapy
- Community & Web-based Support Groups
- Exercise: Yoga, Tai Chi, Qi-Gong, Walking, Water Therapy
- Meditation, Mindful Practice; Visualization/Interactive Guided Imagery
- Physical Therapy; Chiropractic/ Osteopathic Care
- Prayer, Spiritual & Pastoral Support
- Relaxation Techniques: Biofeedback,

### Passive Approach
- Acupressure (trigger point therapy)
- Acupuncture (trigger point therapy)
- Cutaneous Simulation: Ice, Heat; Counterstimulation: TENS
- Massage, Music, Hydrobath
- Manipulation/Manual Therapies
- Therapeutic Touch, Reiki, Healing Touch

### Pharmacological Therapy
- Dispense medication as ordered using the 5 Rights: patient, drug, dose, route, time.
- Administer analgesics based on assessment of pain severity and available prescriptions.
- Evaluate treatment effectiveness based on goal achievement and/or adverse events.
- Communicate unrelieved pain or AE to PCP for changes in treatment plan.

### Anticipate side effects
- Prevent constipation: start senna, miralax
- Nausea: treat with antemetics or change meds
- Pruritus: treat with antihistamines or change meds
- Mental impairment: avoid driving/hazardous situations until side effect profile stabilizes; reassess safety periodically.

### Management and Monitoring
- General: 
  - Reassess regularly for pain, pain relief & function
  - Consistently use valid tools (i.e. numeric scale, face scale); respond urgently to severe pain ≥8
  - Clearly document time medication is given and response to pain medication
  - Assess mobility and ADL status
  - Partner with patient/family in setting goals of care
  - Balance function versus complete absence of pain

### Special Situations
#### Anxiety and depression
- Provide emotional support
- Advocate for psychosocial consultation or analgesic management prn

### Verbally non-communicative patients
- Cognitively impaired all feel pain but may not be able to communicate pain
- Infants, children feel pain – see Pediatric Guide
- Evaluate patient’s behaviors related to discomfort such as grimacing, moaning/groaning, bracing, rubbing, guarding, crying, noisy breathing, grinding teeth, frightened facial expressions, tense, tugging, agitation, disruptive behavior
- Use valid and reliable nonverbal pain behavior tool appropriate to the population (e.g. PAINAD)

### Please Note
- Similar findings are often seen in terminal restlessness.
- Autonomic changes in acute pain may be blunted in dementia.

### Older adults or people with renal or hepatic disease
- Watch carefully for toxicity from accumulation

### Prevent opioid misuse/abuse
- Monitor for signs of misuse and/or abuse
- Encourage established functional goals
- Ensure follow-up and evaluation of treatment effectiveness

Guidelines & principles are intended to be flexible. They serve as reference points or recommendations, not rigid criteria. Guidelines & principles should be followed in most cases, but there is an understanding that, depending on the patient, the setting, the circumstances, or other factors, care should be tailored to fit individual needs. Approved in June 2019; Next Scheduled Update in 2021.
### Pain Assessment in Advanced Dementia - PAINAD

(Warden, Hurley, and Volicer, 2003) *

<table>
<thead>
<tr>
<th>ITEMS</th>
<th>0</th>
<th>1</th>
<th>2</th>
<th>SCORE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Negative vocalization</td>
<td>None</td>
<td>Occasional moan or groan. Low level of speech with a negative or disapproving quality</td>
<td>Repeated troubled calling out. Loud moaning or groaning. Crying</td>
<td></td>
</tr>
<tr>
<td>Facial expression</td>
<td>Smiling or inexpressive</td>
<td>Sad, frightened, frown</td>
<td>Facial grimacing</td>
<td></td>
</tr>
<tr>
<td>Consolability</td>
<td>No need to console</td>
<td>Distracted or reassured by voice or touch</td>
<td>Unable to console, distract or reassure</td>
<td></td>
</tr>
<tr>
<td>TOTAL*</td>
<td></td>
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* Total scores range from 0 to 10 (based on a scale of 0 to 2 for five items), with a higher score indicating more severe pain (0="no pain" to 10="severe pain").

**Instructions:** Observe the older person both at rest and during activity/with movement. For each of the items included in the PAINAD, select the score (0, 1, or 2) that reflects the current state of the person’s behavior. Add the score for each item to achieve a total score. Monitor changes in the total score over time and in response to treatment to determine changes in pain. Higher scores suggest greater pain severity.

**Note:** Behavior observation scores should be considered in conjunction with knowledge of existing painful conditions and surrogate report from an individual knowledgeable of the person and their pain behaviors.

Remember that some patients may not demonstrate obvious pain behaviors or cues.

* **Please Note:** Similar findings are often seen in terminal restlessness.


Developed at the Geriatric Research, Education Clinical Center at Edith Nourse Rodgers Memorial Veterans Medical Center, Bedford, MA.

Reviewed and Approved: June 2019; Next Scheduled Update in 2021.
**Non-opioid Pharmacologic Therapy for the Treatment of Chronic Pain in Adults**

The guidelines for the Management of Chronic Pain released by the CDC in 2016 recommends using nonpharmacological and non-opioid therapies as the initial option for the treatment of chronic pain in adults. The following chart summarizes the uses and cautions that apply to many of the non-opioid analgesic medications. Doses are not definitive and must be individualized to the specific needs of the patient. Choice of agent should take into account other concurrent medical conditions and treatment modalities. The common use in chronic pain management represents both FDA approved indications and off-label uses. Some medications have multiple effects that can be used to treat the patient's pain as well as other comorbid conditions that are often found to co-exist with chronic pain (e.g. depression, anxiety, insomnia). Neuropathic pain encompasses multiple conditions, such as painful polyneuropathy (e.g. diabetic neuropathy), post-herpetic neuralgia, and central neuropathic pain.

<table>
<thead>
<tr>
<th>Drug</th>
<th>Common Use(s)</th>
<th>Suggested Dose(s)</th>
<th>Clinical Considerations</th>
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<tbody>
<tr>
<td><strong>Analgesics</strong></td>
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<tr>
<td>Acetaminophen(^{15})</td>
<td>Musculoskeletal pain</td>
<td>Up to 3,000-4000mg/day, divided doses dependent on formulation</td>
<td>• Not anti-inflammatory&lt;br&gt;• Acetaminophen’s recommended maximum daily dose (MDD) is 3000mg if patient is self-treating or 4000mg if their health care professional instructs them to do so. The MDD may be decreased for patients who consume alcohol (e.g. &gt;3 alcoholic beverages per day) or have elevated liver enzymes</td>
</tr>
<tr>
<td>NSAID, COX-2 selective NSAID</td>
<td>Musculoskeletal pain</td>
<td>Indication specific</td>
<td>• Assess risk of nephrotoxicity, drug interactions, CV disease and GI toxicity prior to prescribing; administer with PPI or H2 blocker if GI intolerance or high risk; risk of cardiac adverse events (ibuprofen &gt; naproxen); COX2 agents maybe preferred agents for cardiac &amp; renal safety; consider topical agents for individuals unable to use oral therapy</td>
</tr>
<tr>
<td><strong>Anticonvulsants</strong></td>
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<tr>
<td>Carbamazepine(^{7-9})</td>
<td>Trigeminal or glossopharyngeal neuralgia</td>
<td>Initial: 100mg/day, frequency is formulation dependent&lt;br&gt;Titration: increase weekly by 100-200mg/day&lt;br&gt;Effective: 200-400mg three times daily</td>
<td>• Common AEs: dizziness, drowsiness, ataxia, nausea, vomiting, xerostomia, weakness, blurred vision&lt;br&gt;• Major AEs: aplastic anemia and agranulocytosis, serious dermatologic reactions (e.g. toxic epidermal necrolysis, Stevens-Johnson syndrome), test for HLA-B*1502 allele prior to initiating treatment in patients with Asian ancestry, including South Asian Indians, as they have an increased likelihood of carrying this allele&lt;br&gt;• Consider monitoring blood levels, particularly after dosage adjustment. Watch for drug-drug interactions. Monitor liver function tests</td>
</tr>
<tr>
<td>Gabapentin(^{3-5,7,8,14})</td>
<td>Neuropathic pain, fibromyalgia</td>
<td>Initial: 100-300mg, 1-3x/day&lt;br&gt;Titration: increase every 5 to 7 days by 300mg/day&lt;br&gt;Effective: 900-3600mg/day, divided doses&lt;br&gt;DPN: 1800-3600mg/day, divided doses&lt;br&gt;Duration of adequate trial: 3-8 weeks for titration plus 2 weeks at maximum dose</td>
<td>• Common AEs: somnolence, dizziness, ataxia, fatigue, peripheral edema&lt;br&gt;• Major AEs: Stevens-Johnson syndrome, suicidal thoughts and behavior, seizures after rapid discontinuation, thrombocytopenia&lt;br&gt;• Requires renal dose adjustment&lt;br&gt;• Slow initiation is recommended and should be done until minimal effective dose reached or intolerable side effects. When discontinuing, taper off gradually over at least 1 week</td>
</tr>
<tr>
<td>Pregabalin(^{3-5,7,8,10,14})</td>
<td>Neuropathic pain, fibromyalgia</td>
<td>Initial: 25-75mg, 1-3x/day&lt;br&gt;Titration: increase weekly by 50-150mg/day&lt;br&gt;Effective: 300-6000mg/day in divided doses&lt;br&gt;DPN: 300-600mg/day&lt;br&gt;Fibromyalgia: 150-450mg/day&lt;br&gt;SCI, post-herpetic neuralgia: 150-600mg/day&lt;br&gt;Duration of adequate trial: 4 weeks</td>
<td>• Common AEs: somnolence, dizziness, peripheral edema, headache, ataxia, fatigue, xerostomia, weight gain&lt;br&gt;• Major AEs: angioedema, hepatotoxicity, rhabdomyolysis, suicidal thoughts and behavior, seizures after rapid discontinuation, thrombocytopenia&lt;br&gt;• Renal dose adjustment needed&lt;br&gt;• Slow initiation is recommended, for example: 75mg at bedtime for a week, then increase by 50-75mg every 5 days as tolerated. When discontinuing, taper off gradually over at least 1 week&lt;br&gt;• This product is more expensive compared to gabapentin.</td>
</tr>
<tr>
<td>Drug</td>
<td>Common Use(s)</td>
<td>Suggested Dose(s)</td>
<td>Clinical Considerations</td>
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<tr>
<td>Valproic acid</td>
<td>Neuropathic pain</td>
<td><strong>Initial:</strong> 500mg/day &lt;br&gt;<strong>Effective:</strong> no specific dosing, doses as high as 1,200mg/day have been studied</td>
<td><strong>Common AEs:</strong> headache, drowsiness, dizziness, nausea, abdominal pain, tremor, weakness  &lt;br&gt;<strong>Major AEs:</strong> peripheral edema, hepatotoxicity, pancreatitis, patients with mitochondrial disease (avoid use)  &lt;br&gt;Considered to be 3rd drug for neuropathic pain. Watch for drug-drug interactions</td>
</tr>
<tr>
<td>SNRIs^3-9,14,15</td>
<td>Duloxetine</td>
<td><strong>Initial:</strong> 20-30mg/day &lt;br&gt;<strong>Titration:</strong> may increase up to 60mg/day after one week &lt;br&gt;<strong>Effective:</strong> 60-120mg/day &lt;br&gt;<strong>Duration of adequate trial:</strong> 4 weeks</td>
<td><strong>Common AEs</strong> for both duloxetine and venlafaxine: nausea, somnolence, dizziness, constipation, dyspepsia, diarrhea, xerostomia, anorexia, headache, dizziness, blurred vision, accommodation, disturbance, mydriasis, weight gain  &lt;br&gt;<strong>Major AEs</strong> for both duloxetine and venlafaxine: Stevens-Johnson syndrome, hepatotoxicity, hypertensive crisis, gastrointestinal hemorrhage, delirium, myocardial infarction, cardiac arrhythmias, glaucoma, suicidal thoughts and behavior, shift to mania in bipolar disorder, neuroleptic malignant syndrome, serotonin syndrome, severe hyponatremia, fragility bone fractures  &lt;br&gt;<strong>Note:</strong> SNRIs, in general, should be avoided in patients &gt;65 years of age due to their adverse effects. Duloxetine and venlafaxine are the SNRIs of choice in the elderly. As secondary amines, they are associated with less anticholinergic, antihistaminic, and orthostatic hypotension. Cardiac toxicity is equal amongst the SNRIs. Avoid use in dementia. Duloxetine and venlafaxine doses should be limited to 25-50mg/day in the elderly.</td>
</tr>
<tr>
<td>TCAs^3-9,14,15</td>
<td>Amitriptyline, nortriptyline, desipramine</td>
<td><strong>Initial:</strong> 10-25mg/day &lt;br&gt;<strong>Titration:</strong> increase weekly by 10mg/day &lt;br&gt;<strong>Effective:</strong> 25-150mg/day &lt;br&gt;<strong>Duration of adequate trial:</strong> 6-8 weeks with at least 2 weeks at maximum tolerated dose</td>
<td><strong>Common AEs:</strong> xerostomia, somnolence, fatigue, headache, dizziness, insomnia, orthostatic hypotension, anorexia, nausea, urinary retention, constipation, blurred vision, accommodation, disturbance, mydriasis, weight gain  &lt;br&gt;<strong>Major AEs</strong> for both duloxetine and venlafaxine: delirium, cardiac arrhythmias, conduction abnormalities, myocardial infarction, heart failure exacerbation, stroke, seizures, hepatotoxicity, bone marrow suppression, suicidal thoughts and behavior, shift to mania in bipolar disorder, neuroleptic malignant syndrome, serotonin syndrome, severe hyponatremia, fragility bone fractures</td>
</tr>
<tr>
<td>TCAs^3-9,14,15</td>
<td>Nortriptyline, desipramine</td>
<td><strong>Initial:</strong> 75-225mg/day &lt;br&gt;<strong>Duration of adequate trial:</strong> 4-6 weeks</td>
<td><strong>Common AEs:</strong> xerostomia, somnolence, fatigue, headache, dizziness, insomnia, orthostatic hypotension, anorexia, nausea, urinary retention, constipation, blurred vision, accommodation, disturbance, mydriasis, weight gain  &lt;br&gt;<strong>Major AEs</strong> for both duloxetine and venlafaxine: delirium, cardiac arrhythmias, conduction abnormalities, myocardial infarction, heart failure exacerbation, stroke, seizures, hepatotoxicity, bone marrow suppression, suicidal thoughts and behavior, shift to mania in bipolar disorder, neuroleptic malignant syndrome, serotonin syndrome, severe hyponatremia, fragility bone fractures  &lt;br&gt;<strong>Note:</strong> TCAs, in general, should be avoided in patients &gt;65 years of age due to their adverse effects. Nortriptyline and, to a lesser extent, desipramine are the TCAs of choice in the elderly. As secondary amines, they are associated with less anticholinergic, antihistaminic, and orthostatic hypotension. Cardiac toxicity is equal amongst the TCAs. Avoid use in dementia. Desipramine and nortriptyline doses should be limited to 25-50mg/day in the elderly.</td>
</tr>
<tr>
<td>TCAs^3-9,14,15</td>
<td>Desipramine</td>
<td><strong>Initial:</strong> 50mg/day &lt;br&gt;<strong>Titration:</strong> increase weekly by 10mg/day &lt;br&gt;<strong>Effective:</strong> 75-225mg/day &lt;br&gt;<strong>Duration of adequate trial:</strong> 4-6 weeks</td>
<td><strong>Common AEs:</strong> xerostomia, somnolence, fatigue, headache, dizziness, insomnia, orthostatic hypotension, anorexia, nausea, urinary retention, constipation, blurred vision, accommodation, disturbance, mydriasis, weight gain  &lt;br&gt;<strong>Major AEs</strong> for both duloxetine and venlafaxine: delirium, cardiac arrhythmias, conduction abnormalities, myocardial infarction, heart failure exacerbation, stroke, seizures, hepatotoxicity, bone marrow suppression, suicidal thoughts and behavior, shift to mania in bipolar disorder, neuroleptic malignant syndrome, serotonin syndrome, severe hyponatremia, fragility bone fractures  &lt;br&gt;<strong>Note:</strong> TCAs, in general, should be avoided in patients &gt;65 years of age due to their adverse effects. Nortriptyline and, to a lesser extent, desipramine are the TCAs of choice in the elderly. As secondary amines, they are associated with less anticholinergic, antihistaminic, and orthostatic hypotension. Cardiac toxicity is equal amongst the TCAs. Avoid use in dementia. Desipramine and nortriptyline doses should be limited to 25-50mg/day in the elderly.</td>
</tr>
<tr>
<td>Venlafaxine</td>
<td>Neuropathic pain, GAD, Major Depressive Disorder, fibromyalgia</td>
<td><strong>Initial:</strong> 37.5mg/day &lt;br&gt;<strong>Titration:</strong> increase weekly by 37.5mg/day &lt;br&gt;<strong>Effective:</strong> 150-225mg/day, single dose extended-release formulation &lt;br&gt;<strong>Duration of adequate trial:</strong> 4-6 weeks</td>
<td><strong>Common AEs</strong> for both duloxetine and venlafaxine: nausea, somnolence, dizziness, constipation, dyspepsia, diarrhea, xerostomia, anorexia, headache, dizziness, blurred vision, accommodation, disturbance, mydriasis, weight gain  &lt;br&gt;<strong>Major AEs</strong> for both duloxetine and venlafaxine: Stevens-Johnson syndrome, hepatotoxicity, hypertensive crisis, gastrointestinal hemorrhage, delirium, myocardial infarction, cardiac arrhythmias, glaucoma, suicidal thoughts and behavior, shift to mania in patients with bipolar disorder, seizures, severe hyponatremia, fragility bone fractures, serotonin syndrome, neuroleptic malignant syndrome</td>
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<tr>
<td>Milnacipran</td>
<td>Fibromyalgia</td>
<td><strong>Initial/titration:</strong> 12.5mg once on day 1, then 12.5mg twice daily on days 2-3, 25mg twice daily on days 4-7, then 50mg twice daily thereafter &lt;br&gt;<strong>Effective:</strong> 100-200mg/day, divided doses</td>
<td><strong>Common AEs:</strong> Headache, insomnia, hot flash, nausea, constipation, palpitations, increased heart rate, hypertension, xerostomia, migraine  &lt;br&gt;<strong>Major AEs:</strong> Suicidal thoughts and behavior</td>
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*Brand only available (Savella*)
### Skeletal Muscle Relaxants

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<tr>
<th>Drug</th>
<th>Common Use(s)</th>
<th>Suggested Dose(s)</th>
<th>Clinical Considerations</th>
</tr>
</thead>
</table>
| Cyclobenzaprine    | Muscle spasm  | **Dose:** 5mg 3x/day, may increase up to 10mg 3x/day if needed | • **Common AEs:** drowsiness, dizziness, xerostomia, headache, confusion  
  • **Use not recommended in moderate to severe hepatic impairment**  
  • **NOTE:** This is on the Beer’s list as a high-risk medication in the elderly as it has moderate anti-cholinergic burden. Closely related to TCAs so should not be used in combination with other TCAs. Do not use longer than 2 to 3 weeks. Avoid long-term use in chronic pain. |
| Baclofen           | Spasticity    | **Dose:** 5mg 3x/day, may increase up to 40-80mg/day as needed | • **Common AEs:** hypotonia, drowsiness, urinary retention, urinary frequency, constipation, xerostomia, dizziness, paresthesia, hypertonia  
  • **Major AEs:** seizure  
  • **NOTE:** This is on the Beer’s list as a high-risk medication in the elderly. Abrupt withdrawal of oral therapy has been associated with hallucinations and seizures; gradual dose reductions (over ~1 to 2 weeks) are recommended in the absence of severe adverse reactions. |
| Methocarbamol      | Muscle spasm  | **Dose:** 1.5g 4 times/day for 2-3 days (up to 8g/day may be given in severe conditions), then decrease to 4-4.5g/day in 3-6 divided doses | • **AEs:** bradycardia, flushing, hypotension, syncope, dizziness, nausea, urinary discoloration (brown, black or green)  
  • **NOTE:** This is on the Beer’s list as a high-risk medication in the elderly. It is available in Canada as an OTC. |
| Tizanidine         | Spasticity    | **Dose:** 2mg up to 3x daily, maximum 36mg daily       | • **Common AEs:** hypotension, orthostatic hypotension (may be limiting factor), drowsiness, dizziness, xerostomia, weakness, bradycardia, constipation, anxiolytic  
  • **Gradually taper dose by 2-4mg daily when discontinuing therapy**  
  • **Renal dose adjustment needed** |
| Metaxalone         | Musculoskeletal conditions | **Dose:** 800mg 3 to 4 times daily | • **AEs:** dizziness, drowsiness, headache, irritability, nervousness, GI upset, hemolytic anemia, leukopenia  
  • **NOTE:** This is on the Beer’s list as a high-risk medication in the elderly. Use with caution in liver disease. |
| Carisoprodol       | Musculoskeletal conditions | **Dose:** 250 to 350mg 3 times daily and at bedtime for a maximum recommended duration of 2 to 3 weeks | • **Common AEs:** drowsiness, dizziness, headache  
  • **NOTE:** Avoid due to addictive potential as it is part of the "Holy Trinity" of addiction, which is a regimen that includes at least 1 opioid, a benzodiazepine, and carisoprodol. It is on the Beer's list as a high risk medication in the elderly. In patients with a history of long-term use or high doses, it should be tapered off slowly (e.g., over 14 days) to avoid withdrawal symptoms such as anxiety, insomnia, or irritability. Avoid use in chronic pain. |

### Topical Medications

<table>
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<tr>
<th>Drug</th>
<th>Common Use(s)</th>
<th>Suggested Dose(s)</th>
<th>Clinical Considerations</th>
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</table>
| Lidocaine patch    | Neuropathic pain, localized pain | **Dose:** Apply patch to painful area. Patch may remain in place for a maximum of 12 hours in any 24-hour period  
  **Duration of adequate trial:** 3 weeks | • **Avoid use on traumatized mucosa, skin irritations**  
  • **Up to 3 patches may be applied in a single application and may be cut to shape**  
  • **The 5% prescription strength ($6/patch) may require prior approval through the insurer whereas the OTC 4% patch is also effective and less expensive ($3/patch)** |
| Diclofenac gel/patch | Localized musculoskeletal pain | **Osteoarthritis:** apply 4g to lower extremities  
  **Acute pain** (strains, sprains, contusions): 1 patch applied twice daily to most painful area | • **Avoid use on non-intact/damaged skin including dermatitis, eczema, burns or wounds**  
  • **Diclofenac patch needs to be removed prior to MRI procedures** |
Common Product availability: come in various forms
Temporary relief of minor aches and pains, arthritis pain, localized muscle and joint pain, DPN

Muscle/joint pain:
Cream: Apply thin film to affected areas 3-4 times daily.
Patch: concentration dependent

DPN: Cream (0.075%) applied 4 times/day

• Common AEs: Causes increased burning during initial use, which usually lessens within 72 hours with repeated use. Should not be used in acute herpes zoster due to risk of mucosal contact.
• Avoid use on wounds, damaged/irritated skin. Do not cover with bandage or use with external heat source. Instruct patients to use a glove or plastic bag for application and wash their hands following use.
• An adequate trial usually requires four applications daily, around the clock, for at least three to four weeks.

Isosorbide dinitrate spray
DPN
Dose: 30mg at bedtime applied to bottom of feet

Methyl Salicylate
Counterirritants
Apply no more often than 3 to 4 times daily for up to 7 days
• Temporary relief of minor aches and pains of muscles and joints
• Simple backache, arthritis pain, strains, bruises, and sprains

• Product availability: come in various forms (e.g. balms, creams, gels, and patches) under several different brands (e.g. BenGay®, Icy Hot®, Salonpas®) and either alone or in different combinations of counterirritants
• Methyl salicylate: localized reactions (e.g. skin irritation or rash) and systemic reactions (e.g. salicylate toxicity) may occur

a. This resource was initially adapted from the CPPM toolkit that has been in place since 2002. This resource was expanded in depth by Greater Rochester Independent Practice Association (GRIPA). This tool is now included in the CPPM Toolkit with permission of GRIPA.

The Community Principles of Pain Management (CPPM) is a professional resource approved by the Excellus Health Care Quality Monitoring Committee and the Monroe County Medical Society Quality Collaborative. It can be found on the Pain Guidelines web page: https://compassionandsupport.org/pain-symptoms/pain-guidelines/ at https://CompassionAndSupport.org/


This document is for informational purposes only. For more up to date information please refer to the medication’s package insert available on the FDA website (www.accessdata.fda.gov/scripts/cder/drugsatfda/). Decisions regarding the pharmacological management of a patient’s condition should be made based on the individual needs of the patient (i.e. frequency of dosing, duration of action needed).

Guidelines and principles are intended to be flexible. They serve as reference points or recommendations, not rigid criteria. Guidelines & principles should be followed in most cases, but there is an understanding that, depending on the patient, the setting, the circumstances, or other factors, care can and should be tailored to fit individual needs. Approved in June 2019; Next Scheduled Update in 2021.
**Non-Pharmacologic Interventions for Pain**

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**Exercise**

Exercise is defined as physical activity that is planned and structured. There are many different types of exercise, including aerobic, strengthening, and flexibility, and this should be considered when interpreting evidence. There is a moderate level of evidence supporting exercise as an intervention for chronic LBP ([www.effectivehealthcare.ahrq.gov/low-back-pain](http://www.effectivehealthcare.ahrq.gov/low-back-pain)).

The benefit of exercise for pain control likely comes from the impact of exercise on the endogenous opioid system and on central pain modulatory systems. Patients with some chronic pain conditions seem to have a dysfunctional endogenous pain modulatory system, which should be considered when prescribing exercise. The prescription of exercise for chronic pain must address the biomechanical issues and the psychosocial factors that contribute to the patient’s pain and disability. Patient education, coordination of care within the health care team, and selecting an exercise regimen that is meaningful to and achievable by the patient are all-important components to promote a successful rehabilitation program.

**Exercise therapy for chronic pain.**


**Exercise, not to exercise, or how to exercise in patients with chronic pain? Applying science to practice.**

Daenen L, Varkey E, Kellmann M, Nijs J.

**Yoga/Tai Chi**

Yoga is a movement and spiritual discipline that originated in India. There is a growing body of evidence supporting yoga as an effective approach to treating chronic pain conditions, including low back pain, osteoarthritis, and fibromyalgia. [https://nccih.nih.gov/health/yoga](https://nccih.nih.gov/health/yoga)

Yoga has been found to reduce pain and improve function in these populations (Nahin RL et al. Evidence-based evaluation of complementary health approaches for pain management in the United States. 2016; 91 (9): 1292-1306.). Yoga required active participation, can be practiced individually or in groups, and can be combined with mindfulness practices.

Tai Chi is another movement discipline, originally developed as a martial art form in China, which entails the performance of slow, gentle, focused movements. There is evidence to support Tai Chi as effective in reducing chronic pain associated with osteoarthritis and low back pain. (Kong, L. J. *et al.* Tai Chi for Chronic Pain Conditions: A Systematic Review and Meta-analysis of Randomized Controlled Trials. *Sci. Rep.* 6, 25325; doi: 10.1038/srep25325 (2016). Tai Chi also requires active participation, individually or in groups.
### Mindfulness Meditation

Although there is not a large pool of evidence available on the effectiveness of meditation on pain, recent individual studies are promising, for example: Zeidan F, Adler-Neal AL, Wells RE, et al. Mindfulness-meditation-based pain relief is not mediated by endogenous opioids. *Journal of Neuroscience*. 2016;36(11):3391-3397 – this study found that meditation was effective in reducing experimentally induced pain.


### Psychological Approaches (Cognitive-Behavioral, Relaxation techniques)

Systematic reviews provide evidence that cognitive-behavioral interventions improve function and decrease pain in the non-specific *low back pain* population when compared to no intervention (Richmond H et al, 2015). Evidence for effectiveness in treating *headaches* is equivocal (Harris P et al, 2015).

According to AHRQ, when considered in conjunction with other psychological approaches including relaxation techniques and biofeedback, the strength of evidence is low for reducing pain and improving function in the chronic low back pain population (www.effectivehealthcare.ahrq.gov/low-back-pain). May include multiple different interventions.

CBT is effective in altering mood and catastrophising outcomes, when compared with treatment as usual/waiting list, with some evidence that this is maintained at six months. Behaviour therapy has no effects on mood, but showed an effect on catastrophising immediately post-treatment.


### Relaxation Techniques

Relaxation training follows a specific method, process, procedure, or activity with the intent to release physical tension and refocus the mind away from anxious, angry, or disturbing thoughts in order to reduce stress and/or pain and achieve a sense of well-being and calmness

Superficial Heat

There is moderate level evidence that heat decreases pain and improves function for acute phase low back pain – at 4-5 days. There is low level evidence that heat is more effective than acetaminophen or ibuprofen for acute phase pain.


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<tr>
<th>Intervention</th>
<th>Summary Comments</th>
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<tr>
<td><strong>PASSIVE</strong></td>
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<tr>
<td>Acupuncture</td>
<td>Has been found to be effective in the treatment of a variety of conditions, including chronic low back pain (LBP) and osteoarthritis (OA). NIH considers acupuncture a “reasonable” option for OA (nccih.nih.gov). Low to moderate level of evidence for chronic back pain according to AHRQ (<a href="http://www.effectivehealthcare.ahrq.gov/low-back-pain">www.effectivehealthcare.ahrq.gov/low-back-pain</a>). Acupuncture is effective for the treatment of chronic pain and is therefore a reasonable referral option. Significant differences between true and sham acupuncture indicate that acupuncture is more than a placebo. However, these differences are relatively modest, suggesting that factors in addition to the specific effects of needling are important contributors to the therapeutic effects of acupuncture. Acupuncture for chronic pain: individual patient data meta-analysis, Vickers AJ, Cronin AM, Maschino AC, Lewith G, MacPherson H, Foster NE, Sherman KJ, Witt CM, Linde K; Acupuncture Trialists' Collaboration. Arch Intern Med. 2012 Oct 22;172(19):1444-53.) Additionally, in a recent systematic review and meta-analysis, acupuncture was found to provide significant relief of low back pain compared to sham acupuncture and no treatment (Yuan QL, Guo TM, Liu L, Sun F, Zhang YG. Traditional Chinese medicine for neck pain and low back pain: a systematic review and meta-analysis PLoS One. 2015;10(2):e0117146).</td>
</tr>
<tr>
<td>Neuromodulation</td>
<td>There is evidence that both dorsal root ganglion and high-frequency stimulation also have analgesic efficacy in certain chronic neuropathic syndromes.</td>
</tr>
<tr>
<td><strong>Deer, TR, et al. (2017, April). Dorsal Root Ganglion Stimulation Yielded Higher Treatment Success Rate for Complex Regional Pain Syndrome and Causalgia at 3 and 12 months: A Randomized Comparative Trial. Pain, 158(4), 669-681.</strong></td>
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<td><strong>Kapural, L, et.al. (2015). Novel 10-kHz High-Frequency Therapy (HF10 Therapy) Is Superior to Traditional Low-Frequency Spinal Cord Stimulation for the Treatment of Chronic Back and Leg Pain; The SENZA-RCT Randomized Controlled Trial. Anesthesiology, 123, 851-60.</strong></td>
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**Massage**

May be helpful for low back pain. There is a low level of evidence for acute and subacute low back pain (nccih.nih.gov). This is consistent with the findings of the AHRQ analysis for massage as a treatment of acute and subacute low back pain (www.effectivehealthcare.ahrq.gov/low-back-pain.).

Similar findings can be found for massage as a treatment for fibromyalgia, neck pain, and osteoarthritis, with generally short-term improvements in pain, and no significant long-term improvements in function (Nahin RL et al. Evidence-based evaluation of complementary health approaches for pain management in the united states. 2016; 91 (9): 1292-1306.)

**Manipulation**

Manipulation has been studied extensively for the treatment of low back pain (LBP). Manipulation has been found to be effective in reducing pain and improving function in people with LBP. There is low-to-moderate level evidence that it is effective in the chronic LBP population (www.effectivehealthcare.ahrq.gov/low-back-pain.).

It is recommended for the treatment of non-specific low back pain in the majority of national clinical guidelines for LBP management. There is less evidence to support its use in the treatment of neck pain. It has been found to be effective in the treatment of some types of headache and osteoarthritis.

Chiropractors, Osteopathic Physicians, and Physical Therapists most commonly utilize manipulation in back pain management. Although it is a passive intervention, it is often combined with exercise in patient management.

**Electrotherapy/ TENS**

Passive physical modalities as a whole have small-to-no effect on treating common pain problems (AHRQ).

Systemic reviews suggest that TENS is effective for post-operative pain, osteoarthritis, diabetic neuropathy, and some acute pain.
conditions when applied at adequate intensities.


AHRQ Levels of Evidence:

**High**: High confidence that the evidence reflects the true effect. Further research is very unlikely to change our confidence in the estimate of effect.

**Moderate**: Moderate confidence that the evidence reflects the true effect. Further research may change our confidence in the estimate of effect and may change the estimate.

**Low**: Low confidence that the evidence reflects the true effect. Further research is likely to change our confidence in the estimate of effect and is likely to change the estimate.

**Insufficient**: Evidence either is unavailable or does not permit a conclusion.
Faces Pain Scale-Revised (FPS-R)

Purpose:
To assess pain intensity in persons who are able to self-report, but unable to use a numeric rating scale (NRS). Some studies show African Americans and Asians prefer the FPS.

When to Use:
1) At admission
2) At each quarterly nursing review
3) Each shift in resident with pain
4) Each time a change in resident pain status is reported
5) Following a pain intervention to evaluate treatment effectiveness

How to Use:
Instruct the person that “The faces show how much pain or discomfort one is feeling. The face on the left shows no pain. Each face shows more and more pain up to the last face that shows the worst pain possible. Point to the face that shows how bad your pain is right now.”

Then score the chosen face 0, 2, 4, 6, 8, or 10, counting left to right, so '0' = 'no pain' and '10' = 'very much pain.'

NOTE: This tool is not to be used by the health care provider to look at the resident’s facial expression and pick a face.

Documentation:
Document/record all scores in a location that is readily accessible by other health care providers.

Note:
To use as a pocket guide, print the FPS-R and directions document front to back on card stock paper to create two tools. Cut to size and laminate for increased durability.

Additional information about the Faces Pain Scale-Revised (FPS-R) including instructions in 33 translations can be found at www.painsourcebook.ca.

Reference:

Accessed with permission from GeriatricPain.org
The Ransford Pain Drawing

Purpose

This is a useful tool to enable the patient to give the evaluator an idea of where they feel certain symptoms. This may be done in an informal way during the initial intake interview and the drawing will prompt dialogue between the two parties regarding symptoms, their frequency, behavior and when they occurred in relation to others. Alternatively, this may be done in a formal way utilizing the Ransford Pain Drawing (Ransford, et al, 1976). The Ransford Pain Drawing is used to assess the pain and psychodynamics in a patient with low-back pain.

Administration

Provide the patient with a body chart comprising anterior and posterior views of the body. If the informal version is used, ask the client to indicate on the chart where they feel symptoms using a key to describe different symptoms. The evaluator may ask the client to elaborate on each symptom during the process or at the end. The client may make notes on the chart to further describe symptoms.

The Ransford Pain Drawing must be done on a specific body chart with four symptoms described above, namely stabbing, burning, pins and needles, and numbness. The instructions are at the top of the chart and read as follows: “Indicate where your pain is located and what type of pain you feel at the present time. Use the symbols below to describe your pain. Do not indicate areas of pain which are not related to your present condition.”

Ransford showed that the drawings drawn by patients in the study correlated very well with the Hypochondria’s and Hysteria scores on an MMPI (Minnesota Multiphasic Personality Inventory) taken at the same time.

Scoring

The evaluator should observe the drawing and determine if any of the criteria listed below feature in the drawing. The appropriate score is given and all scores are totaled at the end to reach a final score.

1. Unreal drawing (Poor anatomic localization, scores 2 unless indicated; bilateral pain not weighted unless indicated).

   A. Total leg pain
   B. Lateral whole leg pain (trochanteric area and lateral thigh allowed)
   C. Circumferential thigh pain
   D. Bilateral anterior tibial area pain (unilateral allowed)
   E. Circumferential foot pain (scores 1)
   F. Bilateral foot pain (scores 1)
   G. Use of all four modalities suggested in instructions (We feel patient is unlikely to have “burning areas”, stabbing pain, pins-and-needles and numbness all together; scores 1)
2. Drawing showing expansion or magnification of pain. (May also represent unrelated symptomology. Bilateral pain not weighted.)

   A. Back pain radiating to iliac crest, groin or anterior perineum (each scores 1; coccygeal pain allowed)
   B. Anterior knee pain (scores 1)
   C. Anterior ankle pain (scores 1)
   D. Pain drawing outside the outline; this is a particularly good indication of magnification (scores 1 or 2 depending on extent).

3. “I particularly hurt here” indicators. Some patients need to make sure the evaluator is fully aware of the extent of symptoms (each category scores 1; multiple use of each category is not weighted).

   A. Add explanatory notes
   B. Circle painful areas
   C. Draw lines to demarcate painful areas
   D. Use arrows
   E. Go to excessive trouble and detail in demonstrating the pain areas (using the symbols suggested).

4. “Look how bad I am” indicators.

   A. Additional painful areas in the trunk, head, neck or upper extremities drawn in. Tendency towards total body pain (scores 1 if limited to small areas, otherwise scores 2).

**Interpretation**

A score of 3 or above indicates poor psychodynamics.

The test is also useful as a distraction test to observe patient behavior while sitting or standing, depending what position he/she is in when doing the drawing.

This test takes approximately 5 to 8 minutes to administer and approximately 5 minutes to score.
INSTRUCTIONS

Indicate where your pain is located and what type of pain you feel at the present time. Use the symbols below to describe your pain. Do not indicate areas of pain, which are not related to your present injury or condition.

Key

| /// Stabbing | XXX Burning | 000 Pins and Needles | == Numbness |

![Diagram of human body with pain symbols]
PEG: A Three-Item Scale Assessing Pain Intensity and Interference

1. What number best describes your pain on average in the past week?

<table>
<thead>
<tr>
<th>0</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
<th>10</th>
</tr>
</thead>
<tbody>
<tr>
<td>No pain</td>
<td>Pain as bad as you can imagine</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

2. What number best describes how, during the past week, pain has interfered with your enjoyment of life?

<table>
<thead>
<tr>
<th>0</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
<th>10</th>
</tr>
</thead>
<tbody>
<tr>
<td>No pain</td>
<td>Pain as bad as you can imagine</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

3. What number best describes how, during the past week, pain has interfered with your general activity?

<table>
<thead>
<tr>
<th>0</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
<th>10</th>
</tr>
</thead>
<tbody>
<tr>
<td>No pain</td>
<td>Pain as bad as you can imagine</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

From Krebs et al., 2009.
NAME: ___________________________ DATE: ______________________

Over the last 2 weeks, how often have you been bothered by any of the following problems? (use "✓" to indicate your answer)

<table>
<thead>
<tr>
<th>Problem</th>
<th>Not at all</th>
<th>Several days</th>
<th>More than half the days</th>
<th>Nearly every day</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Little interest or pleasure in doing things</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2. Feeling down, depressed, or hopeless</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3. Trouble falling or staying asleep, or sleeping too much</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4. Feeling tired or having little energy</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5. Poor appetite or overeating</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6. Feeling bad about yourself—or that you are a failure or have let yourself or your family down</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7. Trouble concentrating on things, such as reading the newspaper or watching television</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8. Moving or speaking so slowly that other people could have noticed. Or the opposite — being so rigit or restless that you have been moving around a lot more than usual</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9. Thoughts that you would be better off dead, or of hurting yourself</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

(Total: ______________________)

10. If you checked off any problems, how difficult have these problems made it for you to do your work, take care of things at home, or get along with other people?

   Not difficult at all  __________
   Somewhat difficult  __________
   Very difficult  __________
   Extremely difficult  __________
PHQ-9 Patient Depression Questionnaire

For initial diagnosis:

1. Patient completes PHQ-9 Quick Depression Assessment.
2. If there are at least 4 ✓s in the shaded section (including Questions #1 and #2), consider a depressive disorder. Add score to determine severity.

**Consider Major Depressive Disorder**
- if there are at least 5 ✓s in the shaded section (one of which corresponds to Question #1 or #2)

**Consider Other Depressive Disorder**
- if there are 2-4 ✓s in the shaded section (one of which corresponds to Question #1 or #2)

**Note:** Since the questionnaire relies on patient self-report, all responses should be verified by the clinician, and a definitive diagnosis is made on clinical grounds taking into account how well the patient understood the questionnaire, as well as other relevant information from the patient. Diagnoses of Major Depressive Disorder or Other Depressive Disorder also require impairment of social, occupational, or other important areas of functioning (Question #10) and ruling out normal bereavement, a history of a Manic Episode (Bipolar Disorder), and a physical disorder, medication, or other drug as the biological cause of the depressive symptoms.

To monitor severity over time for newly diagnosed patients or patients in current treatment for depression:

1. Patients may complete questionnaires at baseline and at regular intervals (eg, every 2 weeks) at home and bring them in at their next appointment for scoring or they may complete the questionnaire during each scheduled appointment.
2. Add up ✓s by column. For every ✓: Several days = 1 More than half the days = 2 Nearly every day = 3
3. Add together column scores to get a TOTAL score.
4. Refer to the accompanying **PHQ-9 Scoring Box** to interpret the TOTAL score.
5. Results may be included in patient files to assist you in setting up a treatment goal, determining degree of response, as well as guiding treatment intervention.

**Scoring:** add up all checked boxes on PHQ-9

For every ✓ Not at all = 0; Several days = 1; More than half the days = 2; Nearly every day = 3

**Interpretation of Total Score**

<table>
<thead>
<tr>
<th>Total Score</th>
<th>Depression Severity</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-4</td>
<td>Minimal depression</td>
</tr>
<tr>
<td>5-9</td>
<td>Mild depression</td>
</tr>
<tr>
<td>10-14</td>
<td>Moderate depression</td>
</tr>
<tr>
<td>15-19</td>
<td>Moderately severe depression</td>
</tr>
<tr>
<td>20-27</td>
<td>Severe depression</td>
</tr>
</tbody>
</table>

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A2662B 10-04-2005
Opioid Risk Tool - Revised (ORT-R)

The revised ORT has clinical usefulness in providing clinicians a simple, validated method to rapidly screen for the risk of developing OUD in patients on or being considered for opioid therapy.

Opioid Risk Tool - OUD (ORT-OUD)

This tool should be administered to patients upon an initial visit prior to beginning or continuing opioid therapy for pain management. A score of 2 or lower indicates low risk for future opioid use disorder; a score of >= 3 indicates high risk for opioid use disorder.

<table>
<thead>
<tr>
<th>MARK EACH BOX THAT APPLIES</th>
<th>YES</th>
<th>NO</th>
</tr>
</thead>
<tbody>
<tr>
<td>Family history of substance abuse</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alcohol</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>Illegal drugs</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>Rx drugs</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>Personal history of substance abuse</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alcohol</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>Illegal drugs</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>Rx drugs</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>Age between 16-45 years</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>Psychological disease</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ADD, OCD, bipolar, schizophrenia</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>Depression</td>
<td>1</td>
<td>0</td>
</tr>
</tbody>
</table>

Scoring totals

<table>
<thead>
<tr>
<th>MEDICATION</th>
<th>EQUIANALGESIC DOSE (for chronic dosing)</th>
<th>USUAL STARTING DOSES for ADULT&gt;50kg* (u1/2 dose for elderly or severe renal or liver disease)</th>
<th>COMMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>IM/IV onset 15-30 min</td>
<td>PO onset 30-60 min</td>
<td>PARENTERAL</td>
</tr>
<tr>
<td>MORAINE</td>
<td>10 mg</td>
<td>30 mg</td>
<td>2.5-5 mg SC/IV q3-4h (1 1.25–2.5 mg)</td>
</tr>
<tr>
<td>HYDROCODONE</td>
<td>Not available</td>
<td>30 mg</td>
<td>Not Available</td>
</tr>
<tr>
<td>OXYCODONE</td>
<td>Not Available</td>
<td>20 mg</td>
<td>Not Available</td>
</tr>
<tr>
<td>FENTANYL</td>
<td>100 mcg (single dose)</td>
<td>12 mcg/hr patch per 3 days</td>
<td>25-50 mcg IM/IV q1-3h (12.5-25 mcg)</td>
</tr>
<tr>
<td></td>
<td>231 mcg buccal/SL</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>N.B. Incomplete cross-tolerance already accounted for in conversion to fentanyl; when converting to other opioid from fentanyl, generally reduce the equianalgesic amount by 50%</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>IV: very short acting; rapid infusion may result in skeletal muscle &amp; chest wall rigidity.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>IR: Buccal tablet, Nasal solution, SL tablet, Lozenge; SL spray - Indicated for breakthrough cancer pain only. Seek consult.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HYDROMORPHINE</td>
<td>1.5 mg</td>
<td>7.5 mg</td>
<td>0.2-0.6 mg SC/IV q2-3h (0.2 mg)</td>
</tr>
<tr>
<td>OXYMORPHINE</td>
<td>Not Available</td>
<td>10 mg</td>
<td>Not Available</td>
</tr>
<tr>
<td>BUPRENORPHINE</td>
<td>Not available</td>
<td>24 hour initial patch MS dose &lt;30 mg 5 mcg/h 30-80 mg 10 mcg/h 75-150 mg buccal film</td>
<td>Not Available</td>
</tr>
<tr>
<td></td>
<td>Maximum dose 20mcg/h per 7 days; initiate tx with 5mcg/hr q7d for opioid naïve patients Buccal film (75,150,300,450,600,750,900mcg) q12-24h (Belbuca)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Initiate treatment with 75mcg film qd or q12h as tolerated, before increasing dose. Dosing for chronic pain, not opioid use disorder</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Caution for risk of QTc prolongation. No dosage adjustment required for renal failure.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TRAMADOL</td>
<td>Not available</td>
<td>300 mg</td>
<td>Not Available</td>
</tr>
<tr>
<td>METHADONE</td>
<td>(see separate sheet with detailed dosing information)</td>
<td>3.75mg IV 2 mg PO methadone = 1 mg parenteral methadone</td>
<td>7.5mg</td>
</tr>
<tr>
<td></td>
<td>Request Palliative Care or Pain Service Consult for higher doses</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* - "Usual starting doses" applies to opioid naive patients, not for patients who have been on opioids and whose starting dose should take their usual consumption into account.
GUIDELINES

1. Assess and manage pain in adult patients using the CPPM Adult Guide.

**N.B. Opioids are not first line for chronic pain, even moderate to severe pain, which should be managed with an active approach and non-opioid pain relievers whenever possible. B When opioids are indicated, based on a careful risk assessment, combine with an active and passive approach to nonpharmacologic therapy. Be wary of dose escalation over time due to tolerance.**

2. How to dose opioids:
   A. Give baseline medication around the clock.
   B. For breakthrough pain order 10% total daily dose as a PRN given q 1-2h for oral and q 30-60 min for SC/IV.
   C. For continuous infusion, PRN can be either the hourly rate q 15 min or 10% of total daily dose q 30-60 min.
   D. Adjust baseline upward daily in amount roughly equivalent to total amount of PRN.
   E. Determine acceptable level of pain control that support patient’s goals.

3. In general, oral route is preferable, then trans-cutaneous > subcutaneous > intravenous.

4. If parenteral medication is needed for mild to moderate pain, use half the usual starting dose of morphine or equivalent.

5. Use a short-acting medication for acute pain exacerbation. Switch to long-acting preparations when pain is chronic and the total daily dose is determined.

6. Avoid multiple agents of similar duration.

7. When converting from one opioid to another, some experts recommend reducing the equianalgesic dose by 1/3 to 1/2, then titrate as in #2 above.

8. Older adults, or those with severe renal or liver disease, should start on half the usual starting dose. Watch carefully for toxicity from accumulation.

9. Use care with combinations. Ensure total consumption of APAP from ALL sources & ALL purposes does not exceed 3 g/day (2-3 g for frail elders).

10. Patients with substance abuse history may need a higher starting dose due to tolerance. Monitor urine drug screenings. Consider abuse-deterrent opioids &/or co-prescribing naloxone.

11. Refer to product information fentanyl use. Review CPPM methadone and buprenorphine guidelines.

12. Refer to protocol for naloxone use.

13. Avoid codeine and tramadol if breastfeeding.

---

### Equianalgesic Table for Adults

<table>
<thead>
<tr>
<th>HALF LIFE (hours)</th>
<th>DURATION (hours)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 – 4 (IR forms)</td>
<td>3 – 5 (IR tabs/soln)</td>
</tr>
<tr>
<td>24 (Avinza, generics)</td>
<td>8 – 24 (ER tabs/caps)</td>
</tr>
<tr>
<td>11 – 13 (Kadian)</td>
<td></td>
</tr>
<tr>
<td>3.3-4.5</td>
<td>3-6 (IR tabs)</td>
</tr>
<tr>
<td>7 – 9 (ER forms)</td>
<td>12 – 24 (ER forms)</td>
</tr>
</tbody>
</table>

### Community Principles of Pain Management

Adapted by Specialty Advisory Group, 2002
Reviewed and approved every other year
Reviewed and adopted by AAHPM, 2009
Approved in June 2019.
Next scheduled update in 2021.

Additional pain management resources are available at CompassionAndSupport.org
<table>
<thead>
<tr>
<th>MEDICATION</th>
<th>EQUIANALGESIC DOSE (for chronic dosing)</th>
<th>USUAL STARTING DOSES Pediatric patients &gt; 6 months (decrease dose by 1/4 to 1/2 for age &lt; 6 months or severe renal or liver disease)</th>
<th>COMMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>IM/IV onset 15-30 min</td>
<td>PO onset 30-60 min</td>
<td>PARENTERAL</td>
</tr>
<tr>
<td>MORAINE</td>
<td>10 mg</td>
<td>30 mg</td>
<td>&lt;40 kg: 0.05-0.1 mg/kg dose q 2-4 hrs</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>&gt;40 kg: 2 - 5 mg q 2-4 hrs</td>
</tr>
<tr>
<td>OXYCODONE</td>
<td>Not Available</td>
<td>20 mg</td>
<td>Not Available</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>&gt;40 kg: 5 - 10 mg q 3-4 hrs</td>
</tr>
<tr>
<td>HYDROMORPHONE</td>
<td>1.5 mg</td>
<td>7.5 mg</td>
<td>&lt;40 kg: 0.015 mg/kg/dose q 3-4 hrs</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>&gt;40 kg: 0.2 - 0.6 mg q 3-4 hrs</td>
</tr>
<tr>
<td>METHADONE</td>
<td>1/2 oral dose</td>
<td>2 mg PO methadone = 1 mg parenteral</td>
<td>24 hour Oral morphine methadone ratio</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>&lt;30 mg: 2:1</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>31-99 mg: 4:1</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>100-299 mg: 8:1</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>300-499 mg: 12:1</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>500-999 mg: 15:1</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>1000-2100 mg: 20:1</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>&gt;1200mg: consider consult</td>
</tr>
<tr>
<td>FENTANYL</td>
<td>100 mcg (single dose)</td>
<td>1/2 hour S/O dose</td>
<td>Initial patch dose</td>
</tr>
<tr>
<td></td>
<td></td>
<td>100-150 mcg</td>
<td>12 mcg/h</td>
</tr>
<tr>
<td></td>
<td></td>
<td>150-200 mcg</td>
<td>25 mcg/h</td>
</tr>
<tr>
<td></td>
<td></td>
<td>200-250 mcg</td>
<td>50 mcg/h</td>
</tr>
<tr>
<td></td>
<td></td>
<td>250-300 mcg</td>
<td>75 mcg/h</td>
</tr>
<tr>
<td></td>
<td></td>
<td>&gt;300 mcg</td>
<td>100 mcg/h</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>&gt;40 kg: 0.5 - 2 mcg/kg dose q 3-4 hrs</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>&gt;40 kg: 25 - 50 mcg q 3-4 hrs</td>
</tr>
<tr>
<td>HYDROCODONE</td>
<td>Not Available</td>
<td>30 mg</td>
<td>Not Available</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>&gt;40 kg: 5 - 10 mg q 4-6 hrs</td>
</tr>
</tbody>
</table>

**COMMENTS**

(Not all dosage forms are available for inpatients, consult pediatric pharmacy for availability)

**OXYCODONE**

Not Available 20 mg Not Available

<40 kg: 0.2 mg/kg dose q 4-6 hrs

>40 kg: 5 - 10 mg q 4-6 hrs

**HYDROCODONE**

Not available 30 mg

<40 kg: 0.2 mg/kg dose q 4-6 hrs

>40 kg: 5 - 10 mg q 4-6 hrs

**COMMENTS**

APAP combo tablets - 2.5-10mg hydrocodone with 300-325mg APAP; APAP combo solution - 2.5mg hydrocodone with 108mg APAP per 5ml
IBU combo tablets - 2.5-10mg hydrocodone with 200mg ibuprofen
ER tablets (10, 15, 20, 30, 40, 50mg) -- Not an abuse-deterrent formulation

Monitor total acetaminophen or ibuprofen dose.
These guidelines do not apply to infants in the NICU. Codeine and Tramadol are CONTRAINDICATED in children under 12 years of age.

1. Evaluate pain on all patients using a developmentally appropriate scale.

   N.B. Opioids are not first line for chronic pain, even moderate to severe pain, which should be managed with an active approach and non-opioid pain relievers whenever possible. When opioids are indicated, based on a careful risk assessment, combine with an active approach and other measures. Be wary of dose escalation over time due to tolerance.

2. How to dose opioids:
   A. Give baseline medication around the clock.
   B. For breakthrough pain order 10% total daily dose as a PRN given q 1-2h for oral and q 30-60 min for SC/IV.
   C. For continuous infusion, PRN can be either the hourly rate q 15 min or 10% of total daily dose q 30-60 min.
   D. Adjust baseline upward daily in amount roughly equivalent to total amount of PRN.
   E. Negotiate with patient/family to target level of relief, balancing function vs. complete absence of pain.

3. In general, oral route is preferable, then transcutaneous > subcutaneous > intravenous. Determine route as appropriate for situation/acuity and type of pain.

4. If parenteral medication is needed for mild to moderate pain, use half the usual starting dose of morphine or equivalent.

5. Short-acting preparations should be used acutely & post-op. Switch to long-acting preparations when pain is chronic and the total daily dose is determined.

6. Avoid multiple agents of similar duration.

7. When converting from one opioid to another, some experts recommend reducing the equianalgesic dose by 1/3 to 1/2, then titrate as in #2 above.

8. Infants < 6 months or those with severe renal or liver disease should start on 1/4 to 1/2 the usual starting dose.

9. Administering opioids to children <24 months:
   A. Infants < 6 months: place on apnea/bradycardia monitor and pulse oximeter
   B. Infants/children 6 months - 24 months: place pulse oximeter (consider for children with developmental disabilities, h/o prematurity and known respiratory difficulties)

10. Naloxone (Narcan) should only be used in emergencies: Dilute naloxone (0.4 mg/ml) 0.1 mg (0.25 ml) with 9.75 ml NS (final strength 10 mcg/ml). Give 2 mcg/kg IV, repeat q2minutes for total of 10mcg/kg. Monitor patient q15 minutes for at least 90 minutes. May need to repeat naloxone again in 30-60 minutes.

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<table>
<thead>
<tr>
<th>HALF LIFE (hours)</th>
<th>DURATION (hours)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.5-2</td>
<td>3-7</td>
</tr>
<tr>
<td>3-4</td>
<td>4-6</td>
</tr>
<tr>
<td>2-3</td>
<td>4-5</td>
</tr>
<tr>
<td>15-90</td>
<td>6-12</td>
</tr>
<tr>
<td>13-22 (patch)</td>
<td>48-72 (patch)</td>
</tr>
<tr>
<td>3.3-4.5</td>
<td>4-6</td>
</tr>
</tbody>
</table>

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**Equianalgesic Table for Pediatrics**

**Half-life, Duration, Dosing and Guidelines**

(Tailor care to individual needs.)

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**Community Principles of Pain Management for Children**

Adapted for pediatrics by University of Rochester Medical Center and Golisano Children’s Hospital, 2012

Reviewed and approved every other year

Approved in June 2019.

Next scheduled update in 2021.

Additional pain management resources are available at CompassionAndSupport.org
1. Assess and manage pain in adult patients using the CPPM Adult Guide.

**N.B. Opioids are not first line for chronic pain, even moderate to severe pain, which should be managed with an active approach and non-opioid pain relievers whenever possible. When opioids are indicated, based on a careful risk assessment, combine with an active and passive approach to nonpharmacologic therapy. Be wary of dose escalation over time due to tolerance.**

2. **How to dose opioids:**
   - A. Give baseline medication around the clock
   - B. For breakthrough pain order 10% total daily dose as a PRN given q 1-2h for oral and q 30-60 min for SC/IV
   - C. For continuous infusion, PRN can be either the hourly rate q 15 minutes or 10% of total daily dose q 30-60 minutes.
   - D. Adjust baseline upward daily in amount roughly equivalent to total amount of PRN
   - E. Determine acceptable level of pain control that supports patient’s goals.

3. In general, oral route is preferable, then trans-cutaneous > subcutaneous > intravenous.

4. If parenteral medication is needed for mild to moderate pain, use half the usual starting dose of morphine or equivalent.

5. Use a short-acting medication for acute pain exacerbation. Switch to long-acting preparations when pain is chronic and the total daily dose is determined.

6. Avoid multiple agents of similar duration.

7. When converting from one opioid to another, some experts recommend reducing the equianalgesic dose by 1/3 to 1/2, then titrate as in #2 above.

8. Older adults, or those with severe renal or liver disease, should start on half the usual starting dose. Watch carefully for toxicity from accumulation.

9. Use care with combinations. Ensure total consumption of APAP from ALL sources & ALL purposes does not exceed 3 grams/day (2-3 grams for frail elders.)

10. Patients with substance abuse history may need a higher starting dose due to tolerance. Monitor urine drug screenings. Consider abuse-deterrent opioids and/or co-prescribing naloxone.

11. Refer to product information fentanyl use. Review CPPM methadone and buprenorphine guidelines.

12. Refer to protocol for Naloxone use.

13. Avoid Codeine and tramadol if breastfeeding.
Opioid Guidelines for Pediatric Patients

These guidelines do not apply to infants in the NICU.

Codeine and Tramadol are CONTRAINDICATED in children under 12 years of age.

1. Evaluate pain on all patients using a developmentally appropriate scale.

   N.B. Opioids are not first line for chronic pain, even moderate to severe pain, which should be managed with an active approach and non-opioid pain relievers whenever possible. When opioids are indicated, based on a careful risk assessment, combine with an active approach and other measures. Be wary of dose escalation over time due to tolerance.

2. How to dose opioids:
   A. Give baseline medication around the clock
   B. For breakthrough pain order 10% total daily dose as a PRN given q 1-2h for oral and q 30-60 min for SC/IV.
   C. For continuous infusion, PRN can be either the hourly rate q 15 minutes or 10% of total daily dose q 30-60 minutes.
   D. Adjust baseline upward daily in amount roughly equivalent to total amount of previous day’s PRNs
   E. Negotiate with patient/family to target level of relief, balancing function vs. complete absence of pain.

3. In general, oral route is simplest/preferable, then transcutaneous > subcutaneous > intravenous. Determine route as appropriate for situation/acuity and type of pain

4. If parenteral medication is needed for mild to moderate pain, use half the usual starting dose of morphine or equivalent.

5. Short-acting preparations should be used acutely & post-op. Switch to long-acting preparations when pain is chronic and the total daily dose is determined.

6. Avoid multiple agents of similar duration

7. When converting from one opioid to another, some experts recommend reducing the equianalgesic doses by 1/3 to 1/2, then titrate as in #2 above.

8. Infants < 6 months or those with severe renal or liver disease should start on 1/4 to 1/2 the usual starting dose.

9. Administering opioids to children <24 months:
   A. Infants < 6 months: place on apnea/bradycardia monitor and pulse oximeter
   B. Infants/children 6 months - 24 months: place pulse oximeter (consider for children with developmental disabilities, h/o prematurity & known respiratory difficulties)

10. Naloxone (Narcan) should only be used in emergencies:
    D. Dilute naloxone (0.4 mg/ml) 0.1 mg (0.25 ml) with 9.75 ml NS (final strength 10 mcg/ml)
    Give 2 mcg/kg IV, repeat q2minutes for total of 10mcg/kg
    Monitor patient q15 minutes for at least 90 minutes
    May need to repeat naloxone again in 30-60 minutes
Medicines called opioids (o-pee-oyds) have been prescribed for my chronic pain. Opioids are sometimes called narcotics. I understand they may be helpful. I also recognize that these medicines are dangerous if not taken correctly. They may be misused. Because of possible danger and misuse, they are closely controlled by my medical providers and by law. The following conditions will help give me the best pain relief and avoid misuse. I agree to follow them:

1. I will take my pain medicines correctly. I agree to take the medicine only as prescribed. I will contact my provider before making any changes.
   - I understand that taking more of my medicine than prescribed could lead to a drug overdose. An overdose may cause my heart or breathing to become very slow or stop. This could lead to death.
   - I understand that physical dependence is normal and expected when using these medicines for a long time. I understand that physical dependence is not the same as addiction. I understand that decreasing or stopping my medicine suddenly could lead to withdrawal symptoms. These include sweating, chills, and joint pain. I may also have trouble sleeping or be sick to my stomach. If I need to stop taking my medicine, I will follow my provider’s direction to do so slowly.
   - I understand that my pain medicine may cause addiction or opioid use disorder. Addiction means a lack of control over the use of the medicine. Lack of control includes using the medicine in spite of harm to me or craving the medicine. Harm could be physical, mental or social.
   - I understand that tolerance means that I may require more medicine to obtain the same amount of pain relief. Taking more medicine may not lessen my pain. Instead, it may cause distressing side effects. Tolerance or failure to respond well to my medicine may lead my provider to choose another form of treatment.
   - I understand that my provider will review the effect of my medicine with me on a regular basis. If my quality of life does not get better, the medicine may be stopped. In that case, I will follow my provider’s direction to slowly stop my opioid medicine.

2. I will report side effects. I understand that there are side effects from my opioid medicine. I will tell my provider at my next appointment about any side effects that are new, don’t go away, or affect my thinking. These may include:
   - Drowsiness
   - Confusion
   - Constipation
   - Nausea
   - Hallucinations (seeing things that aren’t there)
   - Vomiting
   - Itching
   - Dizziness
   - Slowed breathing
   - Slowed reaction times
   For most people, these side effects decrease with continued use of the medicine.
   - I will not involve myself in any activity that may be dangerous to me or someone else if I feel drowsy or am not thinking clearly. Such activities include but are not limited to:
     - Driving a motor vehicle or using heavy equipment
     - Being responsible for another individual who is unable to care for himself

3. I will tell all of my medical providers that I am taking opioid medicine. I understand that other medicines and substances can affect the way opioid medicines work in my body.
   - I understand that taking opioid medicines with alcohol may cause:
     - very slow breathing
     - very low blood pressure
     - extreme drowsiness
     - and even death.
   - I understand that I should not drink alcohol or take medicines containing alcohol while taking my opioid medicine.
   - I understand that I must talk with my provider before taking other medicines. Some common medicines that may interact with my opioid include:
Anxiety medicines (example: lorazepam (Ativan), diazepam (Valium), alprazolam (Xanax))
Muscle relaxers (example: cyclobenzaprine (Flexeril))
Sleeping medicine (example: zolpidem (Ambien), over-the-counter sleep medicine)
Allergy/cold medicine (example: diphenhydramine (Benadryl))
Medical Marijuana

- I will tell my provider as soon as possible if I need to visit another provider or the Emergency Room due to pain. If I go to the Emergency Room, I will tell the Emergency Room provider that I have signed this pain agreement. Failure to do so may result in my discharge from care.

4. I will not use street drugs while on opioid medicine. If I have misused substances or alcohol in the past, I have discussed this with my provider. I agree to provide urine and blood for drug screening at any time my provider asks me. These tests will show the use of prescription and street drugs.
   • I will not use any drugs that were not prescribed for me.

5. I will tell my provider right away if I become pregnant or am planning to become pregnant.

6. I will keep my appointments.

7. I will keep track of my medicine and prescription refills. I understand that prescription refills:
   • Will be written for a time period that my prescriber believes is safe.
   • Will not be given if I:
     o Run out early
     o Lose the prescription
     o Spill or misplace the medicine
     o Have the medicine stolen.
   • Will be refilled at the same pharmacy unless I have made other plans with my provider.

8. I will keep my opioid medicine safe in a LOCKED place.
   • I understand that the opioid medicine is only for my use. The medicine should never be given or sold to others.
   • If I have children in the house, I will ask the pharmacy for a childproof top.
   • If my medicine is stolen, I will report this to my local police department. I will also get a stolen item report.
   • I will safely dispose of unused opioid medicine.

9. I have received education about my opioid medicine. I have had the chance to ask my provider questions about my opioid medicine.

10. I understand that I need to follow all of the above conditions. If I do not follow these conditions, my provider may no longer prescribe opioid medicines for me. I also understand that if I have a problem or question with any of the above information, I will discuss this with my provider.

11. I understand the importance of obtaining my opioid prescription from one prescriber and one pharmacy.

My Prescriber I agree to obtain my opioid prescription from: _____________________________
My PHARMACY I agree to obtain my opioid prescription from: _____________________________
I will report side effects to: __________________________________________________________
The OPIOID medicine that I have been prescribed is: ____________________________________

I understand that the effect of my medicine will be reviewed with my provider on a regular basis. If my daily function or quality of life does not get better from the opioid medicine, it may be stopped. In that case, I will follow my provider’s direction to slowly stop my opioid medicine.

I have read the above information (or it has been read to me) and have received a copy of the agreement. I understand my responsibilities and agree to these conditions while receiving opioid medicines.

________________________________   _____________________________
Patient Signature          Witness Signature

________________________________   _____________________________
Prescriber Signature          Date
Prescription drug abuse continues as a health care problem in our nation and state. Despite the fact that the NYS PDMP (Prescription Drug Monitoring Program, has yielded a 75% improvement in “doctor shopping” for opioid prescriptions, since 2013, death by overdose on prescription opioids remains significant in NYS (4.9/100,000 in 2012, 2013, 2014)\(^1\)

In 2005-2014 unintentional injury (where overdoses are classified) was the Number one cause of death for ages 15-44. (Suicide was number 4. Homicide number 5 for this age group)\(^2\) According to the 2009 Partnership Attitude Tracking Study, over half of teens agree prescription drugs are easier to get than illegal drugs. Most teens surveyed believe that the prescription drugs are being taken from the family medicine cabinet. 1 in 7 teens in grades 9-12 have reported taking a prescription pain reliever for non-medicinal purposes in the past year.

Though the most recent data in NYS shows a significant increase in heroin and fentanyl in overdose deaths (4.2/100,000)\(^3\), prescription opioids remain a major source of addiction, and overdose deaths.

When treating a patient with chronic pain, there must be a balance of controlling the individual’s pain with minimizing the risks of treatment. Risk assessment should be conducted prior to initiating opioid therapy. Patients should be assessed for known risk factors. Here is a list of items that elevate a patient’s risk for medication misuse and addiction:

- Personal or family history of substance or ETOH abuse
- History of pre-adolescent sexual abuse
- Psychiatric illnesses
- Poor reliability/compliance with medical care
- Poor social support or unstable living circumstances
- Youth (age <45)
- Smoking

These risk factors do not exclude an individual from receiving proper pain treatment, but would suggest that this patient may require strict or frequent monitoring. Some aberrant drug taking behaviors are more obvious (such as doctor shopping, prescription forgery, inappropriate route of administration), while others are less suggestive (such as requesting specific drugs, multiple occasions of non-adherence with therapy, resistance to a change in therapy).\(^6\)

Numerous screening tests are available to assist with risk assessment, including the Opioid Risk Tool (ORT)\(^5\), the DIRE (diagnosis, intractability, risk, efficacy) \(^6,7\), and the SOAPP (screener and opioid assessment for patients with pain)\(^8\). The Opioid Risk Tool ORT\(^8\) is a simple five question survey that can predict an individual’s risk. The ORT and DIRE are probably the two most widely used screening tools. Other helpful tools include prescription monitoring programs (available in most states, including New York State), random urine drug screening, pill counts and patient education.

Terms associated with drug therapy are often used interchangeably; however, they have drastic differences in definition. Below is some of the terminology associated with opioid therapy.\(^9,10\)

- **Opioid Use Disorder** is a medical condition characterized by the compulsive use of opioids despite adverse consequences from continued use and the development of a withdrawal syndrome when opioid use stops.
- **Physical dependence** is a state of adaptation that is manifested by a drug class-specific withdrawal syndrome that can be produced by abrupt cessation or rapid dose reduction of a drug, or by administration of an antagonist. This will occur in 100% of patients on chronic opioids.
- **Psychological dependence** is a subjective sense of a need for a specific psychoactive substance, either for its positive effects or to avoid negative effects associated with its abstinence.
- **Tolerance** is increasing amounts of drug are required to produce an equivalent level of efficacy. This too will occur in 100% of patients on chronic opioids.
- **Addiction** is a primary, chronic disease of brain reward, motivation, memory and related circuitry. Dysfunction in these circuits leads to characteristic biological, psychological, social and spiritual manifestations. This is reflected in an individual pathologically pursuing reward and/or relief by substance use and other behaviors. Addiction is characterized by inability to consistently abstain, impairment in behavioral control, craving, diminished recognition of significant problems with one’s behaviors and interpersonal relationships, and a dysfunctional emotional response. Like other chronic diseases, addiction often involves cycles of relapse and remission. Without treatment or engagement in recovery activities, addiction is progressive and can result in disability or premature death. Addictive behavior is much more common in those at risk as identified in a risk assessment tool which should be utilized before prescribing opioids.
The New York State Department of Health maintains a secure website which provides information as to whether a patient has received controlled substance prescriptions from two or more physicians and filled them at two or more pharmacies during the previous calendar month. To access this information, a current Health Commerce Account (formerly HPN) is needed. If you do not have an account, visit this website to establish one: https://hcsteamwork1.health.state.ny.us/pub/top.html. If you currently have a HCS account but are having difficulty logging in, please contact the Commerce Accounts Management Unit (CAMU) at 1-866-529-1890.

If you have identified an individual who has a problem with opioid use disorder and you are not qualified to treat the patient, assistance is available. Qualified physicians are able to dispense or prescribe medications for the treatment of opioid addiction in treatment settings other than the traditional Opioid Treatment Program (i.e. methadone clinic.) Visit http://www.buprenorphine.samhsa.gov for more information.

References:
11. Substance Use Disorders | SAMHSA: https://www.samhsa.gov/disorders/substance-use
Methadone Dose Conversion Guidelines
Adapted from AAHPM Palliative Care Primer, 2019 edition with permission from Timothy Quill M.D.

Methadone is not a first line pain medication and should be used primarily by those with pain and palliative expertise. Despite representing only 2% of opioid prescriptions, methadone has been involved in 30% of opioid related deaths in recent years. Inexperienced prescribers should seek consultation.

Background
Methadone is a potent opioid with several favorable characteristics, including oral bioavailability of 80%, no active metabolites requiring dose adjustments in renal impairment, low cost, steady analgesic effect, and (possibly) more efficacy when used for neuropathic pain than other opioids. However, methadone has a long, variable half-life (ranging from 6 to 190 hours depending on the dosage). The rapid titration guidelines used for other opioids do not apply to methadone. The dose should not be increased more frequently than every 4 days in lower doses and 1 to 2 weeks in higher doses. Small changes in total daily dosage may progressively have a larger effect on blood levels when patients are on dosages greater than 30 mg per day. Dose-conversion ratios are complex, non-linear, and vary based on current opioid dosage and individual factors (see table below).

Conversion table from morphine to methadone (most commonly used in the USA)

<table>
<thead>
<tr>
<th>24 hour total dose of oral morphine</th>
<th>Conversion ratio (oral morphine: oral methadone)</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt;30mg</td>
<td>2:1 (2mg morphine to 1mg methadone)</td>
</tr>
<tr>
<td>31-99mg</td>
<td>4:1</td>
</tr>
<tr>
<td>100-299mg</td>
<td>8:1</td>
</tr>
<tr>
<td>300-499mg</td>
<td>12:1</td>
</tr>
<tr>
<td>500-999mg</td>
<td>15:1</td>
</tr>
<tr>
<td>1000-1200mg</td>
<td>20:1</td>
</tr>
<tr>
<td>&gt;1200mg</td>
<td>Consult with palliative care or pain specialist prior to prescribing</td>
</tr>
</tbody>
</table>

Because of the potential for drug accumulation from the long half-life, always write “hold for sedation” when initially prescribing or changing dosages of methadone.

Converting from methadone back to morphine or other opioids is especially complex, because methadone affects more opioid receptors than other opioid analgesics. Assistance from palliative care or pain management experts is highly recommended for such a transition if patients have been more than 30 mg for more than a few weeks.

Because of its long half-life, methadone is better used as a baseline, scheduled analgesic, with shorter-acting opioids such as morphine or hydromorphone used prn. There is some literature suggesting methadone can be used as a prn, however the risks if overused are much greater with methadone. Under most circumstances, unless the prescriber is very familiar with methadone pharmacokinetics and the patient is very reliable, it is safer to use an immediate release opioid as a prn when using methadone as the baseline opioid. The usual calculation ratios and intervals used for determining breakthrough doses of other opioids do not apply to methadone (and fentanyl).

Although the ratio of oral methadone to intravenous methadone may vary from 1:1 to 2:1, when converting from oral to intravenous methadone it is prudent to reduce the total daily dose of methadone by 50%. On the other hand, when converting from intravenous methadone to oral methadone, it is recommended to use the most conservative 1:1 conversion to avoid over-medicating the patient. Closely monitor for under- and over-dosing in all transitions. (See Table 1 Patient Selection for Methadone Therapy in McPherson et al)

Cautions about Methadone

- The long half-life causes drug accumulation, and can lead to possible sedation, confusion, and respiratory depression, especially in the elderly or with rapid dose adjustments. Respiratory depression must be treated with naloxone infusion due to methadone’s long half-life.
- Methadone in moderate to high dosages can prolong the QTc interval and increase the risk of the potentially lethal torsades de pointes arrhythmia. (See below for greater detail)
- Medications that can decrease methadone levels include rifampin, phenytoin, dexamethasone, carbamazepine, bosentan, phenobarbital, St. John’s Wort, modafinil, and a number of antiretroviral agents.
- Medications that can increase methadone levels include tricyclic antidepressants,azole antifungals (especially voriconazole), isavuconazonium, bupropion, chlorpromazine, duloxetine, haloperidol, omeprazole clarithromycin, erythromycin, and fluoroquinolones, amiodarone, selective serotonin reuptake inhibitors (SSRIs), and diazepam. Grapefruit juice and acute ETOH use also can increase methadone levels.
- Methadone has some serotonin activity and can contribute to serotonin syndrome.
Careful patient selection and counseling should be undertaken to outline risks and benefits when using methadone.

Sample Calculation – Complete Conversion to Methadone
A 50-year-old woman with metastatic breast cancer has good pain control with sustained-release oral morphine 200 mg, two tablets twice a day. However, she develops persistent myoclonus. A decision is made to rotate opioids to methadone. (Our conversion table [Table 2.1] always requires that the equianalgesic amount of oral morphine be determined to calculate a daily dosage of methadone.)

**Step 1. Calculate the total daily oral morphine dosage.**
- Two tablets of 200 mg each, taken twice daily = 800 mg total oral morphine per day

**Step 2. Convert to methadone.**
- For a dosage of 800 mg per day, the conversion ratio of morphine to methadone is 15:1 (see “Conversion table from morphine to methadone” on previous page).
- 800 mg per day oral morphine × 1 mg methadone/15 mg oral morphine = 53 mg methadone per day

**Step 3. Reduce the dosage because of incomplete cross-tolerance.**
- Reduce the equianalgesic dose by 1/2 when switching opioids because of incomplete cross-tolerance.
- 53 mg × 1/2 equals about 26 mg methadone
- Total daily dosage should be about 26 mg methadone per day (general consensus that starting doses should not exceed 30-40 mg per day – see McPherson et al and Chou et al.).

**Step 4. Determine dosing schedule.**
- Methadone is initially dosed in divided doses three times per day (the analgesic effect is shorter than the half-life, so methadone should be generally given three times per day for pain, even though for methadone maintenance it can be given daily or even less frequently).
- A dosage of about 26 mg per day of methadone can be given as 7.5 mg to 10 mg of methadone three times per day (total daily dose of methadone being either 22.5mg or 30mg respectively).
- When ordering methadone, because of its long and variable half-life, always write “hold for sedation.”

**Step 5. Choose a prn medication.**
- Because of its potentially long half-life, prn doses of methadone are difficult to manage correctly and are subject to completely different rules than other prn opioids. Therefore, unless you are a very experienced methadone prescriber, an opioid with a short half-life is highly preferable for prn dosing.

**Step 6. Determine the prn dose (morphine).**
- The prn dose should be 10% of the total daily opioid dosage.
- Because the patient was already on 800 mg per day of oral morphine, the prn dose based on the prior total daily dosage of morphine would be: 800 mg oral morphine × 10% = 80 mg oral morphine every 1 to 2 hours as needed.
- This could be given as 4 cc of 20 mg/cc morphine concentrate or equivalent every 1 to 2 hours as needed.

**Step 7. Adjustments to regimen**
- Due to the variable and often long half-life, changes in dosing should be made no more frequently than 5-7 days. In cases like this where higher doses of methadone are being used, 7-14 days is advised.
- Due to multiple drug interactions, close monitoring of the complete medication list of methadone patients is critical.

**Practical facts**
- Tablets 5, 10mg; Liquid 1mg/mL, 2mg/mL; 10mg/ml. The 40mg tablets are approved for detox and addiction tx only.
- Tablets can be crushed and are reasonably well absorbed sublingually, buccally or rectally if necessary.
- Cost of methadone: 1/10 morphine sulfate ER, 1/75 oxycodone ER, 1/15 of transdermal fentanyl.
- Any physician with a Schedule II DEA license can prescribe methadone for pain. A special license is only required when using for the treatment of addiction. (N.B. Must write “for pain” on the prescription when used for pain.)
- Seek consultation if converting from large doses of other opioids, converting to IV, or if inexperienced.

**QTc Prolongation**
- Depending on the goals of treatment, the presence of associated heart disease, the patient’s prognosis, and the presence of other medications that prolong QTc, ECG monitoring may be indicated.

Approved in June 2019; Next Scheduled Update in 2021.

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• If risk factors present, get baseline QTc.
  o Previous QTc > 450ms or known congenital long QTc syndrome
  o Underlying cardiac abnormalities, especially hx of ventricular arrhythmias, congestive heart failure
  o Use of other medications that prolong QTc and have a known risk of TdP (see [https://www.crediblemeds.org/](https://www.crediblemeds.org/) for additional information)
  o Electrolyte abnormalities (especially low K, Ca, and Mg)
  o Hypothyroidism

• Begin monitoring after each dosage change if their baseline QTc exceeds 450ms and for all patients if and when their daily dose exceeds 30mg mg of methadone per day.
• For high-risk patients, monitor after initiation and each increase.
• Once a new steady state has been achieved, repeat ECG; generally about 4-7 days.
• There is no need for repeated checking unless dose is changed or another drug is added that would raise the blood level or affect the QTc.
• If QTc becomes significantly prolonged (QTc 450-499 milliseconds = moderate risk; QTc > 500 milliseconds = high risk), consider lowering the methadone dosage or rotating to an alternate opioid. Formal or informal consultation with palliative care, acute pain service, cardiology, and pharmacy should be considered. (see McPherson et al. and Chou R et al. for additional monitoring details)

References


UptoDate 5/19. Methadone: Drug Information and Cancer Pain Management with Opioids

Woosley RL, Heise CW, Gallo T, Tate J, Woosley D and Romero KA, www.CredibleMeds.org, QTdrugs List, [Accession Date], AZCERT, Inc. 1822 Innovation Park Dr., Oro Valley, AZ 85755
Buprenorphine for the Treatment of Pain

Background

Buprenorphine is a semi-synthetic thebaine derivative, categorized as a mixed partial agonist opioid receptor modulator (opioid agonist-antagonist). It binds to various opioid receptors, and acts as a partial agonist at mu-opioid receptors and as an antagonist at kappa receptors. This opioid is used to treat opioid addiction in higher doses and chronic pain in lower doses. There are two properties that distinguish buprenorphine from other opioids. First, a ceiling effect occurs as the dose is increased. This contributes greatly to its safety profile but may limit its usefulness for treatment of severe, escalating pain. In other words, at high doses, the respiratory depressive and analgesic effects level off. In overdose situations, however, respiratory depression can still occur and will be more difficult to treat with naloxone compared to overdoses with other opioids due to buprenorphine’s very tight binding to opioid receptors (very high naloxone doses of 10-35mg may be required).

Secondly, it has a bell-shaped dose-response curve. At moderate to high doses, the euphoric effects also level off, thus lowering its potential for misuse and overdose. The abuse potential of buprenorphine, although low, is further reduced in a transdermal preparation because the plasma levels slowly rise to a therapeutic level, unlike the rapid peak level that occurs with other formulations.

Buprenorphine has poor oral bioavailability due to significant first pass metabolism and therefore is not offered as an oral formulation. Buprenorphine is highly lipophilic and well absorbed by the oral mucosa. As such, transdermal, sublingual, and buccal formulations are available in addition to an injectable (intravenous/intramuscular) formulation. Buprenorphine is currently available in four types of single agent products:

1. Butrans transdermal patch
2. Belbucca buccal film
3. Subutex sublingual tablet
4. Buprenex injectable solution

Butrans and Belbucca are FDA indicated for the treatment of chronic pain in patients requiring a continuous, around-the-clock opioid analgesic for an extended period of time. Subutex is not FDA indicated for treatment of acute or chronic pain and carries a manufacturer warning against use as an analgesic due to reported deaths of opioid naïve patients receiving a buprenorphine 2 mg sublingual dose. Sublingual buprenorphine has been successfully studied for postoperative pain control, although caution is warranted if using off label for this indication given the manufacturer warning of fatal overdose at 2 mg in opioid naïve patients (Johnson, Fudala, Payne, 2005). Buprenex is indicated for acute moderate to severe pain. Buprenex has a slow onset of analgesic effect (15 minutes to onset, 1-3 hours to peak effect) and therefore may not be considered an ideal analgesic choice for acute pain management in comparison to other injectable opioids. Parenteral buprenorphine is approximately 30 times more potent than parenteral morphine (buprenorphine 0.3 mg ~ morphine 10 mg). Please note that all buprenorphine formulations do still carry a black box warning due to the risk of severe, life-threatening respiratory depression.

Buprenorphine is also available in combination with naloxone for the treatment of substance abuse disorder in products such as Bunavail, Suboxone, and Zubsolv. These medications when used for opioid dependence are limited for use by qualified prescribers.
Initial dosing of Butrans patch:

For Opioid naïve patients: initiate treatment with a 5mcg/hr patch, replaced weekly.

Conversion from Other Opioids to Butrans: Discontinue all other around-the-clock opioids when Butrans therapy is initiated to reduce potential of precipitated withdrawal. Initial Butrans dose:

<table>
<thead>
<tr>
<th>Previous Opioid Analgesic Daily Dose (Oral Morphine Equivalent)</th>
<th>Initial Dosing</th>
<th>Conversion</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt;30 mg</td>
<td>5 mcg/hour patch</td>
<td>BUTTRANS 20 mcg/hour may not provide adequate analgesia for patients requiring greater than 80 mg/day oral morphine equivalent. Consider the use of an alternate analgesic.</td>
</tr>
<tr>
<td>30-80 mg</td>
<td>10 mcg/hour patch</td>
<td></td>
</tr>
</tbody>
</table>

Initial dosing of Belbuca buccal strips:

For Opioid naïve patients: initiate treatment with a 75 mcg film once daily or, if tolerated, every 12 hrs.

Conversion from Other Opioids to Belbuca: To reduce the risk of opioid withdrawal, taper patients to no more than 30mg oral morphine equivalent daily before beginning Belbuca. Initial Belbuca dose:

<table>
<thead>
<tr>
<th>Previous Opioid Analgesic Daily Dose (Oral Morphine Equivalent) before taper</th>
<th>Initial Dosing</th>
<th>Conversion</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt;30 mg</td>
<td>75mcg QD-BID</td>
<td>BELBUCA may not provide adequate analgesia for patients requiring greater than 160 mg oral morphine equivalent per day. Consider the use of an alternate analgesic. The maximum daily dose of Belbuca is 900mcg.</td>
</tr>
<tr>
<td>30-89 mg</td>
<td>150mcg q12h</td>
<td></td>
</tr>
<tr>
<td>90-160 mg</td>
<td>300mcg q12h</td>
<td></td>
</tr>
</tbody>
</table>

Initial dosing of Buprenex injectable (IV/IM) formulation:
The usual dosage for persons 13 years of age and over is 1 mL buprenorphine hydrochloride injection (0.3 mg buprenorphine) given by deep intramuscular or slow (over at least 2 minutes) intravenous injection at up to 6-hour intervals, as needed. Repeat once (up to 0.3 mg) if required, 30 to 60 minutes after initial dosage, giving consideration to previous dose pharmacokinetics, and thereafter only as needed.

In high-risk patients (e.g., elderly, debilitated, presence of respiratory disease, etc.) and/or in patients where other CNS depressants are present, such as in the immediate postoperative period, the dose should be reduced by approximately one-half. Extra caution should be exercised with the intravenous route of administration, particularly with the initial dose.
References

Buprenorphine Is a Weak Partial Agonist That Inhibits Opioid Receptor Desensitization

Transdermal buprenorphine in the management of persistent pain – safety aspects


Naloxone Protocol:
A guideline for increasing community access to naloxone.

On March 15, 2016, the Centers for Disease Control and Prevention (CDC) published Prescribing Opioids for Chronic Pain. These guidelines indicate clinicians should offer naloxone when factors that increase risk for opioid overdose are present, such as history of overdose, history of substance use disorder, higher opioid dosages (≥50 mg oral morphine equivalents/day), or concurrent benzodiazepine use.

Nationally, many key stakeholders endorse increasing community access to naloxone, including the CDC, Attorney General, Surgeon General, Food and Drug Administration, World Health Organization, American Medical Association, American Society of Addiction Medicine, American Public Health Association, National Association of Drug Diversion Investigators, and the Office for National Drug Control Policy.

Naloxone may be offered to anyone who feels they are at risk for witnessing a drug overdose.
Naloxone may be prescribed to patients at increased risk for opioid overdose including:

- History of addiction, drug abuse, or drug overdose
- Moderate or high risk of opioid addiction (score of 4 or greater on the Opioid Risk Tool)
- Long-acting opioid use (sustained or extended-release oral formulation, fentanyl patch, or methadone)
- Oral morphine equivalents of 50 mg or more per day (50 mg oral hydrocodone/day, 30 mg oral oxycodone/day, 12.5 mg oral hydromorphone/day, ~12 mg oral methadone/day, any strength fentanyl patch)
- Concurrent opioid and benzodiazepine use

There are two ways to offer naloxone:

**NON-PRESCRIPTION**

Any patient or non-patient community member may pick up a Naloxone Kit.

Kits contain two prefilled naloxone syringes that require a nasal atomizer be affixed prior to administration. Free Kits are available at NYS Dept of Health registered programs found at: [http://www.health.ny.gov/diseases/aids/general/resources/opd_directory/index.htm](http://www.health.ny.gov/diseases/aids/general/resources/opd_directory/index.htm).

Some community pharmacies also carry kits for purchase (approximately $60).

**PRESCRIPTION**

Patients may pick up a prescription for naloxone at their usual pharmacy.

Insurance coverage of prescription naloxone is required by the Centers for Medicare and Medicaid Services.

Naloxone may be prescribed via any of the following regimens:
Opioid & Sedative Guidelines for Emergency Department and Urgent Care Providers

ED or Urgent Care providers should not

- dispense prescriptions for controlled substances that were lost, destroyed, stolen, or finished prematurely.
- prescribe or provide doses of methadone, buprenorphine (Suboxone), or long acting pain medications.

ED or Urgent Care providers should prescribe opiates for acute, short term pain for the shortest duration appropriate with national guidelines, generally no more than 3 days.

ED providers are strongly encouraged to access iStop when they have a reasonable suspicion that the patient has recently been prescribed a controlled substance by another provider, or if they suspect inappropriate use of opiates.

A dedicated primary care provider or relevant long-term care specialist (rather than ED or Urgent Care) should provide all opiates and sedatives to treat chronic ongoing condition.

An acute need for an opioid prescription is not indicated for any of the following signs/symptoms/conditions:

- Abrasions
- Cellulitis
- Chest pain
- Chronic pain, such as back pain, abdominal pain, extremity pain, and headaches
- Contusions
- Cough
- Dental pain without acute trauma
- Dysuria
- Ear pain
- Hemorrhoids
- Lacerations
- Neck pain
- Sexually transmitted disease
- Sprains/strains from trauma
- Throat pain
- Urinary tract infection
Many patients who present to the ED showing signs of addiction are often at their most vulnerable. These patients may be open to active discussion regarding their addictions and receptive to suggestions for treatment of their addiction. ED providers are encouraged to 1) counsel patients on appropriate use of opiates when prescribed for acute pain and 2) provide guidance on resources available for addiction treatment when inappropriate use of opiates or addiction is suspected.

Resources and provider listings can be found on this website:

https://ncadd-ra.org/news-resources/resources-advocacy-research

1 Guidelines do not exclude the use of clinical judgment in the management of patients, but detailed documentation is indicated to support treatment outside of the recommended guidelines.

Opiate medications include, but are not limited to: codeine; hydrocodone (Norco, Vicodin, Lortab); oxycodone IR (Percocet) and SR (OxyContin); morphine IR and SR (MS Contin); hydromorphone IR (Dilaudid) and ER (Exalgo ER); methadone; fentanyl; oxymorphone ER (Opana ER).

Sedative medications include, but are not limited to: alprazolam (Xanax); clonazepam (Klonopin); diazepam (Valium); lorazepam (Ativan).

Guidelines reviewed by Rochester Regional Healthcare Association Medical Director Committee subgroup and Chiefs of Emergency Medicine from member hospitals.
Safe Medication Storage & Disposal

Prescription drug abuse is a significant problem nationwide. Unwanted medicines left in the home can endanger others, particularly children, seniors, and pets, and can be subject to drug abuse or accidental ingestion/overdose. Proper disposal of unwanted or expired medications makes a difference for our community and our environment. Safe medication disposal programs have been shown to be the most convenient, cost-effective, and secure method of disposal.

As of 2019, all drug disposal costs for hospitals and pharmacies in New York will be covered by drug manufacturers, as a result of the Senate’s “Drug Take Back Act,” which was passed July 10, 2018 (for more information: https://www.nysenate.gov/newsroom/press-releases/senates-drug-take-back-act-becomes-law.)

Most abused prescription drugs come from family and friends. Pharmaceutical drugs can be just as dangerous as street drugs when taken without a prescription or a doctor’s supervision. Most teenagers abusing prescription drugs get them from family and friends – and the home medicine cabinet.

Unused prescriptions thrown in the trash can be retrieved and abused or illegally sold. Unused drugs that are flushed contaminate the water supply. Proper disposal of unused drugs save lives and protect the environment.

How to dispose of unused/expired medicine

Medicine take-back options

Consumers and caregivers should remove expired or unused medicines from their home as quickly as possible to help reduce the chance that others may accidentally take or intentionally misuse the unneeded medicine. Medicine take-back options are the preferred way to safely dispose of most types of unneeded medicines. There are generally two kinds of take-back options: periodic events and permanent collection sites.

Periodic events

The U.S. Drug Enforcement Administration (DEA) periodically hosts National Prescription Drug Take-Back events where temporary collection sites are set up in communities nationwide for safe disposal of prescription drugs. A small number of medicines have specific directions to immediately flush them down the toilet when they are no longer needed, and a take-back option is not readily available. Local law enforcement agencies may also sponsor medicine take-back events in your community. Consumers can contact their local waste management authorities to learn about events in their area.

Permanent collection sites

Another option for consumers and long-term care facilities to dispose of unneeded medicines is to transfer these medicines to DEA-registered collectors, which safely and securely collect and dispose of

pharmaceuticals containing controlled substances and other medicines. Authorized permanent collection sites may be in retail pharmacies, hospital or clinic pharmacies, and law enforcement facilities. Some authorized collection sites may also offer mail-back programs or collection receptacles, sometimes called “drop-boxes,” to assist consumers in safely disposing of their unused medicines.

Visit the DEA’s website for more information about drug disposal, National Prescription Drug Take-Back Day events and to locate a DEA-registered collector in their area. To find an authorized collector, call the DEA Office of Diversion Control’s Registration Call Center at 1-800-882-9539 in their community.

**Disposal in the household trash**

If no take-back programs or DEA-registered collectors are available in your area, and there are no specific disposal instructions in the product package insert, you can also follow these simple steps to dispose of most medicines in the household trash*:

- Mix medicines (do not crush tablets or capsules) with an unpalatable substance such as dirt, cat litter, or used coffee grounds;
- Place the mixture in a container such as a sealed plastic bag;
- Throw the container in your household trash; and
- Delete all personal information on the prescription label of empty pill bottles or medicine packaging, then dispose of the container.

*Other technologies to provide additional options for patients to use to dispose of medicines in the household trash have been developed.

**Flushing certain potentially dangerous medicines in the toilet**

A small number of medicines have specific instructions to immediately flush down the toilet when no longer needed and a take-back option is not readily available. These medicines may be especially harmful and, in some cases, fatal with just one dose if they are used by someone other than the person for whom they were prescribed. But as drug take-back programs and sites increase across the country, these could be options too, if one is readily available.


For more information on prescription drug abuse, go to:

- [www.DEA.gov](http://www.DEA.gov) or call 1-800-822-9539
- [www.GetSmartAboutDrugs.com](http://www.GetSmartAboutDrugs.com)
- [www.JustThinkTwice.com](http://www.JustThinkTwice.com)
**Practice Guidelines and Pharmacological Therapies**


Assessment Tools


Neuromodulation and Invasive Procedures:


Non-Pharmacological / Alternative / Complementary Therapies


Kong, L. et al. (2016) Tai Chi for Chronic Pain Conditions: A Systematic Review and Meta-analysis of Randomized Controlled Trials. Sci. Rep. 6, 25325; doi: 10.1038/srep25325


Opioid Use Disorder


**Pediatrics**

