NONOPIOID TREATMENTS FOR CHRONIC PAIN

PRINCIPLES OF CHRONIC PAIN TREATMENT

Patients with pain should receive treatment that provides the greatest benefit. Opioids are not the first-line therapy for chronic pain outside of active cancer treatment, palliative care, and end-of-life care. Evidence suggests that nonopioid treatments, including nonopioid medications and nonpharmacological therapies can provide relief to those suffering from chronic pain, and are safer. Effective approaches to chronic pain should:

- Use nonopioid therapies to the extent possible
- Identify and address co-existing mental health conditions (e.g., depression, anxiety, PTSD)
- Focus on functional goals and improvement, engaging patients actively in their pain management
- Use disease-specific treatments when available (e.g., triptans for migraines, gabapentin/pregabalin/duloxetine for neuropathic pain)
- Use first-line medication options preferentially
- Consider interventional therapies (e.g., corticosteroid injections) in patients who fail standard non-invasive therapies
- Use multimodal approaches, including interdisciplinary rehabilitation for patients who have failed standard treatments, have severe functional deficits, or psychosocial risk factors

NONOPIOID MEDICATIONS

<table>
<thead>
<tr>
<th>MEDICATION</th>
<th>MAGNITUDE OF BENEFITS</th>
<th>HARMS</th>
<th>COMMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetaminophen</td>
<td>Small</td>
<td>Hepatotoxic, particularly at higher doses</td>
<td>First-line analgesic, probably less effective than NSAIDs</td>
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<tr>
<td>NSAIDs</td>
<td>Small-moderate</td>
<td>Cardiac, GI, renal</td>
<td>First-line analgesic, COX-2 selective NSAIDs less GI toxicity</td>
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<td>Gabapentin/pregabalin</td>
<td>Small-moderate</td>
<td>Sedation, dizziness, ataxia</td>
<td>First-line agent for neuropathic pain; pregabalin approved for fibromyalgia</td>
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<tr>
<td>Tricyclic antidepressants and serotonin/norepinephrine reuptake inhibitors</td>
<td>Small-moderate</td>
<td>TCAs have anticholinergic and cardiac toxicities; SNRIs safer and better tolerated</td>
<td>First-line for neuropathic pain; TCAs and SNRIs for fibromyalgia; TCAs for headaches</td>
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<td>Topical agents (lidocaine, capsaicin, NSAIDs)</td>
<td>Small-moderate</td>
<td>Capsaicin initial flare/burning, irritation of mucus membranes</td>
<td>Consider as alternative first-line, thought to be safer than systemic medications. Lidocaine for neuropathic pain, topical NSAIDs for localized osteoarthritis, topical capsaicin for musculoskeletal and neuropathic pain</td>
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RECOMMENDED TREATMENTS FOR COMMON CHRONIC PAIN CONDITIONS

Low back pain
Self-care and education in all patients; advise patients to remain active and limit bedrest
Nonpharmacological treatments: Exercise, cognitive behavioral therapy, interdisciplinary rehabilitation
Medications
- First-line: acetaminophen, non-steroidal anti-inflammatory drugs (NSAIDs)
- Second-line: Serotonin and norepinephrine reuptake inhibitors (SNRIs)/tricyclic antidepressants (TCAs)

Migraine
Preventive treatments
- Beta-blockers
- TCAs
- Antiseizure medications
- Calcium channel blockers
- Non-pharmacological treatments (Cognitive behavioral therapy, relaxation, biofeedback, exercise therapy)
- Avoid migraine triggers

Acute treatments
- Aspirin, acetaminophen, NSAIDs (may be combined with caffeine)
- Antinausea medication
- Triptans-migraine-specific

Neuropathic pain
Medications: TCAs, SNRIs, gabapentin/pregabalin, topical lidocaine

Osteoarthritis
Nonpharmacological treatments: Exercise, weight loss, patient education
Medications
- First-line: Acetaminophen, oral NSAIDs, topical NSAIDs
- Second-line: Intra-articular hyaluronic acid, capsaicin (limited number of intra-articular glucocorticoid injections if acetaminophen and NSAIDs insufficient)

Fibromyalgia
Patient education: Address diagnosis, treatment, and the patient’s role in treatment
Nonpharmacological treatments: Low-impact aerobic exercise (e.g., brisk walking, swimming, water aerobics, or bicycling), cognitive behavioral therapy, biofeedback, interdisciplinary rehabilitation
Medications
- FDA-approved: Pregabalin, duloxetine, milnacipran
- Other options: TCAs, gabapentin

LEARN MORE | www.cdc.gov/drugoverdose/prescribing/guideline.html