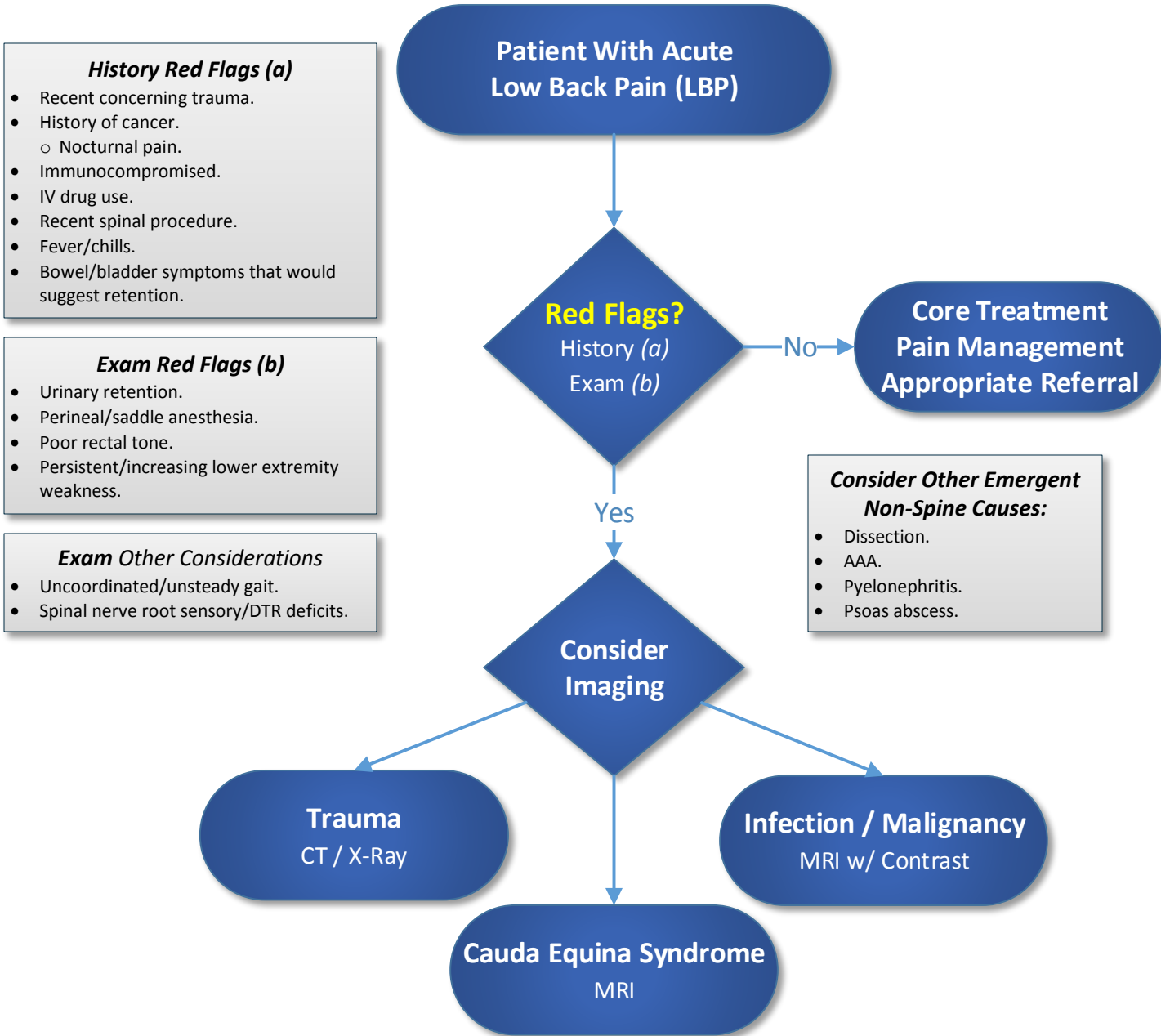




MANAGEMENT OF Acute Low Back Pain

This EPPA Clinical Guideline is intended to guide most, but not all, encounters involving acute low back pain and should not replace clinical judgment; deviate from or adapt this guideline to meet the individual patient's needs.





MANAGEMENT OF Acute Low Back Pain

References:

- Goertz M, et al. Adult Acute and Subacute Low Back Pain. *Institute for Clinical Systems Improvement (ICSI)*. November 2012; 91p.
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- Chou R, et al. Medications for Acute and Chronic Low Back Pain: A Review of the Evidence for an American Pain Society/American College of Physicians Clinical Practice Guideline. *Ann Intern Med*. 2007; 147(7): 505-14.

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Key Points:

- Acute is defined as < 6 weeks, sub-acute is 6-12 weeks, chronic is > 12 weeks.
- Imaging is NOT generally needed to diagnose acute low back pain (LBP). Imaging tests can lead to expensive, unnecessary interventions. If there are no "red flags" (signs of serious pathology/injury), avoid imaging tests.
- Pain is not attributable to a specific pathology or neurological encroachment in about 85% of patients.

Causes of Low Back Pain on Initial Evaluation:

- The specific causes of low back pain are discovered on the initial evaluation as follows:
 - **Cancer:** 0.7%
 - **Compression Fx:** 4%
 - **Spinal Infection:** 0.01%
 - **Ankylosing Spondylitis:** 0.3% to 5%
 - **Spinal Stenosis:** 3%
 - **Symptomatic Herniated Disc:** 4%

Cauda Equina Syndrome:

- Cauda equina syndrome is rare with an estimated prevalence of 0.04% among patients with low back pain. The most frequent finding in the cauda equina syndrome is urinary retention (90% sensitivity / % specificity not stated). In patients without urinary retention, the probability of the cauda equina syndrome is approximately 1 in 10,000.

Core Treatment:

- If clinical suspicion is low and history/exam red flags are absent then imaging is likely not indicated and treatment can be started.
- The core treatment plan for acute LBP includes education and reassurance, avoidance of bed rest, the use of heat, and a short course of medications:
 - **Staying Active**
 - **Physical / Manipulative Therapy**
 - **Acetaminophen / NSAIDs** - 1st Line Meds
 - **Ibuprofen:** 600mg q 6hrs. prn #30
 - **Muscle Relaxants** - 2nd Line Meds
 - Consider side effect potential particularly in elderly.
 - **Cyclobenzaprine:** 5-10mg q 8hrs. prn #15
 - **Opioid Medication** - 3rd Line Meds
 - Hydrocodone/APAP: 5/325mg 1-2 tabs q 6hrs. prn #15
 - Opioids have been shown to have no better outcomes than NSAIDs in low back pain, additional side effects.
 - **Oral Steroids**
 - Often used, no quality research/recommendations.

Physical Therapy:

- Early physical therapy can decrease the likelihood of subsequent back surgery, injections, or frequent LBP-related physician visits. See below for resources.

Follow-up Resources:

- **Primary Care**
- **Allina System:** [Courage Kenny Rehabilitation Institute \(Click For Website\)](#) Click for form.
- **Fairview System:** [Institute for Athletic Medicine \(Click For Website\)](#) Order# 9050.066
 - **Southdale On Call:** Twin Cities Orthopedics Spine, Edina - 952-456-7000
 - **Ridges On Call:** Twin Cities Orthopedics Spine, Burnsville - 952-808-3000
 - **Urgent Follow-Up Providers:**
 - Dr. Fred Harris (Fairview Spine and Brain Clinic) 952-836-3695
 - Dr. Stefano Sinicropi (Midwest Spine and Brain Institute) 651-430-3800
 - Dr. Frank Wei (Fairview PM&R) 952-926-8747
- **Park Nicollet System:** Low back pain discharge order set +/- chiropractic follow up.