

# **Back Pain**



#### History

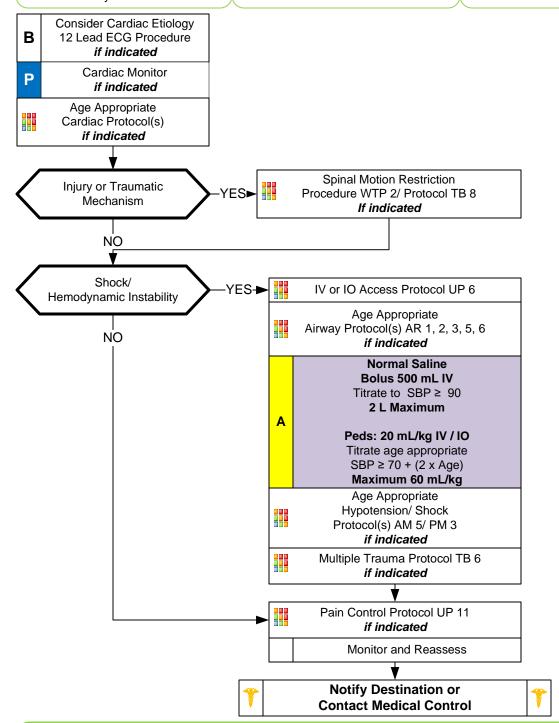
- Age
- Past medical history
- · Past surgical history
- Medications
- Onset of pain / injury
- Previous back injury
- Traumatic mechanism
- Location of pain
- Fever
- Improvement or worsening with activity

### **Signs and Symptoms**

- Pain (paraspinous, spinous process)
- Swelling
- Pain with range of motion
- Extremity weakness
- Extremity numbness
- Shooting pain into an extremity
- Bowel / bladder dysfunction

### **Differential**

- Muscle spasm / strain
- Herniated disc with nerve compression
- Sciatica
- Spine fracture
- Kidney stone
- Pyelonephritis
- Aneurysm
- Pneumonia
- Spinal Epidural Abscess
- Metastatic Cancer
- AAA





## **Back Pain**



Universal Protocol Section

Back pain is one of the most common complaints in medicine and effects more than 90% of adults at some point in their life.

Most often it is a benign process but in some circumstances can be life or limb threatening.

## Associated symptoms that are worrisome for complicated back pain:

- Fever, chills and night sweats.
- Symptoms outside the musculoskeletal system like urinary, gastrointestinal, or pulmonary.
- Abnormal vital signs.

### Non-traumatic back pain:

Most important signs/ symptoms of bowel and bladder function, sexual function, weakness, numbness, especially saddle anesthesia (numbness in the inner thighs, buttocks and perineum – what would sit in a horse saddle), as this increases suspicion of cauda equina syndrome.

### **Pearls**

- Recommended Exam: Mental Status, Heart, Lungs, Abdomen, Neuro, Lower extremity perfusion, Back
- Back pain is one of the most common complaints in medicine and affects more than 90% of adults at some
  point in their life. Back pain is also common in the pediatric population. Most often it is a benign process
  but in some circumstances can be life or limb threatening.
- Consider pregnancy or ectopic pregnancy with abdominal or back pain in women of childbearing age.
- Consider abdominal aortic aneurysm with abdominal pain especially in patients over 50 and/ or patients with shock/ poor perfusion. Patients may have abdominal pain and/ or lower extremity pain with diminished pulses. Notify receiving facility early with suspected abdominal aneurysm.
- Consider cardiac etiology in patients > 35, diabetics and/ or women especially with upper abdominal complaints.
- Red Flags which may signal a more serious process associated with back pain:

Age > 50 or < 18

Neurological deficit (leg weakness, urinary retention, or bowel incontinence)

IV Drug use

Fever

History of cancer, either current or remote

Night time pain in pediatric patients

Cauda equina syndrome is where the terminal nerves of spinal cord are being compressed (Symptoms include):.

Saddle anesthesia (numbness between the genitalia and rectum)

Recent onset of bladder and bowel dysfunction. (Urine retention and bowel incontinence)

Severe or progressive neurological deficit in the lower extremity.

Motor weakness of thigh muscles or foot drop

• Back pain associated with infection:

Fever/ chills.

IV Drug user (consider spinal infection)

Recent bacterial infection like pneumonia.

Immune suppression such as HIV or patients on chronic steroids like prednisone.

Meningitis.

- Spinal motion restriction in patients with underlying spinal deformity should be maintained in their functional position.
- Kidney stones typically present with an acute onset of flank pain which radiates around to the groin area.