**Back Pain**

**Office Hours Telephone Triage Protocols | Adult | 2018**

---

### Definition

- Complains of upper, mid, or lower back pain that occurs mainly in the midline.
- Not due to a traumatic injury
- Minor muscle strain and overuse are covered in this guideline. Sciatic pain is also covered.

**PAIN SEVERITY** is defined as:

- **MILD** (1-3): doesn't interfere with normal activities
- **MODERATE** (4-7): interferes with normal activities or awakens from sleep
- **SEVERE** (8-10): excruciating pain, unable to do any normal activities

Excluded:

- Pain in the back from significant blunt or penetrating trauma should be triaged using the Back Injury guideline.
- Pain in the lower back in pregnant women, consider labor. See Pregnancy - Labor and Pregnancy - Labor, Preterm guidelines.

---

### Triage Assessment Questions

<table>
<thead>
<tr>
<th>Call EMS 911 Now</th>
</tr>
</thead>
<tbody>
<tr>
<td>- Passed out (i.e., fainted, collapsed and was not responding)</td>
</tr>
<tr>
<td><em>R/O: ruptured abdominal aortic aneurysm. FIRST AID: Lie down with the feet elevated.</em></td>
</tr>
<tr>
<td>- Shock suspected (e.g., cold/pale/clammy skin, too weak to stand, low BP, rapid pulse)</td>
</tr>
<tr>
<td><em>R/O: ruptured abdominal aortic aneurysm. FIRST AID: Lie down with the feet elevated.</em></td>
</tr>
<tr>
<td>- Sounds like a life-threatening emergency to the triager</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>See More Appropriate Protocol</th>
</tr>
</thead>
<tbody>
<tr>
<td>- Major injury to the back (e.g., MVA, fall &gt; 10 feet or 3 meters, penetrating injury, etc.)</td>
</tr>
<tr>
<td><em>Go to Protocol: Back Injury (Adult)</em></td>
</tr>
<tr>
<td>- Pain in the upper back over the ribs (rib cage) that radiates (travels) into the chest</td>
</tr>
<tr>
<td><em>Go to Protocol: Chest Pain (Adult)</em></td>
</tr>
<tr>
<td>- Pain in the upper back over the ribs (rib cage) and worsened by coughing (or clearly increases with breathing)</td>
</tr>
<tr>
<td><em>Go to Protocol: Chest Pain (Adult)</em></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Go to ED Now</th>
</tr>
</thead>
<tbody>
<tr>
<td>- SEVERE back pain of sudden onset and age &gt; 60</td>
</tr>
<tr>
<td><em>R/O: compression fracture, abdominal aortic aneurysm</em></td>
</tr>
</tbody>
</table>
- SEVERE abdominal pain (e.g., excruciating)

- Abdominal pain and age > 60
  
  R/O: compression fracture, aortic aneurysm

- Unable to urinate (or only a few drops) and bladder feels very full
  
  R/O: urinary retention, cauda equina syndrome, conus medullaris syndrome

- Loss of bladder or bowel control (urine or bowel incontinence; wetting self, leaking stool) of new onset
  
  R/O: urinary retention with overflow incontinence, cauda equina syndrome, conus medullaris syndrome

- Numbness (loss of sensation) in groin or rectal area
  
  R/O: cauda equina syndrome, conus medullaris syndrome

**Go to ED/UCC Now (or to Office with PCP Approval)**

- Pain radiates into groin, scrotum
  
  R/O: kidney stones

- Blood in urine (red, pink, or tea-colored)

- Vomiting and pain over lower ribs of back (i.e., flank - kidney area)

- Weakness of a leg or foot (e.g., unable to bear weight, dragging foot)
  
  R/O: nerve root impingement or cord compression

- Patient sounds very sick or weak to the triager
  
  Reason: severe acute illness or serious complication suspected

**Go to Office Now**

- Fever > 100.5° F (38.1° C) and flank pain
  
  R/O: pyelonephritis

- Pain or burning with passing urine (urination)
  
  R/O: pyelonephritis

**See Today in Office**

- SEVERE back pain (e.g., excruciating, unable to do any normal activities) and not improved after pain medicine and CARE ADVICE

- Numbness in an arm or hand (i.e., loss of sensation) and upper back pain
  
  R/O: cervical nerve root compression, herniated disk; with pain radiating into upper back

- Numbness in a leg or foot (i.e., loss of sensation)
  
  R/O: severe back strain, cord compression

- High-risk adult (e.g., history of cancer, history of HIV, or history of IV drug abuse)
  
  R/O: metastasis, epidural abscess
- Painful rash with multiple small blisters grouped together (i.e., dermatomal distribution or "band" or "stripe")
  
  *R/O: herpes zoster (shingles)*

- Pain radiates into the thigh or further down the leg, and in both legs
  
  *Reason: bilateral sciatica carries higher risk*

### See Today or Tomorrow in Office

- Age > 50 and no history of prior similar back pain
  
  *Reason: higher risk of serious medical cause*

### See Within 3 Days in Office

- MODERATE back pain (e.g., interferes with normal activities) and present > 3 days
  
  *R/O: sciatica*

- Pain radiates into the thigh or further down the leg
  
  *R/O: sciatica*

- Patient wants to be seen

### See Within 2 Weeks in Office

- Back pain lasts > 2 weeks

- Back pain is a chronic symptom (recurrent or ongoing AND lasting > 4 weeks)

### Home Care

- Back pain
  
  *R/O: muscle strain, overuse*

- Caused by a twisting, bending, or lifting injury
  
  *R/O: muscle strain, overuse*

- Caused by overuse from recent vigorous activity (e.g., exercise, gardening, lifting and carrying, sports)
  
  *R/O: muscle strain, overuse*

- Preventing back strain, questions about

### HOME CARE ADVICE

#### Back Pain

1. **Reassurance and Education:**
   
   - Twisting or heavy lifting can cause back pain. It can also occur after un-noticed minor back injuries
   
   - With treatment, the pain most often goes away in 1-2 weeks.

2. **Cold or Heat:**

Office Hours Telephone Triage Protocols | Adult | 2018

Back Pain
• **Cold Pack:** For pain or swelling, use a cold pack or ice wrapped in a wet cloth. Put it on the sore area for 20 minutes. Repeat 4 times on the first day, then as needed.

• **Heat Pack:** If pain lasts over 2 days, apply heat to the sore area. Use a heat pack, heating pad, or warm wet washcloth. Do this for 10 minutes, then as needed. For widespread stiffness, take a hot bath or hot shower instead. Move the sore area under the warm water.

3. **Sleep:**
- Sleep on your side with a pillow between your knees. If you sleep on your back, put a pillow under your knees.
- Avoid sleeping on your stomach.
- Your mattress should be firm. Avoid waterbeds.

4. **Activity:**
- Keep doing your day-to-day activities if it is not too painful. Staying active is better than resting.
- Avoid anything that makes your pain worse. Avoid heavy lifting, twisting, and too much exercise until your back heals.
- You do not need to stay in bed.

5. **Pain Medicines:**
- For pain relief, you can take either acetaminophen, ibuprofen, or naproxen.
- They are over-the-counter (OTC) pain drugs. You can buy them at the drugstore.
  - **Acetaminophen** (e.g., Tylenol):
    - **Regular Strength Tylenol**: Take 650 mg (two 325 mg pills) by mouth every 4-6 hours as needed. Each Regular Strength Tylenol pill has 325 mg of acetaminophen.
    - **Extra Strength Tylenol**: Take 1,000 mg (two 500 mg pills) every 8 hours as needed. Each Extra Strength Tylenol pill has 500 mg of acetaminophen.
    - The most you should take each day is 3,000 mg (10 Regular Strength or 6 Extra Strength pills a day).
  - **Ibuprofen** (e.g., Motrin, Advil):
    - Take 400 mg (two 200 mg pills) by mouth every 6 hours.
    - Another choice is to take 600 mg (three 200 mg pills) by mouth every 8 hours.
    - The most you should take each day is 1,200 mg (six 200 mg pills), unless your doctor has told you to take more.
  - **Naproxen** (e.g., Aleve):
    - Take 220 mg (one 220 mg pill) by mouth every 8 hours as needed. You may take 440 mg (two 220 mg pills) for your first dose.
    - The most you should take each day is 660 mg (three 220 mg pills a day), unless your doctor has told you to take more.

6. **Pain Medicines - Extra Notes:**
- Use the lowest amount of medicine that makes your pain better.
- Acetaminophen is thought to be safer than ibuprofen or naproxen in people over 65 years old. Acetaminophen is in many OTC and prescription medicines. It might be in more than one medicine that you are taking. You need to be careful and not take an overdose. An acetaminophen overdose can hurt the liver.
- McNeil, the company that makes Tylenol, has different dosage instructions for Tylenol in Canada and the United States. In Canada, the maximum recommended dose per day is 4,000 mg or twelve Regular-Strength (325 mg) pills. In the United States, McNeil recommends a maximum dose of ten Regular-Strength (325 mg) pills.
- **Caution:** Do not take acetaminophen if you have liver disease.
- **Caution:** Do not take ibuprofen or naproxen if you have stomach problems, kidney disease, are pregnant, or have been told by your doctor to avoid this type of anti-inflammatory drug. Do not take ibuprofen or naproxen for more than 7 days without consulting your doctor.
Key Points

⦁ Lower back pain is a cause of countless visits to physicians’ offices and emergency departments. It is the second most common cause of lost workdays, after cold and flu symptoms. Over 80% of people...
at some point in their lives have lower back pain.

- However, there is some good news. In most cases, the back pain is not serious and it has a self-limited course. Pain subsides within 4-6 weeks in 90% of individuals experiencing acute low back pain.

**Four Categories of Back Pain**

- Potentially serious: Examples include abdominal aortic aneurysm, neoplasm, osteomyelitis, epidural abscess, vertebral fracture, and neurologic emergencies (e.g., cauda equina syndrome).
- Sciatica (back pain with neurologic symptoms): There is radiation of the back pain (or buttock pain) into a lower extremity suggesting lumbosacral nerve root compression. There may be associated leg weakness, numbness, or paresthesias.
- Non-specific back pain: No neurologic symptoms. Examples include lumbar strain/sprain, degenerative osteoarthritis, lumbar disc disease, and fibromyalgia.
- Referred back pain: There are gastrointestinal causes like pancreatitis, biliary colic, and posterior gastric ulcer; genitourinary causes like renal colic, pyelonephritis, endometriosis, and ovarian cyst.

**Lumbar Strain**

- Acute lower back pain in the 18 to 50 year old age group is usually a symptom of strain of some of the 200 muscles in the back that allow us to stand upright.
- Often the triggering event is carrying something too heavy, lifting from an awkward position, bending too far backward or sideways, or overuse.
- Individuals with strained back muscles often note that the pain is increased by bending or twisting movements, relieved by assuming certain positions, and that the back muscles are tender.

**Degenerative Osteoarthritis**

- Degenerative osteoarthritis is a common cause of back pain in the elderly population.
- In uncomplicated osteoarthritis, individuals will complain of chronic midline back discomfort. Frequently, there is morning stiffness that improves as the day progresses.

**Bed Rest and Overtreatment**

- Complete bed rest is inconvenient and unnecessary in the majority of patients, including those who need to be examined by the physician. Complete bed rest should never be recommended over the telephone.
- Research has demonstrated that continuing ordinary activities within the limits permitted by pain results in a speedier recovery than rest [Malmivaara reference].

### REFERENCES


