

ACUTE LOW BACK PAIN

DIAGNOSTIC TRIAGE

Diagnostic triage is the differential diagnosis between:

- ◆ Simple backache (non specific low back pain)
- ◆ Nerve root pain
- ◆ Possible serious spinal pathology

Simple backache: *specialist referral not required*

- ◆ Presentation 20-55 years
- ◆ Lumbosacral, buttocks & thighs
- ◆ "Mechanical" pain
- ◆ Patient well

Nerve root pain: *specialist referral not generally required within first 4 weeks, provided resolving*

- ◆ Unilateral leg pain worse than low back pain
- ◆ Radiates to foot or toes
- ◆ Numbness & paraesthesia in same distribution
- ◆ SLR reproduces leg pain
- ◆ Localised neurological signs

Red flags for possible serious spinal pathology:

prompt referral (less than 4 weeks)

- ◆ Presentation under age 20 or onset over 55
- ◆ Non-mechanical pain
- ◆ Thoracic pain
- ◆ Past history-carcinoma, steroids, HIV
- ◆ Unwell, weight loss
- ◆ Widespread neurology
- ◆ Structural deformity

Cauda equina syndrome: *immediate referral*

- ◆ Sphincter disturbance
- ◆ Gait disturbance
- ◆ Saddle anaesthesia

The evidence is weighted as follows:

- ◆◆◆ Generally consistent finding in a majority of acceptable studies.
- ◆◆ Either based on a single acceptable study, or a weak or inconsistent finding in some of multiple acceptable studies.
- ◆ Limited scientific evidence, which does not meet all the criteria of 'acceptable' studies

PRINCIPAL RECOMMENDATIONS

◆ Assessment

- ◆ Carry out diagnostic triage (see left).
- ◆ X-rays are not routinely indicated in simple backache.
- ◆ Consider psychosocial factors.

◆ Drug Therapy

- ◆ Prescribe analgesics at regular intervals, not p.r.n.
- ◆ Start with paracetamol. If inadequate, substitute NSAIDs (eg ibuprofen or diclofenac) and then paracetamol-weak opioid compound (eg codydramol or coproxamol). Finally, consider adding a short course of muscle relaxant (eg diazepam or baclofen).
- ◆ Avoid narcotics if possible.

◆ Bed Rest

- ◆ Do not recommend or use bed rest as a treatment for simple back pain.
- ◆ Some patients may be confined to bed for a few days as a consequence of their pain but this should not be considered a treatment.

◆ Advice on Staying Active

- ◆ Advise patients to stay as active as possible and to continue normal daily activities.
- ◆ Advise patients to increase their physical activities progressively over a few days or weeks.
- ◆ If a patient is working, then advice to stay at work or return to work as soon as possible is probably beneficial.

◆ Manipulation

- ◆ Consider manipulative treatment within the first 6 weeks for patients who need additional help with pain relief or who are failing to return to normal activities.

◆ Back Exercises

- ◆ Patients who have not returned to ordinary activities and work by 6 weeks should be referred for reactivation / rehabilitation.

EVIDENCE

- ★ Diagnostic triage forms the basis for referral, investigation and management.
- ★ Royal College of Radiologists Guidelines.
- ◆◆◆ Psychosocial factors play an important role in low back pain and disability and influence the patient's response to treatment and rehabilitation.

- ◆◆ Paracetamol effectively reduces acute low back pain.
- ◆◆◆ NSAIDs effectively reduce simple back ache. Ibuprofen and diclofenac have lower risks of GI complications.
- ◆◆ Paracetamol-weak opioid compounds are effective when NSAIDs or paracetamol alone are inadequate.
- ◆◆◆ Muscle relaxants effectively reduce acute back pain.

- ◆◆◆ Bed rest for 2-7 days is worse than placebo or ordinary activity and is not as effective as alternative treatments for relief of pain, rate of recovery, return to daily activities and work.

- ◆◆◆ Advice to continue ordinary activity can give equivalent or faster symptomatic recovery from the acute attack and lead to less chronic disability and less time off work.

- ◆◆◆ Within the first 6 weeks of onset, manipulation can provide short-term improvement in pain and activity levels and higher patient satisfaction.
- ◆◆ The evidence is inconclusive that manipulation produces clinically significant improvement in chronic low back pain.
- ◆◆ The risks of manipulation are very low in skilled hands.

- ◆◆◆ It is doubtful that specific back exercises produce clinically significant improvement in acute low back pain.
- ◆◆ There is some evidence that exercise programmes and physical reconditioning can improve pain and functional levels in patients with chronic low back pain, and theoretical arguments for starting this by 6 weeks.