## Low Back Pain Cheat Sheet by Siffi (Siffi) via cheatography.com/122609/cs/23628/

## Low back pain (LBP)

- Pain between lowest ribs and inferior gluteal folds

Triage: Non-specfic, + neurological involvement, + serious pathology (red flags)

**Risk factors of chronic back pain:** NRS >7 at presentation, Long duration of symptoms, Poor locus of control, Sciatica, Numerous episodes, Job dissatisfaction, Depression or anxiety, Activity intolerances, Poor endurance of lumbar extensors, Poor physical fitness

## Non-specfic LBP

- 20 yrs -55 yo

- Lumbrosacral region, buttocks and thighs
- Pain is mechanical, better with rest, worst with activity, sudden motion can cause reflex spasm of paraspinal muscles
- Patient appears to be well
- Deep, dull ache, stiffness worse at end of the day
- unilateral leg pain that does not extend past the knee
- ESR, CRP, Calcium phosphate + Alkaline phosphate WNL

### Red Flags

- <20yo onset or >55yo

- Violent Trauma
- Constant, progressive, non-mechanical pain
- Previous hx of cancer, use of corticosteroids, drug abuse or HIV
- Systemically unwell, weight loss
- Persistant, severe restriction on lumbar flexion
- Widespread neuro signs/symptoms
- Structural deformity
- ESR >25
- Plain X-ray showing VB collapse/bone destruction

Cauda Equina: Difficulty with mictrurition , loss of anal sphincter tone/faecal incontinence

- Saddle anaesthesia @ anus, perineum/genitals
- Widespread (>1 NR)
- Progressive motor weakness in the legs

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- Gait disturbances

**Inflammatory:** <40 yo, Marked morning stiffness, persisting limitation of spinal movements in all directions, Iritis, Skin rashes, Colitis and urethral discharge, Family Hx

Referral from abdominal organs: GI, Urinary, Gynaecologic symptoms



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## Red Flags (cont)

- Getting out of bed to pace around at night

- Pain + Fever consider: Epidural abscess, Septic diskitis, osteomyelitis, bacteremia/infection endocarditis
- Pain + Weight loss/anorexia = malignancy, mets
- Pain + bowel/bladder dysfunction spinal cord disease (corticosteriods = compression f#, anticoagulants = retroperitoneal haemorrhage)

#### **Yellow Flags**

- Unsatisfactory restoration of activities
- Failure to return to work
- Unsatisfactory response to treatment
- Depression
- Passive coping strategies
- Higher disability levels

Use the Bournemouth Questionnaire (BQ) for psychosocial elements of LBP

## Serious Disorders

- Osteomyelitis
- Malignancy
- TB
- Cauda Equina

#### Pitfalls

- Spondyloarthropathies Psoriatic Arthritis, AS, Reiters, IBD UC/Crohns
- Vascular causes
- Manipulable lesions + OA can develop together

### Referals

Urgent: Cauda Equina, Spinal F#, Dissecting AAA

Other: Neoplasm/infection, Back pain without a clear diagnosis, Paget's , other causes of non-mechanical LBP

## Hx

Facet : Sudden onset, localised spasm, protective lateral deviation, relieved by sitting and bending forward, hyperlordosis present, aggravated by movement + transferring from sitting to standing, pain on extension

Systemic: Not associated with body position, Pain worse at rest, Night pain

Spondy: Pain aggravated by standing/walking, relieved by sitting

Disc: Aggravated by sitting, improved with standing

pain related to posture, movement and posture - especially forward flexion

relieved by lying down



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Investigations		
- X-rays		
- MRI		
- CT		
- Bone Scan		
- DEXA Scan		
- Urinalysis		
- ESR/CRP/FBC		
- Anti-CCP		
- SAP		
- PSA (males >50 yo)		

- Elderly
- Constitutional symptoms
- Failed Conservative therapy

## in children

Consider: mechanical disorders of intervertebral joints - psychological (look for problems at home, school and/or sport), Spondylolisthesis

- Rule out: Osteoid Osteoma & Malignant osteosarcoma

## In Elderly

Consider: Malignancy

- Degenerative spondy
- VB pathological F#
- Occlusive Vascular Disease
- Mechanical LBP localising discomfort to LS area worse with stretching, twisting walking or bending

Aching in Buttock/thigh, relieved by rest can present at night when turning around/changing positions during sleep

## Sciatica

- Sharp/tingling/shooting/electrical pain
- aggravated by coughing, straining, sneezing
- SMR in the affected dermatone

## Spondylolysis/AS

#### See Sheet



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### Abnormal Illness Behaviour (AIB)

- Vague and poorly localised pain
- A yellow flag
- Linked with anxiety, depression and hx of substance abuse
- Waddell:
- 1. Pain at the tip of the tailbone with direct injury {{nl}) 2. Whole leg pain in a stocking distribution
- 3. Whole leg numbness in a stocking distribution that occurs at times
- 4. Whole leg giving way when other times it works fine
- 5. Complete absence of any periods with very little pain in the past year reports pain is getting worse on each consultation
- 6. Intolerance of, or reactions to many different treatments
- 7. Emergency admission to hospital with simple backache not due to fracture

- Behavioural signs:

- 1.Widespread tenderness, crossing anatomical borders
- 2. Waddells both tests reproduce pain
- 3. SLR normal when patient is distracted
- 4. More widespread weakness weakness is jerky

- When you cannot use these classifications : Patients with possible serious pathology/widespread neurological pathology, >60 yo, Ethnic minorities

#### Management

- Usually resolves in 6-12 weeks

ACute LBP: Advice to stay active + NSAIDs, SMT, Behaviour therapy, multidisciplinary treatment (subacute)

Chronic LBP: Exercise therapy (strengthen core muscles), intensive multidisplinary treatment programmes, muscle relaxants, analgesics, acupuncture, antidepressants, back schools, CBT, NSAIDs, SMT

- Heat, cold packs and massage = acute phase (2-4 weeks)

Only refer for surgery when:

- Progressive neurologic deficit is present
- -Intractable pain, not getting better with conservative care

- Structural lesions present



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