

GPCME Low back pain Workshop 2012

LOW BACK & LEG PAIN

History of Pain

Site	Distribution
Quality	Duration
Periodicity	Intensity
Aggravating factors	Relieving factors
Effects on ADLs	Associated symptoms
Onset	Previous similar symptoms
Previous treatment	Current treatment

Red Flag conditions

Fracture	Major trauma
	Minor trauma associated with osteoporosis
	age >50
	corticosteroid use

Cancer			
	Weight loss	LR	2.5
	Age > 50yo		2.7
	PAST HISTORY		15.5
	Failure to improve		3.1
	Prolonged pain		2.6
	ESR >50		15.3
	Haematocrit <30%		15

Infection	Fever	LR	13-41
	History of:	skin infection	
		iv catheters	
		UTI	

Ankylosing spondylitis			
	Chest expansion <2.5cm	LR	9.0
	4 out of 5 of - morning stiffness	LR	6.3
	improved with exercise		
	onset <40 yo		
	slow onset		
	duration >3 months		

Management of Acute LBP

Investigations - none unless Red Flags

Address patient concerns			
“I hurt” Explain	Analgesics	Injection	Manual therapy
“I can’t move” Explain	Stretch	Activate	
“I can’t work” Enquire	Explain	Encourage	Resume
“I’m scared” Enquire	Explain	Rationalise	Coping strategies

Review

Cauda equina syndrome

- Bilateral or unilateral sciatica
- Bladder or bowel dysfunction
- Anaesthesia or paraesthesia in perineal region or buttocks
- Significant lower limb weakness
- Gait disturbance
- Sexual dysfunction
- Mx admit hospital; surgery within 72 hours

Neurological Examination

- Gait - walking on heels (L5)
walking on toes (S1)
- SLR - positive if <30-40 degrees; leg pain
- Reflexes - knee L3-4, ankle S1-2
- Power - knee ext L3-4, ankle-toe ext L4-5, eversion L5-S1, plantarflex S1-2
- Sensation - dermatomes
- Most common L5 or S1 distribution

Radicular Pain Management

- Mild pain - analgesics, allow spontaneous resolution
- Persistent or severe pain
- severe distress
- disability
 - Early imaging - XR, MRI
 - TFI (TransForaminal Injection of steroid)
 - Surgery

Validated sources of chronic low back pain

lumbar intervertebral discs - prevalence 40%

zygapophysial joints (Z joints) = facet joints - 10 -15% younger injured workers; 40% older non-injured population

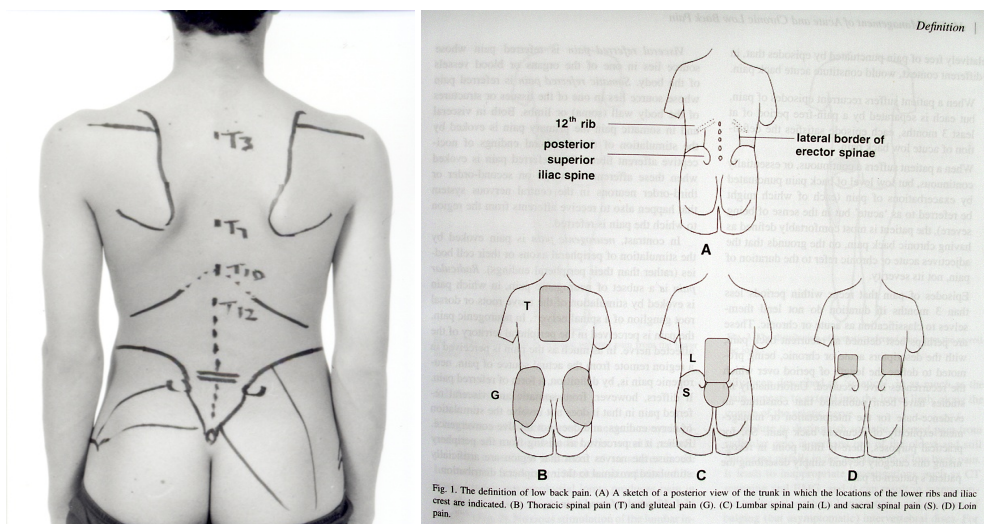
Sacroiliac joints - 15 -20%

Procedures for investigation of chronic LBP (ISIS protocol)

provocation discography

zygapophysial joint blocks (Medial Branch Blocks)

sacroiliac joint blocks



FEATURE	RADICULAR PAIN	SOMATIC REFERRED PAIN
Distribution	entire length of lower limb, but below knee > above knee.	Anywhere in lower limb, but Proximal > distal.
Pattern	narrow band, travelling quasi segmental but not related to dermatomes; not distinguishable by segment	wide area, Relatively fixed in location quasi segmental but not dermatomal; not distinguishable by segment. Boundaries difficult to define, but Centroid identifiable.
Quality	shooting, lancinating, perhaps like an electric shock	dull, aching, Perhaps like an expanding pressure
Depth	deep as well as superficial.	deep only, lacks any cutaneous quality

Table LR.2.10. The distinguishing features of lumbar radicular pain and somatic referred pain.