## **Patient Exam: Lumbar Spine Evaluation**

Date:	Time:			
Patient Name: M/F	Age: Medical Record #:			
Note: Findings that may be a red flag are marked with a double asterisk (**). See Low Back Pain CPM.				
STANDING AND WALKING EXAM  Posture:				
□ First web space (□ left □ right) (L5) □ Medial ankle (□ Reflexes: (Rate from 0 to 4: 0=none, 4=clonus. Sustained Quadriceps (L4) Left:/4 Right:/4 Achilles (S1) Left:/4 Right:/4 Babinski reflex Left: □ Downgoing □ Upgoing**  Motor: (Rate 0 to 5: 0=none, 5=normal w/resistance. Rating Hip flexion (L2/L3) Left:/5 Right Knee extension (L3) Left:/5 Right Ankle dorsiflexion (L4) Left:/5 Right Righ	Right: Downgoing Dupgoing**  y <3 may be red flag. **)  ght:/5  ght:/5			
Other:  Seated straight leg raise (SLR)	pain Right: □ WNL □ Reduced □ With pain			
SUPINE EXAM  Supine straight leg raise (SLR): Left: □ Negative □ Positive** Right: □ Negative □ Positive**  (Positive= sharp, shooting, lancinating pain at angle <60° — positive dural tension sign)				
PRONE EXAM (Preferred in prone position; if not possible, conduct with patient standing or in lateral position)  Palpation: □ Low back tenderness □ Upper buttock tenderness □ Greater trochanter tenderness (□ left □ right)  Femoral nerve stretch: □ Negative □ Positive** (Positive=reproduction or exacerbation of anterior thigh symptoms)				
PhyEx 50183				
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## **Evaluating Medical Red Flags**

Table for reference only; not part of the patient's medical record. See Intermountain's Low Back Pain CPM for details.

Suspected condition and signs	Labs	Imaging	Referral
Suspected cauda equina syndrome:  New bowel or bladder dysfunction Perineal numbness / saddle anesthesia Persistent/increasing lower motor neuron weakness		For suspected cauda equina: spinal MRI     For myelopathy/upper motor neuron changes: MRI* or CT, spine or brain	URGENT referral to ortho/neuro spine surgeon
Myelopathy/upper motor neuron changes:  New-onset Babinski or sustained clonus New onset gait or balance abnormalities Upper motor neuron weakness			
Recent trauma with suspected spinal fracture		X-ray: anteroposterior (AP) and cone down, consider CT or MRI* if x-ray is nondiagnostic	URGENT referral to ortho/neuro spine surgeon if imaging reveals fracture
Suspected compression fracture: Osteoporosis or osteoporosis risk		<ul> <li>X-ray: AP and cone down; repeat in 2 weeks if suspicion high</li> <li>Consider MRI* if suspicion high</li> </ul>	Referral to nonsurgical back specialist if imaging reveals compression fracture
Suspected cancer: History of cancer, multiple cancer risk factors, or strong clinical suspicion	CBC, ESR, CRP	X-ray (evaluate in context with ESR)     If negative x-ray but strong suspicion remains: consider T1 weighted, non-contrasted spinal MRI* (full study w/contrast for abnormal areas)	URGENT referral to oncologist
Suspected infection: Immunocompromised patient, UTI, IV drug use, recent spinal procedure, or fever/chills in addition to pain with rest or at night	CBC, ESR, CRP	Consider MRI* with gadolinium or bone scan	URGENT referral may be needed, depending on type of infection
Suspected autoimmune disease/polyarthritis: Redness/swelling in joints, joint deformation, extended morning stiffness, recent history (within 6 months) of chlamydia, etc.	CBC, ESR, CRP, RF, anti-CCP, HLA B27	X-ray	Referral to rheumatologist
Suspected spinal deformity or spondylolysis: age <20, pain with standing, walking, and extension (occurs more often in athletes and dancers)		<ul> <li>Standing x-rays, 3 view, extension, plus cone down</li> <li>Consider MRI* to identify spondylolysis represented by pedicle edema</li> </ul>	Referral to sports medicine specialist, nonsurgical back specialist, or ortho/neuro spine surgeon if x-ray or MRI is positive

<sup>\*</sup>MRI: To reduce the need for a repeat MRI, ensure that the imaging center uses a 1.5 tesla magnet. Large bore and standard MRIs usually provide better image quality than open MRIs. Order sedation if necessary to get a quality MRI.

## Signs of radiculopathy

The following signs might be revealed in the history or exam:

- Motor deficit
- Reflex deficit
- · Sensory deficit
- Positive dural tension signs: positive supine straight leg raise, positive prone femoral stretch