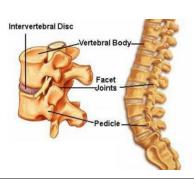
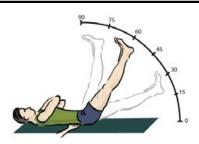
Spine

Anatomy



Exam Pearls + Special Tests

Straight leg raise: patient lying supine \rightarrow flex at hip w/ knee straight (best if cervical spine flexed and ankle dorsiflexed) \rightarrow assess for sciatic pain (sign of herniated disc)

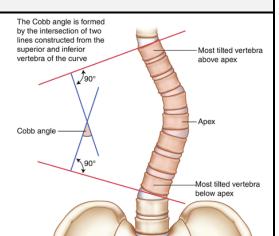


Common Diagnoses

Scoliosis

Description/ Mechanism

- Lateral curvature of the spine ≥ 10 degrees
- Causes: idiopathic (80%) vs congenital vs. neuromuscular



Diagnosis

- Adam's forward bend test + inclinometer
- Shoulder/torso asymmetry, rib prominence, paraspinal muscle prominence
- XR: Cobb Angle ≥ 10 degrees

Management

- \bullet <= 25 degrees \rightarrow observation
- 25-45 degrees + skeletal immaturity → bracing
- \bullet >45 \rightarrow consider surgical intervention

Spine continued on next page \rightarrow

Sports Medicine / Orthopedics

	Spine
Common Diagnoses Spondylolysis and Spondylolisthesis	
Signs/ Symptoms	Low back pain that worsens w/ activity, improves w/ rest Spondylolisthesis: may have radicular or cauda equina symptoms
Diagnosis	MRI is now study of choice XRays: poorly sensitive and do not assess acuity Might be required prior to MRI Standing AP, lateral, oblique views: visualize defect Flexion and extension views: assess stability
Management	 Spondylolysis and low grade spondylolisthesis → conservative (rest from sports for ≥ 3 months, NSAIDs, PT, back bracing) Higher grade spondylolisthesis (or failure of conservative management) → consider surgical intervention
Spondyloarthropathies	
Signs/ Symptoms	Insidious onset Often misdiagnosed w/ recurrent strains/sprains Pain worse at night, improves w/ activity
Mild Traumatic Brain Injury (Concussion) & Graduated Return-to-Sport Program	
Refer to ED Mild TBI section on page 257	