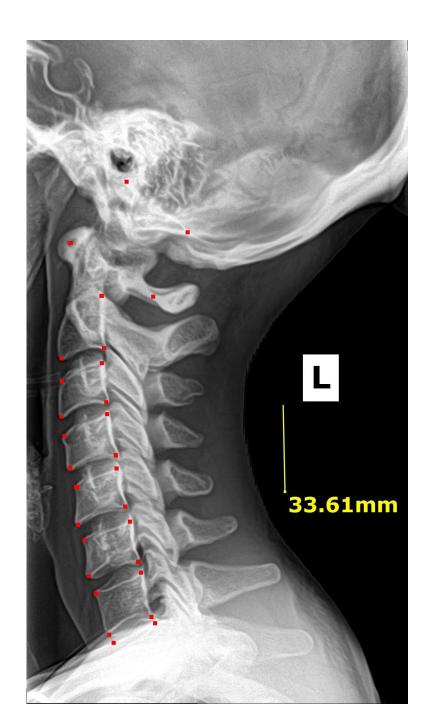


Digital Analysis X-ray Requirements

In General

- Standing x-rays
- Tight collimation
- Mitchel marker
- Attach scale preferably in millimeters; with DR use tools; with pictures of film put millimeter ruler on film, then take picture.
- See following slides for specific view information. Do not mark the films. I will do that.
- Impairment rating requires F,E of cervical or lumbar
- Additional clinical analysis requires frontal and sagittal planes including C,T,L plus cervical F,E
- Lateral bending analysis of cervical and lumbar regions are available upon request

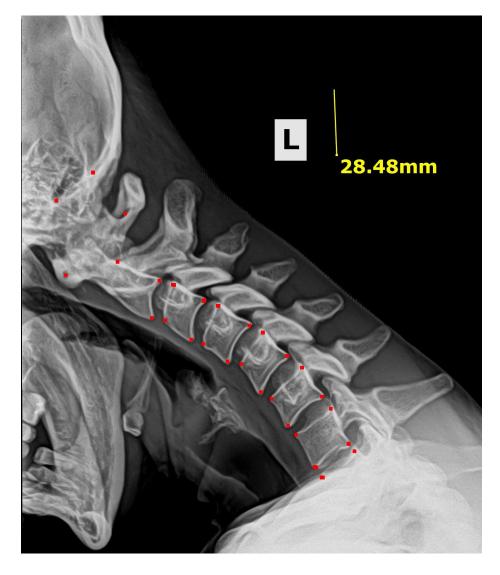




Lateral Cervical Digitizing Points

- Neutral View
- Range: base of occiput to top of T1
- Four corners of vertebra
- Position:
 - Bring chin up so plane line of teeth in horizontal position

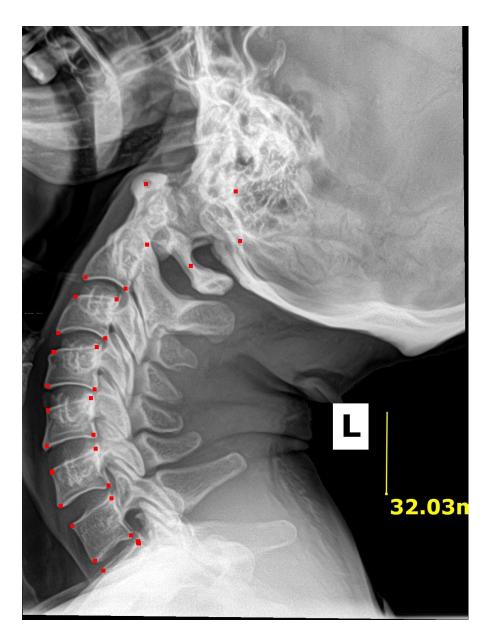




Lateral Cervical Digitizing Points

- Flexion View
- Range: base of occiput to top of T1
- Four corners of vertebra
- Position:
 - Take neck through flexion and extension three times
 - Tuck chin down first and then flex neck until shoulders begin to move

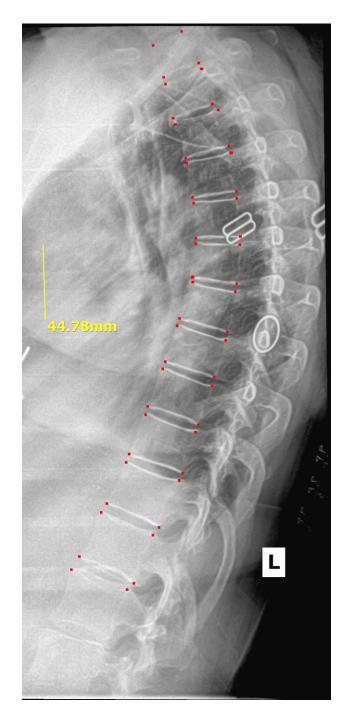




Lateral Cervical Digitizing Points

- Extension View
- Range: base of occiput to top of T1
- Four corners of vertebra
- Position:
 - Take neck through flexion and extension three times
 - Bring chin up first and then extend head backwards until shoulder begin to move





Lateral Thoracic Digitizing Points

- Neutral View
- Range: T1 L1
- Four corners of vertebra
- Position:
 - Patient standing with elbows brought together as close as possible
 - Make sure patient does not lean backwards

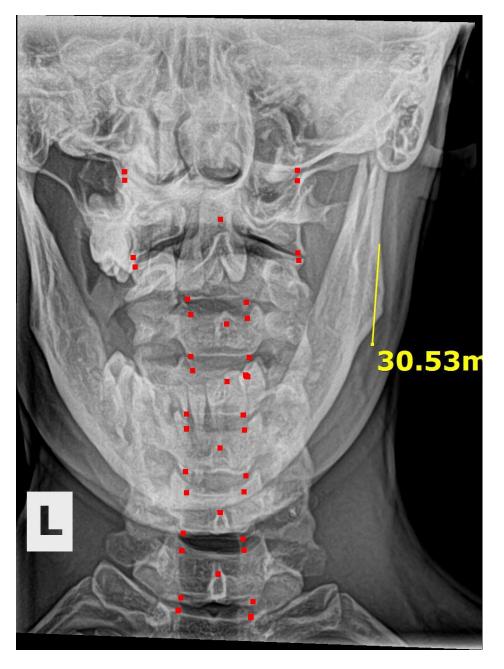




Lateral Lumbar Digitizing Points

- Neutral View
- Range: L1 S1
- Four corners of vertebra
- Position:
 - Patient standing with arms brought forward and elbows as close as possible
 - Make sure patient does not lean backwards
 - Flexion view: have patient bend forward attempting to touch floor

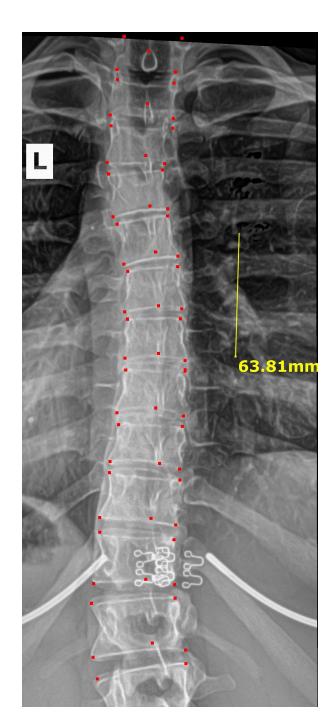




A/P Cervical Digitizing Points

- Neutral View
- Range: Occiput T1
- Four corners of vertebra and top of spinous
- Position: if tilting bucky
 - Tilt approximately 20 degrees down
 - Patient flexes neck forward approximately 20 degrees
 - Central beam up through bridge of nose and EAM
 - Open mouth

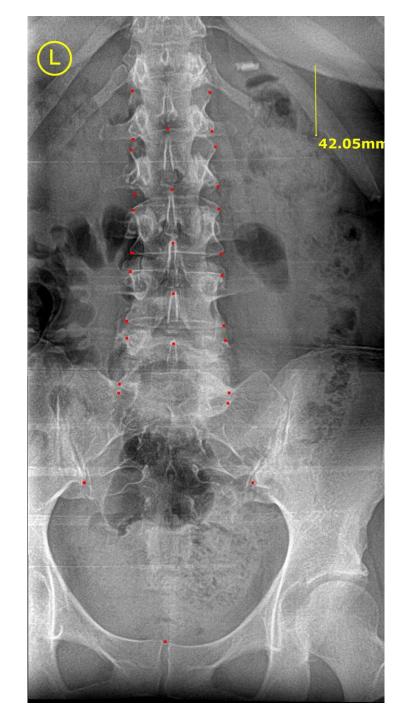




A/P Thoracic Digitizing Points

- Neutral View
- Range: T1-L1
- Four corners of vertebra and top of spinous
- Position:
 - Central beam through T6
 - Collimate





A/P Lumbar Digitizing Points

- Neutral View
- Range: L1-S1
 - Optional symphysis pubis
- Four corners of vertebra and top of spinous
- Position:
 - Central beam throughL4
 - Collimate

