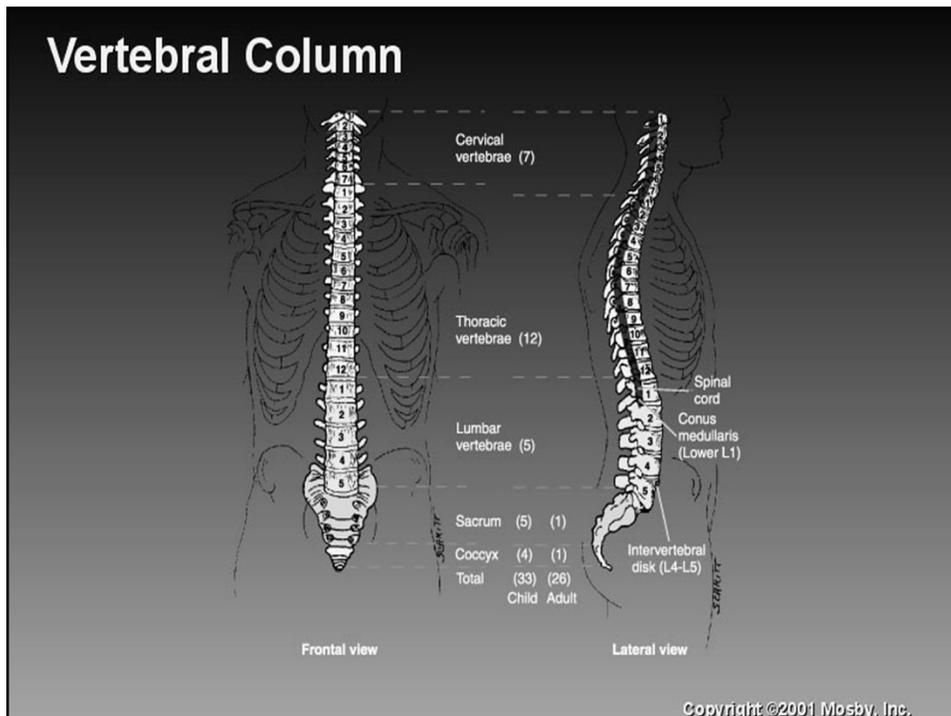


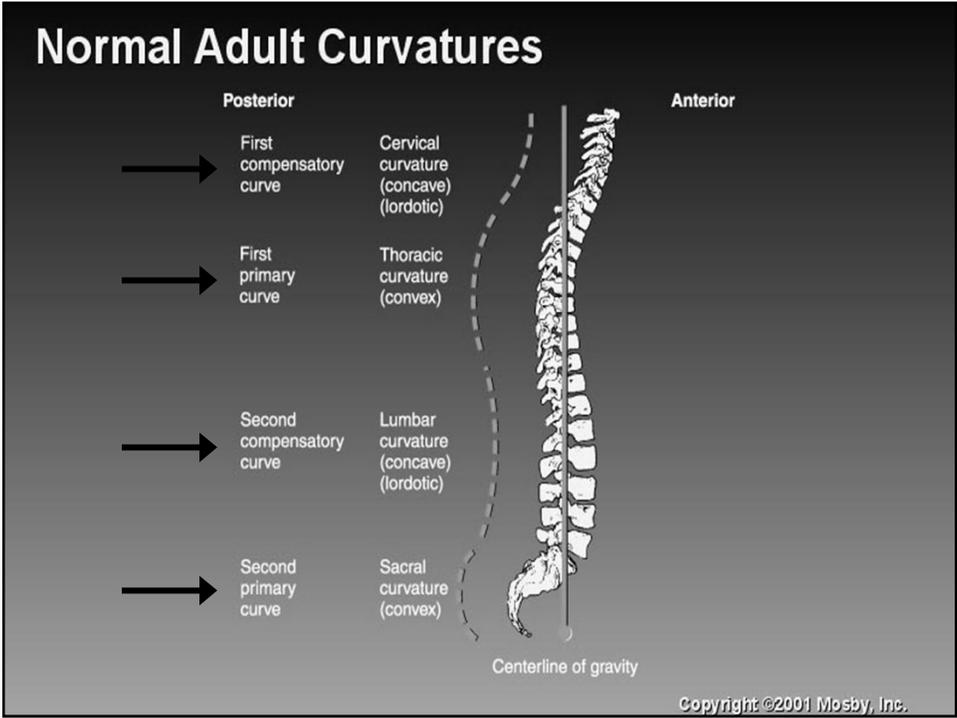
Thoracic and Lumbar Spine Anatomy

Reading Hospital School of Health Sciences
Medical Imaging Program
Clinical Seminar IV
2021

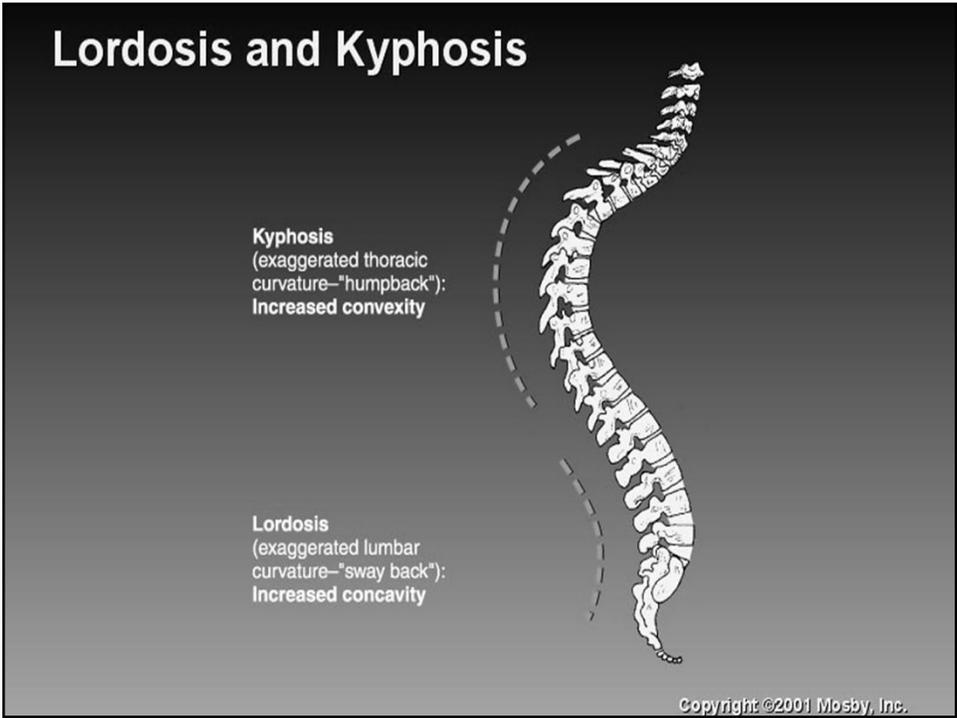
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2

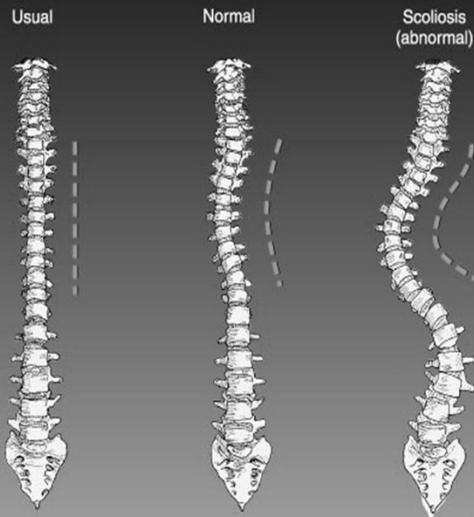


3



4

Scoliosis (Abnormal lateral curvatures)

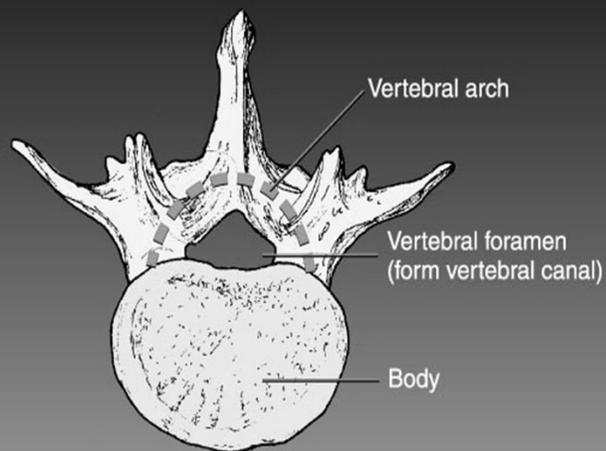


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5

Typical Vertebra

Posterior

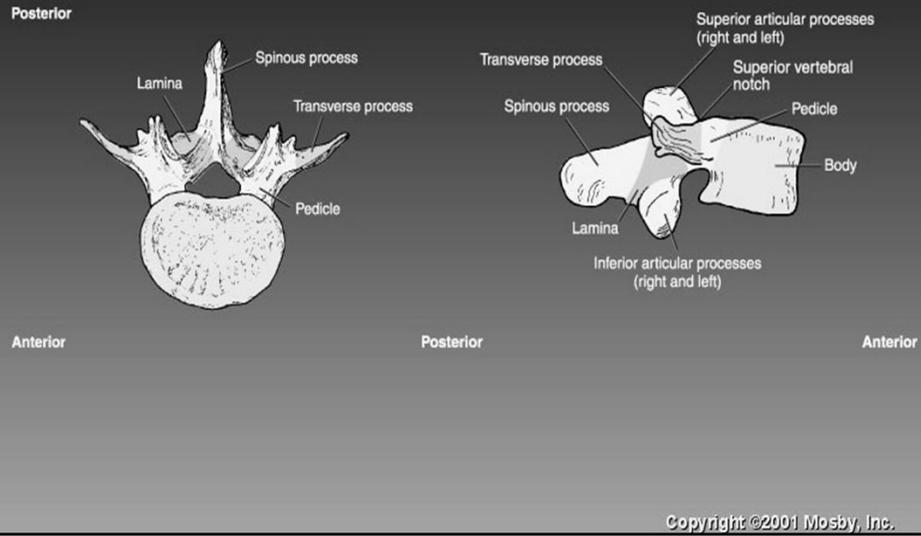


Anterior

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6

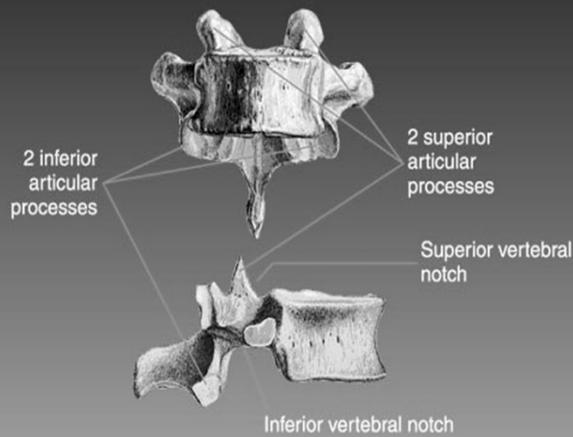
Typical Vertebra Anatomy



7

Typical Vertebra-Articular Processes (Anterior and Lateral Views)

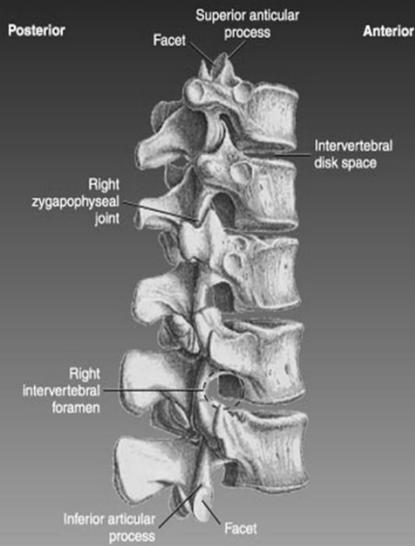
Articular processes form zygapophyseal joints



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8

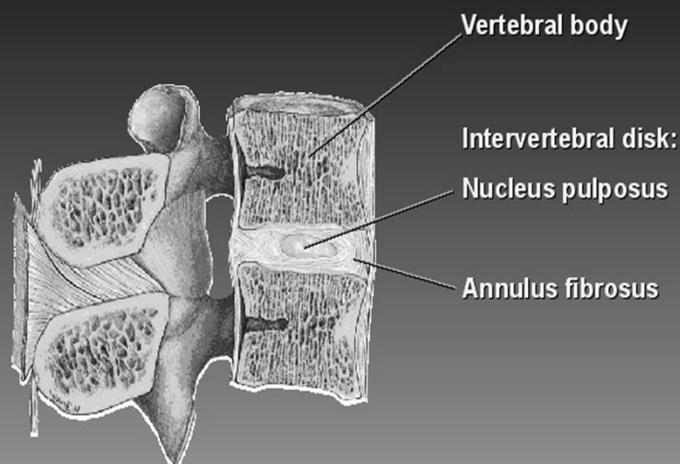
Zygapophyseal Joints and Intervertebral Foramina



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9

Sagittal View of Vertebrae



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10

THORACIC SPINE

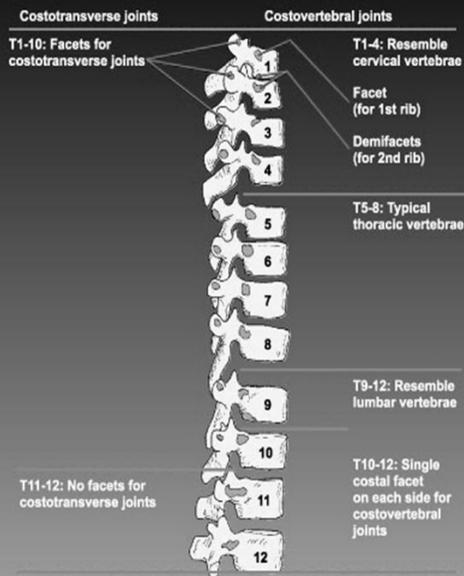


11

Thoracic Characteristics

Distinctive features:

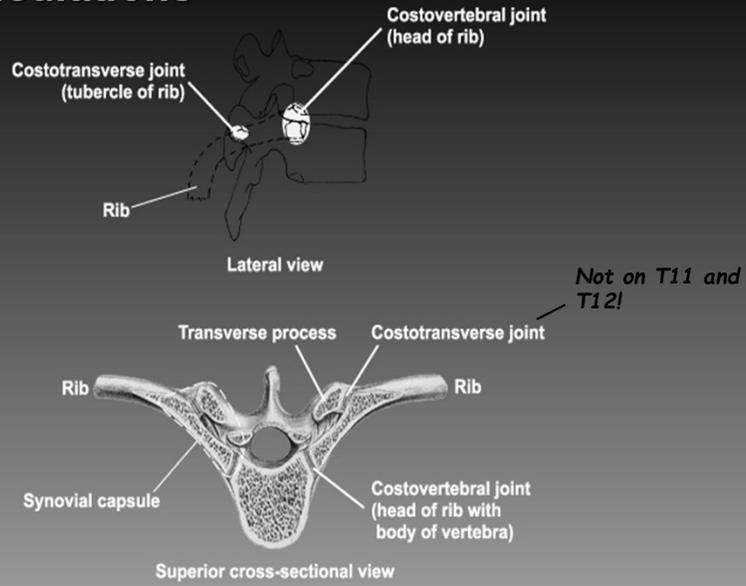
- Rib articulations
- Sharp, caudally pointed spinous processes



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12

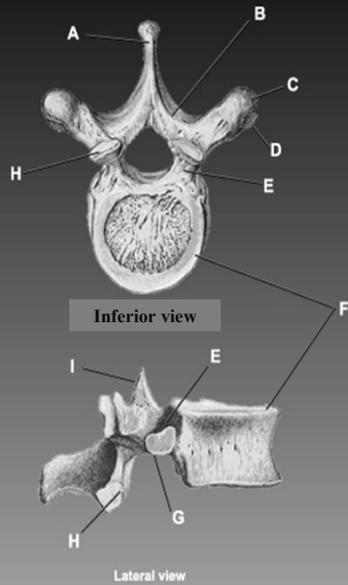
Rib Articulations



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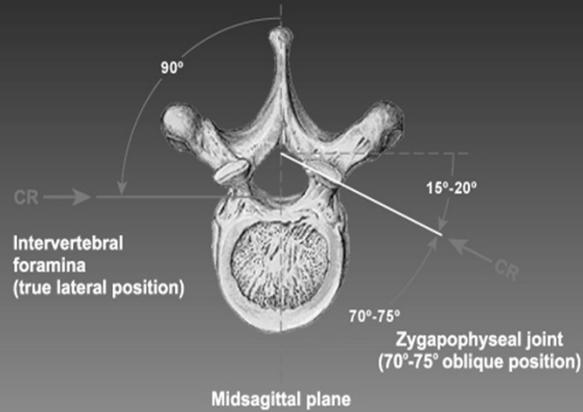
Typical Thoracic Vertebrae



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Intervertebral Foramina and Zygapophyseal Joints



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Intervertebral Foramina



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Zygapophyseal Joints

70°-75° LPO
(20°-25° from lateral)



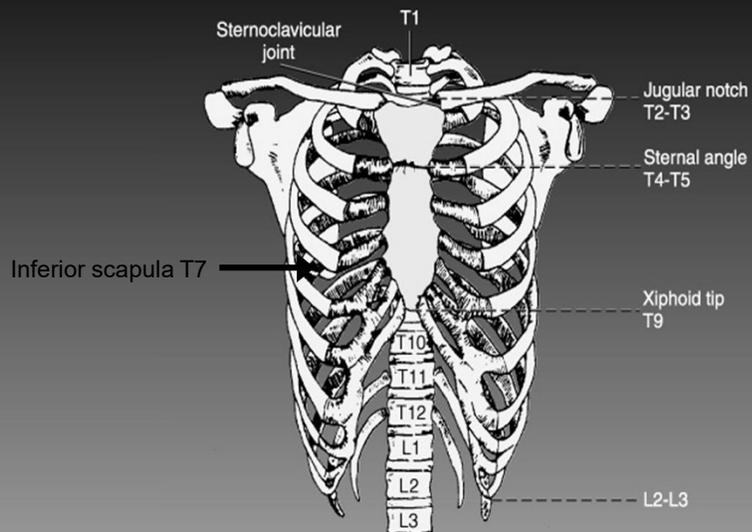
70°-75° LPO
(20°-25° from lateral)



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17

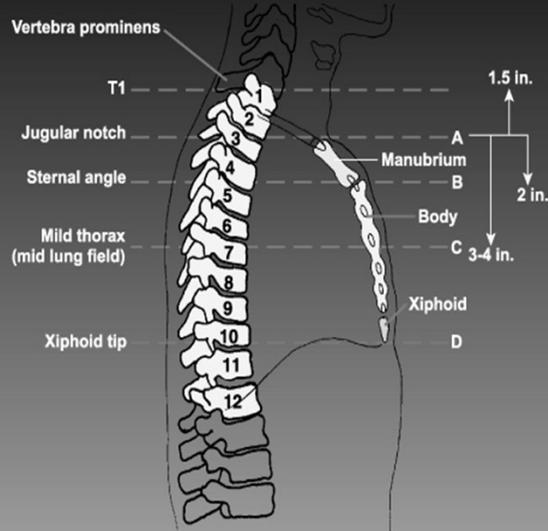
Sternum Landmarks



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18

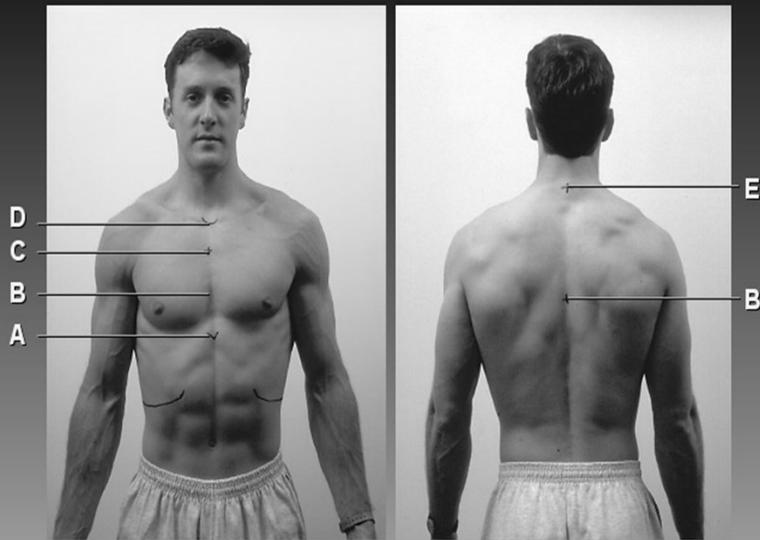
T-Spine Landmarks



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19

Topographical Landmark Quiz



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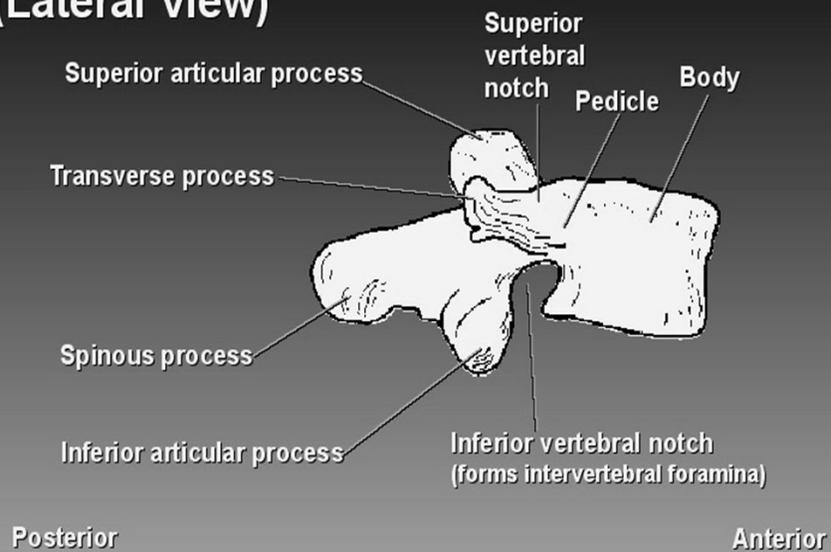
20

LUMBAR SPINE



21

Typical Lumbar Vertebra (Lateral View)

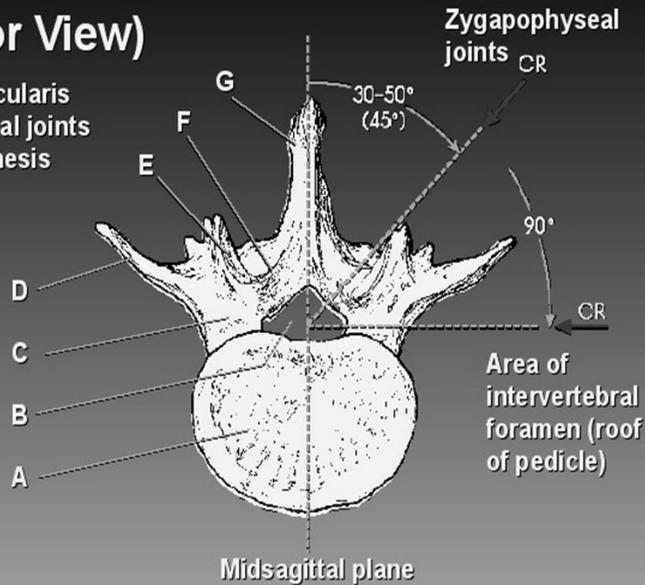


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22

Typical Lumbar Vertebra (Superior View)

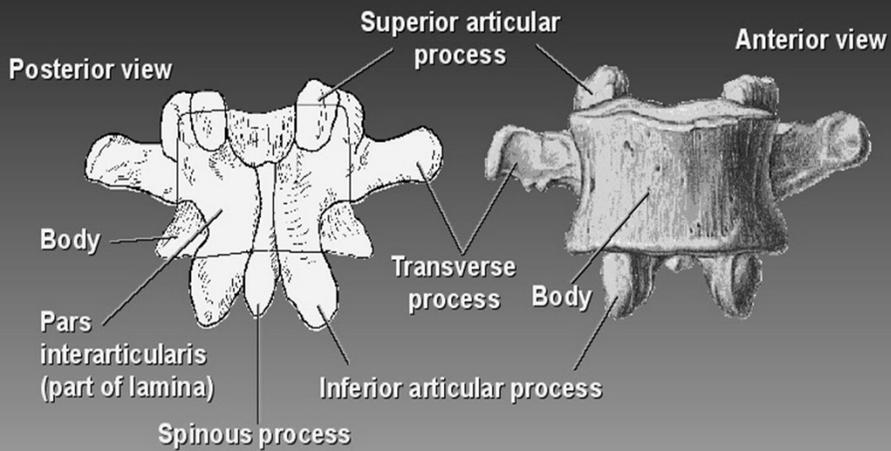
- Pars interarticularis
- Zygapophyseal joints
- Spondylolisthesis



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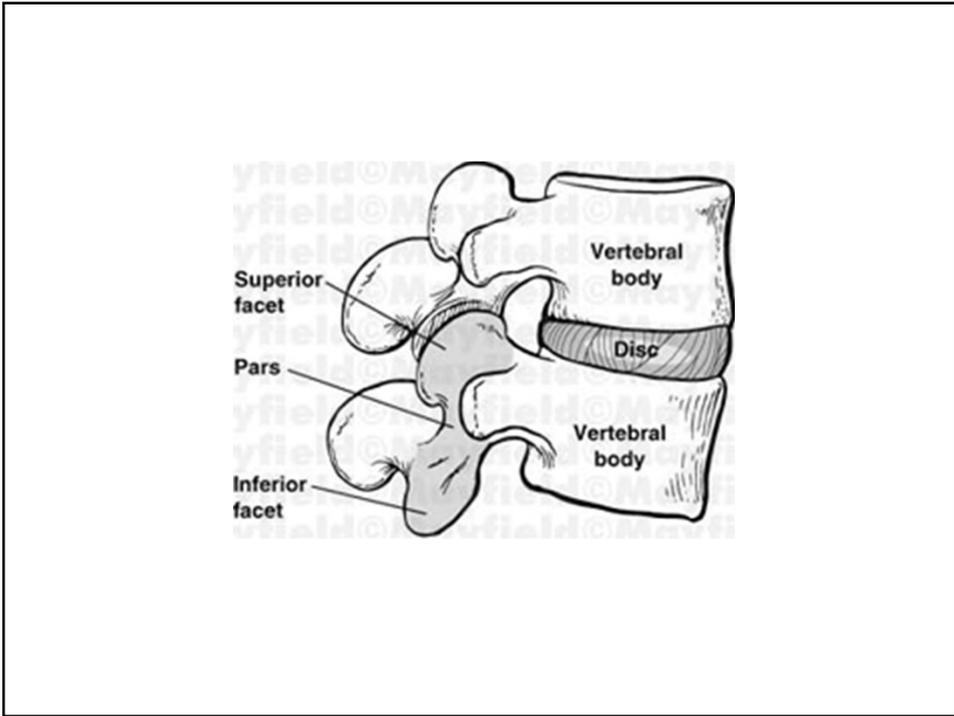
23

Typical Lumbar Vertebrae (Posterior and Anterior Views)

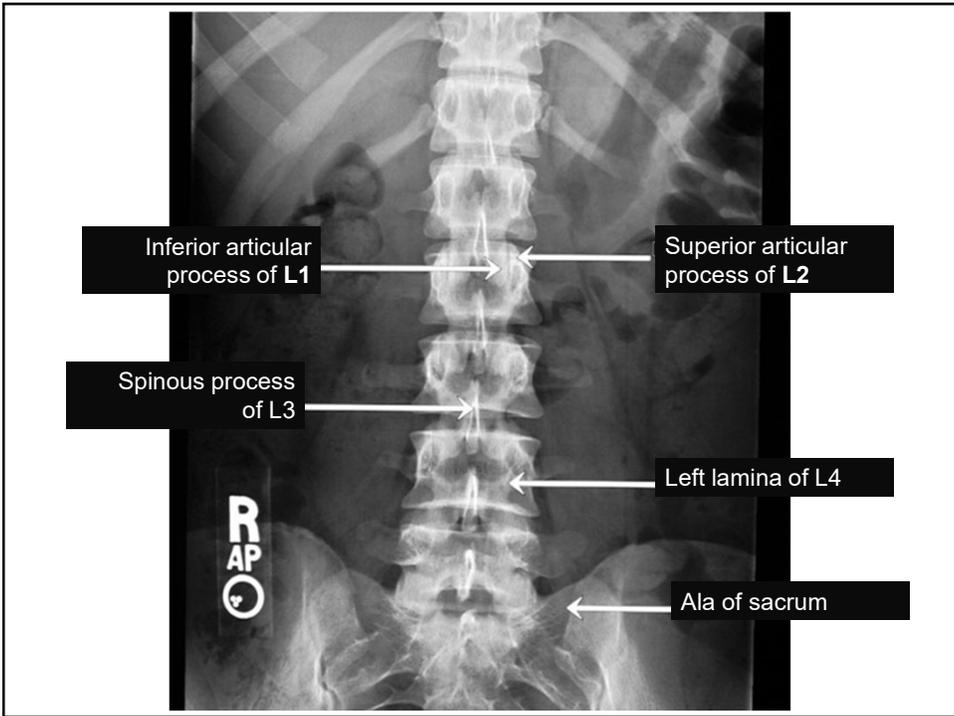


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24



25



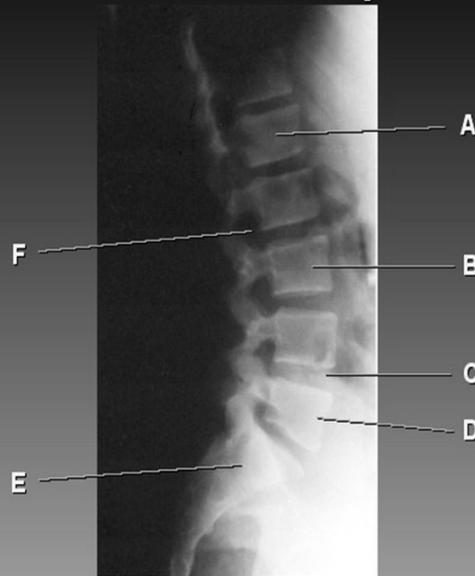
26

Count the lumbar vertebrae.



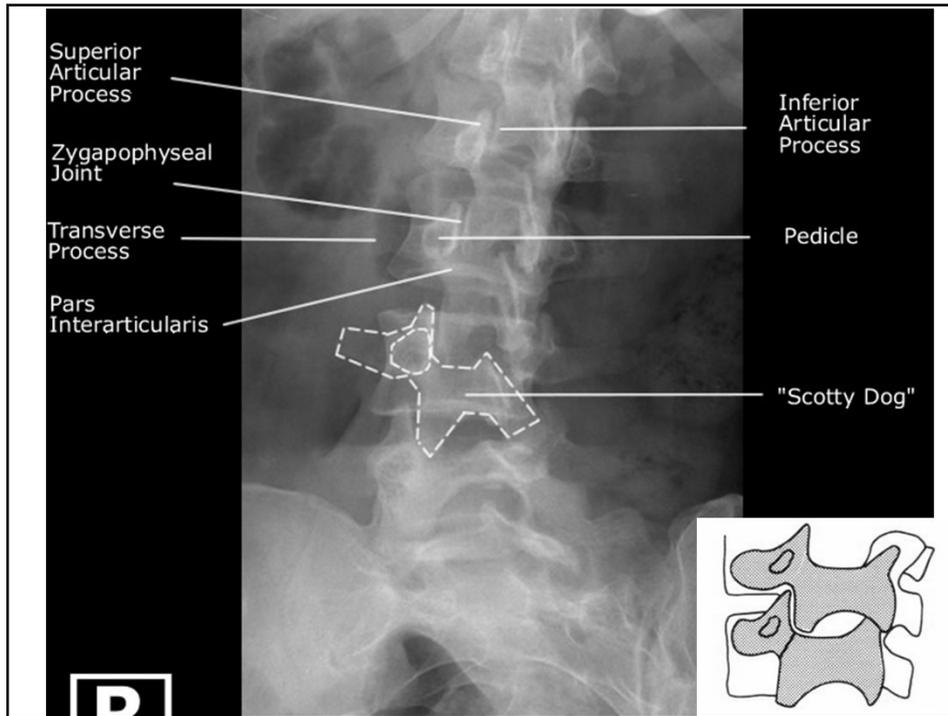
27

Lateral Lumbar Spine

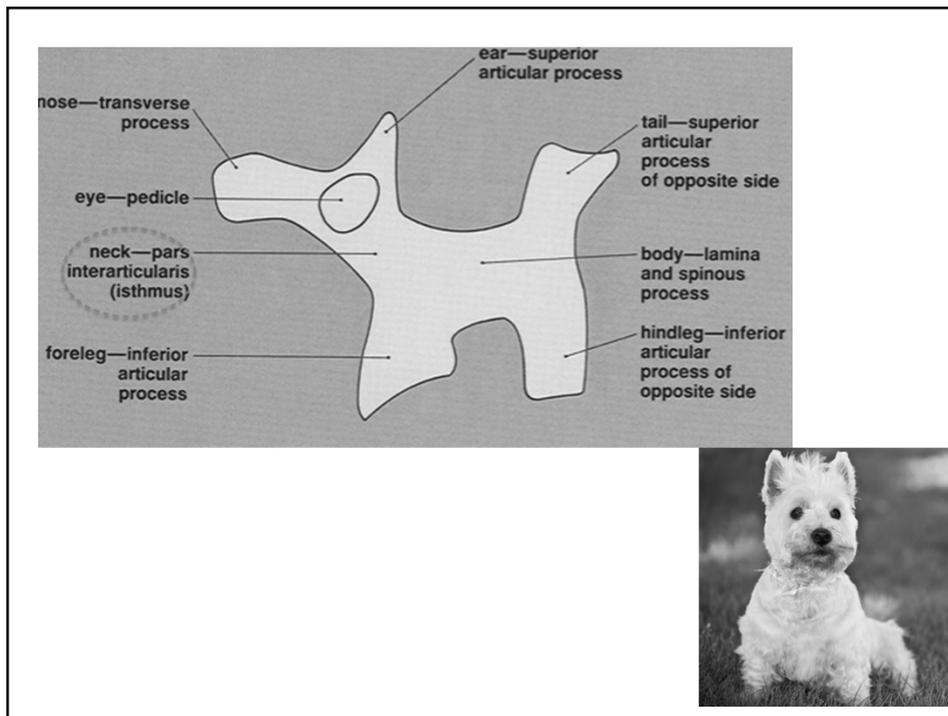


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28

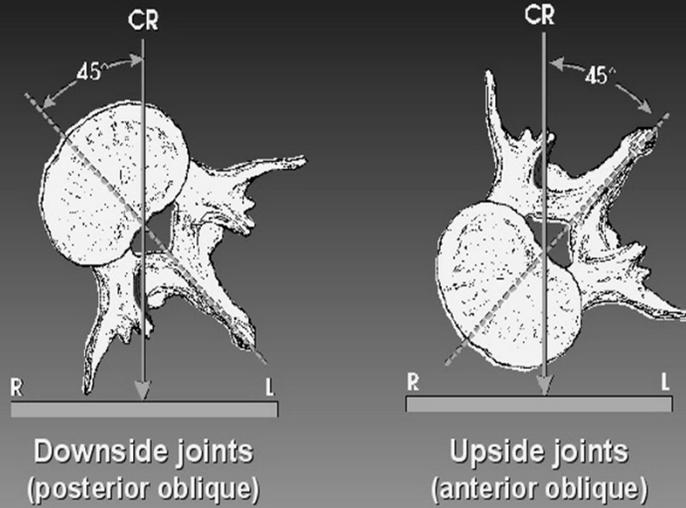


29



30

Zygapophyseal Joints



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31

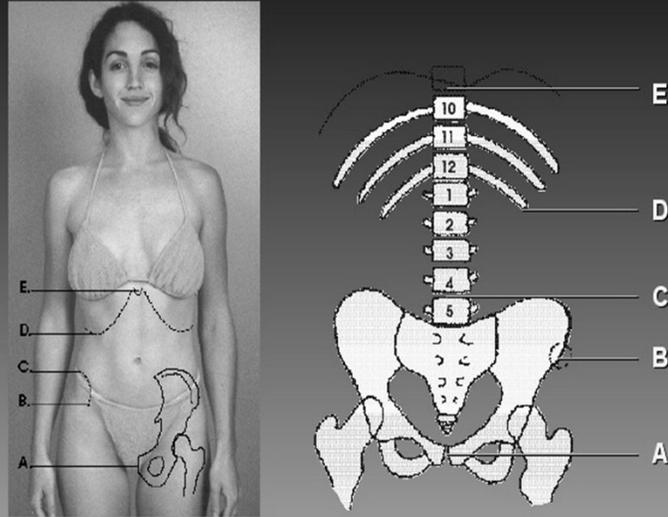
Total Vertebrae Summary

	Intervertebral foramina	Zygapophyseal joints
Cervical	45° oblique (upside, LPO or RPO)	Lateral
Thoracic	Lateral	70° oblique (upside, LPO or RPO)
Lumbar	Lateral	45° oblique (downside, LPO or RPO)

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32

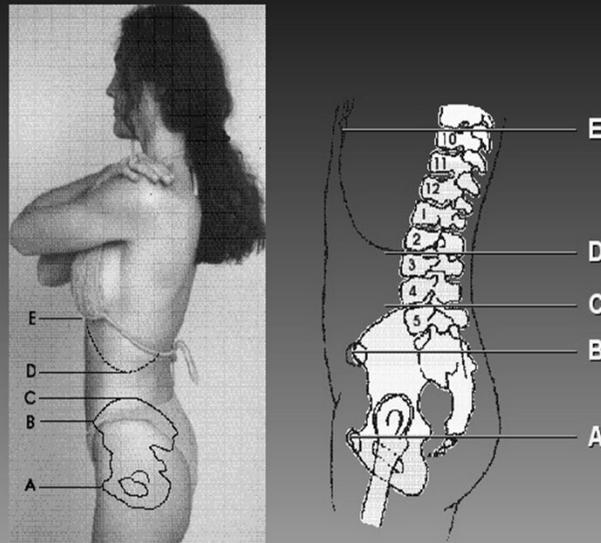
Lower Spine Landmarks (Frontal View)



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33

Lower Spine Landmarks (Lateral View)



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34