# Bio 101 Laboratory 7

Vertebral Column & Thoracic Cage

# Objectives of Lab

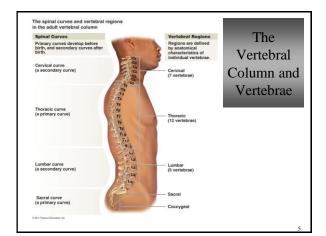
- Become familiar with the bones and structures of the
  - Vertebral column
  - Thoracic cage (ribs, sternum)
- Know the definition of the major landmarks as they apply to the bones we cover today
- Be able to recognize the skeletal structures listed on your handout for today.

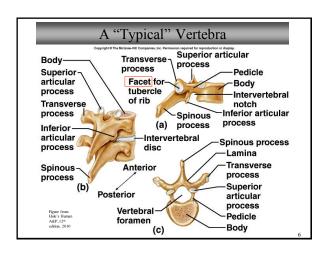
Skeletal Organization

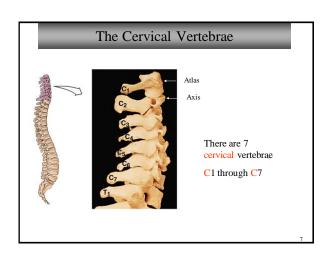
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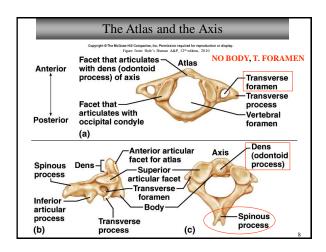
## Landmarks of Bones

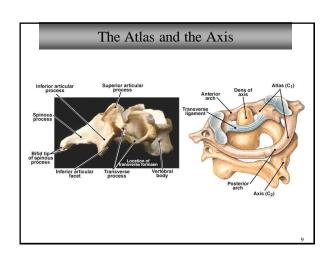
- Angle –Sharp corner (sternal angle)
- Facet Small, nearly flat surface (superior articular facet of the vertebrae)
- Hiatus Opening; gap or cleft (sacral hiatus)
- Notch Deep indentation or narrow gap in the edge of a structure (sternal notch)
- Tubercle Small, knoblike process (tubercles of the sacrum)

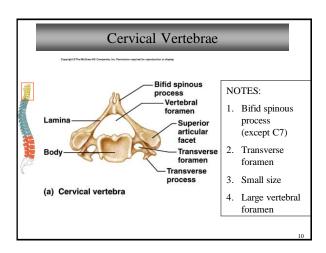


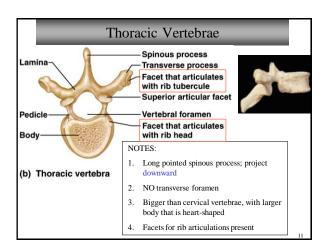


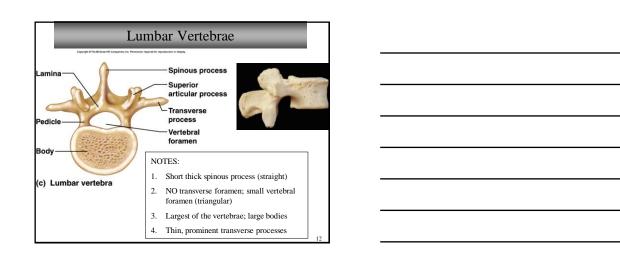


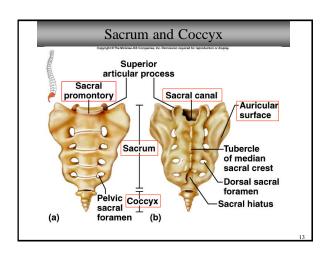


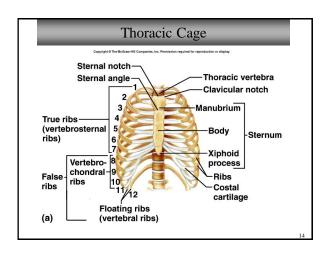


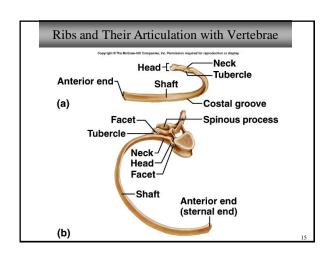












### What you should do in lab today...

- · Marieb's Laboratory Manual
  - Exercise 9, Activities 3 through 5
- Handle the bones. Use your labeled figures as guides to the names of the bones and structures. Be sure to look at how these bones articulate in a skeleton.
- Test your lab partners!! This is a great way to learn.
- · REVIEW THE SKULL from last lab

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#### What you should be able to do after lab today...

- Know the names of all the bones and structures we covered today and in last lab on skull (in Laboratory <u>Guide</u> Exercises 6 and 7)
- Be able to give the definition of the bone landmarks described for today's and last the lab
- \*\*You should be able to recognize and distinguish disarticulated bones based on their unique characteristics!!

DON'T GET BEHIND!! There's a lot to know.

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#### For next lab...

- Bones: Pectoral Girdle and Upper Limb
  - Read Exercise 10 in Marieb's Lab Manual
- Continue to REVIEW the skull and review the bones you will learn in today's lab
- Practice bone identification on the sites given as links from our class Web site and see online quizzes.
- Use Mastering A&P PAL to practice.

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