

PowerPoint® Lecture Slides

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CHAPTER *1*

The Human Body: An Orientation

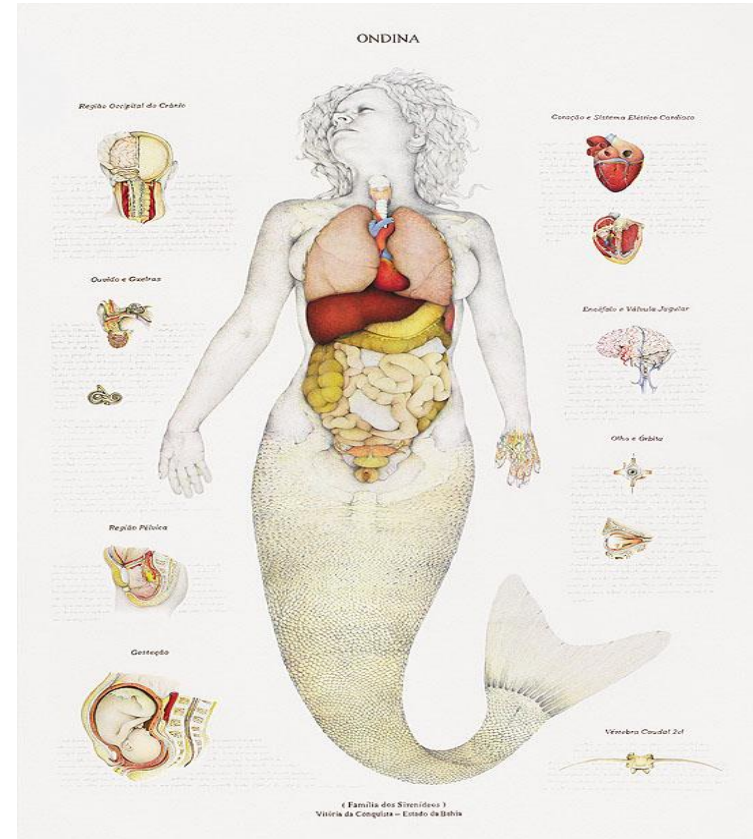
TITLE

- Relationship between anatomy and physiology

ESSENTIAL QUESTION

- How are anatomy and physiology related?

- **Anatomy:** to cut apart
- study of the structure and shape of the body and its parts



- **Gross Anatomy**
 - Large structures
 - Easily observable

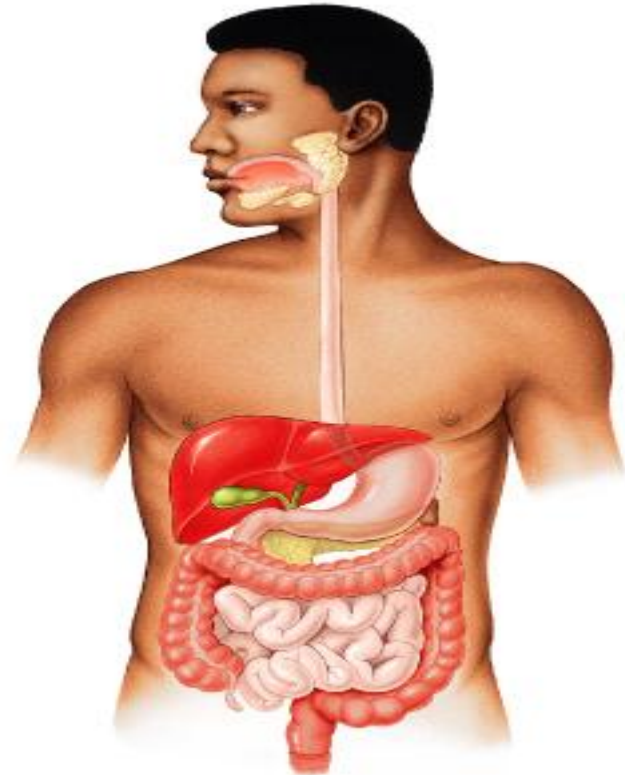


Figure 1.1

- **Microscopic Anatomy**

- Very small structures
- Can only be viewed with a microscope

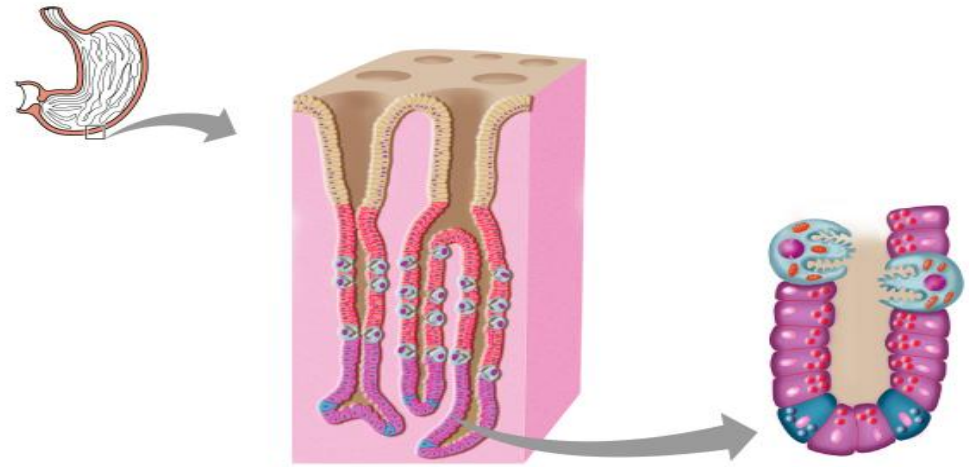
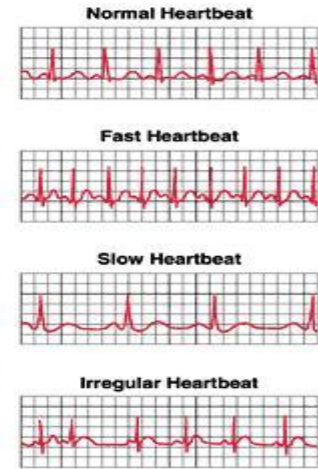
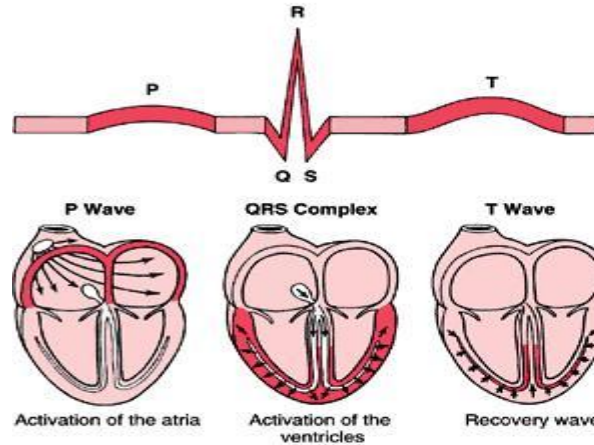
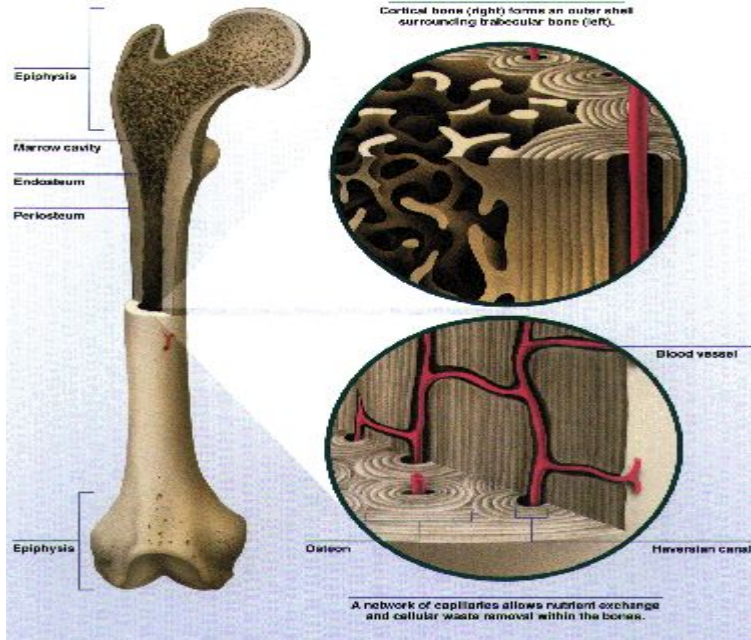


Figure 14.4

- Physiology** – study of how the body and its parts work or function



- Examples of study of Physiology



- Examples of study of Physiology
 - Neurophysiology



- Examples of study of Physiology



- **Examples of study of Physiology**
Cardiovascular Physiology



- Examples of study of Physiology



- **Examples of study of Physiology**
Renal Physiology



Relationship between A&P

- Principle of Complimentary Structure and Function
 - Structures determine what function can take place
 - Function always reflects structure