

Muscular System

Chapter 7

1. Types of Muscle (Page 136)
 - A. Skeletal (Voluntary and striated)
 - B. Cardiac (Involuntary and Striated)
 - C. Smooth (Involuntary and Non-striated)
2. Skeletal Muscle Structure (Pages 137)
 - A. Fascicles
 - B. Tendons and Aponeurosis
3. Cell Structure (Pages 138)
 - A. Sarcolemma
 - B. Sarcoplasm
 - C. Myofibris
 - D. Sarcomere
 - i. Actin
 - ii. Myosin
4. Motor Unit (Pull out motor unit handout0 (Page 138)
5. Neuromuscular Junction (Page 140)
 - A. Synaptic Cleft
 - B. Neruotransmitter

i. Acetylcholine

6. Energy and ATP

7. Muscle Contraction Physiology (Pages 141 - 143)

Pull out handout on Muscle Contraction

8. Muscle Overview (Pages 147)

A. Origin

B. Insertion

9. Muscle Interaction (Page 147)

A. Agonists

B. Antagonists

C. Synergists

10. Muscle Naming Exams (Page 147)

A. Location

i. Examples (*The name communicates what location?*)

- Temporalis
- Occipitalis
- External Intercostals
- Iliacus
- Frontalis
- Pectoralis Minor
- Internal Intercostals
- Orbicularis oris

B. Number of Origins

i. Examples (*The name communicates how many origins?*)

- Biceps Brachii
- Triceps Brachii

C. Shape

i. Examples (*The following muscles will have what shapes?*)

- Deltoid
- Serratus Anterior
- Rhomboideus Major
- Trapezius

D. Origin and Insertion

i. Examples (*Identify the origin and/or insertion*)

- Sternocleidomastoid

E. Action

i. Examples (*What are the actions for each muscle below?*)

- Masseter (Mastication = chewing)
- Levator Scapulae
- Adductor Magnus
- Depressor Labii Inferioris
- Pronator teres

11. Pathology

A. Tendonitis (Page 156: “Clinical Insight”)

B. Tetanus (Page 159)