

Gross Human Structural Biology

Muscular System

OUTLINE

- I. Introduction to Skeletal Muscles
 - Definition of Terms
- II. AXIAL MUSCLES
- III. APPENDICULAR MUSCLES
 - A. UPPER EXTREMITY
 - B. LOWER EXTREMITY

I. INTRODUCTION TO SKELETAL MUSCLE

- A. Function
 - ✓ For locomotion
 - ✓ Generation of heat
 - ✓ Gives shape and contour of the body
- B. Classification of muscles according to embryonic origin:
 - ✓ Branchiomeric – arise from the branchial arches (e.g. face muscles)
 - Supplied by cranial nerves
 - ✓ Myotonic – muscles arise from myotomes
 - Supplied by cranial nerves
- C. Bases of nomenclature

Shape	Trapezius Rhomboides Deltoid Quadratus
Size	Maximus Minimus Major Minor
Location	Frontalis Occipitalis Brachii Femoris Abdominis
Direction of fibers	Rectus Oblique Transversus
Points of attachment	Sternocleidomastoid Hyoglossus
Position	Superior Inferior External Internal
Action	Flexor Extensor Supinator Pronator
Structure	Semitendinosus Semi-membranosus
Number of Bellies	Digastric
Number of Heads	Quadriceps Biceps
Combination Association	External Oblique (position and direction of fibers)
Miscellaneous	Sartorius (tailor) Buccinator

- D. Definition of innervation of muscle
 - ✓ Nerve to a muscle is motor nerve
 - ✓ Usually only one nerve supplies a muscle
 - ✓ Nerve consists of bundles of nerve fibers
 - ✓ Each nerve fiber supplies one or more muscle fibers
- E. Importance of nerve supply
 - ✓ Responsible for functional activity and structural integrity of muscles
 - ✓ Maintenance of muscle tones
 - ✓ Gives a clue as to origin of certain muscles group (e.g. sphenic nerve – supplies abdomen)
- F. Motor unit
 - ✓ Consists of:
 - Nerve Fibers
 - Muscle Fibers (group of muscle fibers it supplies)

II. INTRODUCTION TO SKELETAL MUSCLE

A. MOTOR POINT

- Entrance or point where the nerve enters the muscle at about the midpoint on its deep surface, often near the margin.

B. MUSCLE TONE

- A small amount of tautness or tension in the muscle due to weak, involuntary contraction of its motor units.
- It keeps skeletal muscles firm, but it does not result in a force strong enough to produce movement.

Ex.

1. UPRIGHT POSITION OF THE HEAD

- when the muscles in the back of the neck are in normal tonic contraction, they keep the head upright and prevent it from slumping forward on the chest.

2. GASTROINTESTINAL TRACT

- where the walls of the digestive organs maintain a steady pressure on their contents.

3. WALLS OF THE BLOOD VESSELS

- plays a crucial role in maintaining blood pressure.

C. ACTION OF MUSCLE

➤ 1. PRIME MOVER OR AGONIST

- muscle whose contraction is chiefly responsible for producing a particular movement

Ex. Biceps brachii-prime mover producing flexion of forearm

➤ 2. ANTAGONISTS

- oppose action of the agonist
- slowly relaxing

Ex. Triceps brachii which extends forearm is the antagonist of the Biceps brachii which flexes arm.

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Arthur R. Couvillon



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