

Exercise Therapy

www.physiotherapyphd.com

Classification of Muscles

1. Based on structure

Skeletal muscle: Striated, voluntary, attached to bones (e.g., biceps brachii)

Smooth muscle: Non-striated, involuntary, in organs (e.g., intestine, blood vessels)

Cardiac muscle: Striated, involuntary, found in heart

2. Based on function

Voluntary muscles: Under conscious control (e.g., skeletal muscles for movement)

Involuntary muscles: Automatic control (e.g., smooth muscles, cardiac muscle)

3. Based on shape

Parallel: Fibers run parallel (e.g., sartorius)

Pennate: Feather-like (e.g., rectus femoris)

Circular: Surround openings (e.g., orbicularis oris)

Convergent: Broad origin, narrow insertion (e.g., pectoralis major)

4. Based on number of heads

Biceps: Two heads (e.g., biceps brachii)

Triceps: Three heads (e.g., triceps brachii)

Quadriceps: Four heads (e.g., quadriceps femoris)

5. Based on action

Flexors: Decrease joint angle (e.g., biceps brachii)

Extensors: Increase joint angle (e.g., triceps brachii)

Abductors: Move away from midline (e.g., deltoid)

Adductors: Move toward midline (e.g., adductor group)

Rotators: Produce rotation (e.g., infraspinatus)

6. Based on fiber arrangement

Fusiform: Spindle-shaped (e.g., biceps brachii)

Flat: Thin and broad (e.g., external oblique)

Circular: Ring-like (e.g., orbicularis oculi)

For more notes click on:

www.physiotherapyphd.com