#### Muscle Contraction

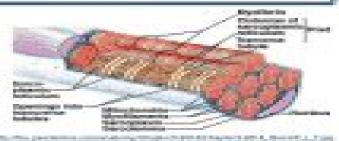
HASPI Medical Anatomy & Physiology 09b. Less Applicate

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## Background

#### Muscle Cell Structure

Muscle cells are specialized to contract. An individual reuscle is actually a bundle of hundreds to thousands of long cylindrical muscle fibers or cells. The cell membrane of muscle cells is called the sarcolemna, the cytoplasm is the sarcoplasm, and the endoplasmic reticulum is modified. into the saropolasmic reticulum (SR). Channels from the samplemma into the sampolissus and SR are called transverse (T) tubules. The T tubules allow for electrical impulses from motor resurons to be chargeled directly to the SR, causing it to release calcium ions and initiate a contraction. Muscle cells are made up of bundles of myofibrils that contain the contracting units.



called sarcomeres, made up of two main proteins - myosin and actin.

The Material Street

#### ..... The Motor Unit

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Motor neurons connect to skeletal muscles to control movement. Each motor neuron actually controls a group of muscle cells called a motor unit. All of the cells in the motor unit will be stimulated by the motor neuron at the same time. Movements that need fine motor skills, like writing with a penal. have only a tey muscle cells for each motor unit, which allows for precision. Larger movements, like picking up a bap, have many musclecells for each motor unit

#### Muscle Contraction

A muscle contraction is a complicated cycle and can differ according to the type of contraction and the type of muscle tissue. The following chart describes and diagrams the steps of a muscle contraction according to the sliding Nament theory

Steps of a Muscle Contraction		
1	The brain or spinal cord sends an impulse to the muscle.	88.50
2	The impulse travels down the motor neuron and reaches a neuromuscular junction where it releases acetylcholine, which triggers the impulse in the muscle.	The same beautiful to
3	The impulse travels through the plasma membrane (sercolemma) and down T subules surrounding the myofibrils.	THE PERSON NAMED IN COLUMN
(4.)	As the impulse passes through the T tubules, it causes the sarcaptasmic reticulum (SR) surrounding the T tubule to release calcium ions (Ca <sup>-1</sup> ) into the sarcoptasm, eventually reaching the sarcomere.	

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Y Pai

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