

Al-Maarif University College Department of Nursing Medical Terminology



Stage -1-Medical Terms of the Musculoskeletal System Lec. 6

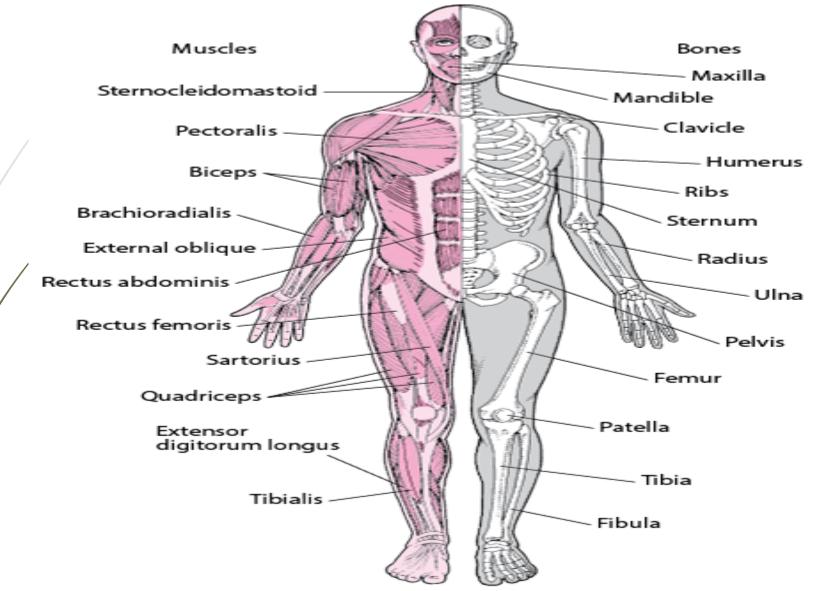
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In this presentation we will learn:

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- Word Root and Combining Vowel for the Musculoskeletal System
- Musculoskeletal system specific suffixes and prefixes
- Musculoskeletal Specialties
- The Structure and Functions of the Skeletal System
- **The Structure and Functions of the Muscular System**
- Procedures of the Musculoskeletal System
- Diseases and Conditions of the Musculoskeletal System



Word Root and Combining Vowel for the Musculoskeletal System



	Root/Prefix/ Suffix	Definition/Meaning
/	Arthro(o), Articular-	joint
	Spondyl(o)	vertebra
/	Chondr(o)	cartilage
	Ortho-	feet
	Physis-	Growing
	Crani(o)	skull
	Oste(o), Osteo-, oste-	bone
	Cost(o)	rib

Musculoskeletal Specialties

ORTHOPEDICS

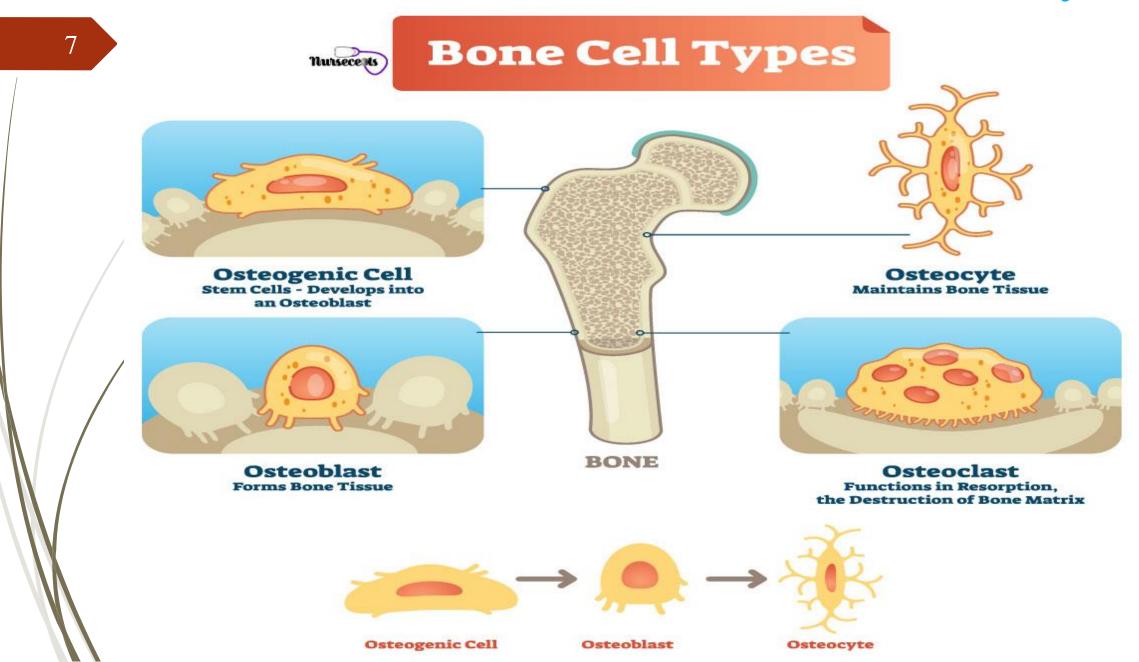
ORTHOPEDIC SURGEON

ORTHOPEDIC SURGERY

ORTHOPEDIST

	Term	Definition
6	Orthopedics	 Ortho- means normal, straight or to correct. Pedic, -pedal means feet A medical specialty that treats disorders involving the musculoskeletal system.
	Orthopedist	 Ortho- means normal, straight or to correct. A physician that specializes in the treatment of the musculoskeletal system.
	Orthopedic Surgery	 Ortho- means normal, straight or to correct. Surgery means to treat an illness or deformity. A branch of medicine that specializes in the treatment of the musculoskeletal system and operative procedures.
	Orthopedic Surgeon	 Ortho- means normal, straight or to correct. Surgeon is a physician who treats disease and injuries using operative procedures. A physician that specializes in the musculoskeletal system and performs operative procedures.

The Structure and Functions of the Skeletal System



	Term	Definition/Meaning
	Axial skeleton	 Axi- means axis. Axis is a line the passes through the center of the body. Axial refers to the axis of the body. The axial skeleton includes the skull, vertebrae, ribs and sternum. These bones form the axis of the skeleton.
	Osteogenesis	 Osteo-, oste- means bone. -gene means that which generates. Osteogenesis is the development of bone tissue.
	Fibrous joint	 -fibrous means composed of fibrous tissue. Fibrous joints are slightly movable joint in which a fibrous tissue connects the bones. Fibrous joints are found in the skull.
	Osteoblast	 Osteo-, oste- means bone. A blast is a cell capable of building tissue. -blast means embryonic state of development. Osteoblasts are the cells that lay down and secrete new bone cells for the formation of the bone.
	Osteoclast	 -clast means something that breaks, causing disintegration. Osteoclast are the major bone cells that dissolve, digest and reabsorb bone.
	Osteocytes	 Cyt- means cell. The osteocytes are bone cells responsible for the maintenance of the bone matrix. Osteocytes include the osteoplast and osteoclast

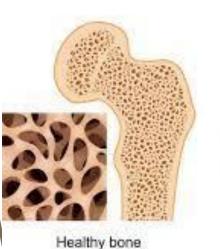
Procedures of the Musculoskeletal System



		Term	Definition/Meaning
0		Arthrocentesis	 Arthro- means joints or articulation. -centesis means surgical puncture as to aspirate or remove fluid. An arthrocentesis uses a needle to puncture a joint to withdraw fluid. This procedure is used to obtain samples of the synovial fluid to diagnose a condition.
	L	Arthrography	 Arthro- means joints or articulation. -graphy means the process of recording. Arthrography is a method that uses radiography to visualize inside a joint. Also this method uses radiopaque contrast medium.
		Arthroplasty	 Arthro- means joints or articulation. -plasty means surgical repair. The use of surgery to restore mobility to a painful joint or one with degenerative disease by reconstruction or replacement.
		Arthroscopy	 Arthro- means joints or articulation. -scopy means visual examination with a lighted instrument. The use of an endoscope inserted into a small incision to visualize and examine the inside of a joint.

Term	Definition/Meaning
Electromyography (EMG)	 Electro- refers to electrical Myo- refers to muscle -graphy is the process of recording. An electromyography is method used to measure the action potential of muscle.
	 Bone is a connective tissue that is dense, hard and makes up the framework of the human skeleton. Densitometry is a method of measuring bone density. A bone densitometry is a method of determining the mass of the bone by measuring the absorption of radiation by the skeleton.

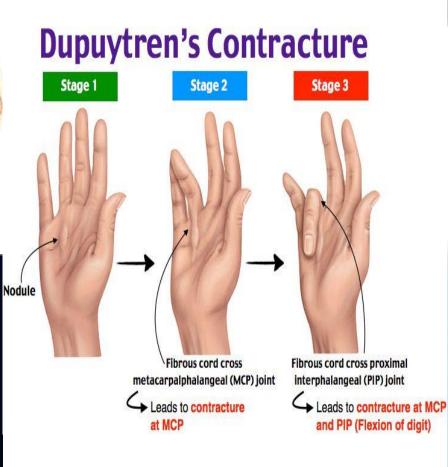
Diseases and Conditions of the Musculoskeletal System

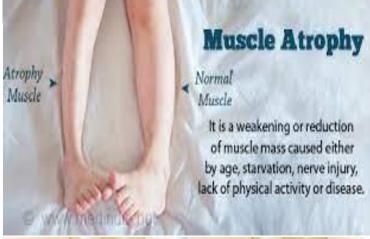




Osteoporosis









	Term	Definition/Meaning
13	Atonic	 A- refers to no, not, without, away. -tonic refers to the quality of the muscle tone or muscle contraction. Atonic refers to lacking normal tone as in a muscle that is flaccid.
	Atrophy	 A- refers to no, not, without, away. -tropy refers to having an affinity for. Atrophy in a muscle is a decrease in the size or activity as a result of a lack of physical exercise or some type of neurological or musculoskeletal disease.
	Dislocation	\circ Dislocation is the displacement of a part of the body from its original position.
	Flaccid	• Flaccid means limp and without tone such as a muscle that is weak, flabby and lacking normal tone.
	Myalgia	 My- refers to muscle. -algia refers to pain. Myalgia is muscle pain.
	Osteoarthritis	 Oste(o) refers to bone. Arthritis refers to inflammation of the joints. Osteoarthritis is a form of arthritis in which one or several joints undergo degenerative changes.

	Term	Definition/Meaning
4	Fibromyalgia	 Fibr(o) refers to fiber. My- refers to muscle. -algia refers to pain. Fibromyalgia is a form of rheumatism characterized by musculoskeletal pain, spasms, stiffness, fatigue, and sleep disturbance.
	Fracture	• A fracture is a traumatic injury to the bone in which the normal continuity of the bone has been disrupted.
	Lordosis	 Lord(o)- refers to bent forward -osis refers to condition Lordosis is an abnormal condition of the vertebral column in which there is an increase in concavity in the lumbar spine.
	Scoliosis	 Scolio- refers to twisted or crooked. -osis refers to a condition. Scoliosis is an abnormal condition of the vertebral column in which there is a lateral curvature of the spine.

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Thank You & Good Luck



