



Bones & Muscles

Module 4

Musculoskeletal



- oste/o
 - bone
- myel/o
 - bone marrow or spinal cord
- my/o, myos/o
 - muscle

What does
myc/o mean?

Musculoskeletal

- arthr/o = joints
- ten/o, tend/o, tendin/o
 - tendon
 - attaches muscle to bone
- bursa, burs/o
 - fibrous sac that acts like a cushion to ease joint movement
- ligament
 - connects bone to bone
- synovi/o, synovial fluid
 - acts as a lubricant within movable joints



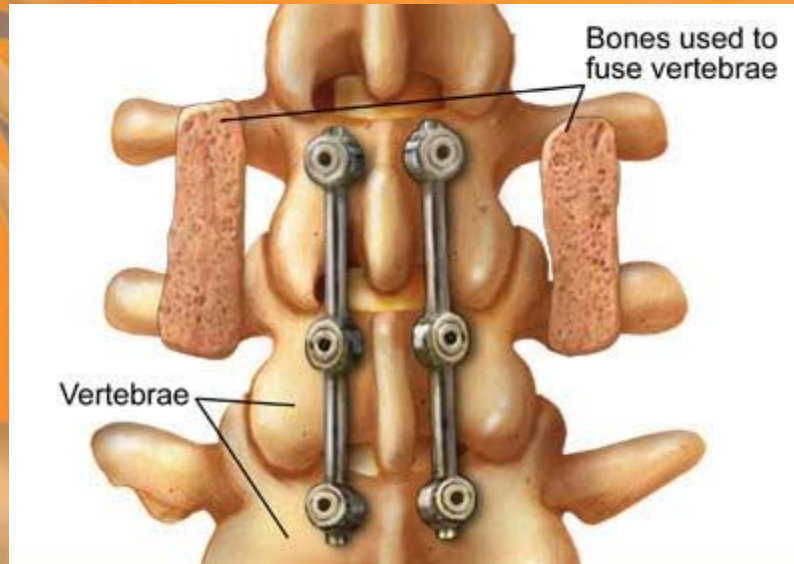
Musculoskeletal

- symphysis joint
 - sym- and syn- = with, together, joined together
 - -physis = to grow
 - Bones grow together with cartilage and function as one
- menisc/o
 - cartilage within a joint...



Musculoskeletal

- ankylosis
 - “loss of mobility in a joint”
 - ankylo/o = stiff
 - -osis = abnormal condition
- osteoclasia
 - “surgical Fx a bone to correct deformity”
 - oste/o = bone
 - -clasia = to break
 - Fx = fracture, broken bone

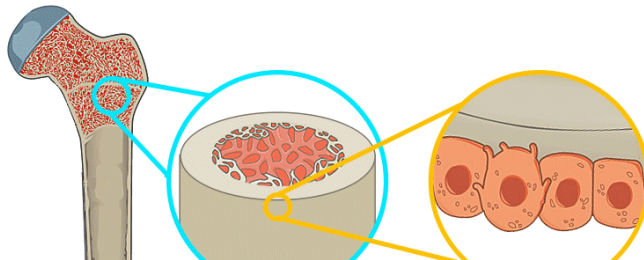


- osteodesis
 - “fusion; surgically fuse together bone”
 - oste/o = bone
 - -desis = surgical fusion

Musculoskeletal

- myalgia
 - muscle pain
 - my/o = muscle
 - -algia = pain
- osteoblast
 - oste/o- = bone
 - -blast = developing cell
- arthrocentesis
 - arthr/o = joint(s)
 - -centesis = surgical puncture to remove fluid

a cell that forms bones



Musculoskeletal

Osteopenia



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Normal biceps brachii muscle

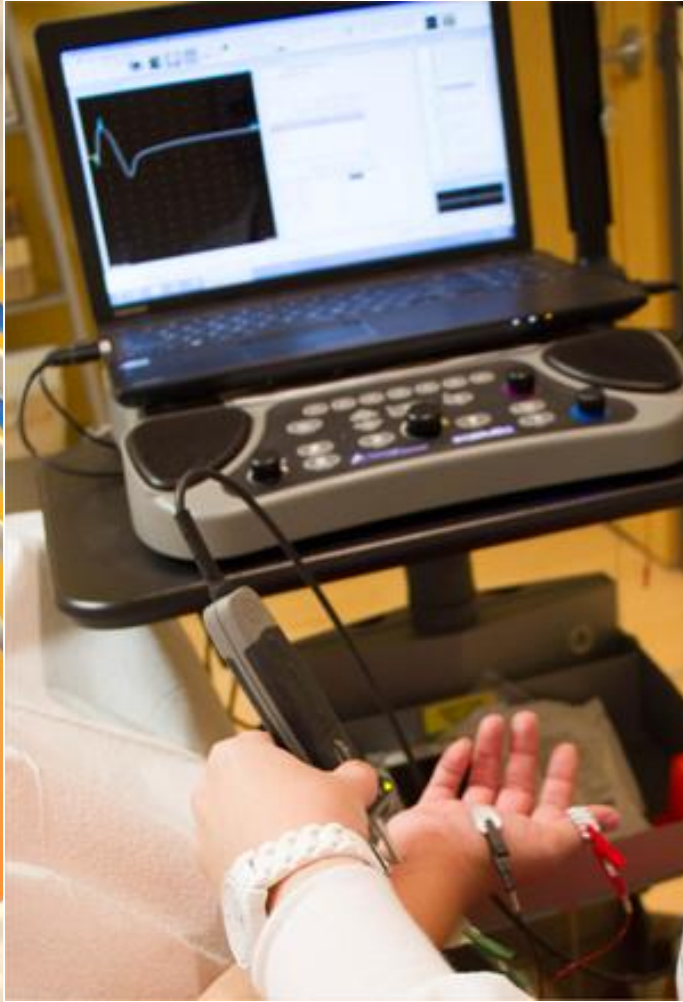


Decrease in biceps due to muscle atrophy



- osteopenia
 - loss of bone density
 - oste/o = bone
 - -penia = abnormal reduction
- -schisis
 - split, fissure
- -rrhaphy
 - suturing (stitching)
- -trophy
 - development

Musculoskeletal



- electromyogram
- electromyography
 - test used to record the electrical activity of muscles
 - electr/o = electricity
 - my/o = muscle
 - -gram = resulting record
 - -graphy = process of recording

Musculoskeletal



- osteoarthritis, OA
 - “inflammation of the bones and joints”
- orthopedics, Ortho
 - field of medicine that specializes in bones, joints, and muscles
- kinesiology
 - “study of the movement and motion of muscles and body parts”
 - kinesi/o = movement or motion
- bradykinesia
 - slow movement
 - brady- = slow