

# Bell Ringer

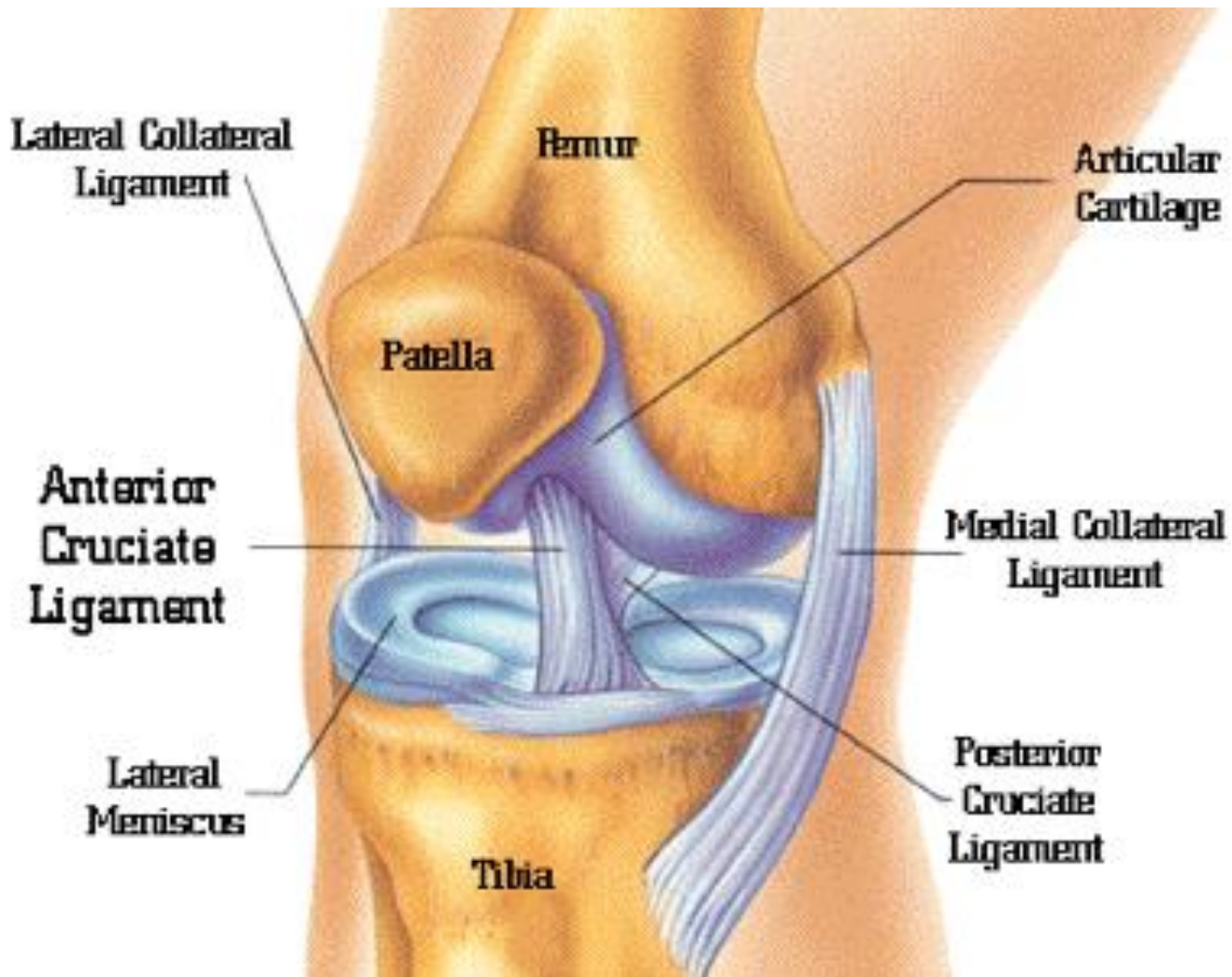
## Vocabulary Words – Test 4

December 10, 2015

DISEASES AND DISORDERS

Skeletal System

# ANATOMY OF THE KNEE

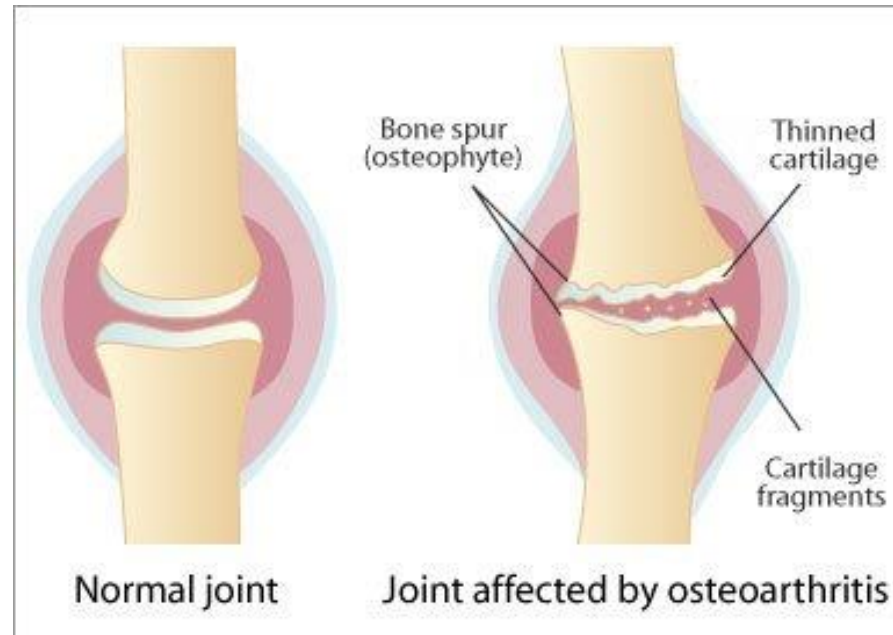


<http://www.arthritis-health.com/video/knee-anatomy-video>

# Osteoarthritis

November 9, 2015

The most common form of arthritis. It is a chronic disease that usually occurs as a result of aging. It frequently affects the hips and knees. It includes joint pain, stiffness, aching, and limited range of motion.



<http://www.arthritis-health.com/video/knee-osteoarthritis-video>

<http://www.healthcentral.com/osteoarthritis/d/introduction?ic=pha>

# Rheumatoid Arthritis November 10, 2015

A chronic inflammatory disease that affects the connective tissue and joints. Progressive attacks can cause scar tissue formation and atrophy of bone and muscle tissue, which result in permanent deformity and immobility.

[http://www.healthcentral.com/rheumatoid-arthritis/causes-000048\\_1-145.html](http://www.healthcentral.com/rheumatoid-arthritis/causes-000048_1-145.html)

<http://www.arthritis-health.com/video/rheumatoid-arthritis-overview-video>



# Bursitis

November 11, 2015

An inflammation of the bursae, which are small, fluid-filled sacs surrounding the joints. It frequently affects the shoulders, elbows, hips, or knees. Symptoms include severe pain, limited movement, and fluid accumulation in the joint.



<http://www.mayoclinic.com/health/medical/IM00467>

<http://www.methodistorthopedics.com/olecranon-bursitis>

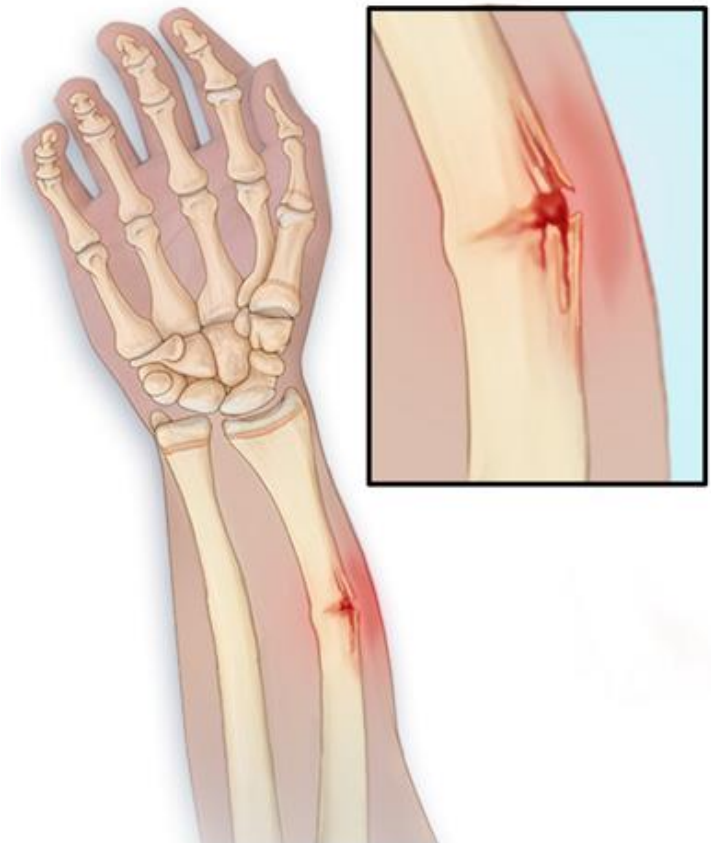




# Greenstick Fracture

November 12, 2015

Bone is bent and splits, causing a crack or incomplete break; common in children.





FIB AP  
ies: 2



Start

R  
EDK

120 mm

W 4095 L 2045  
Fiber 20ms Fact 0

# Simple or Closed Fracture

November 13, 2015

Complete break of the bone with no damage of the skin.



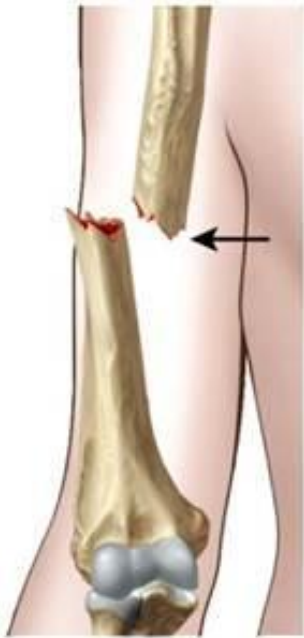




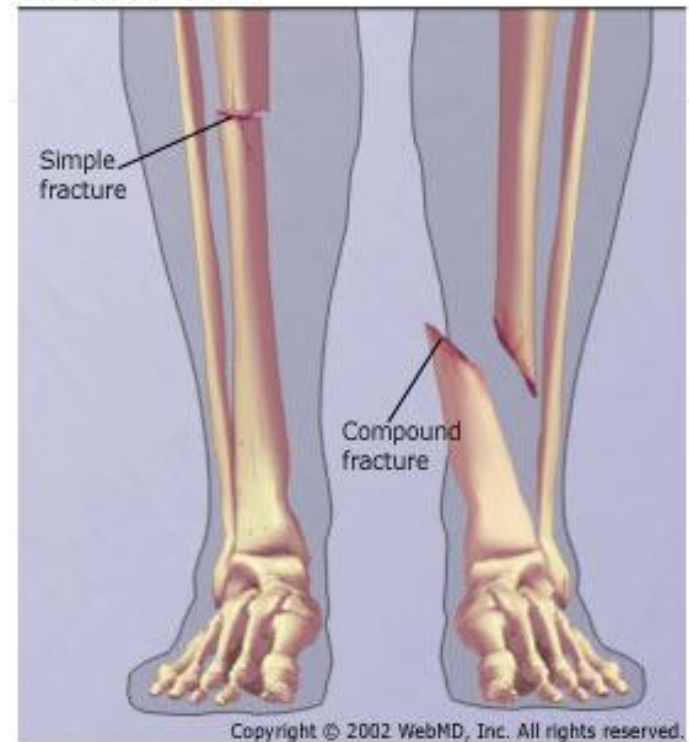
# Compound or Open Fracture

December 16, 2015

Bone breaks and ruptures through the skin; creates an increased chance of infection.



Bone Fractures



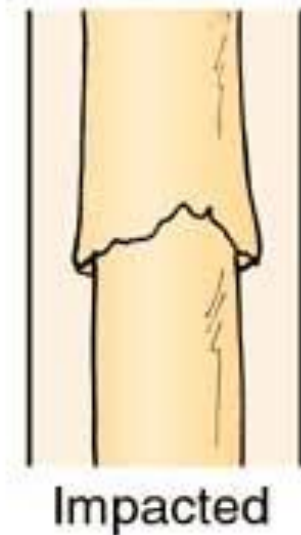




# Impacted Fracture

November 17, 2015

An impacted fracture is when the ends of a broken bone are jammed or compressed into each other. Commonly caused from a fall, strike from an object, or by bending or twisting of a bone.







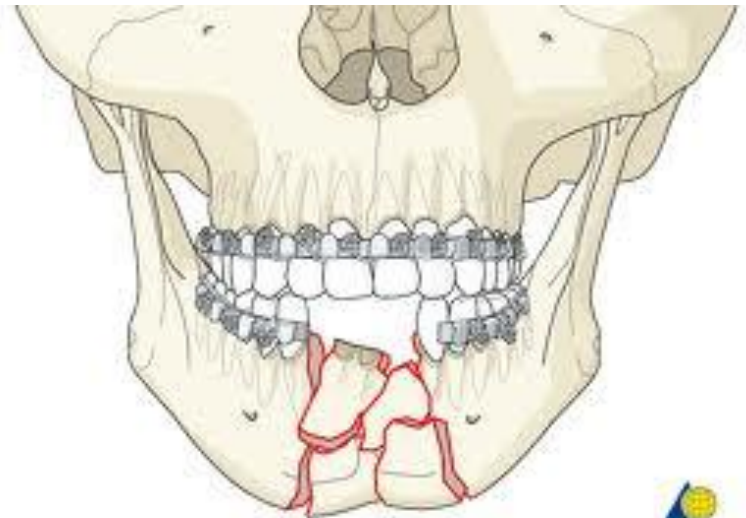
Humerus



# Comminuted Fracture

November 18, 2015

A fracture in which the bone is splintered or fragmented into more than two pieces.

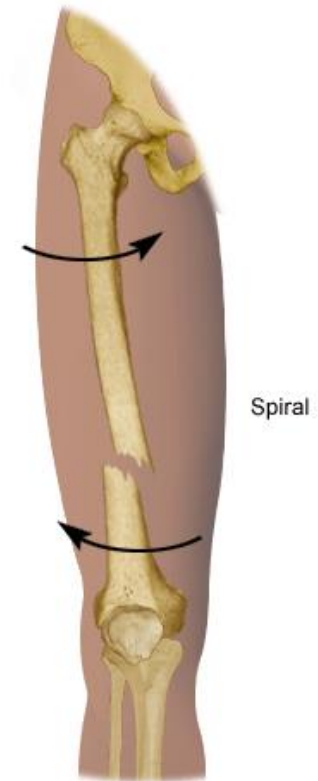




# Spiral Fracture

November 19, 2015

A fracture where the bone twists, resulting in one or more breaks; common in skiing and skating accidents.

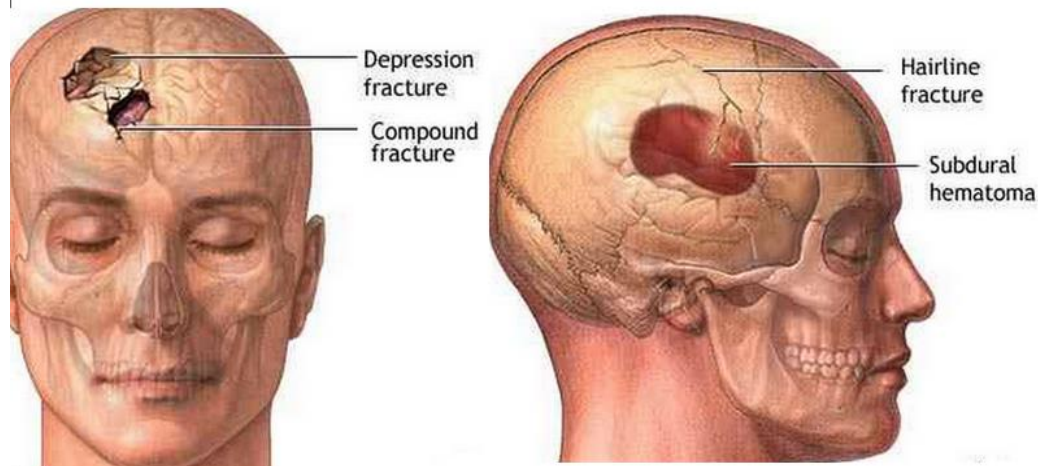


# Depressed Fracture

November 20, 2015

A broken piece of skull bone moves inward; common with severe head injuries.

## Types of skull fracture



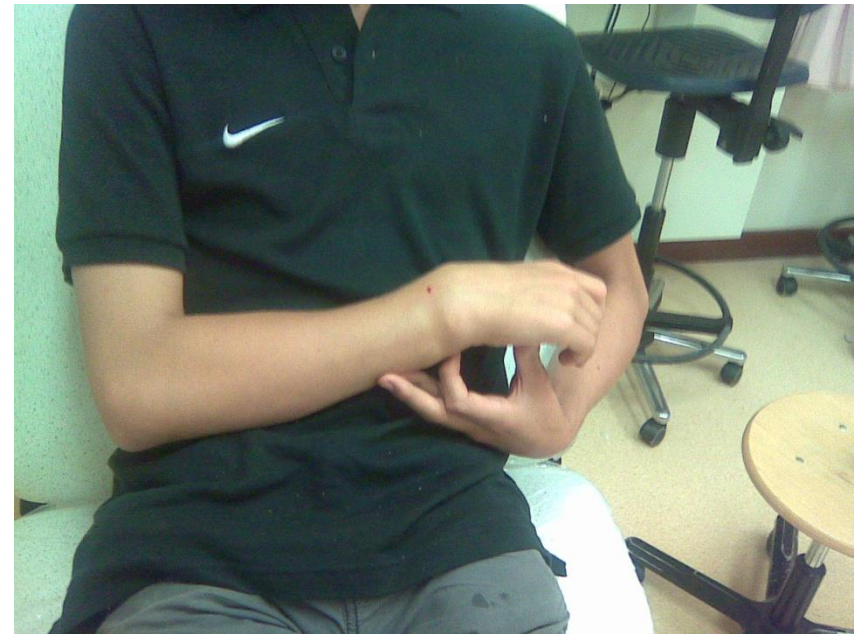
# Colles Fracture

November 30, 2015

Breaking and dislocation of the distal radius that causes a characteristic bulge at the wrist; caused by falling on an outstretched hand.



“Extension Fracture”



# Colle's Fracture vs Smith's Fracture



# Orthopaedic Website Resources

- <http://www.houstonspineandjoint.com/bone-fracture-types.htm>
- <http://orthoinfo.aaos.org/topic.cfm?topic=A00412&webid=21DFE75F>
- <https://www.youtube.com/watch?v=ksCzz2DSt-g>



# Dislocation

December 1, 2015

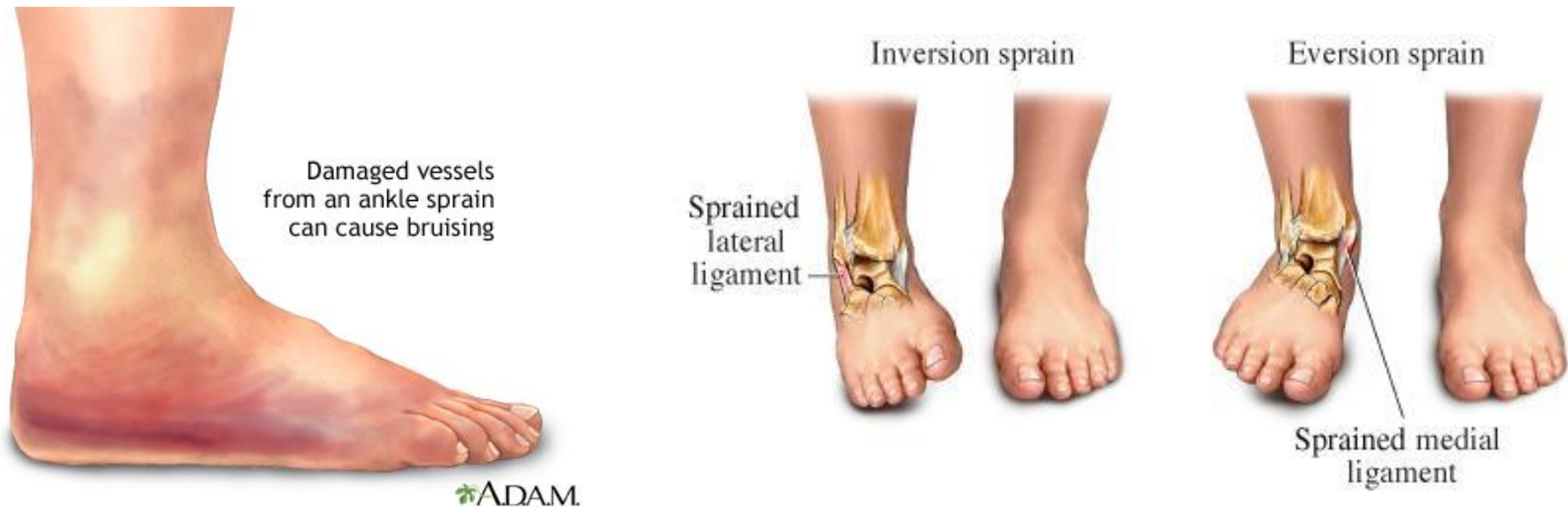
When a bone is forcibly displaced from a joint. It frequently occurs in shoulders, fingers, knees, and hips.



# Sprain

December 2, 2015

When a twisting action tears the ligaments at a joint. The wrists and ankles are common sites for sprains. Symptoms include pain, swelling, discoloration, and limited movement.



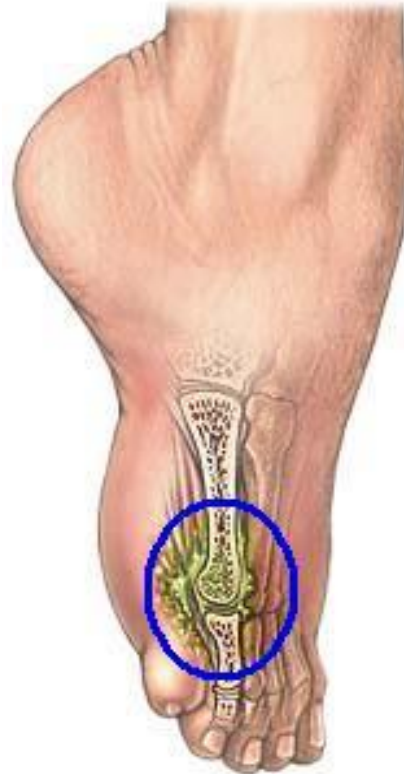
What is the difference between a *sprain* and *strain*?

<http://orthoinfo.aaos.org/topic.cfm?topic=A00111>

# Osteomyelitis

December 3, 2015

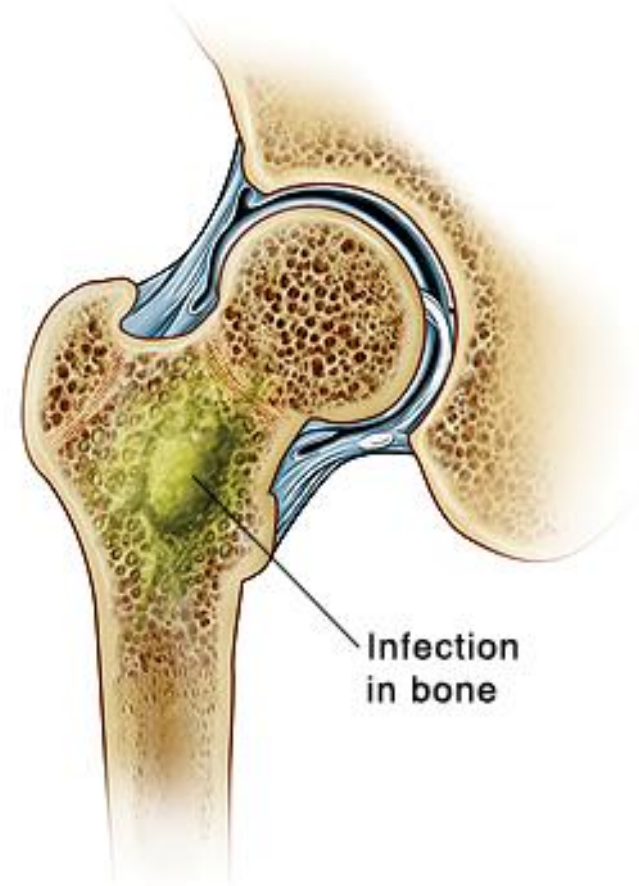
A bone inflammation usually caused by a pathogenic organism. The infectious organisms cause the formation of an abscess within the bone and an accumulation of pus in the medullary canal. Symptoms include pain at the site, swelling, chills, and fever.



Bone infection



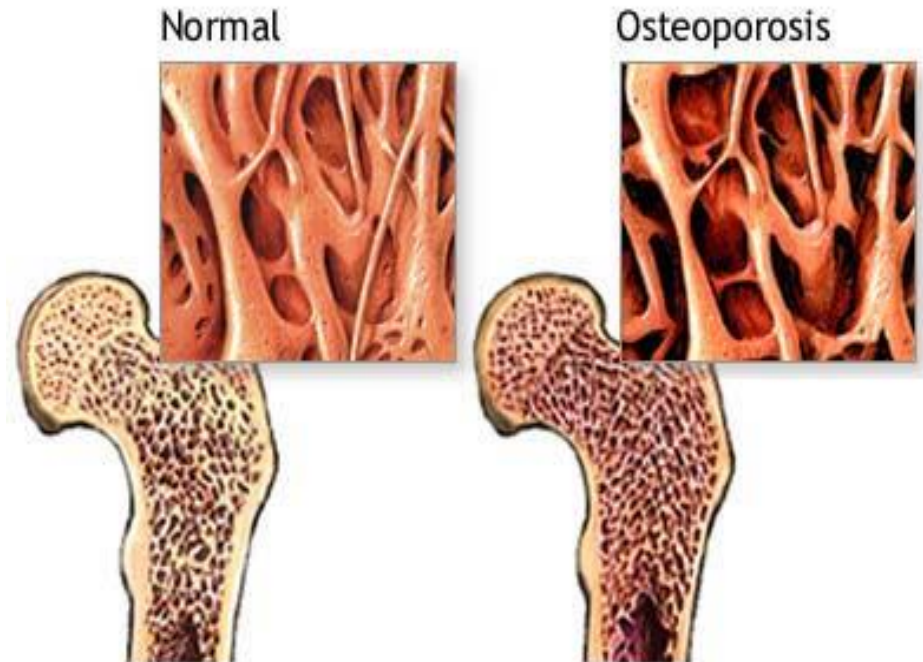
# Osteomyelitis



# Osteoporosis

December 3, 2015

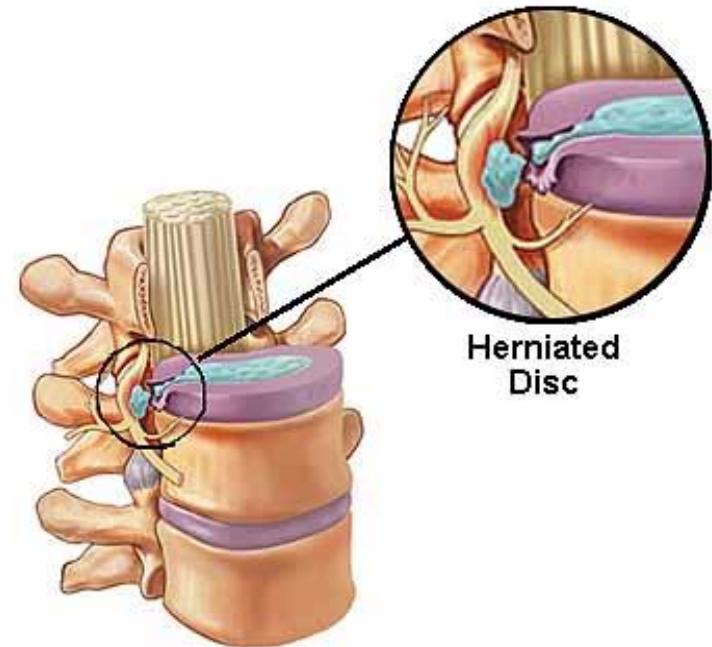
Increased porosity or softening of the bones, is a metabolic disorder caused by a hormone deficiency (especially estrogen in women), prolonged lack of calcium in the diet, and a sedentary lifestyle. The loss of calcium and phosphate from the bones causes the bones to become porous, brittle, and prone to fracture.



# Ruptured Disk

December 4, 2015

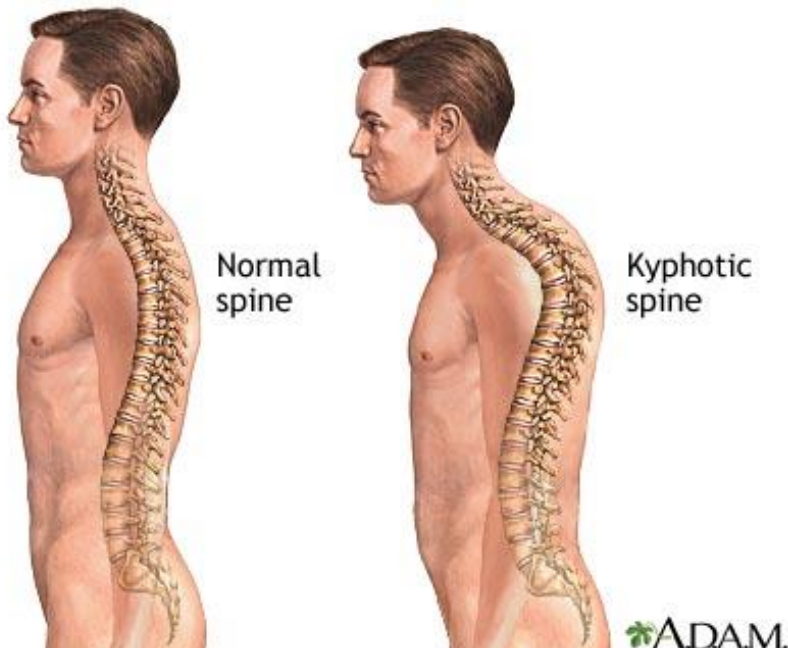
Also referred to as a herniated or slipped disk. When an intervertebral disk (pad of cartilage separating the vertebrae) ruptures or protrudes out of place and causes pressure on the spinal nerve. The most common site is at the lumbar-sacral area, but a ruptured disk can occur anywhere on the spinal column. Symptoms include severe pain, muscle spasm, impaired movement and/or numbness.



# Kyphosis/Hunchback

December 7, 2015

A rounded bowing of the back at the thoracic area. Age-related kyphosis often occurs after osteoporosis weakens spinal bones to the point that they crack and compress. A few types of kyphosis target infants or teens.

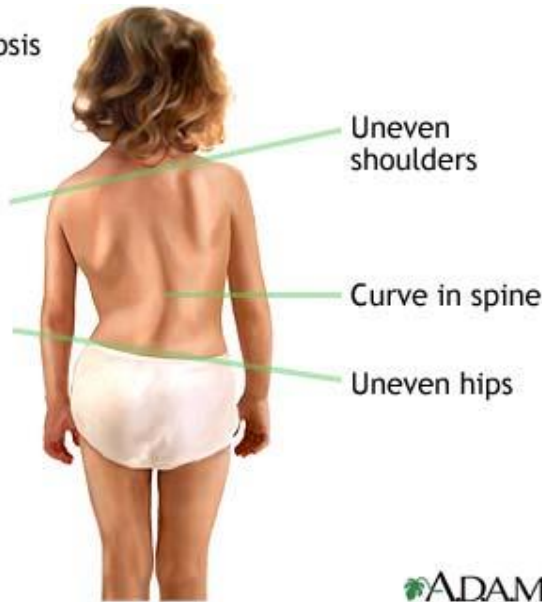


# Scoliosis

December 7, 2015

A side-to-side, or lateral, curvature of the spine.

Signs of scoliosis



Types of Scoliosis

Thoracic



Lumbar





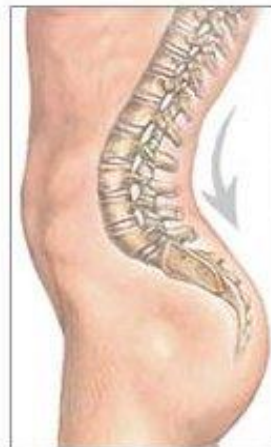
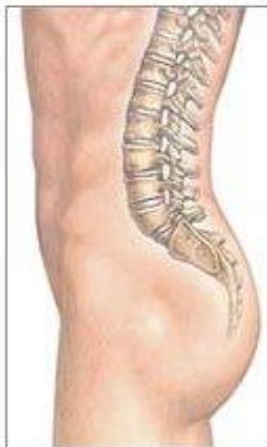
# Lordosis/Swayback

December 8, 2015

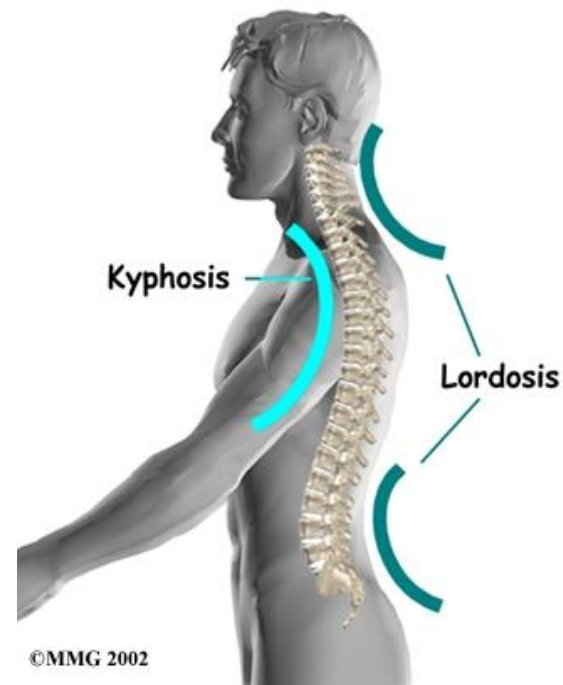
An abnormal inward curvature of the lumbar region. Poor posture, congenital (at birth) defects, structural defects of the vertebrae, malnutrition, and degeneration of the vertebrae can all be causes of these defects.

Normal spine

Lordosis of the spine



Exaggerated lumbar curve



# Rickets

December 9, 2015

A disorder caused by a lack of vitamin D, calcium or phosphate. It leads to **softening** and weakening of the **bones**.

“Osteomalacia”

Normal anatomy



Rickets

