Fractures, Sprains, and Dislocations



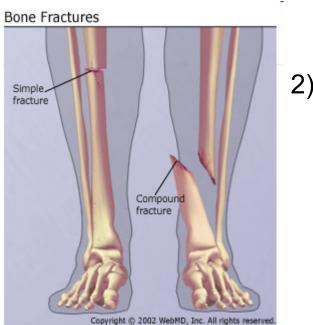
• A break or a crack in a bone is called a fracture.

• Many types of fractures are difficult to determine.

• If a fracture is suspected, it's wise to get it checked out

Fracture Categories All fractures are one of two types

1) Closed – skin over fracture is not broken



2) Open/Compound – where the skin over the fracture is broken. The bone may be visible.

Types of Fractures

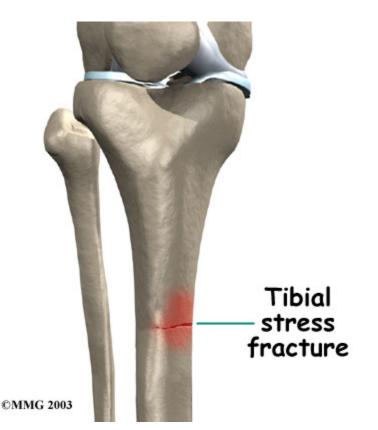
- Hairline
- Stress
- Complete
- Greenstick
- Comminuted

- Depression
- Complicated
- Transverse
- Oblique
- Spiral

• • Hairline Fracture



• A very thin crack or break in the bone

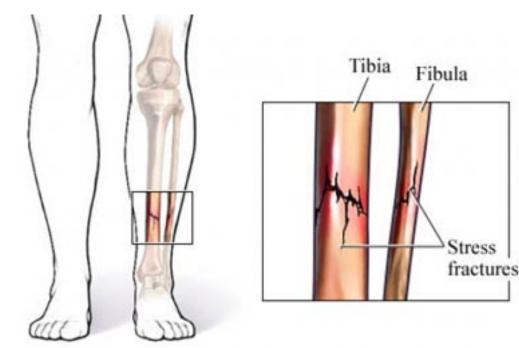




Hairline fracture of the foot

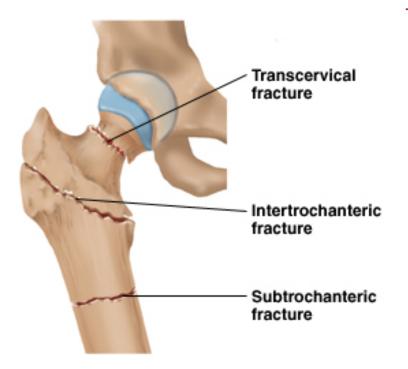


Fracture caused by repetitive stress to a bone



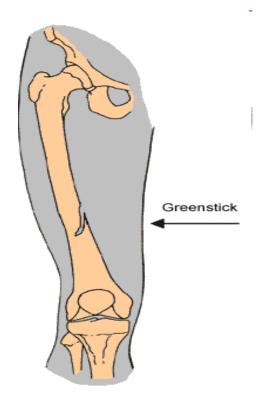
Complete Fracture

When a bone breaks into two separate pieces





• When the bone cracks on one side only, not all the way through

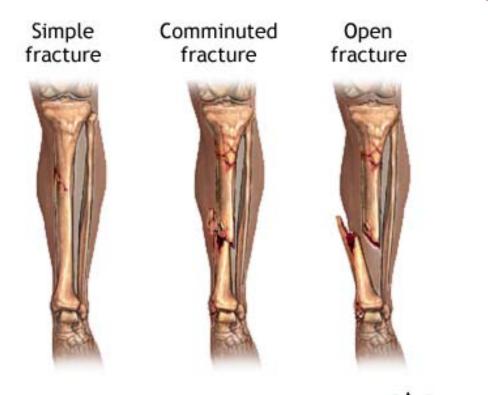




Ulnar greenstick fracture

Comminuted Fracture

• When the bone is broken into more than two pieces or is crushed

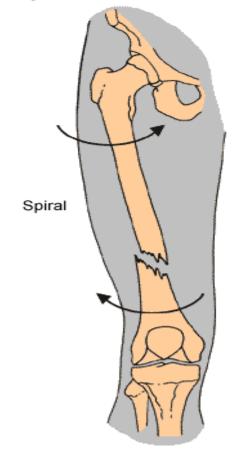




o Bone is broken by twisting

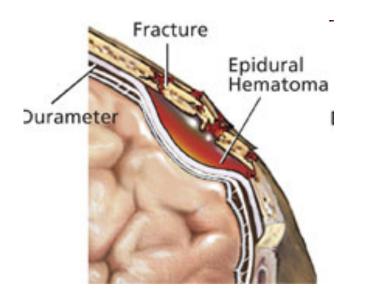


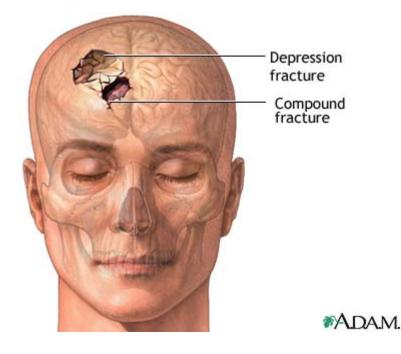




Depression Fracture

• When the skull is fractured inward





Complicated Fracture

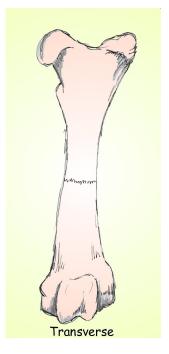
• When a broken bone may have caused damage to internal organs

• There is more concern than the fracture itself

Transverse Fracture

When the bone is broken straight across

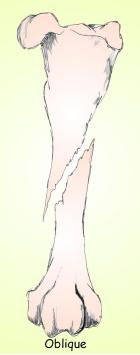






• When the bone is broken on a steep angle





fibula

Signs or Symptoms of a Fracture

• Pain and tenderness

- Loss of function
- A wound (with bone sticking out)
- Deformity
- Unnatural movement
- o Shock
- Crepitus (grinding) (don't test for this)
- Swelling and bruising

Sprains

• • What is sprain?

- The bones at a joint are held together by tough bands called ligaments.
- A sprain is an injury to a ligament
- o 1st degree stretched
- o 2nd degree partially torn
- 3rd degree completely torn
- Most common are the fingers, wrist, ankle, and knee

Signs and Symptoms of a Sprain

• Pain that may be severe and increase with the movement of the joint

Loss of function

Swelling and discoloration

Dislocations

What is a dislocation?

- When the bones at a joint are no longer in proper contact.
- Can be caused by severe twisting or indirect force, or even a muscular contraction
- Most frequently dislocated joints
 - Shoulder
 - Elbow
 - Thumb
 - Finger
 - Jaw
 - Knee



Signs and Symptoms of a Dislocation

- Deformity or abnormal appearance
- Pain and tenderness aggravated by movement
- Loss of normal function
- Joint may be locked in one position
- Swelling of the joint

General Treatment Principles

- Stop the activity.
- Survey the injured area.
- First Aid if qualified.
- Get help if not.
- Determine if additional medical attention is necessary.



- R -Rest
- o | -Immobilize
- C Cold• E Elevate