

Lakeview Community Wellness Center Orthopaedic Connection

Fracture Principles

By Thomas J. Haverbush, M.D.
Orthopaedic Surgeon

Transforming patient information into patient understanding.

Some patients mistakenly associate my specialty of Orthopaedic Surgery only with fractures.

Nothing could be further from the truth. Orthopaedic Surgery encompasses almost all musculoskeletal care both operative and non-operative.

That said, I would like to enter the world of Fractures with you and hopefully cover some aspects you didn't know.

A fracture (break) is simply a disruption in the continuity of a bone.

Stress Fracture

Some fractures occur on a microscopic level and are called stress fractures. They may not even show up on regular x-rays. They are usually stable and activity restriction and light immobilization may be all that is needed.

Torus Fracture

Young bone can actually bend producing a buckling of one side of the bone, but no change on the other side. These fractures require only short term immobilization for comfort.

Greenstick Fracture

A young bone fracture that breaks on one side of the bone and bends on the other is termed greenstick. The fracture may be quite deformed and require reduction or "setting".

Mature Bone Fracture

In these injuries the bone is completely interrupted. In this fracture the bone may or may not be displaced.

Undisplaced

Treatment of undisplaced fractures usually consists of immobilization until full healing is seen on x-ray. Usually surgery is not required, but it depends on the fracture.

Displaced

Most displaced (separated) fractures are unstable and often require surgery. But in some cases a displaced fracture can be reduced and may be maintained in proper position with a splint or a cast.

Many displaced fractures do require surgery to reduce them and then metal fixation is added to hold the fracture in place.

Symptoms

There are many classic symptoms you need to know.

- Swelling in the injured area
- Tenderness
- Pain
- Deformity or angulation
- Undisplaced fractures may have only tenderness and swelling
- Stress fractures have mild swelling, tenderness and pain to bear weight
- Discoloration may be present

X-rays

X-rays usually indicate the presence of an acute fracture. But there are exceptions. Sometimes the fracture is not seen by the person in the ER or Clinic. The part is splinted (hopefully) and in a day or so the facility calls saying the radiologist has diagnosed a fracture. Also some fractures will not show up on x-ray for 1 - 2 weeks until bone absorbs at the fracture making the fracture visible.

It is always wise to splint or immobilize a suspected fracture to treat symptoms until x-rays can confirm the presence (or absence) of a fracture.

Types of Fractures (Classification)

- Fractures into the joint (intra-articular)
- Displaced (separated)
- Nondisplaced
- Angulated
- Many fragments (comminuted)
- Compressed
- Open (if a fracture is exposed to air through a break in the skin)

This is a good place to finish part one of our mini course in fractures. Please return next week at this same time for part two. See you then.

Lakeview Area News Archive and Office Website

What if I told you that every article I have ever written for Lakeview Area News is instantly available to you on the office website www.orthopodsurgeon.com?

It is! Every article is listed by title in the archive from most recent back to the first. Click on the title and the whole article appears magically. These articles contain a huge amount of information you can use.

While you are at it, look over the website library of Orthopaedic articles as well as Your Orthopaedic Connection. These two sources have a huge amount of Orthopaedic information that can be useful to you, your family and friends. I urge you to check it out.

Orthopaedic Clinic

I also hope you realize by now that I am at Lakeview Community Wellness Center every first and third Friday afternoons seeing patients.

You can simply call and make your own appointment. Call 989-463-6092 to make an appointment at the Lakeview Community Wellness Center Orthopaedic Clinic or at the office in Alma.

Approaching Clinic dates are Friday January 20 and February 3, 2012.

I am there for you. Call if you need me.

Our goal is simple - To help people return to more pain free, functional lives. I specialize in you.

Good health. Good life. All the best to you.

Be well.

Dr. Haverbush