Facial Fracture Care and Repair
Orbital, Nasal, Maxilla or Mandible (Jaw) & Other Facial Fractures

Orbital Fractures

What is an orbital fracture?
When one or more bones are broken in the eye socket it is called an orbital fracture. Sometimes it is called a blow-out fracture when the fracture occurs in the floor (lower part) of the orbit. It may involve the orbit and the cheek bone, called the zygoma or extend from the orbit into the nasal and ethmoid bones (found inside the nose under the orbit). These fractures can occur from falls, motor vehicle crashes, sports accidents, assaults and other forms of trauma to the face or head.

How are these fractures treated?
Treatment depends on where the fracture is and how severe it is.

- In many cases no surgery is needed.
  - Cold wet packs may be used for the first 36 to 48 hours after trauma or surgery to reduce swelling.
  - The head of your bed will be raised to decrease bleeding and swelling.
- Orbital fractures may need to be repaired in surgery. The surgeon may wait until swelling and bruising decrease before operating.

Broken Nose or Nasal Fracture

What are nasal fractures?
A nasal fracture or broken nose is the most common type of facial fracture. It occurs when there is a crack or break in one of the two bones over the bridge of the nose. A more severe fracture may extend into the orbit of the eye or through the ethmoid bone beneath the orbit. These fractures can occur from falls, sports accidents, assaults, motor vehicle crashes and other forms of trauma to the face or head.

What are the symptoms of nasal fractures?
Symptoms include pain, bruising, swelling or misshapen nose. The nose may have
blood or clear spinal fluid drainage from it. Other symptoms are bruising and swelling of the eyes and trouble breathing through the nose.

How is a nasal fracture diagnosed?
A broken nose is found by physical exam or with an x-ray.

How are nasal fractures treated?
Treatment depends on where the fracture is and how severe it is.

- In many cases no surgery is needed.
  - Ice or cold packs will be applied to the injured area of your nose (15 - 20 minutes each hour while awake to reduce swelling). Ice will be applied at least 3-4 times a day for 2 days. The ice will be placed in a small plastic bag, with a towel between the ice and your skin.
  - The head of the bed will be raised to decrease bleeding and swelling.
  - Sometimes the doctor will place soft gauze in the nose (nasal packing) to stop nose bleeding.
  - If the nose is not in line, the doctor may straighten it by hand.

- If plastic surgery is needed to repair the fractures, the surgeon may wait until swelling and bruising decrease before operating.

Jaw Fractures

What is a fractured jaw?
A fractured jaw occurs when one or more bones are broken in the upper jaw (maxilla) or lower jaw (mandible). Le Fort I, II, or III are names for fractures that involve the jaw. These fractures can occur from falls, motor vehicle crashes, sports accidents, assaults, and other forms of trauma to the face or head.

What are the symptoms of jaw fractures?
Symptoms include bruising, swelling, pain, and tenderness over the fracture site. There may be numbness, cuts, bleeding, facial deformity, malocclusion (the feeling that your teeth don’t bite together like they should), misalignment of teeth, and lost or loosened teeth.

How are jaw fractures diagnosed?
A broken jaw is found by physical exam or with an x-ray. Sometimes the fracture is seen on a CT scan of the head, which was done for other purposes.

How are jaw fractures treated?
Treatment depends on where the fracture is and how severe it is.

- In some cases the jaws are immobilized for 1-8 weeks through maxillo-mandibular fixation (MMF) where the jaws are lined up and arch bars (like braces) are put in place and wired or rubber banded to keep your jaws shut. This allows the break to heal in a correct manner.

- Open reduction and internal fixation (ORIF) surgery may be needed for certain types of fractures and more severe fractures.

- Ice or cold packs will be applied to the injured area of your jaw (15 - 20
minutes each hour while awake to reduce swelling). Ice or cold packs will be applied at least 3-4 times a day for 2 days after injury or surgery. The ice will be placed in a small plastic bag, with a towel between the ice and your skin.

- The head of the bed will be raised to decrease bleeding and swelling.
- If you need surgery, the surgeon may wait until swelling and bruising decrease before operating.

How are my teeth & mouth cleaned?
- A children’s toothbrush, rinsed in warm water to soften will be used with toothpaste to brush your teeth each morning, before bed, and after meals. The children’s toothbrush works better than a soft toothbrush to remove bacteria, blood, mucus and other matter that can cause infection or tooth decay. Toothettes (mouth cleaning sponges) do not clean the bacteria and debris from teeth to prevent infection or decay after MMF or surgery of the mouth.
- Your mouth will be rinsed with saline (salt water) or a prescribed mouth wash after injury, MMF, or ORIF.

How will I be fed?
- Once you are cleared to drink, you will be given clear liquids. Next your diet will be advanced to full liquids, then to the a Pureed Diet which is blenderized foods that need to be thinned with a little water or milk so that you are able to drink the food. The nutritionist will explain this diet to you and give you information on how to make food for yourself that will be safe for you to eat.

Cheekbone (Zygomatic) Facial Fractures

What is a cheekbone (zygomatic) fracture?
A zygomatic fracture is a fracture of the cheekbone caused by a direct blow to the cheek. These fractures can occur from sports accidents, assaults, falls, motor vehicle crashes, and other forms of trauma to the cheekbone.

What are the symptoms?
Symptoms include bruising, swelling, pain and tenderness over the fracture site. There may be numbness, cuts, bleeding, and facial deformity. There may also be symptoms of orbital fracture(s).

How are they diagnosed?
A broken cheekbone is found by physical exam or with an x-ray.

How are they treated?
Treatment depends on the where the fracture is and how severe it is.

- In some cases no operation is needed.
  - Ice will be applied to the injured area of your nose (15 - 20 minutes each hour while awake to reduce swelling). Ice or cold packs will be applied at least 3-4 times a day for 2 days. The ice will be placed in a small plastic bag, with a towel between the ice and your skin.
  - The head of the bed will be raised to decrease swelling.
  - Other fractures may need surgery to repair.
  - The surgeon may wait until swelling and bruising decrease before operating.
When do I need to call my nurse or doctor?

Call your nurse or doctor if you have
- Trouble breathing or start to choke.
- Increased pain at the injury or surgical site.
- A change in vision.
- Numbness or tingling at the injury or surgical site.

What do I need to know before going home?

Special Health Facts for You (HFFY) will be reviewed with you to explain your discharge.

Who do I call for questions?

- Call Dr. ________________
  office @ 608-__________
  8:00-4:30 weekdays

- After hours, on weekends, and holidays call UW Hospital Paging Operator at 608-262-0486. Ask for the ENT doctor on call. Give your name and phone number with area code to the operator. A health care provider will call you back.

- If you live out of the area call: Toll free 1-800-323-8942

Your health care team may have given you this information as part of your care. If so, please use it and call if you have any questions. If this information was not given to you as part of your care, please check with your doctor. This is not medical advice. This is not to be used for diagnosis or treatment of any medical condition. Because each person’s health needs are different, you should talk with your doctor or others on your health care team when using this information. If you have an emergency, please call 911. Copyright ©9/2017. University of Wisconsin Hospitals and Clinics Authority. All rights reserved. Produced by the Department of Nursing. HF#6773.