X-RAY REVIEW OF COMMON FRACTURES WORKSHOP AAPA ANNUAL CONFERENCE Indianapolis, Indiana May 24, 2022

Scott Frischknecht, PA-C Steve Kestlinger, PA-C Dennis Rivenburgh, PA-C Robert Thomas, PA-C Mary Vacala, PA-C



II. Fracture Descriptions

B.

A. Open versus Closed fracture



Avulsion





Extraarticular versus Intraarticular fracture

- V. Review of Pediatric Fractures
 - A. Long bone fractures
 - 1. Greenstick fracture



2. Buckle (torus) fracture



- B. Epiphyseal fractures are those which involve injury to the growth plate, which is the physis.
- VI. Salter-Harris Classification of growth plate fractures



Salter-Harris I - separation of the epiphysis from the metaphysis without any evidence of fracture fragment

Salter-Harris II - fracture plane travels transversely through the physis and exits through the metaphysis: this is the most common type of epiphyseal fracture.

Salter-Harris III - - fracture extends along the growth plate and then exits directly through the epiphysis into the joint (this is an intraarticular fracture)

Salter-Harris IV - fracture extends longitudinally as a vertical split from the intraarticular surface across the epiphysis, through the physis, and then exits through the metaphysis

Salter-Harris V - fracture occurs as a result of a severe crush injury to the growth plate (this is an impacted growth plate): this is the worst epiphyseal fracture

C. Fracture angulation: measured in degrees

Example: 20 degrees

D. Fracture displacement: measured as a percent



Example: 15%



Example: 100%

E. Fracture shortening: measured in mm or inches



Example: About 10mm

- III. Always Obtain TWO X-ray views
- IV. Review of Long Bone Anatomy
 - A. Diaphysis shaft of the bone
 - B. Metaphysis broad flare of the bone
 - C. Physis the growth plate
 - D. Epiphysis the end of the bone

The Hip and Pelvis: Robert Thomas, PA-C

Femoral neck fracture (I.)

Intertrochanteric fracture (II.)

Subtrochanteric fracture (III.)



Pelvis fracture



The Hand and Wrist: Dennis Rivenburgh, PA-C

Phalangeal fracture Mallet finger

The second second

Metacarpal fracture

Boxer's fracture





Scaphoid fracture

Distal Radius fractures

Colle's fracture

Smith's fracture



Bennett's fracture





The Foot and Ankle: Mary Vacala, PA-C

Lisfranc Fracture/Dislocation





Messtansel bonos ress tracture

Jones Fracture



Distal Fibula Fracture



The Shoulder and Elbow, Steve Kestlinger, PA-C

Humerus fractures







Four Part

Two Part

Humerus shaft fracture



Clavicle fracture





Elbow fracture





The Spine: Scott Frischknecht, PA-C Jefferson's Fracture (C1)



C2 Fractures:

Odontoid (Dens) Fracture



Clay Shoveler's Fracture (C6 or C7)

Compression Fracture









Burst fracture



Chance fracture

