

# Emergency Department Guide for Acute Management of Pelvic & Acetabular Fractures

#### ATLS Protocol with Complete Evaluation

Assessment of Hemodynamics

Unstable

Aggressive resuscitation

See acute interventions below

Consider angiography

Stable

Close BP monitoring

Orthopaedic consultation

AP Pelvis X-Ray

Follow pelvic brim

Critically assess posterior pelvis

Identify abnormalities

Consider Inlet/Outlet views and CT scan when injury found to clarify



Assess involvement of joint

Pattern consistent with force through femoral head

Look for articular injury

Consider Judet (45° Oblique) views and CT scan for detail



## Pelvic Injuries

Pelvis acts as link between spine and lower extremities

1) Attempt to Classify Fracture or Injury Pattern

**Lateral Compression** Pubic rami fractures

Sacral impaction

AP Compression (Open Book)

Symphysis diastasis or anterior vertical fracture and SI disruption



Vertical Shear Vertically and rotationally unstable

anatomical areas involved



2) Attempt to Quantify Fracture or Injury Displacement













Increasing rotational instability





If unable to easily classify, then describe the

Increasing vertical instability

## Acetabular Injuries

Acetabulum provides weight bearing joint surface for femoral head

1) Attempt to Classify Fracture or Injury Pattern

> Describe fracture anatomy usually relative to dome or posterior wall

2) Attempt to Quantify Fracture or Injury Displacement

> Increased displacement or evidence of dislocation or instability lends towards more urgent treatment



#### Acute Interventions to Consider

- Observation
- **▶** Possible External Fixation
- > Pelvic binder or sheet
- **External Fixation**
- > Symphysis plate at laparatomy
- Pelvic binder or sheet
- >External Fixation
- Skeletal traction!

## Find Surgeon Orthopaedic Trauma Association

#### Reduction of Hip Dislocation

Skeletal Traction

### Orthopaedic Trauma Consultation

Call early and involve the Orthopaedic Surgeon in your decision making

The Orthopaedic Trauma Association presents this information as an educational service to the medical community. While the information is about health care issues and orthopaedic surgery, it is not medical advice. Individuals seeking specific orthopaedic advice or assistance for conditions such as these should contact an orthopaedic trauma surgeon through the Find a Surgeon program at www.ota.org.