#### The Literature



ile, M., Helfet, D. L., Kellam, J. E., & Vrahas, M. (1995). Fractures of the pelvis and acetabulum (pp. 419-495). Baltimore: Williams & Wilkins

Elsissy, J. G., Ruckle, D. E., LeBrun, C., & Johnson, J. P. (2024). Pelvic Ring Injuries: Stable or Not?. JAAOS-Journal of the American Academy of the

### Is the pelvic ring injury stable?

Tips & Tricks from ESTES Education in collaboration with the Polytrauma section

#### The Problem

The stability of the pelvic ring injury defines the treatment strategy

## The Challenge

Stability of the pelvis is difficult to assess

#### The Evidence

- 80% of the pelvic ring stability is defined by the posterior structures and 20% of the stability is defined by the anterior structures
- Isolated anterior injuries after blunt trauma are rare and injuries to the posterior ring must be excluded
- Injuries to the posterior ring leading to impaired stability include fractures of the sacrum or ligamentous disruptions

# **Tips & Tricks**



Stable fracture?

A-type fracture

Rotational instability?

B-type fracture

Rotational and vertical instability?

C-type fracture

Symphysis diastase 1-2.5cm

Unstable open book fracture

Check for secondary hints: e.g. fractures of the transverse process L5

# **Conclusion**

The unstable pelvic ring injuries requires at least posterior stabilization followed by anterior stabilization