

Ankle radiographic evaluation

Tips & Tricks from ESTES Education in collaboration with the Skeletal trauma section

The Problem

Assessment of Ankle X-ray during surgery essential for optimal outcome

The Challenge

Specific views for specific injuries

The Evidence

- AP Ankle
 - Tibia/Fibular overlap approx. 10mm
 - Tibia/Fibular clear space <5mm
 - Assessed to evaluate screw position (don't penetrate incisura)
- Mortise View
 - 10-15° of internal rotation
 - Incisura lines up with lateral border of talus

Tips & Tricks



Incisura inline with lateral border of talus
 Medial articular surface of talus perpendicular to x-ray beam
 Visualize clear space



Lateral view: talar body perfectly overlapped
 Note where posterior aspect of fibula interacts with plafond

Conclusion

True mortise and true lateral have specific properties that are required during intraoperative imaging