Shaft Reduction Techniques
Disclosure

- Research Support
  - Depuy Synthes

- Consultant/Speakers Bureau
  - Zimmer, Depuy Synthes, AO North America, AOTrauma
Techniques

- Clamps
- Plates
- Half pins
- Screws and cables
Clamp reduction
Clamps

- Oblique tibial shaft
- Regular or modified
- Acute reductions = pointed clamps
- Delayed reductions = larger bone clamps
Plates

- Open shaft plating
- Plate as reduction tool
  - Contour
  - Shape
Half pins
Half pins

- 4.0 and 5.0 mm external fixation pins
- External fixation or distractor
- Femur
Cables and screws (simplification)
Cerclage

- Technique critical

- Braided cables vs wires

- Long oblique (femur)
Screws

- Small and mini fragment sizes
- Careful technique (intracortical)
  - Cooling
  - Drill sharpness
- Simplification
End