

# Limb length discrepancy

Andrew Port

# The importance of LLD

Bannister  
JBJS 2007

- 60% long - mean 1cm
  - Perceived at 6mm
- 30% short - mean 6mm
  - Perceived at 1cm
- All due to femoral implant position
- Sign. Worse OHS
- 15% improved between 3/12 – 1 year

# Reasons for LLD

- Hip causes
- Non hip

# Non hip

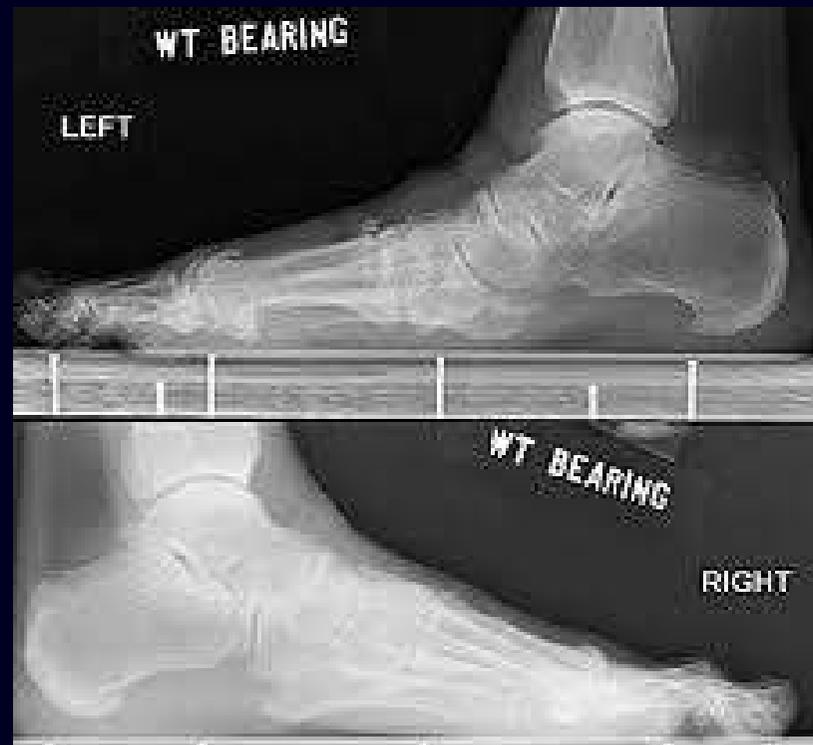


# Other limb causes



# Non- hip

- Tib Post



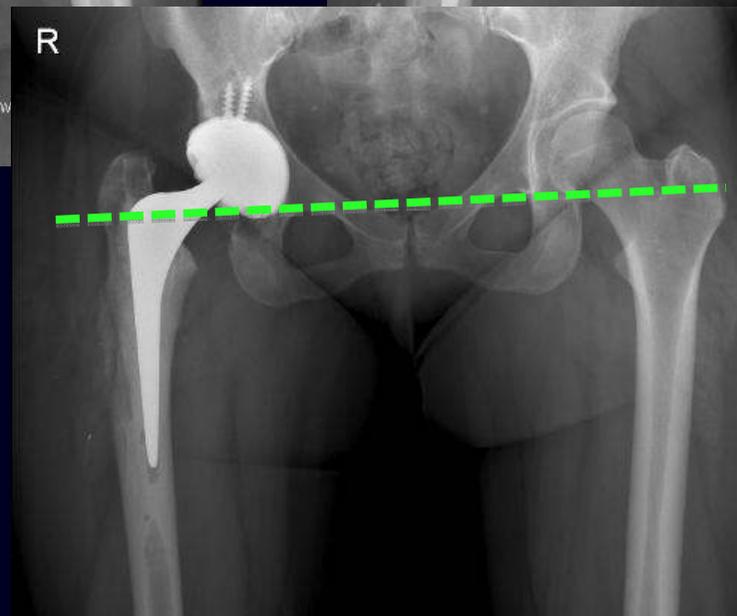
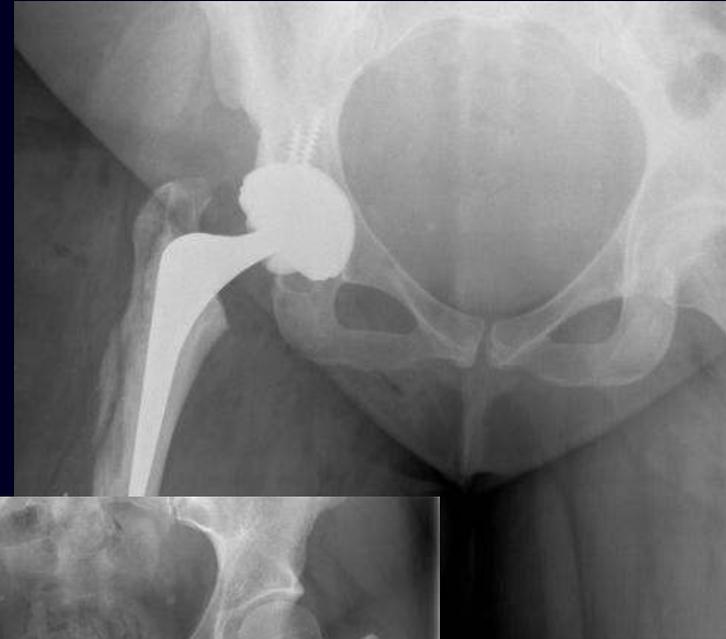
# Reasons for LLD

- Hip causes
- Non hip

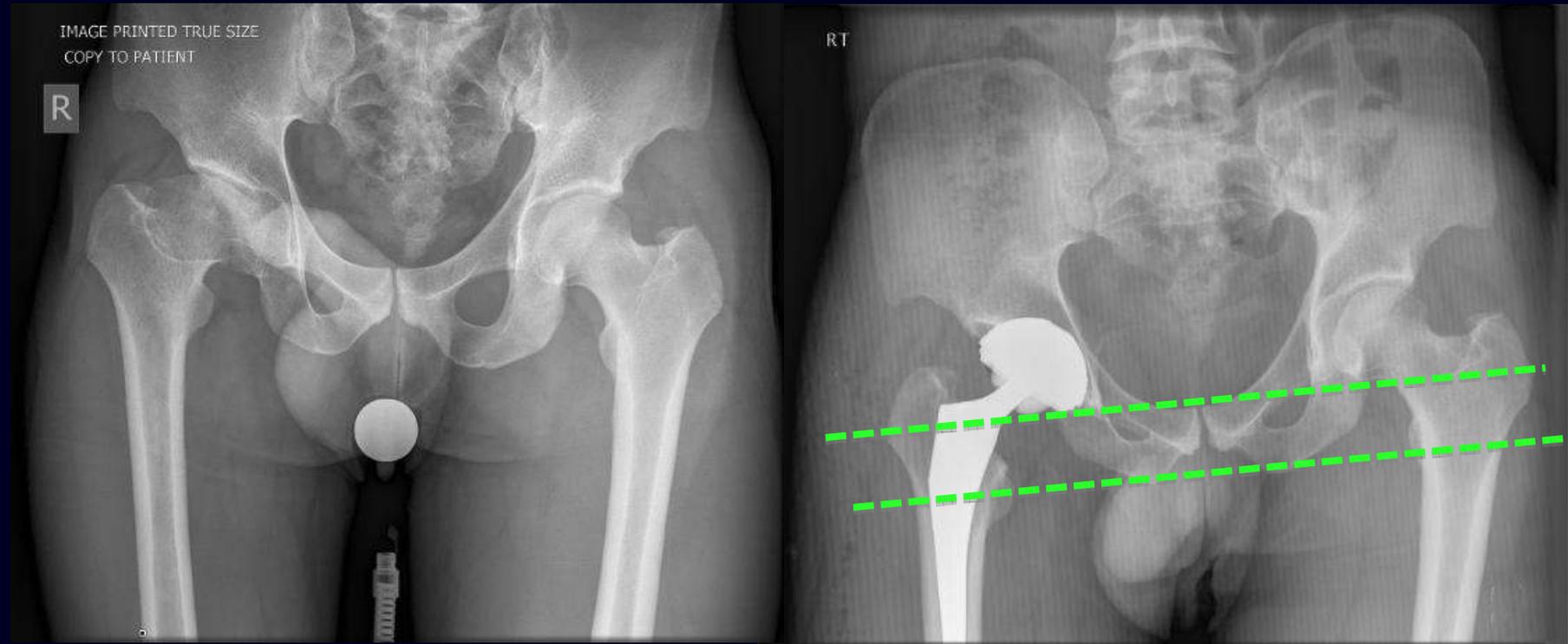
# Acutely shortened



# Chronic shortening CDH



# Perthes



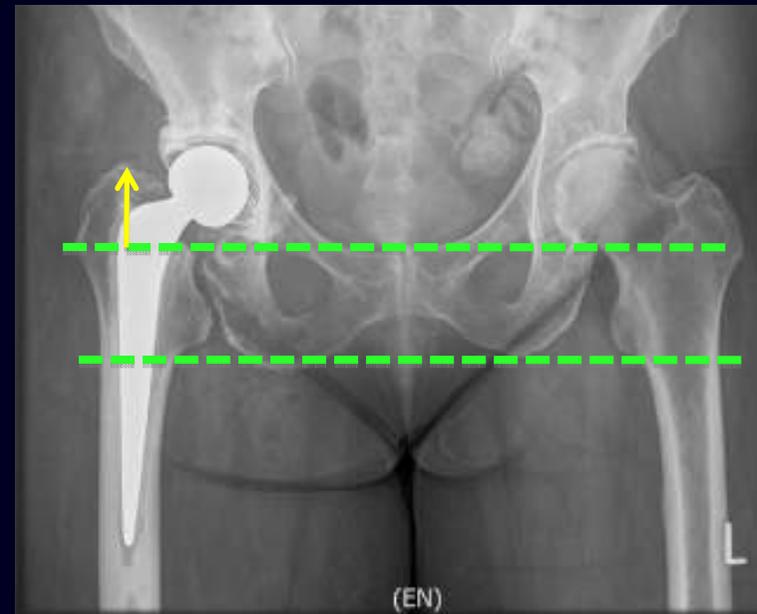
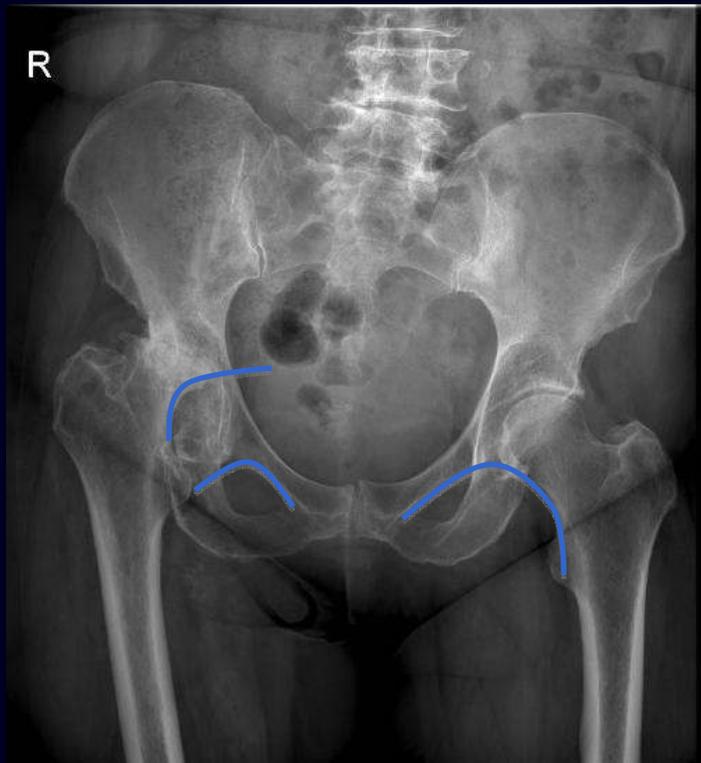
# Symptoms

- Length
- Reduced ROM
- Gait disorder
- Dissatisfaction
- Dislocation
- Back pain
  - Thoracic
  - Lumbar
- Neurologic
  - Paraesthesia
  - Palsy

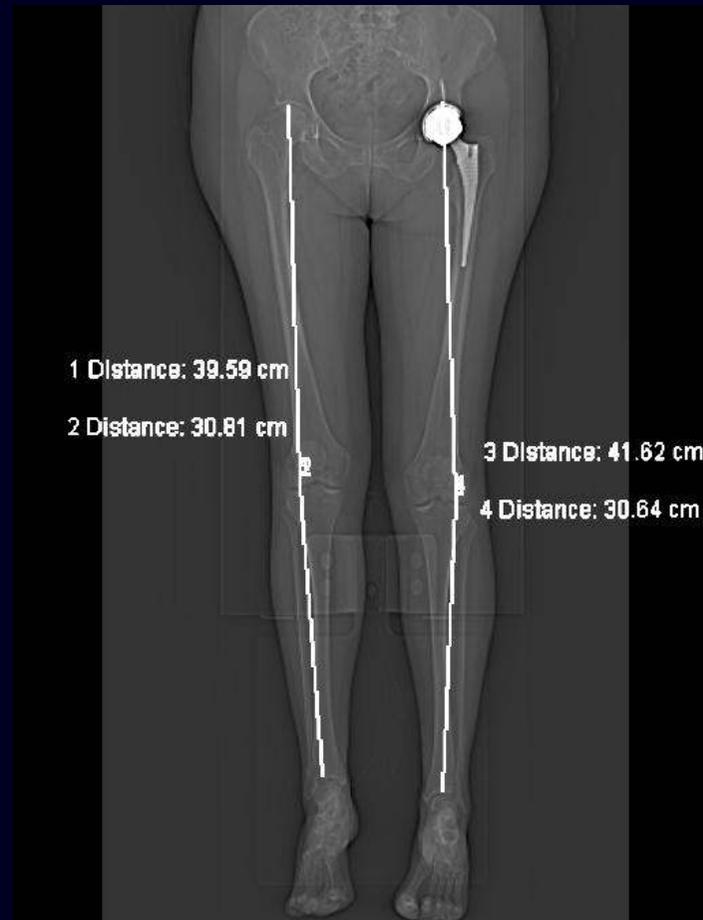
# Evaluation



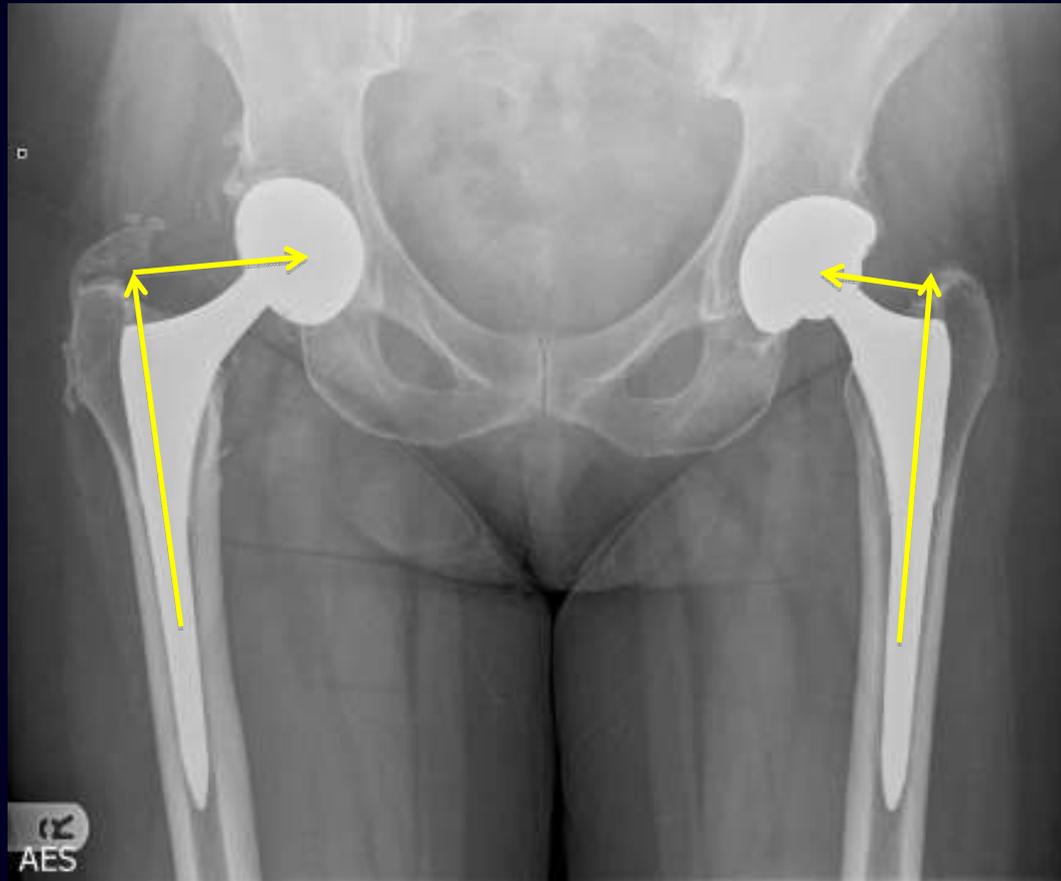
# Evaluation



# Diagnosis

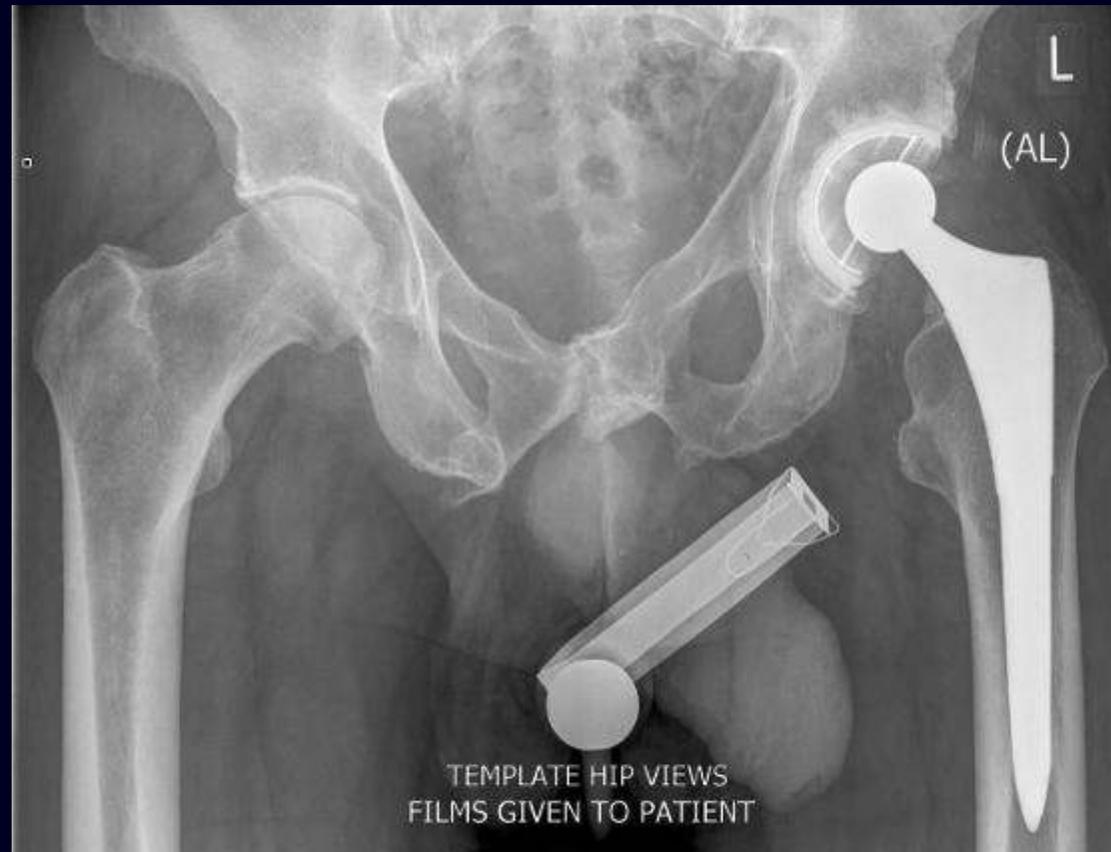


# Offset

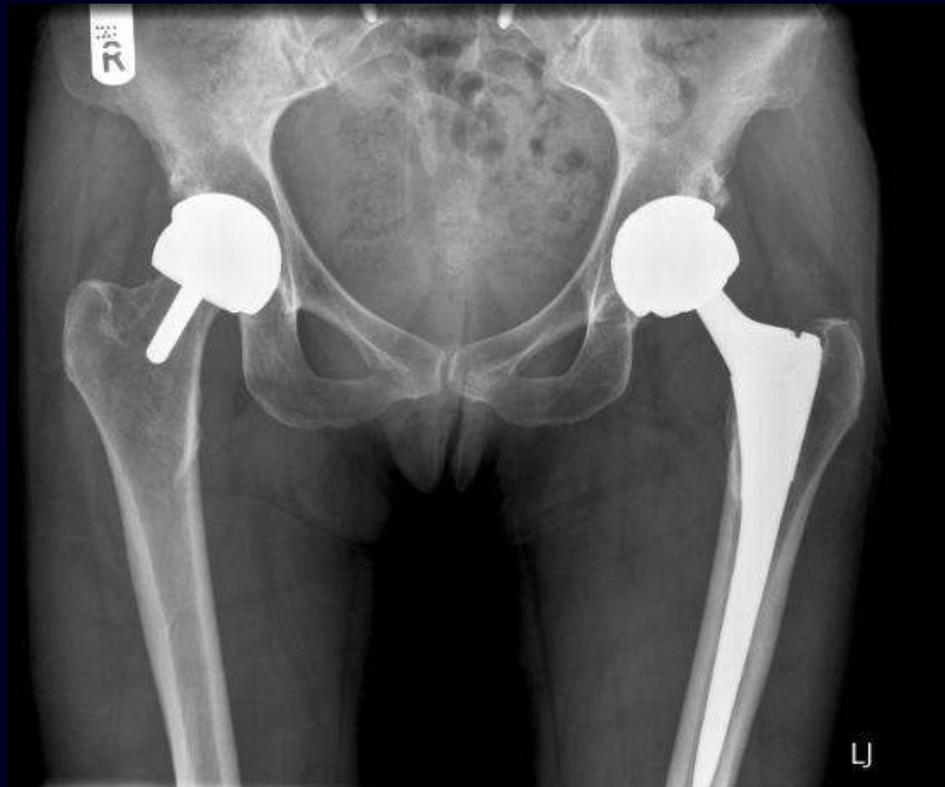


# Offset

- Limitation of uncemented



# Large head hybrids



# Treatment

- Avoidance
- Planning
- Soft tissue balance

# Correction



# Surgical correction

- 21 pts
- 6/7-6yrs
- 2-7cm
- 15 equalised
- 6 <1cm
- Harris Hip score 
- All but 2 satisfied

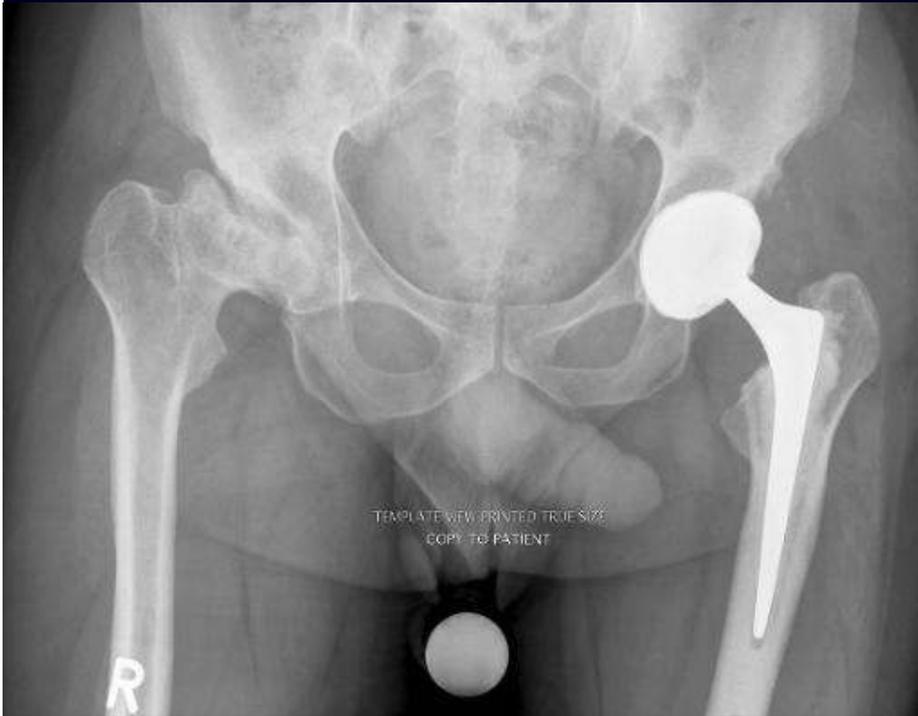
# Undercorrection?



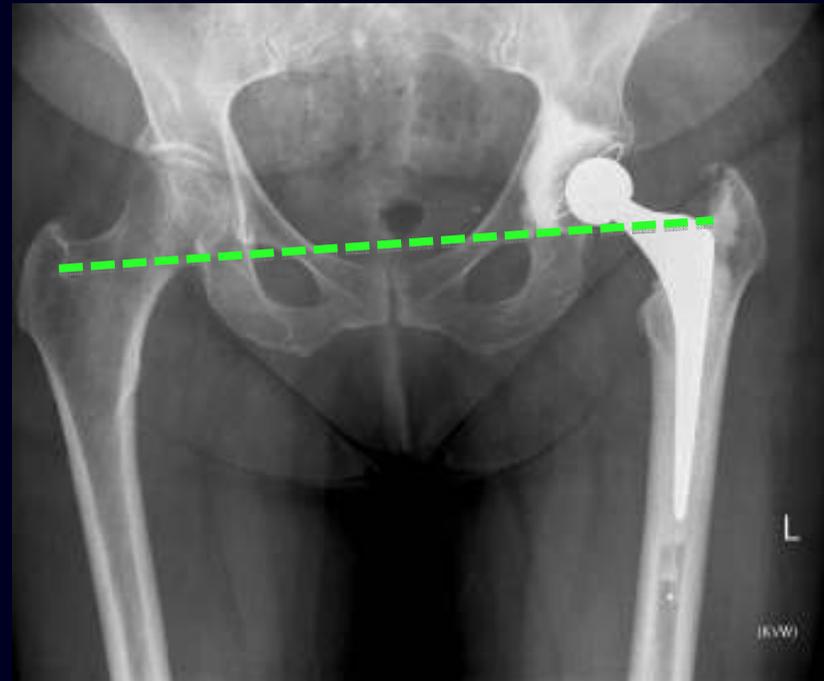
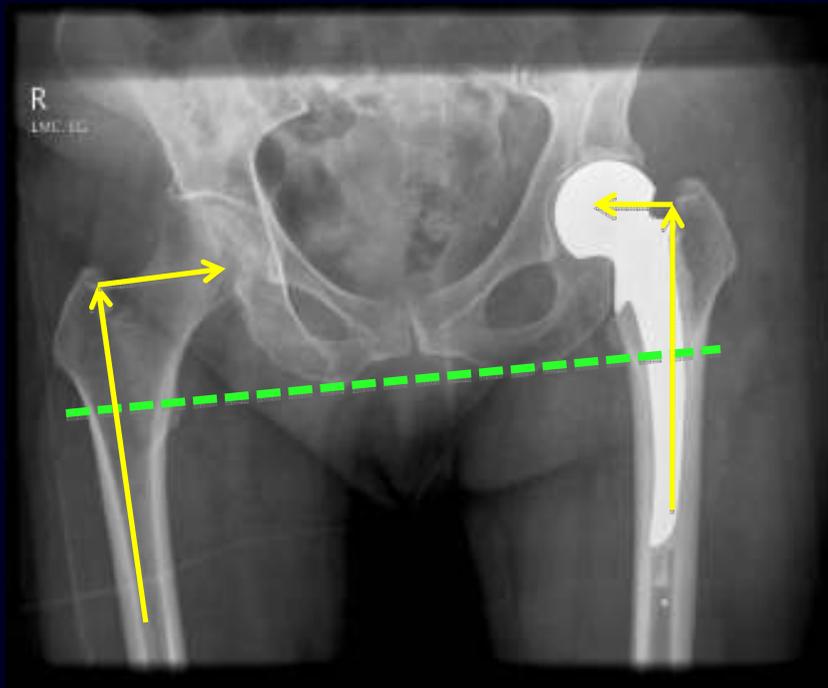
- Acetabular/femoral balancing

# Cemented

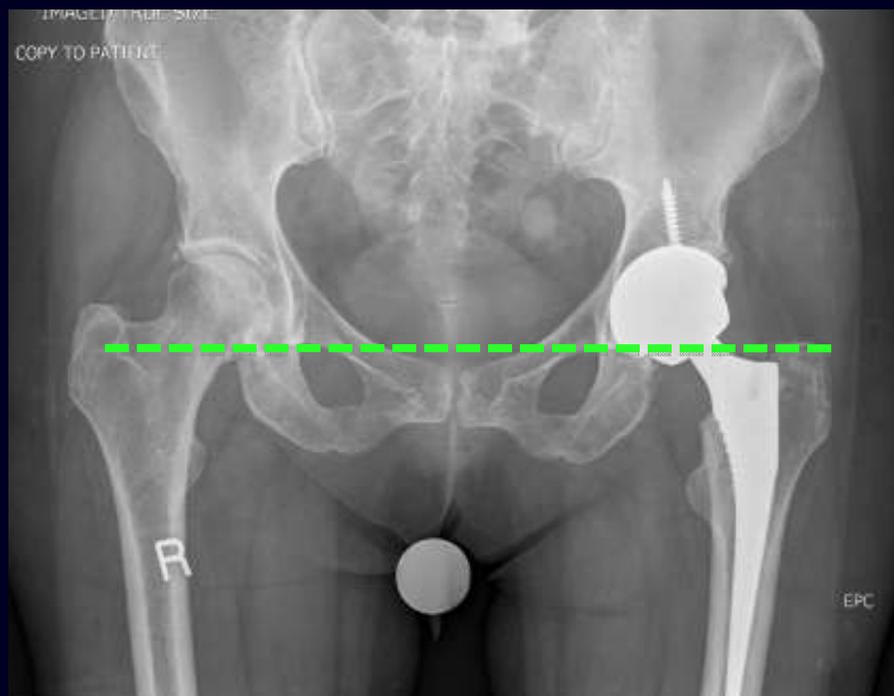




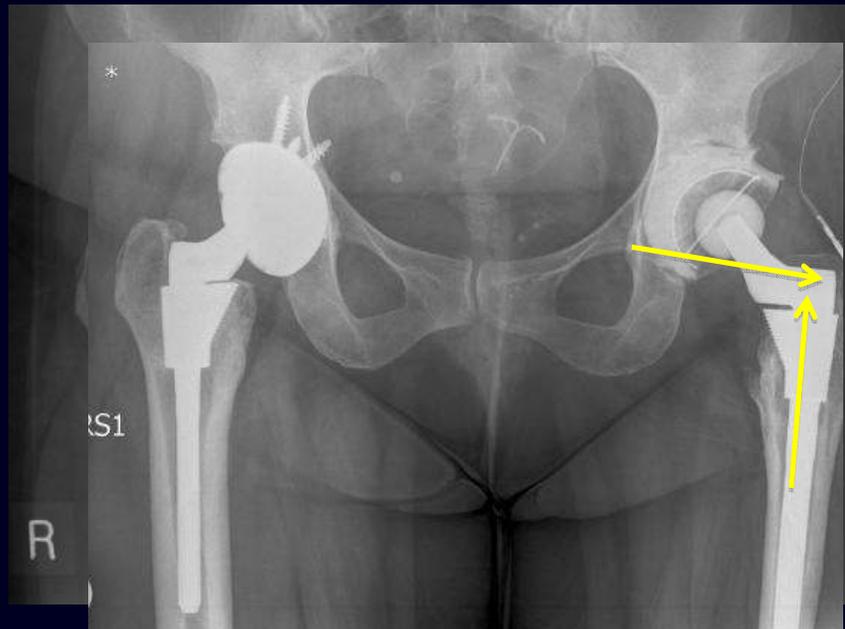
# Shortening / offset



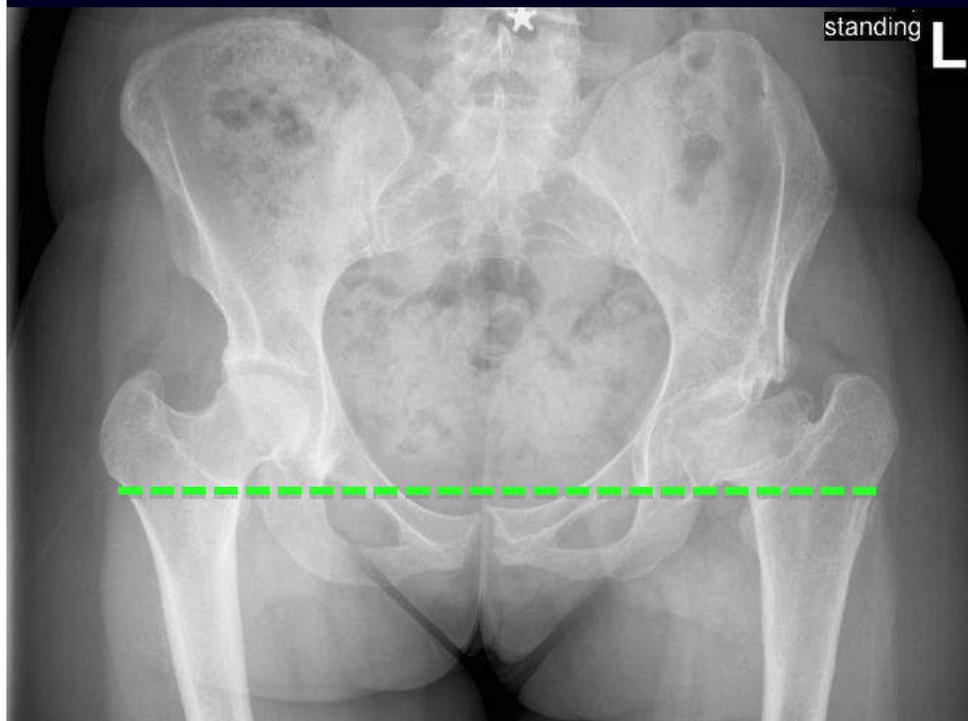
# Large heads



# ROM / offset

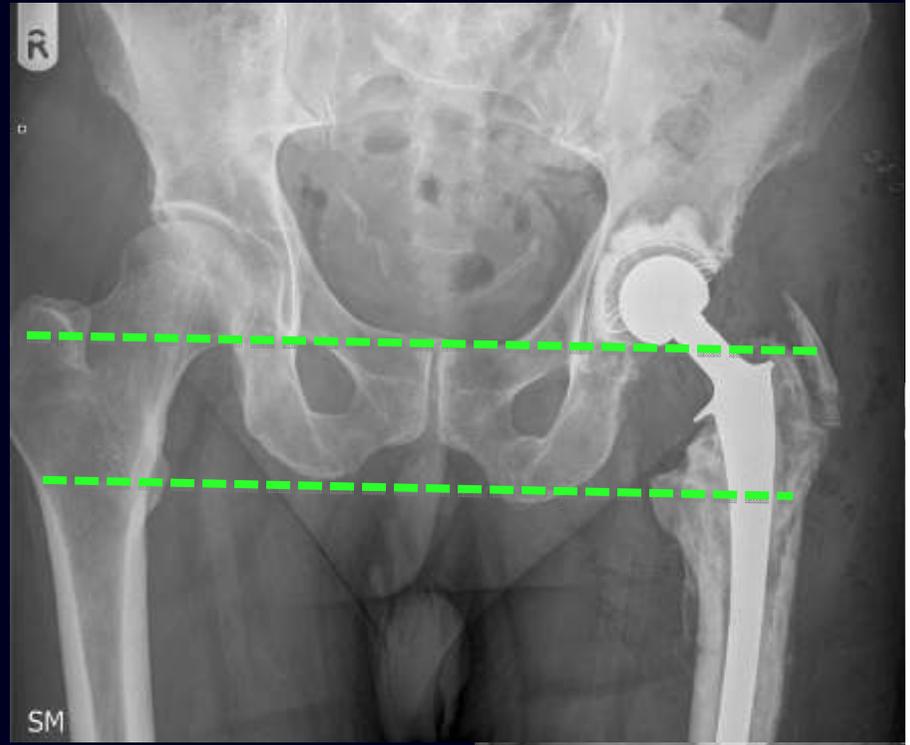
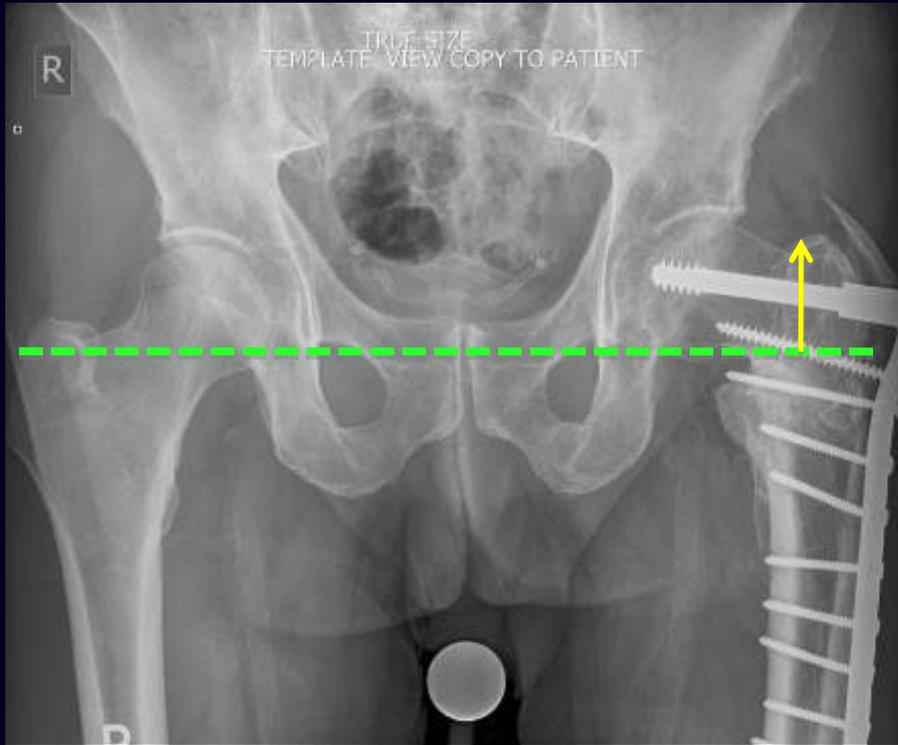


# Nerve injury



# Extra-articular





# Summary

- Avoidance techniques
- Length AND Offset
- Non- Hip causes
- Often rewarding