(Avoiding) The Disaster Total Hip

UCSF Arthroplasty for the Modern Surgeon: Hip, Knee and Health Innovation Technology Course in Sonoma

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Clinical Questions

- BMI cutoff?
- Hgb A1c level or recent blood glucose?
- Anticoagulant of choice?
- Perioperative Pain Cocktail?
- Weight bearing post-op
- Average length of stay
- Out-patient surgery
Trouble Lurking

- Soft tissue injuries
- Acetabulum
  - Superior
  - Lateral
  - Medial
  - Fixation failures
- Femur
  - Stem looks weird
  - Fracture
- Greater trochanter
Trouble Lurking

- 44 y/o male, 6 feet, 240 lb, muscular, h/o bradycardia
- Spinal anesthetic
- Lateral decubitus
- Taking the timeout
- Anesthesia says no pulse

- Treatment?
- Avoidance strategy?
Soft tissues

- Acetabular preparation
- Drill for superior screw
- Significant venous bleeding

- Treatment?
Soft tissues

- Acetabular preparation
- Drill for superior screw
- Arterial bleeding

- Treatment?
- Avoidance strategy?
Soft tissues

- THA for Crowe stage III DDH
- Anticipated leg length gain 1.5 cm
- In recovery room no EHL function

Treatment
- Avoidance strategy
Acetabulum

- Acetabulum
  - Superior
  - Lateral
  - Medial
  - Fixation failures
Tools
52 y/o male cyclist with bilateral ON and severe pain
Post-op
Acetabulum Lateral

55 y/o male with DDH
Acetabulum lateral

55 y/o male

- Acetabular preparation?
  - Screws?
  - Bone graft?

- Bearing choice?
Postop
Acetabulum Medial

84 y/o female
Acetabulum Medial
Post-op

- 3.5 years postop
Acetabulum Post-trauma

52 y/o male h/o MVA
Acetabulum post-trauma

52 y/o male h/o MVA

- Additional imaging?
- Remove acetabular hardware?
- CRP, ESR?
- Special instruments?
- Periop XRT?
- Cannot abduct leg
Acetabulum deficient
Acetabulum

2002: 80 y/o male h/o prostate CA rxd with XRT
Case 7 Acetabulum
Acetabulum more deficient

- Femoral component?
  - Cementless?
  - Cemented?
- Acetabular choices?
  - Reconstruction cage?
  - Large socket?
Case 7 Acetabulum
76 y/o female

- Leave the cup?
What to do first?
My disaster

54 y/o male

- Stem choice?
- Concerns re stem placement?
- Concerns?
- What would you do?
- Same stem design, just get it right?
- Intercalary defect – anything to do?
Is the femur split?

76 y/o female
Pop

55 y/o
Femur

28 y/o short stature

- Femoral component?
Femur
Figs. 199-15A and B: (A) In this image a right total hip is being performed via a posterior approach. To evaluate combined anteverision the surgeon positions the operated leg in extension, and rotates the lower leg internally to 45 degrees. (B) A close-up view of the same right total hip. The femoral head face appears to be parallel to the face of the liner. Note that this does not tell the surgeon anteverision of either the acetabular or femoral component respectively.

[Note: If the pelvis has been appropriately oriented, then additional information may be gleaned by examining the angle of the femoral neck relative to the face of the acetabulum. In the senior author’s opinion if a standard femoral neck (135-degree angle) is used and the prosthetic femoral neck appears perpendicular to the face of the socket then the acetabular inclination should be approximately 45 degrees.]
60 y/o with bilateral THA
Thank you for your attention