

FEMORAL NECK FRACTURE CASES: SCREWS, HEMI, OR THA?

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DISCLOSURES

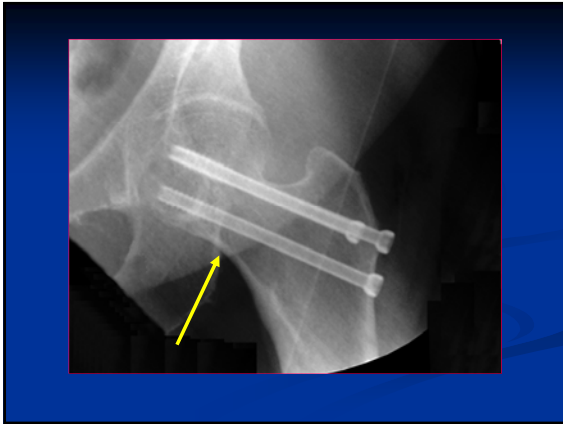
- REVISION TECHNOLOGIES LLC. STOCK
- ROYALTIES DEPUY-SYNTHES, ZIMMER-BIOMET
- FELLOWSHIP SUPPORT SYNTHES

63 MALE VALGUS IMPACTED FRACTURE

POLL
OPEN

1. ORIF WITH THREE SCREWS
 0%
2. ORIF WITH DHS
 0%
3. HEMI
 0%
4. THA
 0%



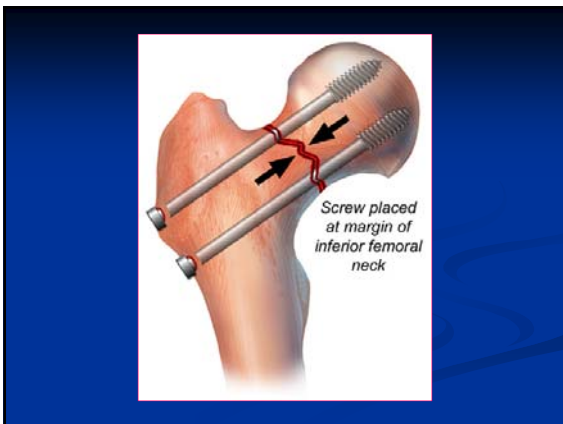


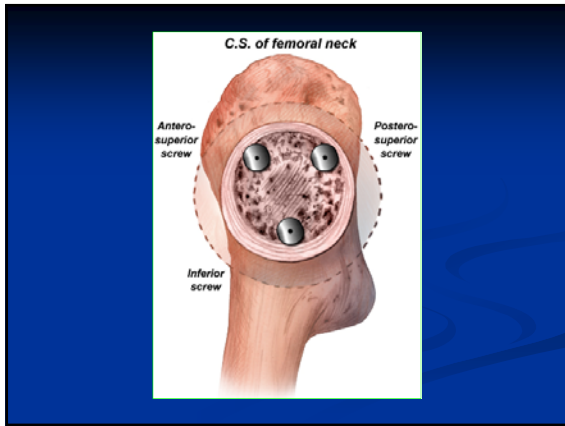
FNFX ORIF OR ARTHROPLASTY?

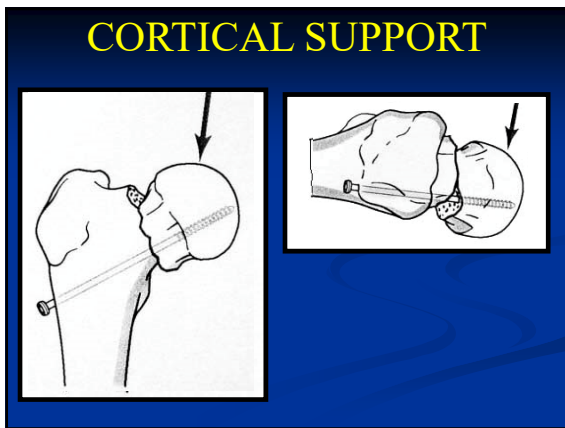
- CAREFUL ATTENTION TO SCREW PLACEMENT IS IMPORTANT

PERIPHERAL CALCAR SUPPORT ABOVE LESSER TROCHANTER

A lateral X-ray of a femoral neck fracture. Two screws are visible. A red arrow points to the inferior screw, which is positioned higher in the neck, above the lesser trochanter, providing peripheral calcar support.








68 MALE HEALTHY, FELL ON CRUISE SHIP. HTN.

POLL OPEN


1. ORIF THREE SCREWS 0%
2. ORIF DHS 0%
3. HEMIARTHROPLASTY 0%
4. TOTAL HIP ARTHROPLASTY 0%



COMPONENT FIXATION OPTIONS:

POLL OPEN


1. CEMENTED FEMUR AND CUP
0%
2. CEMENT THE FEMUR AND PRESS FIT
0%
3. THE CUP
0%
4. UNCEMENTED FEMUR AND CUP
0%



SURGICAL APPROACH CHOSEN:

POLL OPEN

1. POSTERIOR
0%
2. DIRECT LATERAL
0%
3. DIRECT ANTERIOR
0%
4. TWO-INCISION
0%



CHOICE OF BEARING?

POLL OPEN



1. CONSTRAINED LINER
0%
2. CERAMIC ON POLY LARGE HEAD
0%
3. METAL ON POLY LARGE HEAD
0%
4. DUAL MOBILITY
0%

MOST COMMON COMPLICS

- 1. INSTABILITY
- 2. INTRAOPERATIVE FEMUR FRACTURE
- 3. INFECTION



TECHNICAL TIPS:

- USE APPROACHES THAT MINIMIZE RISK OF DISLOCATION
- USE SCREWS TO SUPPLEMENT CUP FIXATION
- BE CAREFUL WITH FEMORAL PREPARATION, LOW THRESHOLD TO CEMENT FEMUR OR USE PROPHYLACTIC CERCLAGE CABLE
- USE LARGE HEADS OR DUAL MOBILITY TO MINIMIZE DISLOCATION

76 ACTIVE HEALTHY FEMALE LIVES ALONE

POLL OPEN

FELL AT WALMART

- 1. ORIF THREE SCREWS 0%
- 2. ORIF DHS 0%
- 3. HEMI 0%
- 4. THA 0%






THA
ANTEROLATERAL APPROACH
SCREWS IN CUP
NO CEMENT USED
LARGE HEAD CERAMIC ON POLY

DISLOCATION


- **WHY?**
- **NOT STIFF**
- **GET MOTION EARLY**
- **FALLS**
- **COMPLIANCE**
- **DEMENTIA?**



DEMENTED 78 M LIVES IN NURSING HOME MINIMAL AMBULATOR SEVERE PARKINSON'S


POLL OPEN


1. ORIF THREE SCREWS 0%
2. ORIF DHS 0%
3. HEMI 0%
4. THA 0%



COMPONENT FIXATION AND TYPE? POLL OPEN

1. CEMENTED BIPOLAR 0%
2. UNCEMENTED BIPOLAR 0%
3. CEMENTED UNIPOLAR 0%
4. UNCEMENTED UNIPOLAR 0%






TECHNICAL TIPS:

- APPROACHES THAT MINIMIZE DISLOCATION
- LOW THRESHOLD TO CEMENT FEMORAL COMPONENT
- BOTH BIPOLAR AND UNIPOLAR WORK WELL
- CLEAN AND DRY CANAL WELL TO AVOID EMBOLISM
- ADD ANTIBIOTICS TO CEMENT

89 WOMAN ASSITED LIVING USES WALKER DUE TO BALANCE PROBLEMS COPD, CAD, HTN POLL OPEN

1. ORIF WITH THREE SCREWS 0%
2. ORIF WITH DHS 0%
3. THA 0%
4. HEMIARTHROPLASTY 0%





TAKE HOME POINTS

- FOR VALGUS IMPACTED FRACTURES
- ACCURATE SCREW PLACEMENT
- START ABOVE LESSER TROCHANTER
- LOW RATE OF FAILURE

TAKE HOME POINTS

- THA PROVIDES BEST FUNCTION FOR ACTIVE PATIENTS
- HEMI DOES WELL FOR MOSTLY SEDENTARY, INSTITUTIONALIZED
- AVOID DISLOCATION, INFECTION, AND INTRAOPERATIVE FEMUR FRACTURES