Smashed Distal Humerus Fractures-REPLACE

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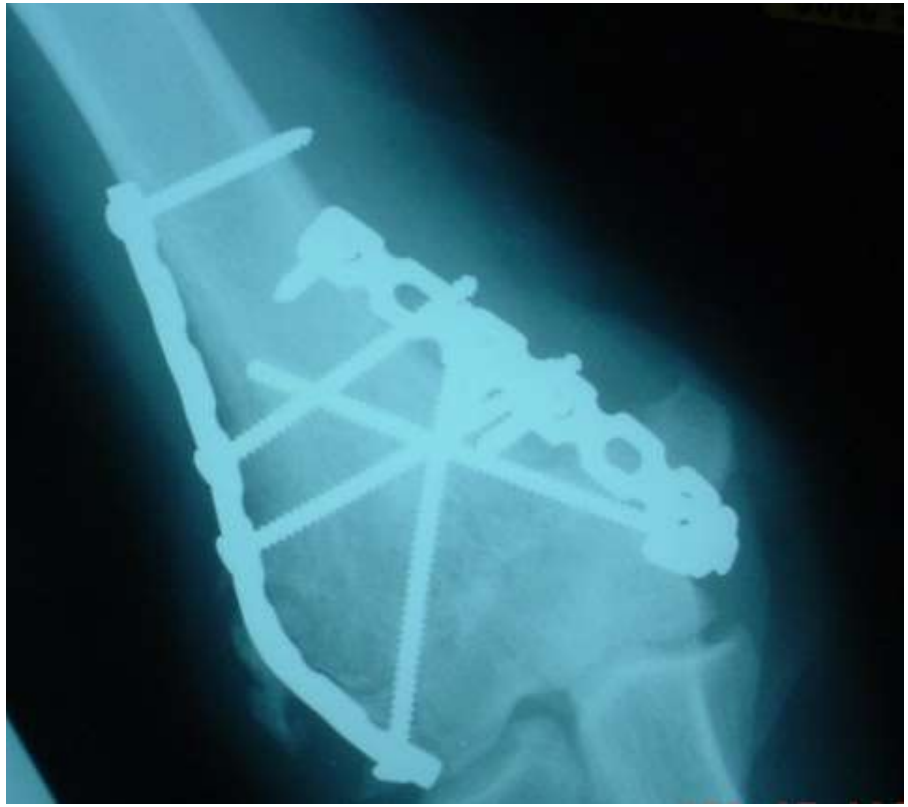
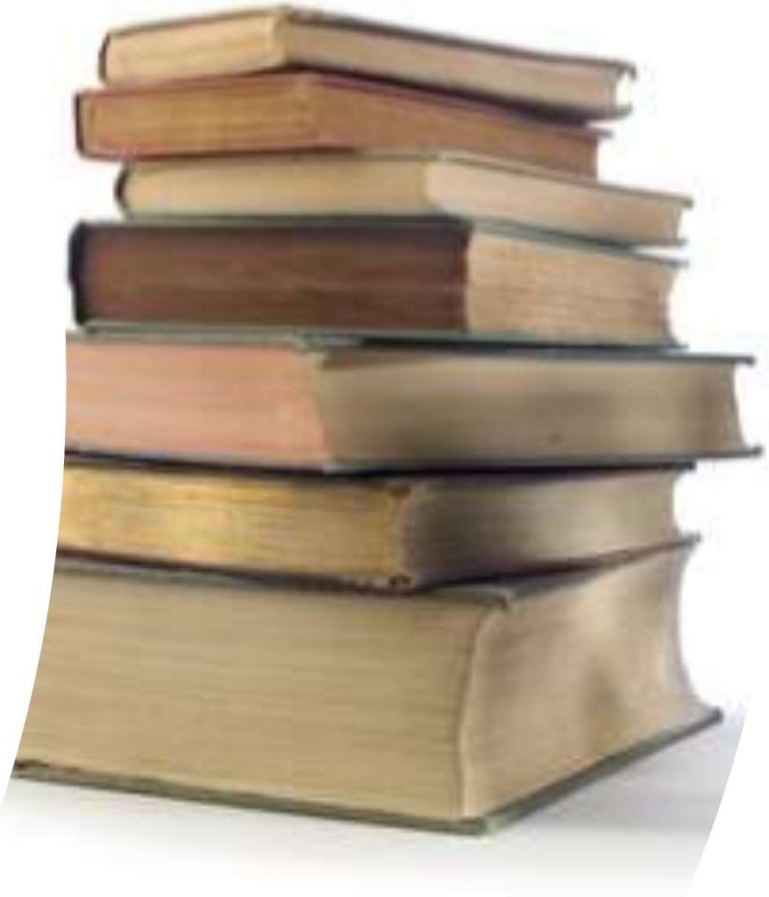
Disclosure

- DJO
  - Speaker, Consultant
  - Royalties
  - Research Support
- Biomet
  - Speaker ,Knee Consultant
  - Research Support
- Flower Orthopaedics
  - Speaker, Consultant
  - Design Team Upper Extremity Plate System
- Trice Medical
  - Consultant
  - Stock Options
  - Strategic Advisory Board
  - Business Planning Board

GOALS OF FRACTURE SURGERY

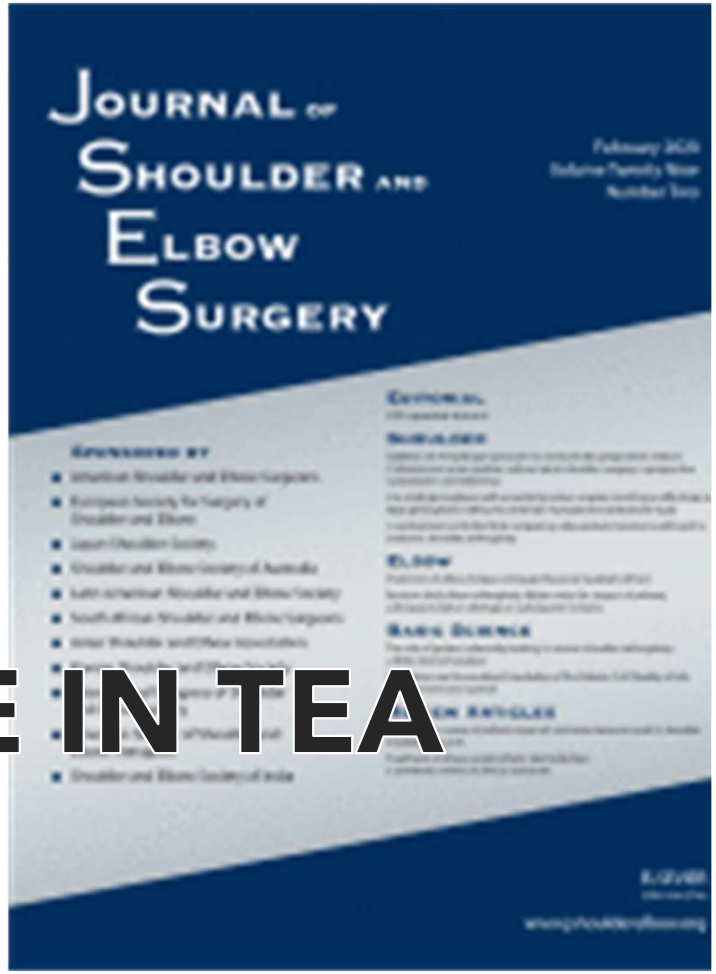
- UNION
- LACK OF PAIN
- FUNCTION
- LACK OF COMPLICATIONS





What's the TREND ?

2.6 FOLD INCRERASE IN TEA



Mckee,et.al 2009

- Multicenter study
- ***<u>Randomized , Prospective</u>***
- Comminuted fxs
- Age > 65
- 42 Patients
- f/u 2 years

Mckee et. al. 2009

- ORIF
  - ***<u>27 % Reoperation</u>***
  - ROM ARC 95 degrees
- TEA
  - 12% Reoperation
  - ROM ARC 107 Degrees
  - DASH Score higher

Best for fractures not amenable to ORIF

Frankle,et.al. 2003

- ***Randomized, Prospective study***
- C2/C3 Fractures
- Women Age > 65
- 12 – ORIF, 12 – TEA
- 2 year follow up

Frankle et.al.

- ORIF
  - 1 FAIR, 3 POOR
  - ***<u>3 REVISIONS TO TEA</u>***

- TEA
  - 11 EXCELLENT, I GOOD
  - ***<u>NO REVISIONS</u>***
  - IMPROVED MAYO ELBOW SCORE

“GO GET A SWITCH TO BEAT YOUR OWN ASS WITH “

DBV

Prascal et.al. 2016

- 19 patients
- TEA for fx
- ***<u>Min f/u 10 years</u>***
- Results
  - 2 Revisions
  - 1 two stage for infection
  - 6 bushing wear or aseptic loosening

JB&JS

$16,358

ACE
Hardware

ACE
Hardware

What do I do ?

- ***ORIF if it's reconstructable***
- Factors favoring ORIF
  - Activity
  - Good bone quality
  - Less articular comminution
- TEA
  - Elderly
  - Low demand
  - Severe comminution – ***NOT Reconstructable***
  - Osteoprosis

Conclusion- Patient and fx specific treatment wins

THANK YOU!