

# **Reverse TSA for Fracture Dislocations in the Young (<60 yrs) Patient**



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# I (and/or my co-authors) have something to disclose.

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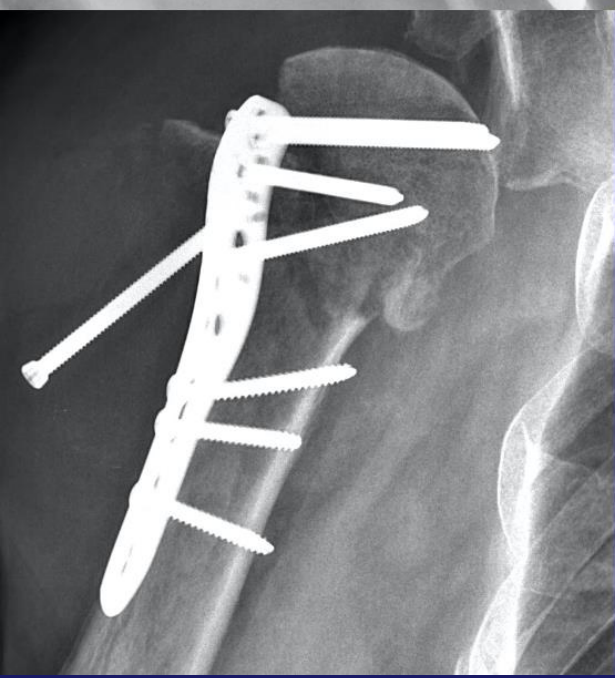
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<http://www.aaos.org/disclosure>



# **Reverse Shoulder Arthroplasty; Indications**

- **Fracture-dislocations in the older (?) patient**
- **Iatrogenic fracture-dislocations**
- **Prior shoulder OA / cuff pathology**
- **Failed fracture Rx (operative/ non-operative)**
- **Failed hemi-arthroplasty**

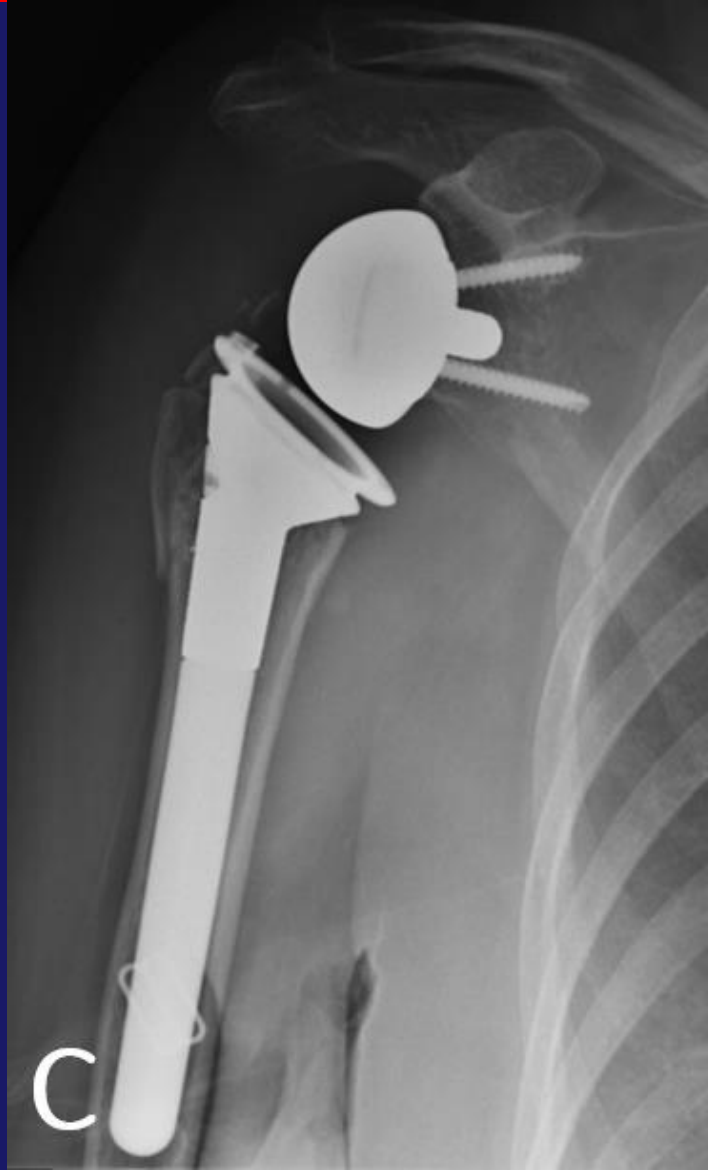
**How young is too young  
for RTSA?**



**58 yr old female, diabetic,  
smoker, co-morbidities**



# Reverse TSA



# 56 yr old head split





> [J Shoulder Elbow Surg.](#) 2014 Mar;23(3):395-400. doi: 10.1016/j.jse.2013.07.047.

Epub 2013 Oct 12.

# Clinical outcomes of reverse total shoulder arthroplasty in patients aged younger than 60 years

Robert A Sershon<sup>1</sup>, Geoffrey S Van Thiel<sup>2</sup>, Emery C Lin<sup>2</sup>, Kevin C McGill<sup>2</sup>, Brian J Cole<sup>2</sup>,  
Nikhil N Verma<sup>2</sup>, Anthony A Romeo<sup>2</sup>, Gregory P Nicholson<sup>2</sup>

Affiliations + expand

PMID: 24129052 DOI: [10.1016/j.jse.2013.07.047](#)

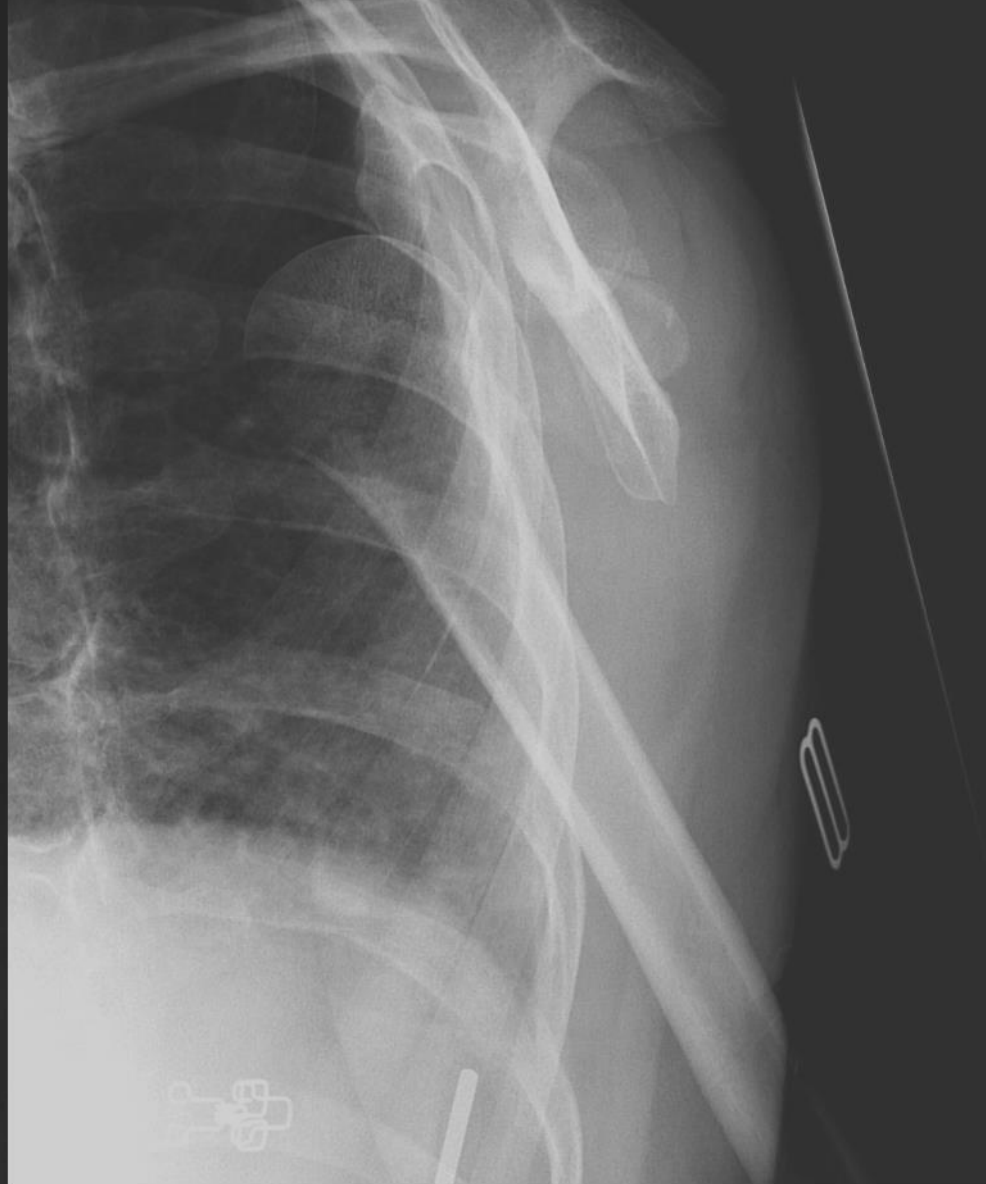
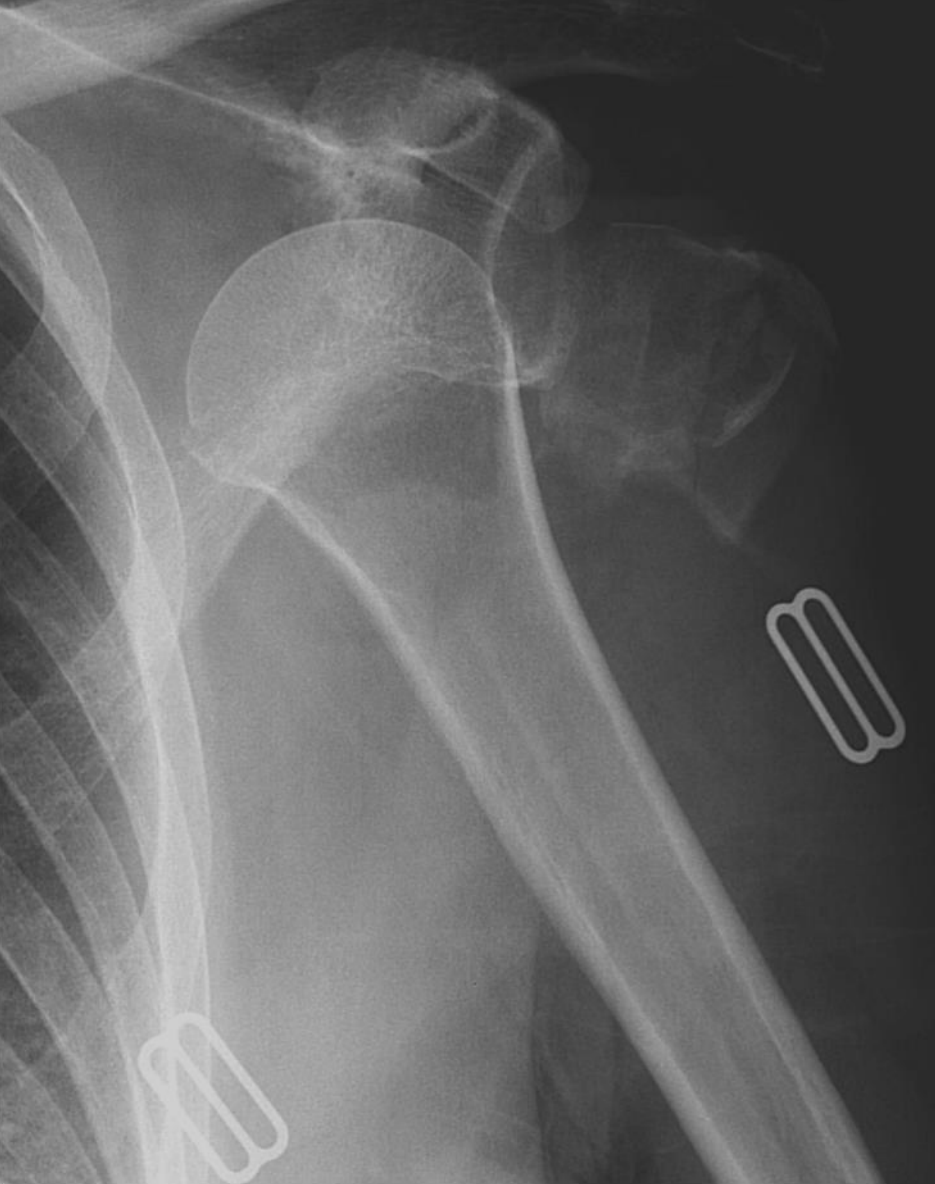
ASES score improved from 31.4 to 65.8

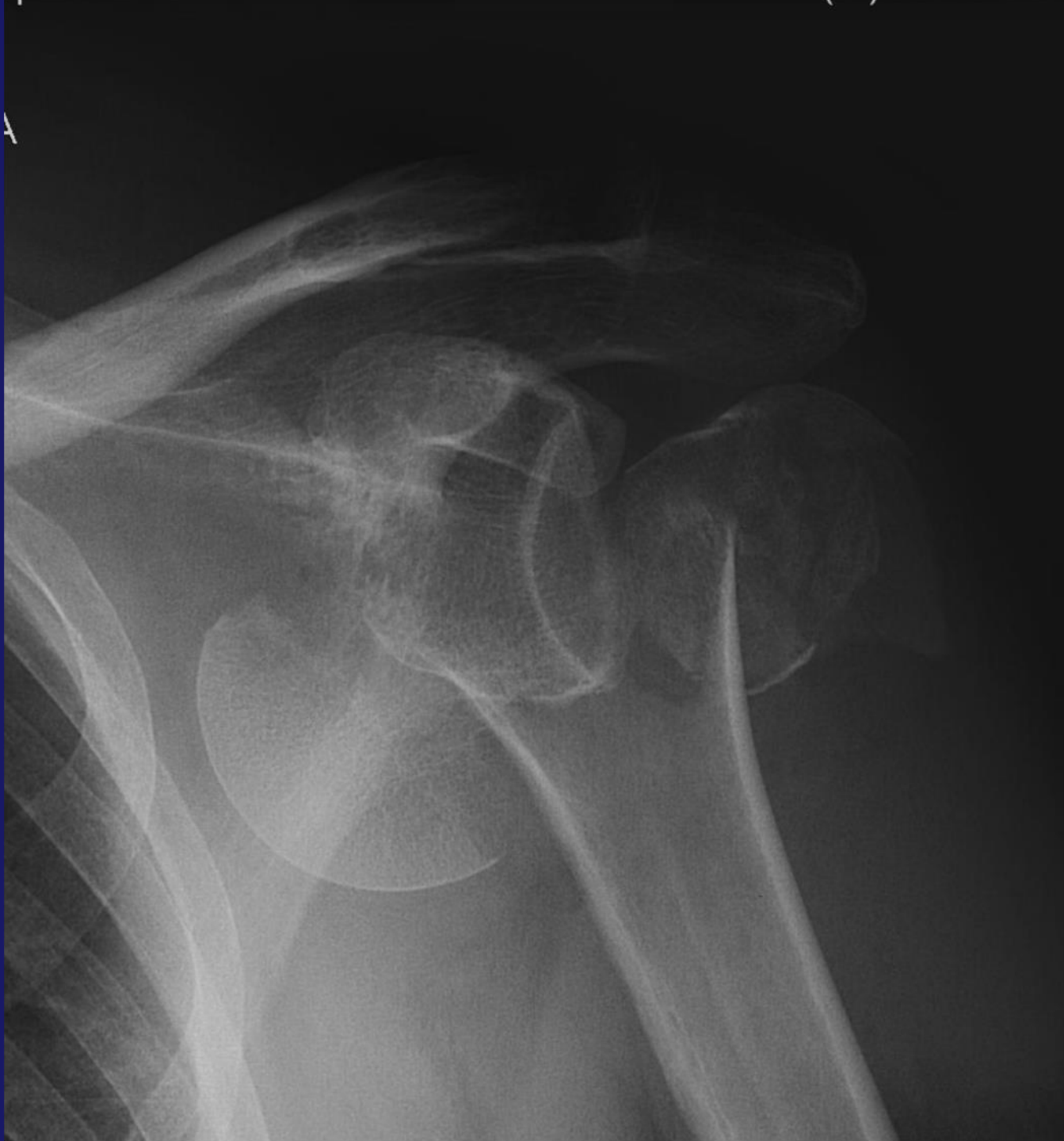
Active forward elevation improved from 56 to 121°

“Salvage” cases with a significant complication rate

# **Iatrogenic Fracture- Dislocation**

# 60 yr old male, injured while body-surfing



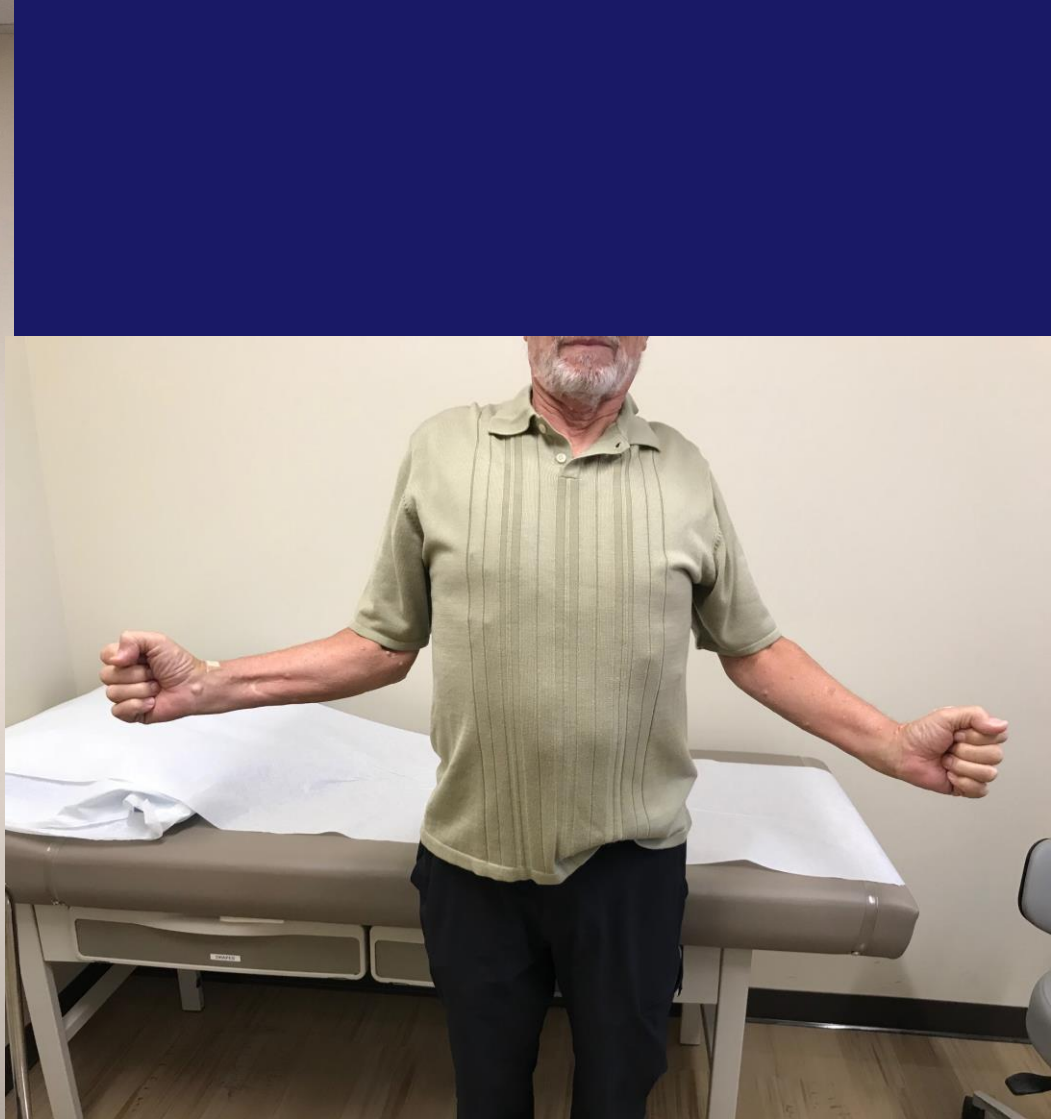
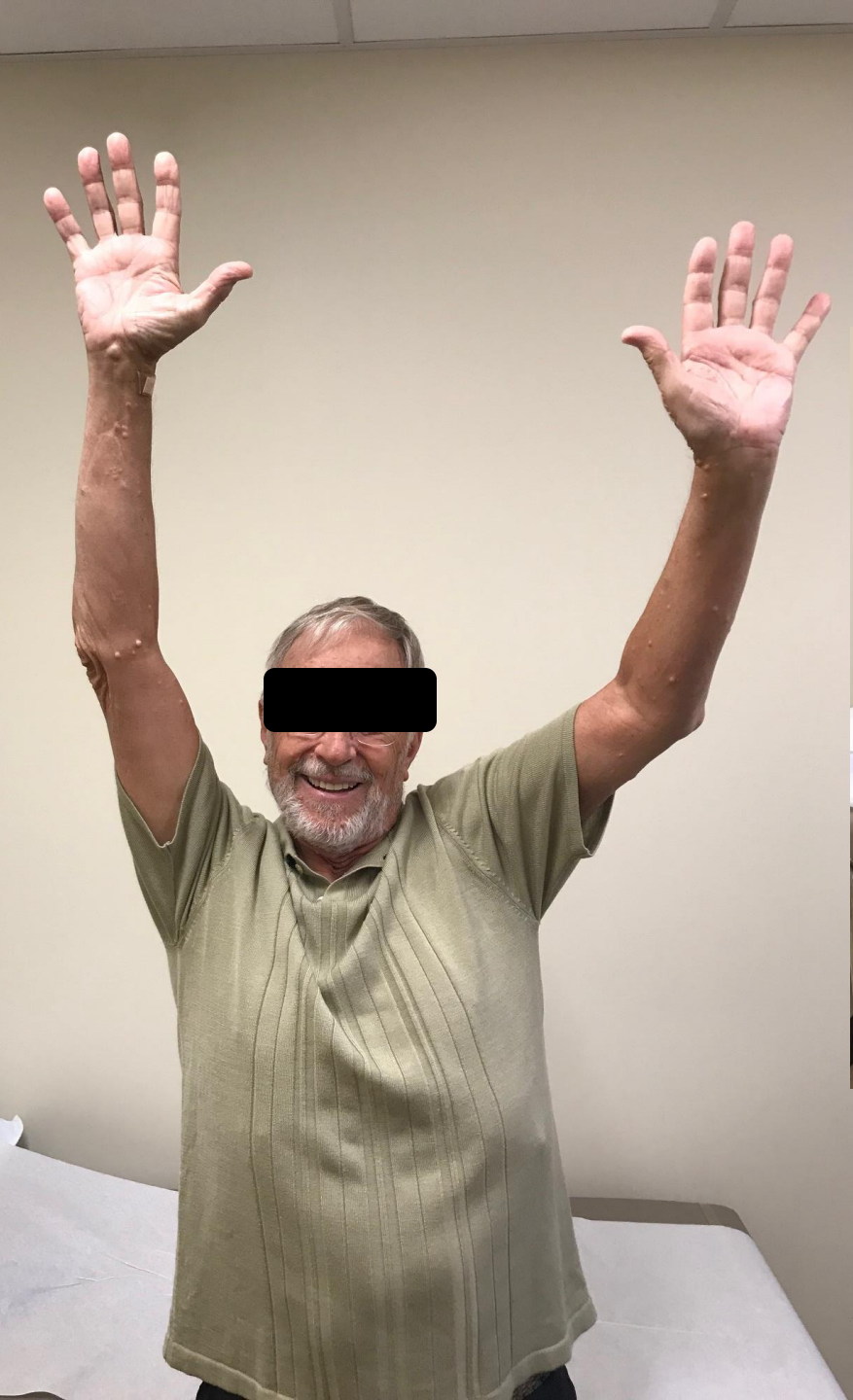




# **Iatrogenic Humeral Head Fracture**

- **Hersche E, Gerber C. Iatrogenic displacement of fracture-dislocations of the shoulder. A report of seven cases. JBJS 1994**
- **Atoun E, et. al. Management of First-Time Dislocations of the Shoulder in Patients Older Than 40 Years: The Prevalence of Iatrogenic Fracture. JOT 2013**
- **14 patients, all had “poor” results:**
  - **ORIF – nonunion, AVN**
  - **Hemiarthroplasty - stiffness, tuberosity pull-off**

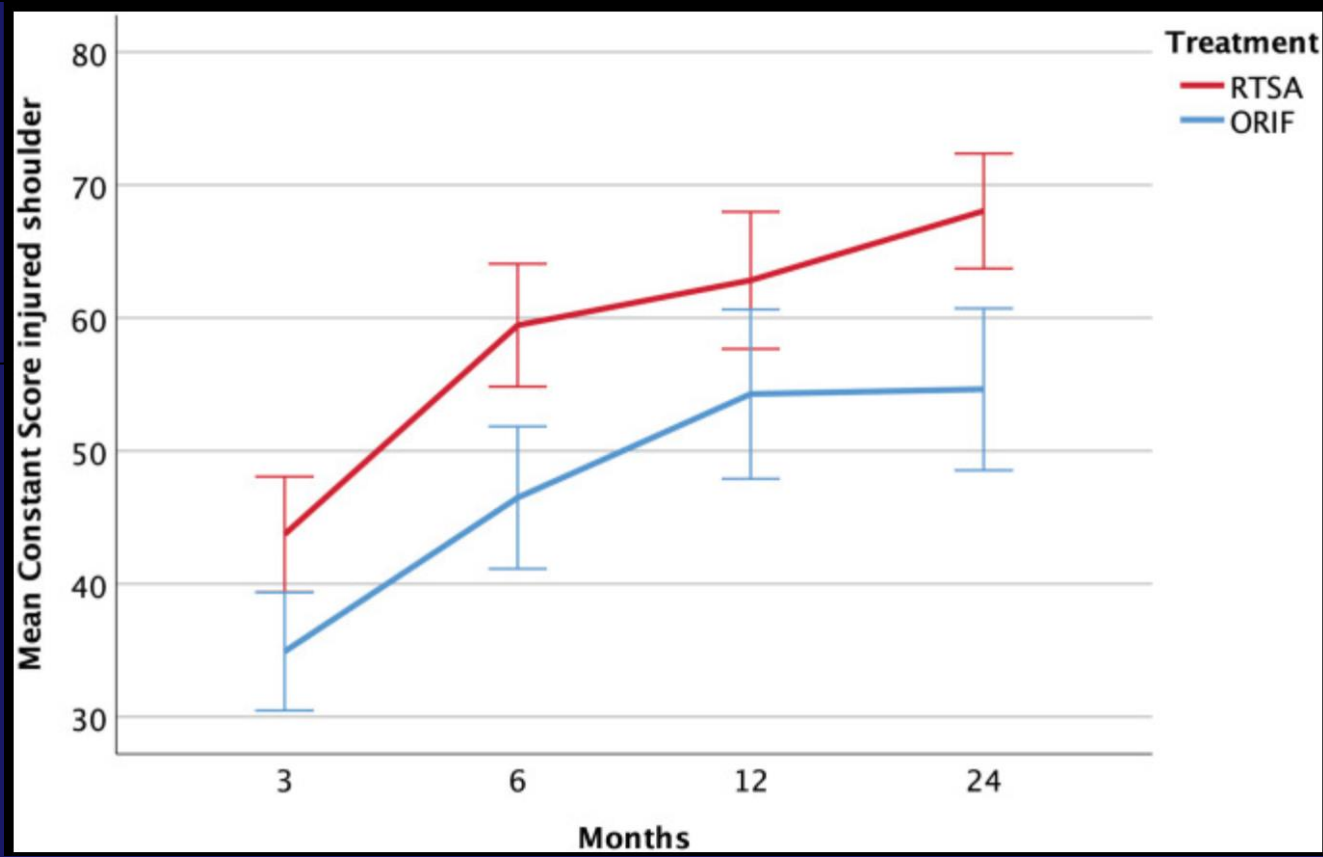




doi: 10.2106/JBJS.19.01071.

# Reverse Shoulder Arthroplasty Is Superior to Plate Fixation at 2 Years for Displaced Proximal Humeral Fractures in the Elderly: A Multicenter Randomized Controlled Trial

124 patients over 65 years  
Constant scores better in  
RTSA group





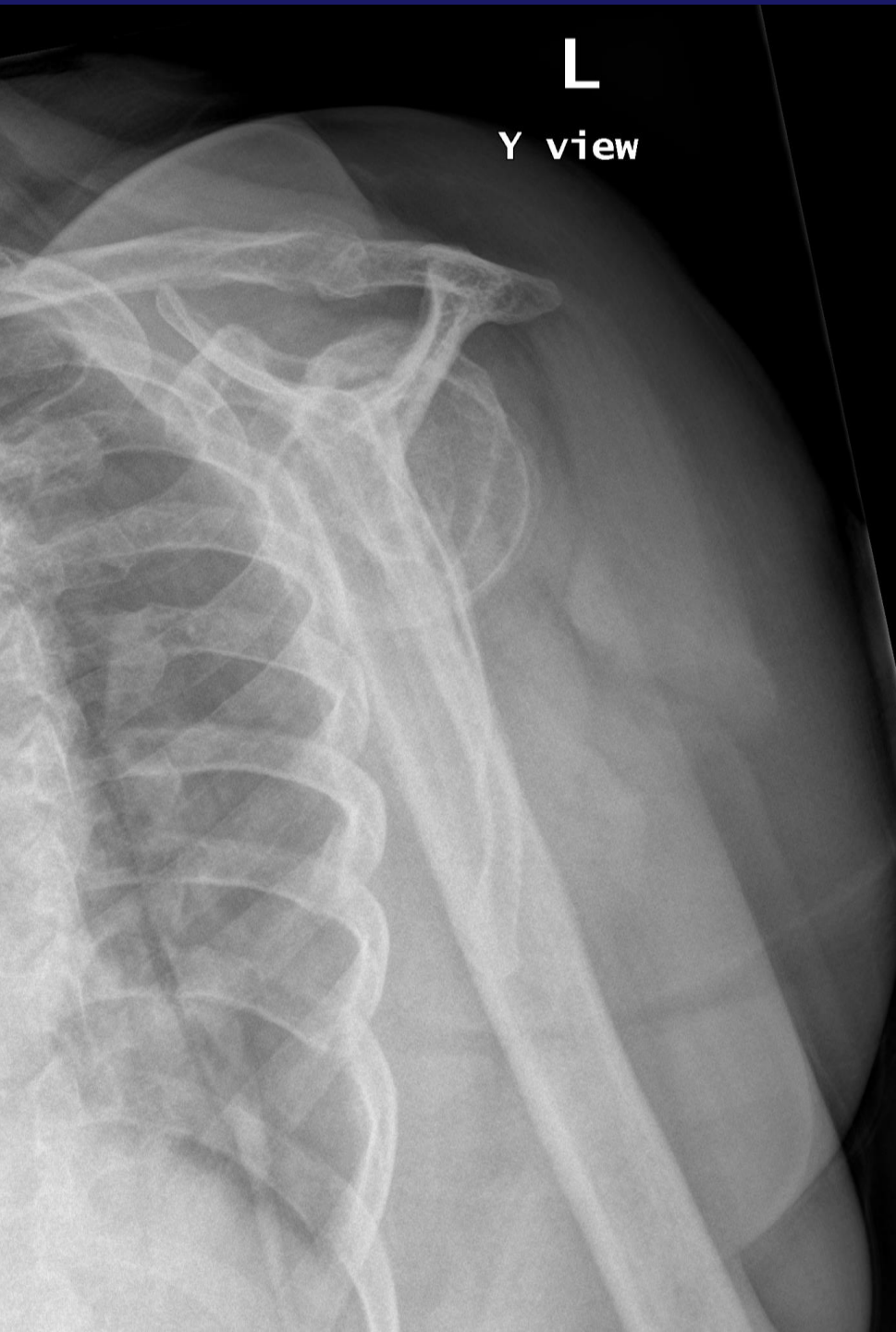
**Prior Shoulder Pathology**

**Failed Primary Treatment**

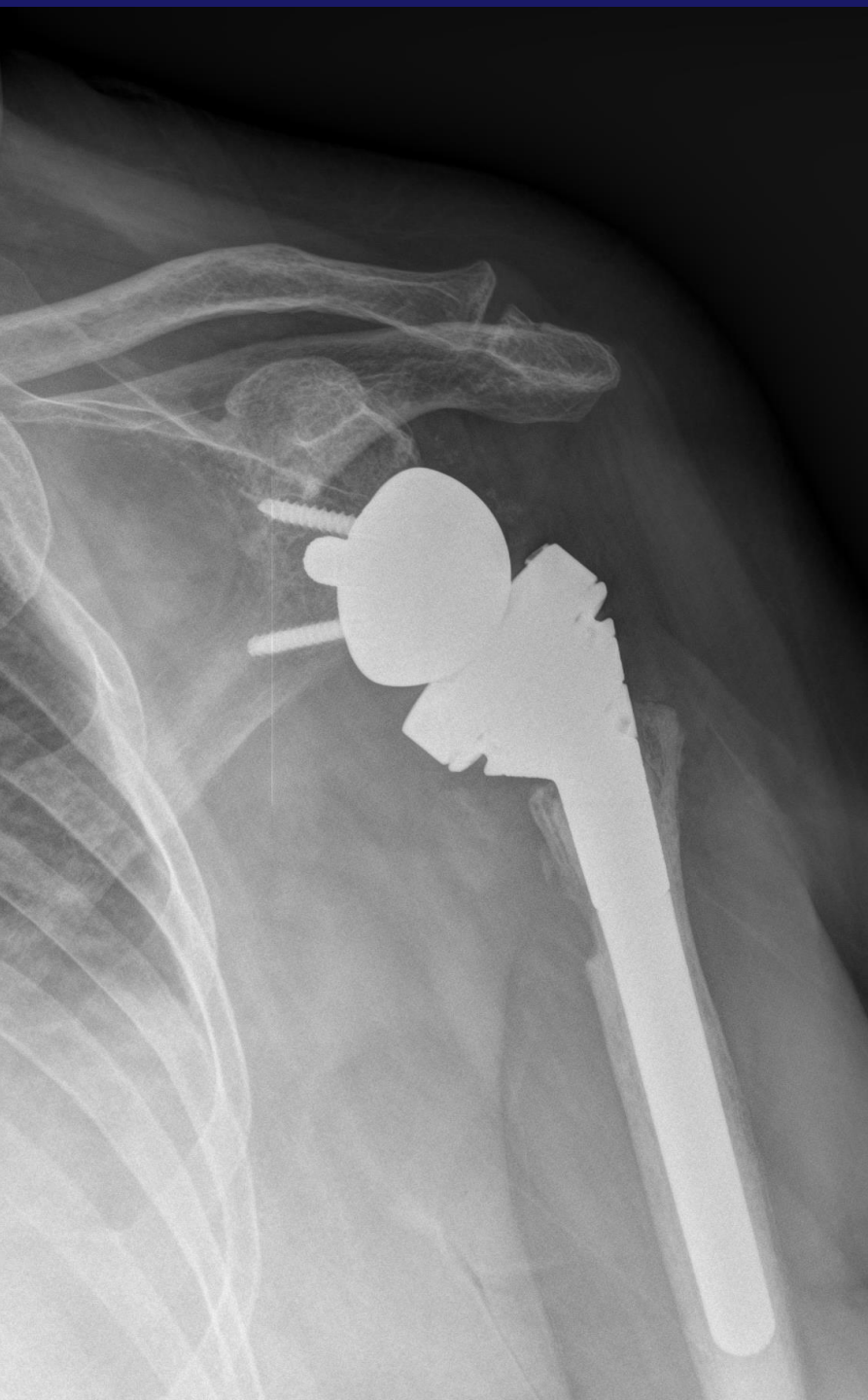
# **64, pre-existing OA with glenoid erosion, proximal humeral fracture**











L



# Reverse shoulder arthroplasty as a salvage procedure after failed internal fixation of fractures of the proximal humerus: outcomes and complications

[M M Hussey](#)<sup>1</sup>, [S E Hussey](#)<sup>2</sup>, [M A Mighell](#)<sup>3</sup>

Affiliations + expand

PMID: 26130354 DOI: [10.1302/0301-620X.97B7.35713](#)

**Free article**

- Mean age 66 yrs (52-82 yrs)
- ASES 28 to 50
- Flexion 58 degrees to 101 degrees
- 76% good or excellent
- High complication rate

# Hemi-arthroplasty?

**45 yr old male, fell while  
running to catch train**





# Hemiarthroplasty: 15 years later



# “Platform” Stems



# “Platform” Stems



# Conclusions

- RTSA for patients < 60 in specific situations
  - Iatrogenic fracture-dislocations
  - Failure of primary fracture treatment
  - Pre-existing damage (cuff, glenoid, etc)
  - Failed hemi-arthroplasty
- Hemi-arthroplasty an option in 2023 for young patients
- Use a “platform” stem