



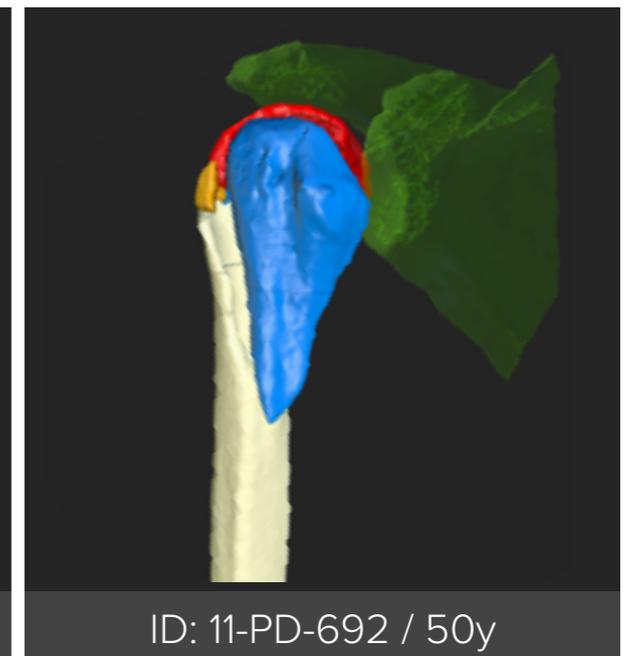
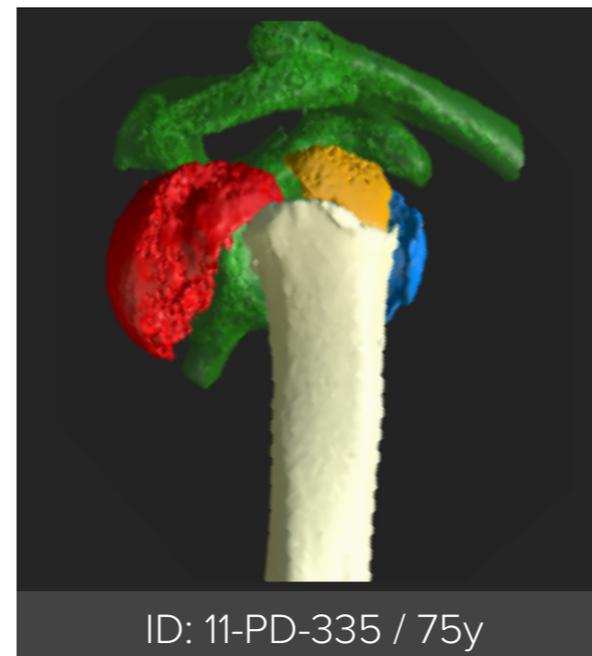
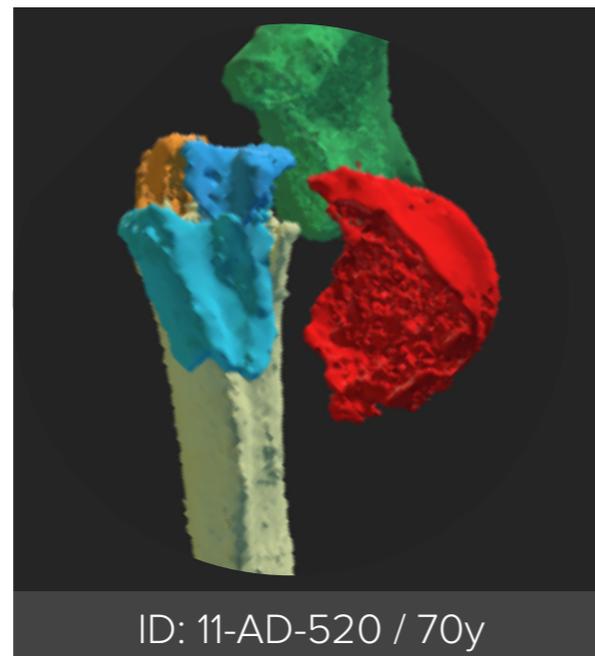
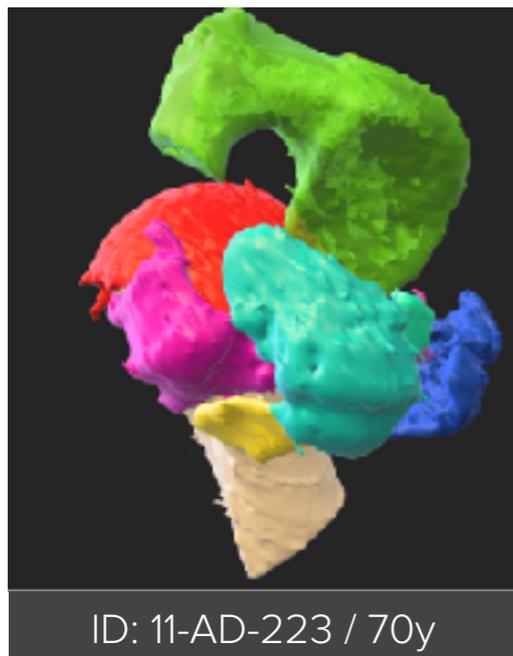
DISLOCATED SPLIT-HEAD PROXIMAL HUMERUS FRACTURES

A. Fernández, J. Jupiter

Is there a high **AVN** risk:

- in anterior dislocations?

- in posterior dislocations?

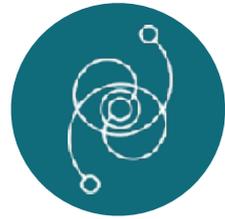


May 3D interactive colored models analysis help in the AVN forecast, and pre-op planning, for each case?

Rather than oversimplifying rules?

Start-to-finish full HD data from each case is available at icuc.net

4 cases of Dislocated Split-Head proximal humerus fractures were found in ICUC database at October 2020.



ICUC POSTERS

*"I have many open questions
and very few answers."*

S.M. Perren, 2019

Integrated into a learning tool

Complete

Unchanged

Continuous

data of surgical procedures

*Improve your surgery by being
at the front line of the operating room*

Complete from start to finish,
unselected series of surgical cases
from world leading centers.



ICUC Posters are based on surgical cases taken from our library,
meaning the full set of data used by the authors is accessible through our platform.

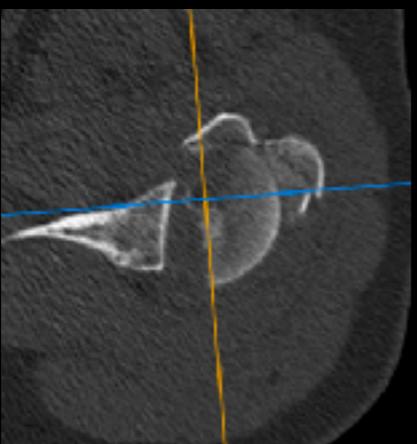
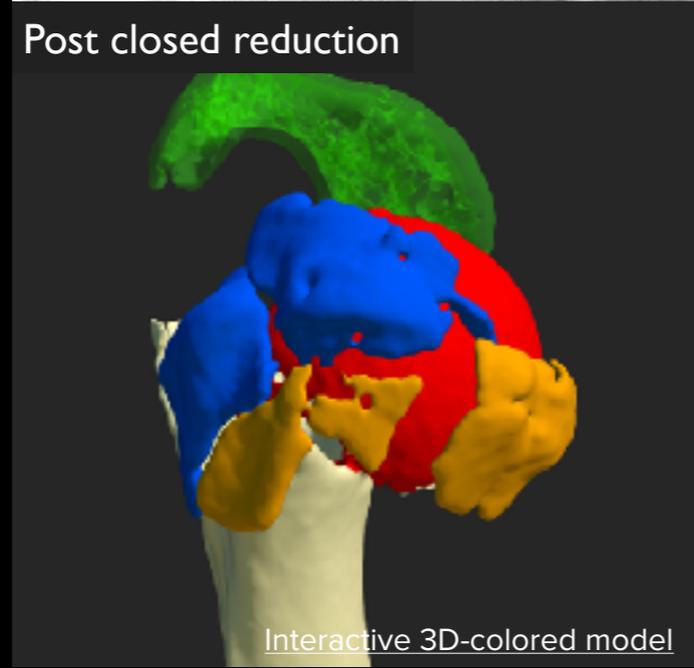
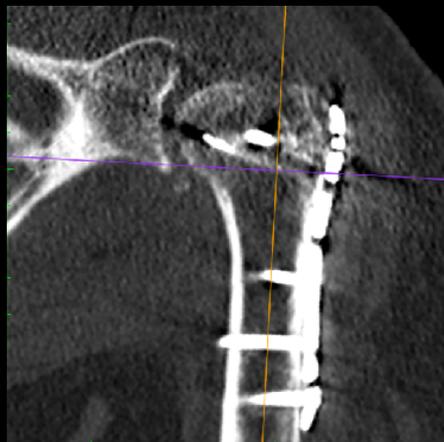
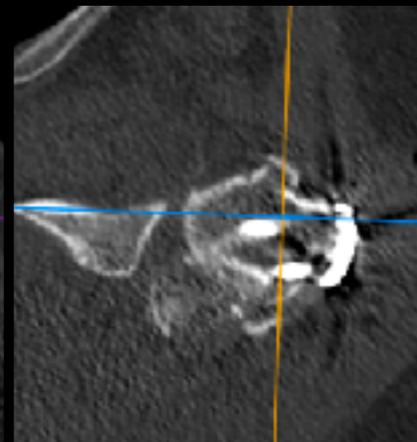
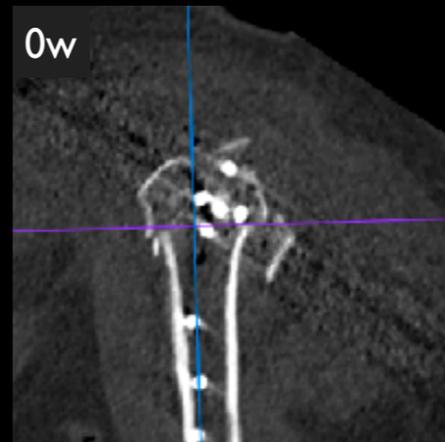
BACKGROUND

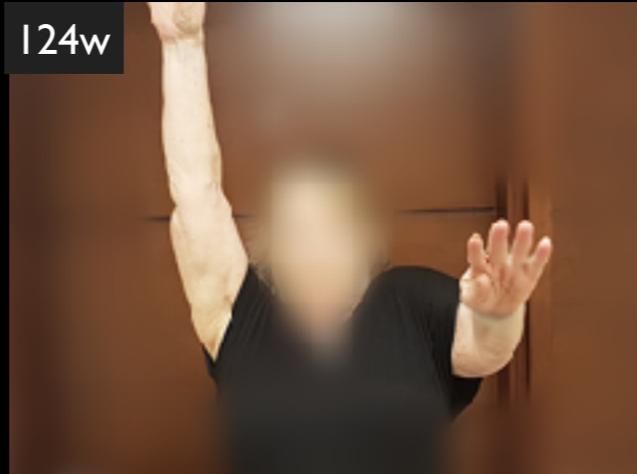
It was reported that the split-head fragment in a posterior fracture–dislocation remained in good contact with an intact inferomedial attachment in 90% of the cases, and henceforth that the risk of AVN is low with head-splitting fractures associated with a posterior dislocation.

Ogawa (1999).

The risk factors for AVN include a complex fracture pattern, the presence of anterior dislocation...

Gavaskar (2015)





Was AVN Risk easy to forecast for this case?

Was ORIF correctly executed?

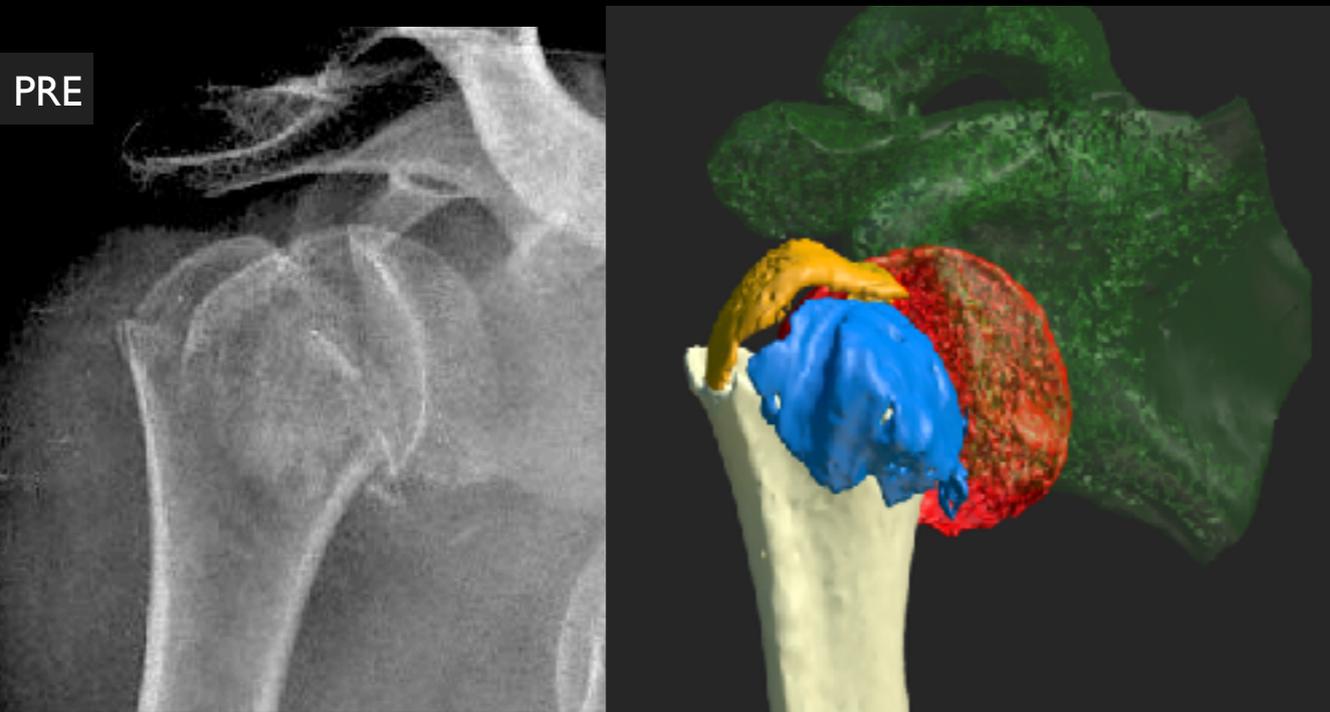
How would you rate this result:

- very good
- good
- mid
- poor
- very poor

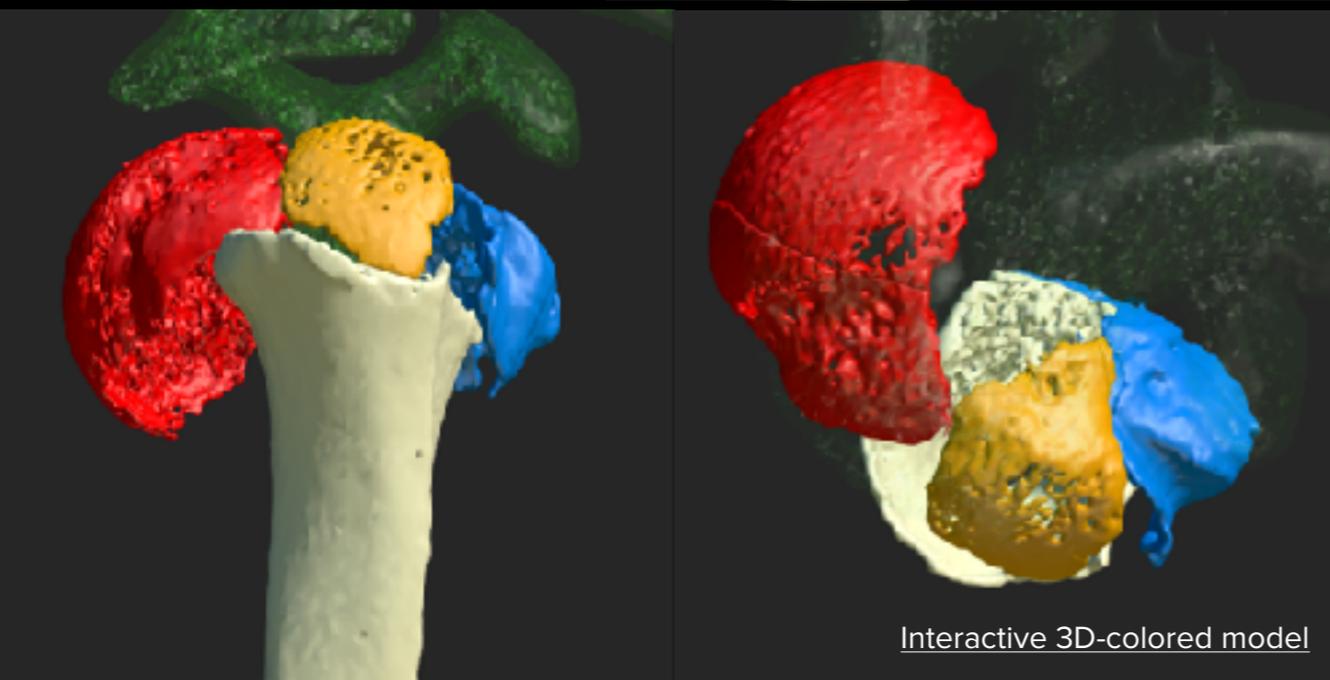
ICUC Score is FL 2=, P 0

Which would have been your treatment choice for this case?

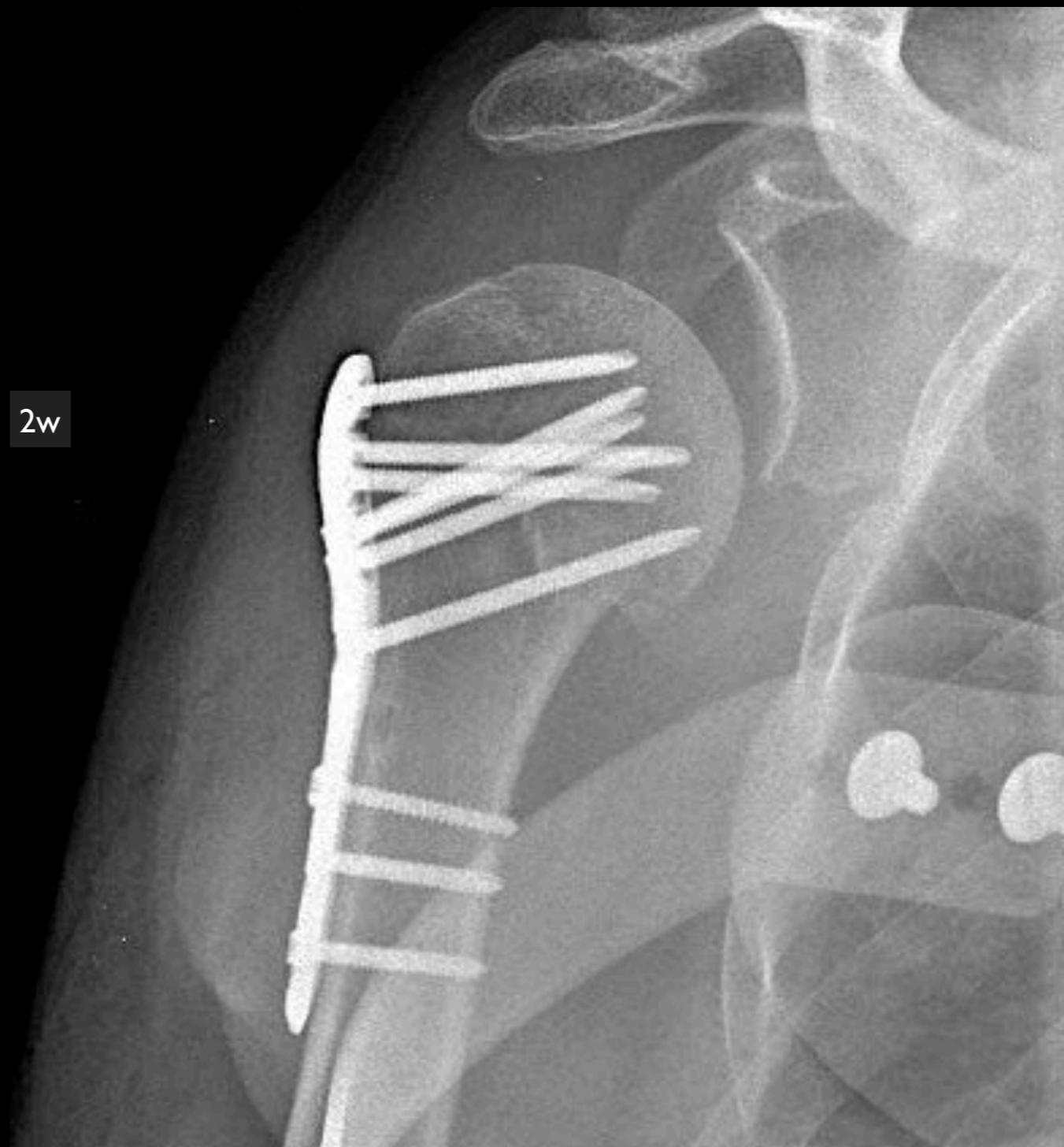
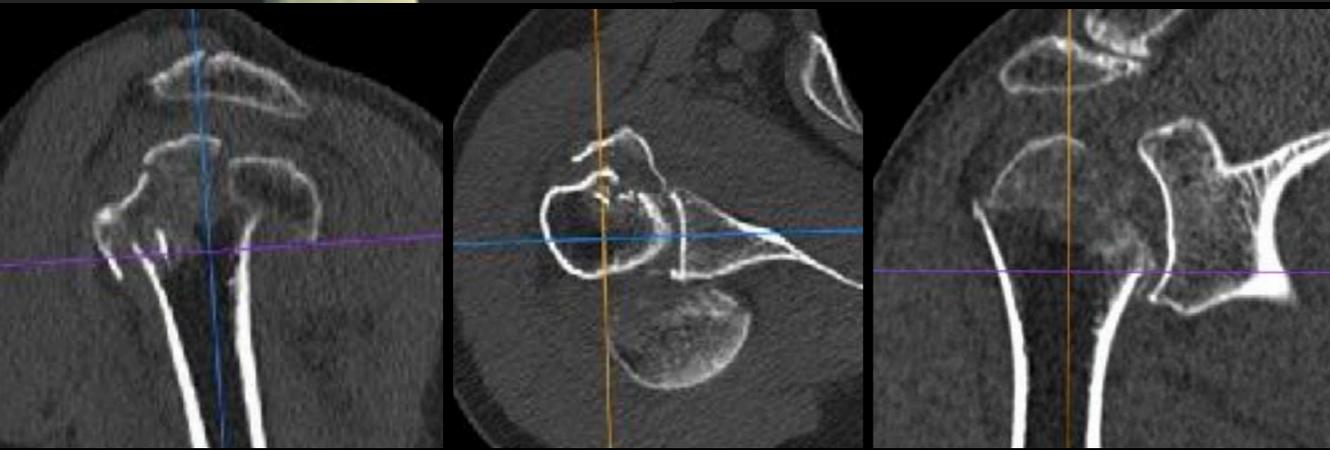
PRE



0w



2w



35w



35w



142w



142w



ICUC Score Functional Limitation: 2 ▲ (0-4) Pain: 0 (0-3)

A perfect result is: Zero limitation and Zero pain

Was AVN Risk easy to forecast for this case?

Was ORIF correctly executed?

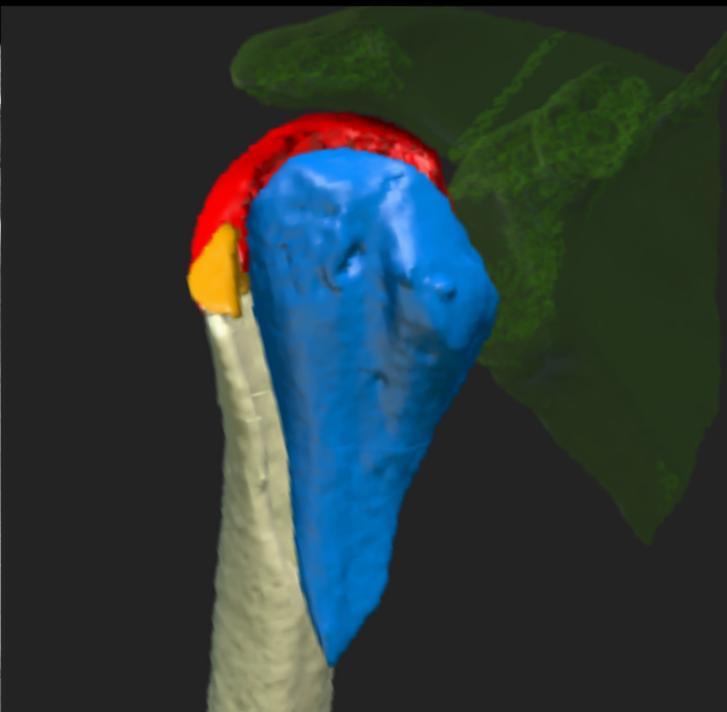
How would you rate this result:

- very good
- good
- mid
- poor
- very poor

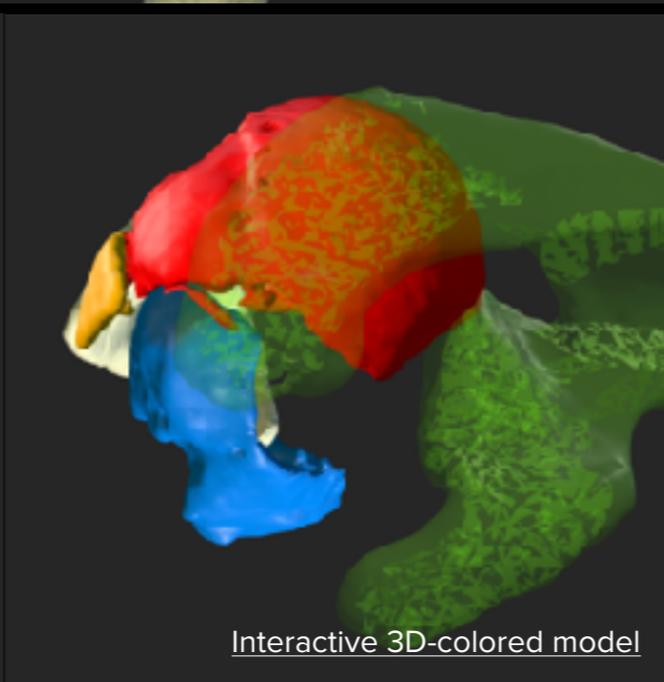
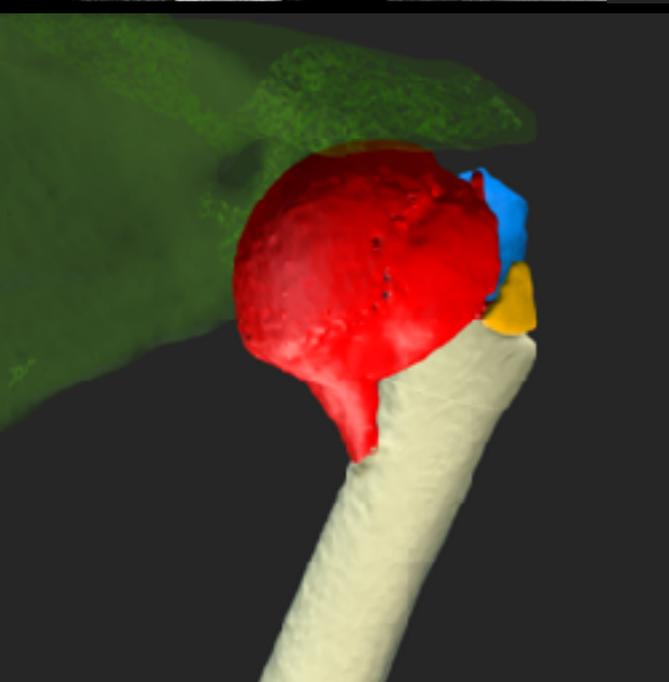
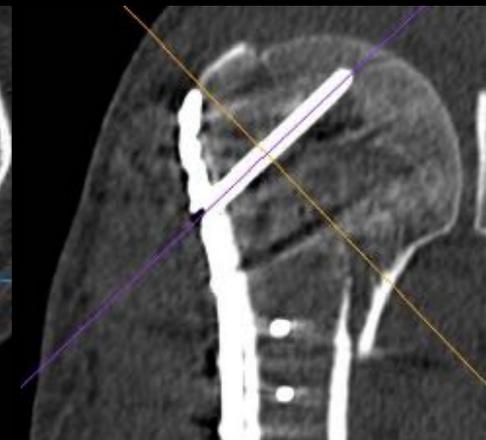
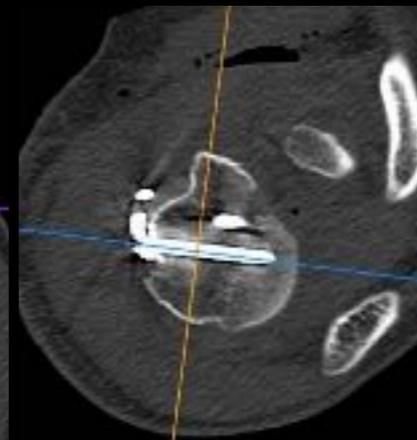
ICUC Score is FL 2+, P 0

Which would have been your treatment choice for this case?

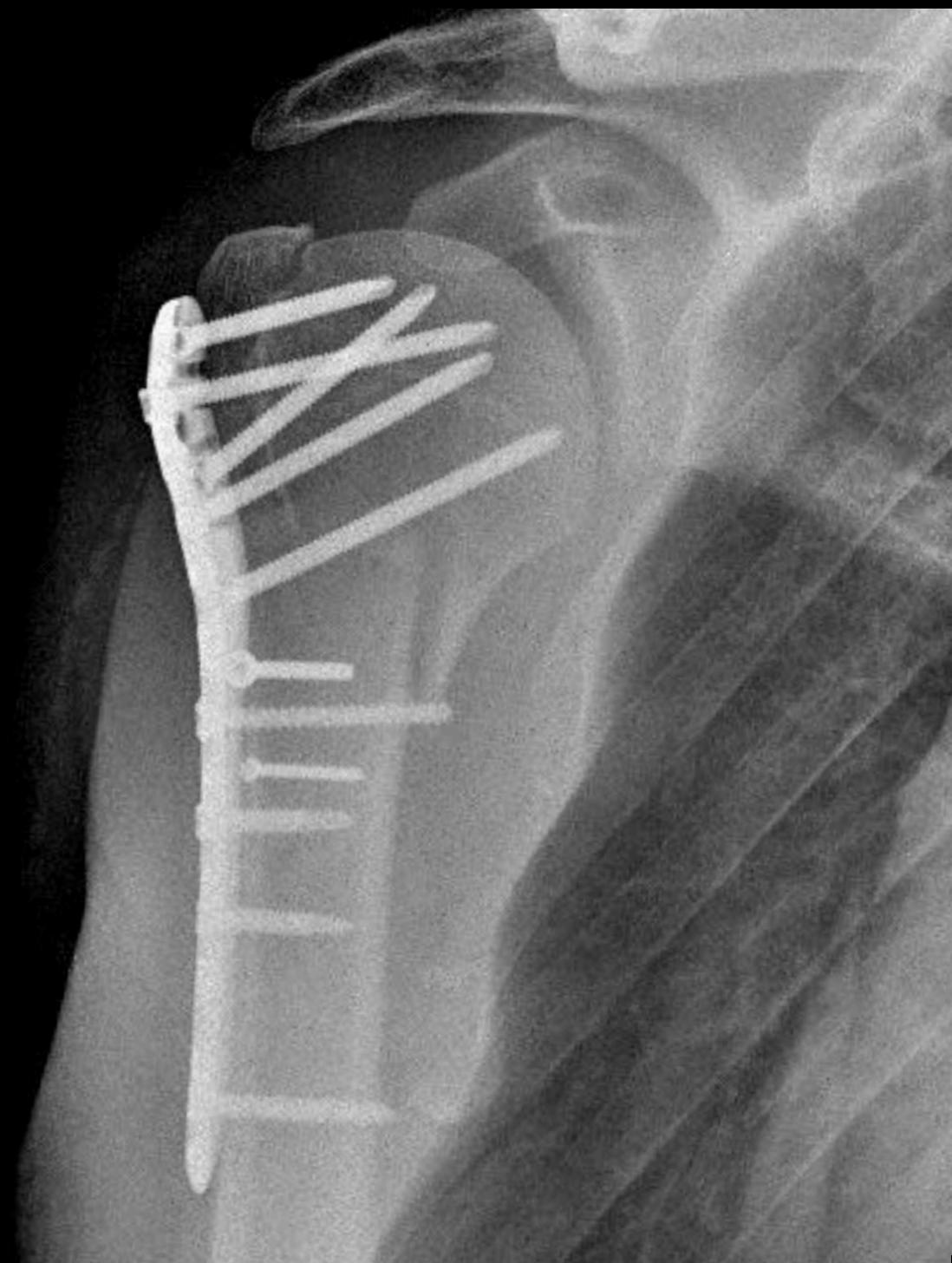
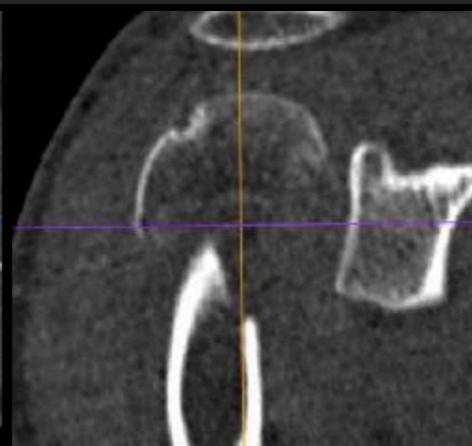
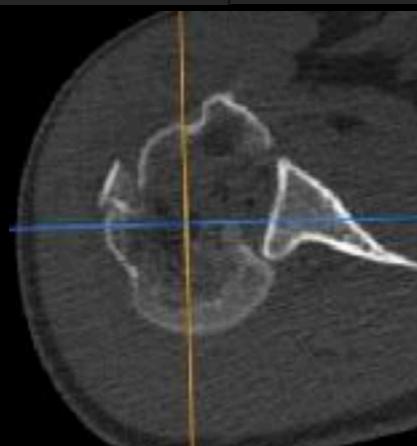
PRE

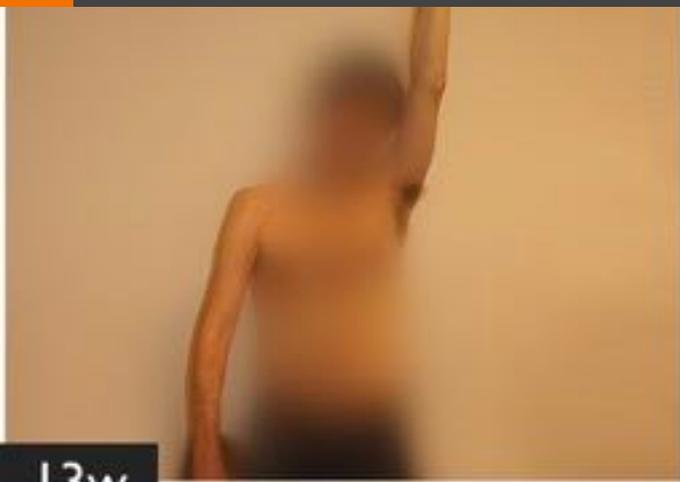


0w



1w

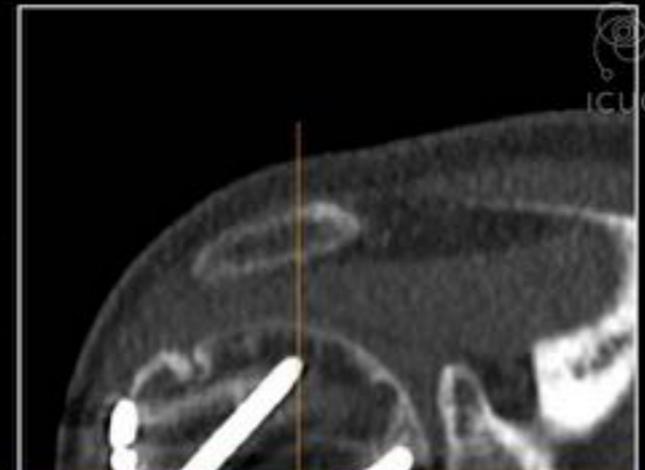




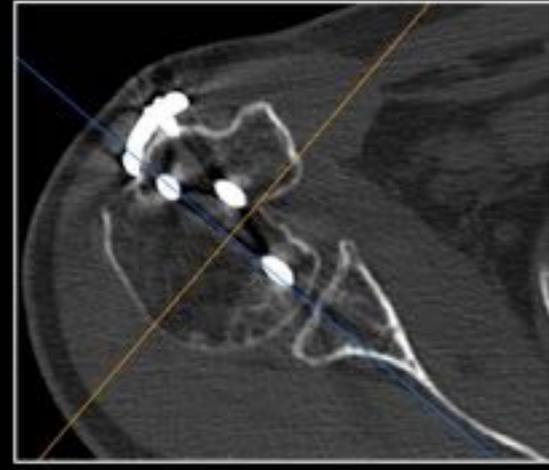
13w



22w



23w



43w



285w



ICUC Score

Functional Limitation: 1 (0-4) - Pain: 0 (0-4)

Was AVN Risk easy to forecast for this case?

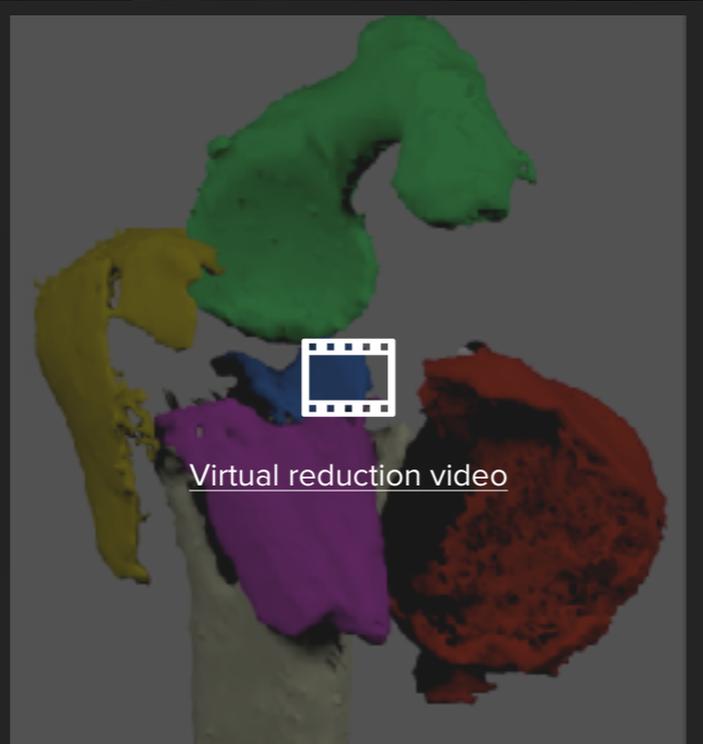
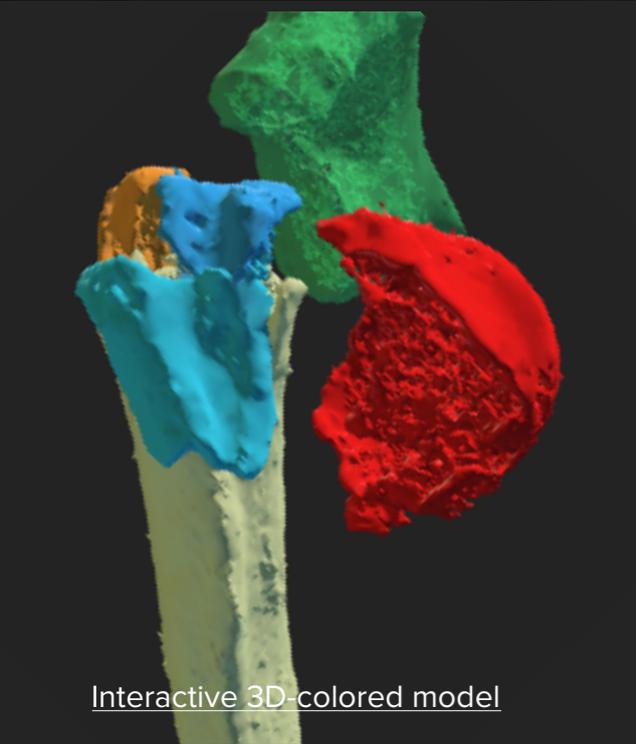
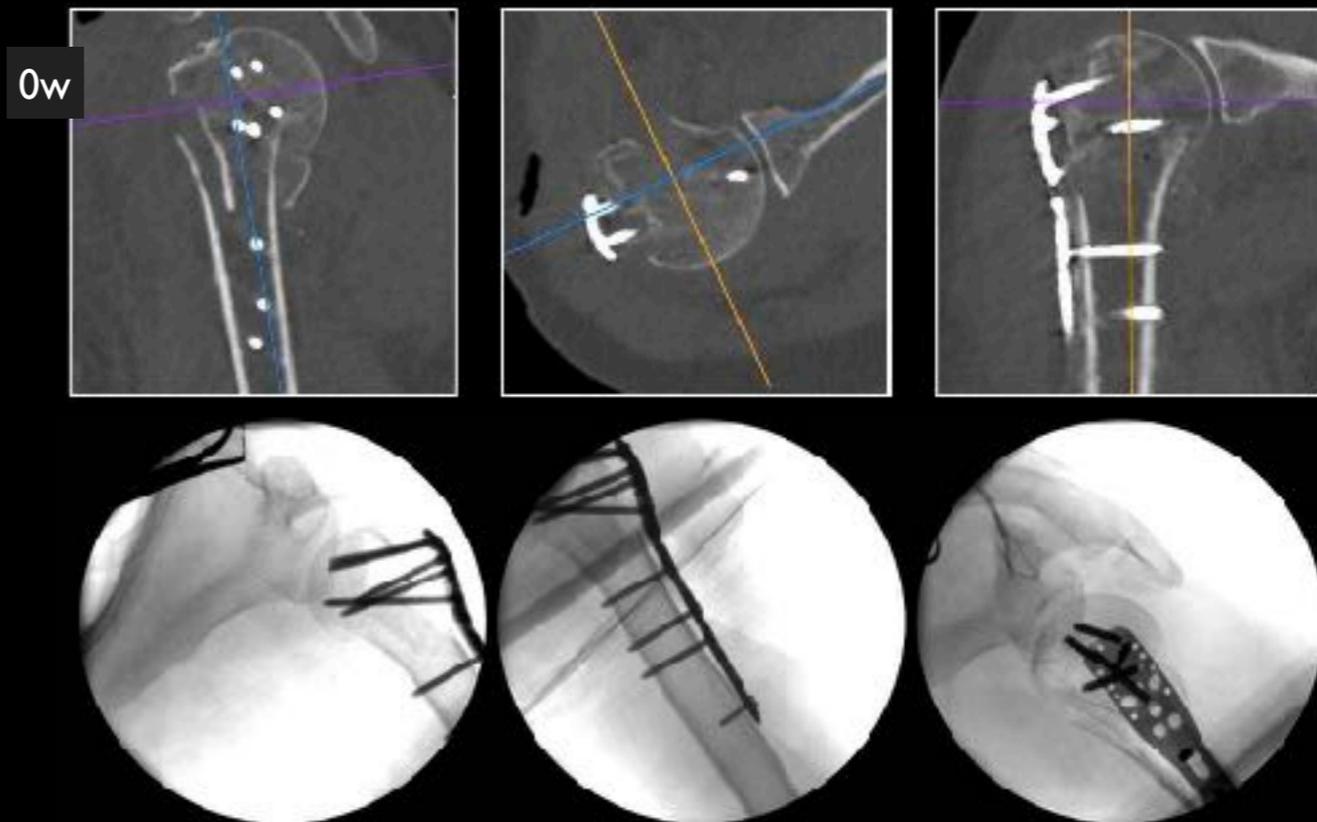
Was ORIF correctly executed?

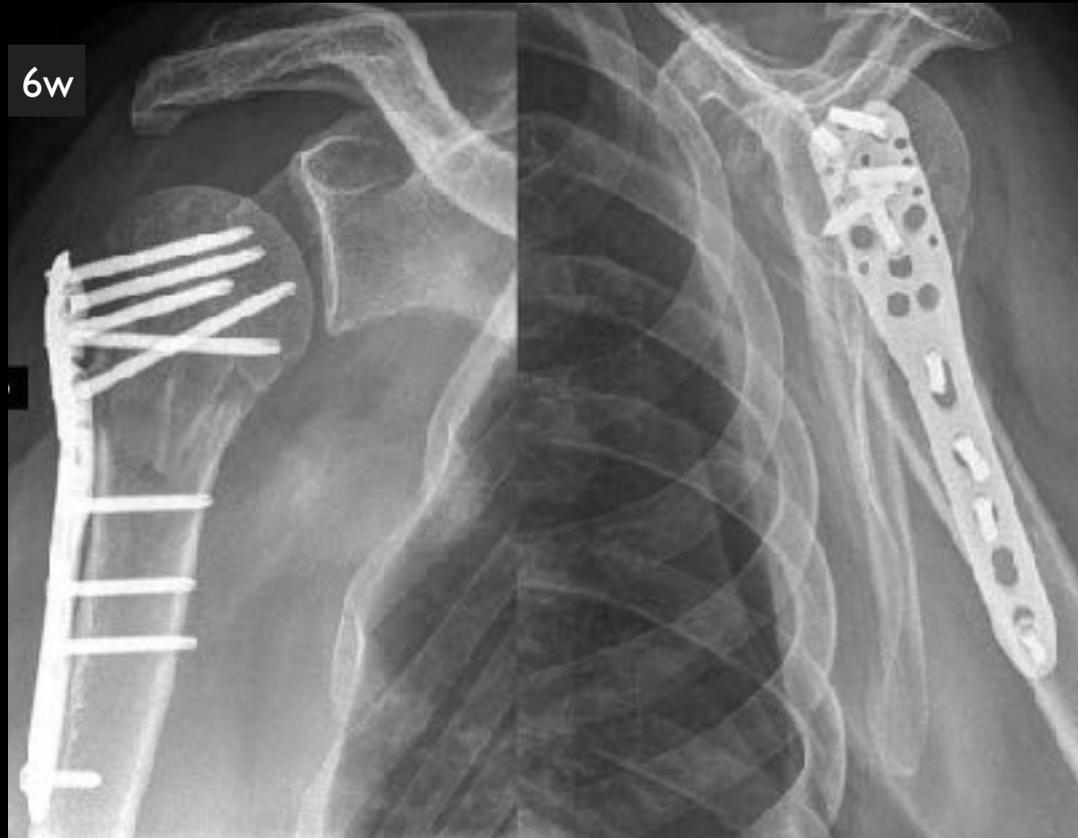
How would you rate this result:

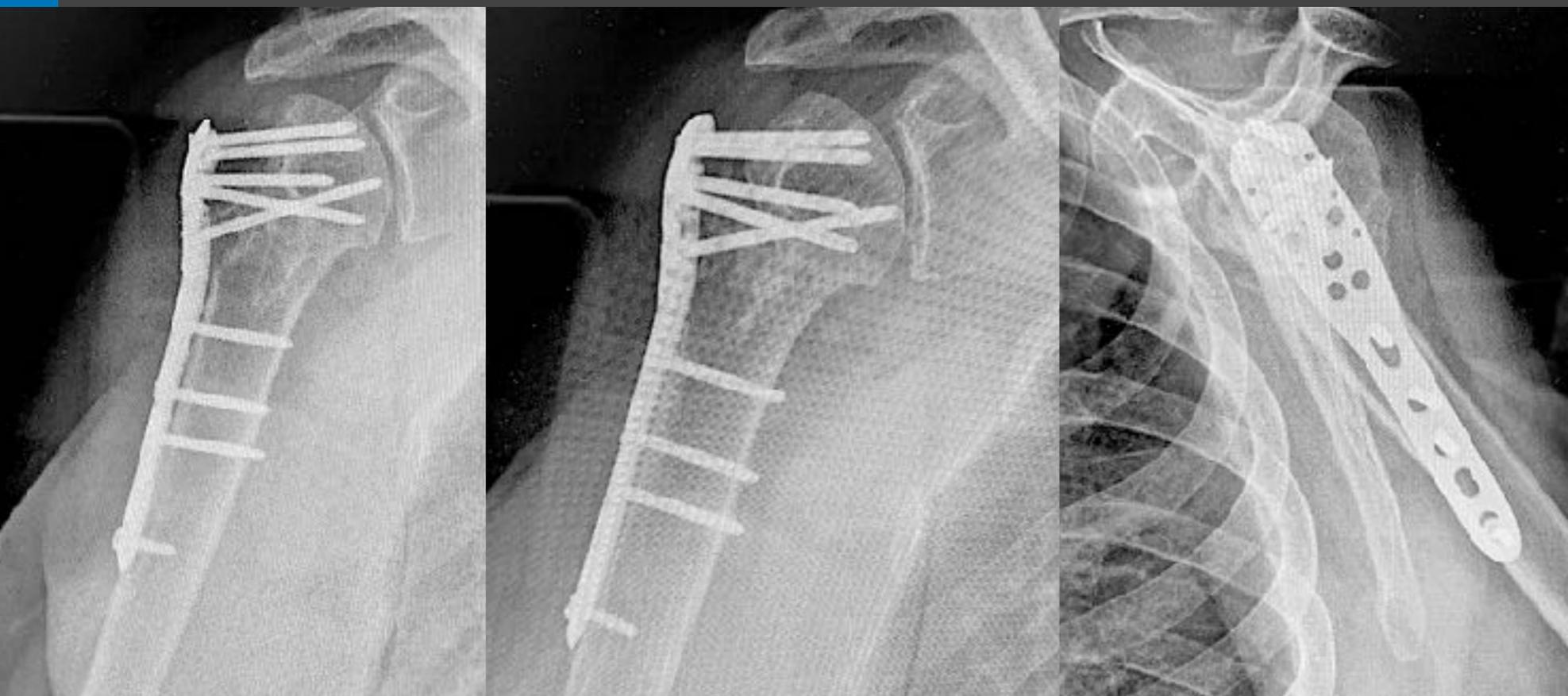
- very good
- good
- mid
- poor
- very poor

ICUC Score is FL 1+, P 0

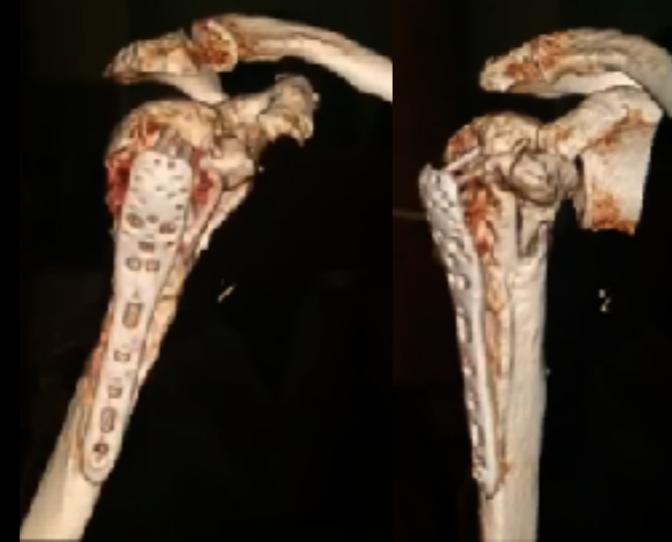
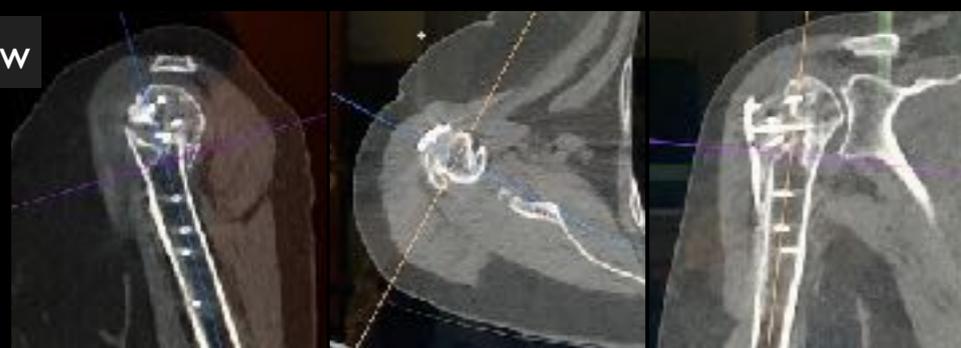
Which would have been your treatment choice for this case?







76w



Was AVN Risk easy to forecast for this case?

Was ORIF correctly executed?

How would you rate this result:

- very good
- good
- mid
- poor
- very poor

ICUC Score is FLO, P 0

Which would have been your treatment choice for this case?

DISLOCATED SPLIT-HEAD PROXIMAL HUMERUS FRACTURES

Results:

From the 4 cases

2 had an evident AVN (1 posterior and 1 anterior dislocation)

2 had no signs of AVN so far (1 posterior and 1 anterior dislocation)

Conclusions / Open Questions:

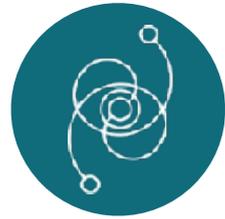
Even with a so short series, we may question simple rules which associates higher or lower AVN risk according to anterior or posterior dislocations.

We may rather prefer to carefully analyze each case of a dislocated split-head proximal humerus fracture, looking for a remaining metaphyseal attachment to the head fragment.

Further reading

Ogawa K, Yoshida A, Inokuchi W (1999) Posterior shoulder dislocation associated with fracture of the humeral anatomic neck: treatment guidelines and long-term outcome. *JTrauma*46:318–323

Gavaskar AS, Tummala NC (2015) Locked plate osteosynthesis of humeral head-splitting fractures in young adults. *J. Shoulder Elbow Surg* 24:908–914



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