

Medical Education Series

# Proximal Humerus Fracture

George Ochenjele, MD  
Cleveland, OH



# CERAMENT<sup>®</sup>

BONE VOID FILLER

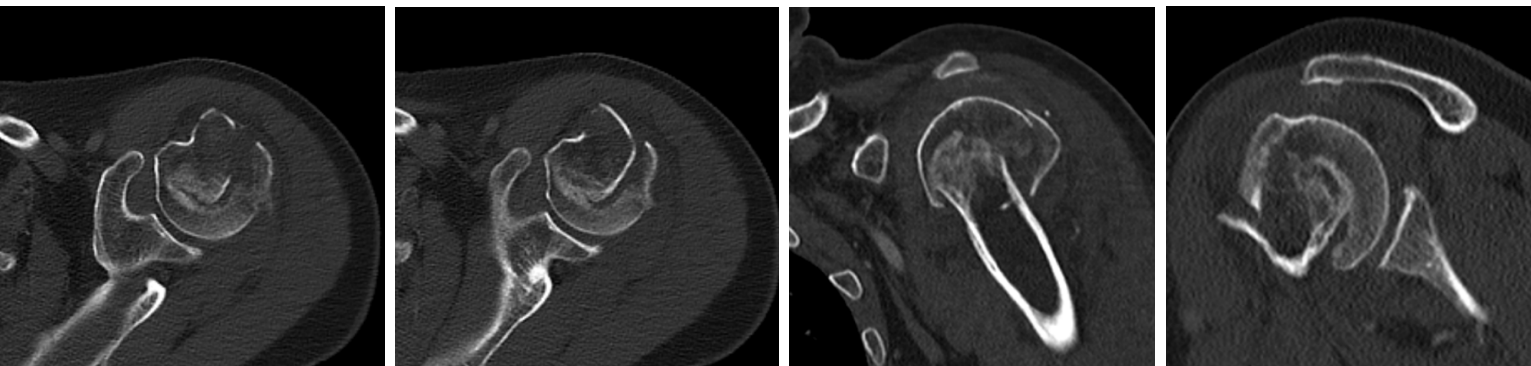
## Proximal Humerus Fracture

### PATIENT HISTORY AND DIAGNOSIS

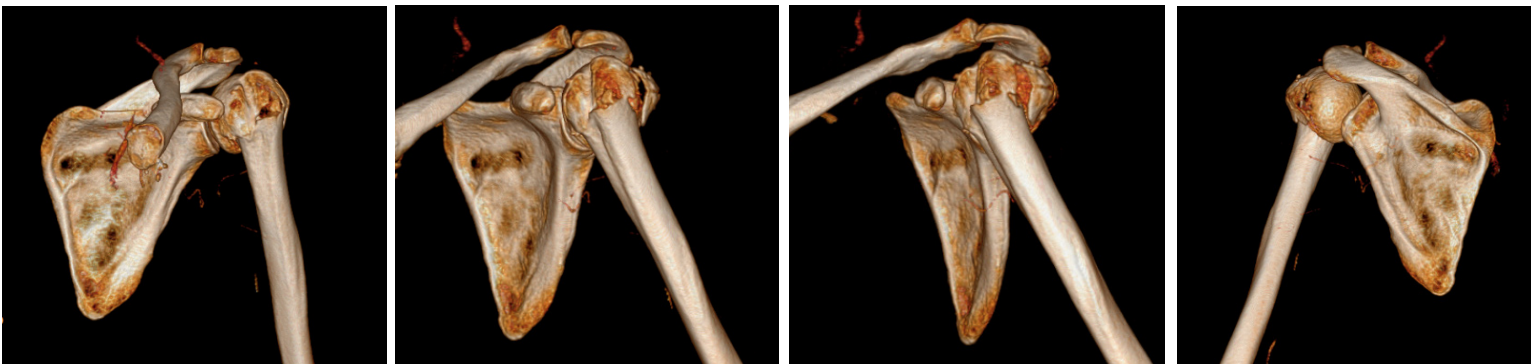
A 60 year old female presented with a three part proximal humerus fracture after slipping on an icy road.



Pre Op



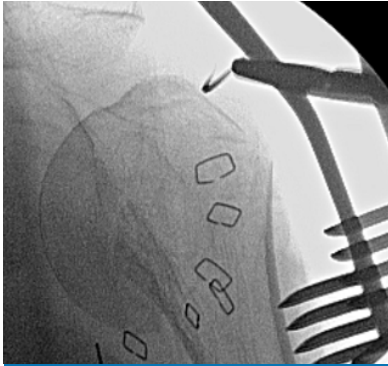
CT scan: Impaction at the fracture site



3 part proximal humerus fracture

## TREATMENT PLAN

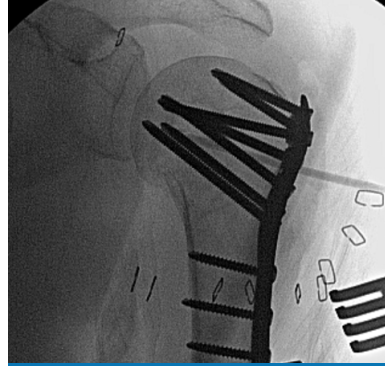
- Fracture reduction which results in significant bone void at the fracture site. This can lead to secondary loss of fixation and fracture settling if the void is not filled.
- Unfortunately, once most fractures are reduced access to the bone void becomes limited.
- Access to the central portion of the bone void was obtained using an 11 gauge drillable cannula to inject 10mL of CERAMENT.



Intra-Op



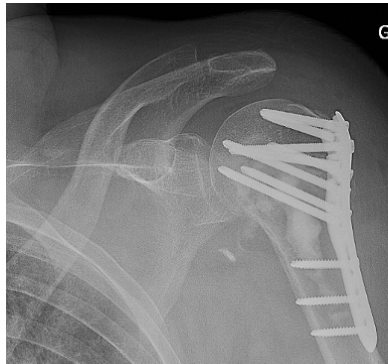
Intra-Op: Shows insertion of 11 gauge cannula through a screw hole in the plate and into the central void



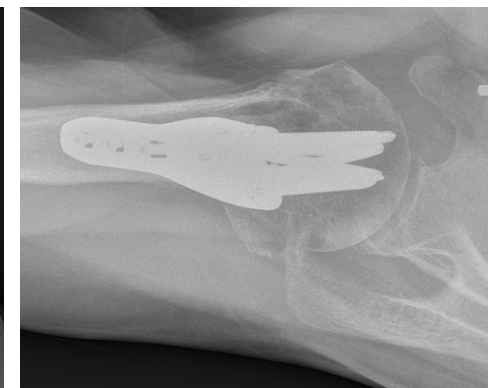
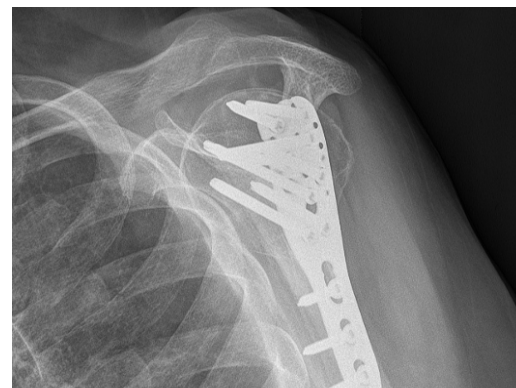
Intra-Op



Immediate Post-Op: Shows where CERAMENT has been injected



PostOp: 7 weeks



PostOp: 3 months

## OUTCOME

CERAMENT's radio visibility and flowability provided excellent fill throughout the void. This provided the option for minimally invasive fill of a bone defect that is not possible with traditional bone grafts.

At 3 months post-op, resorption and remodeling of CERAMENT into bone is apparent. The fracture is healed and the patient has excellent painfree use and function of arm.



BONESUPPORT AB  
Ideon Science Park,  
Scheelevägen 19  
SE-223 70 Lund,  
Sweden

T: +46 46 286 53 70  
F: +46 46 286 53 71  
E: [info@bonesupport.com](mailto:info@bonesupport.com)

BONESUPPORT, INC.,  
60 William St, Suite 330  
Wellesley, MA 02481

T: 1.877.719.6718  
E: [us.sales@bonesupport.com](mailto:us.sales@bonesupport.com)  
W: [bonesupport.com](http://bonesupport.com)



PR 01279-01 en AU EU ROW US 07-2022