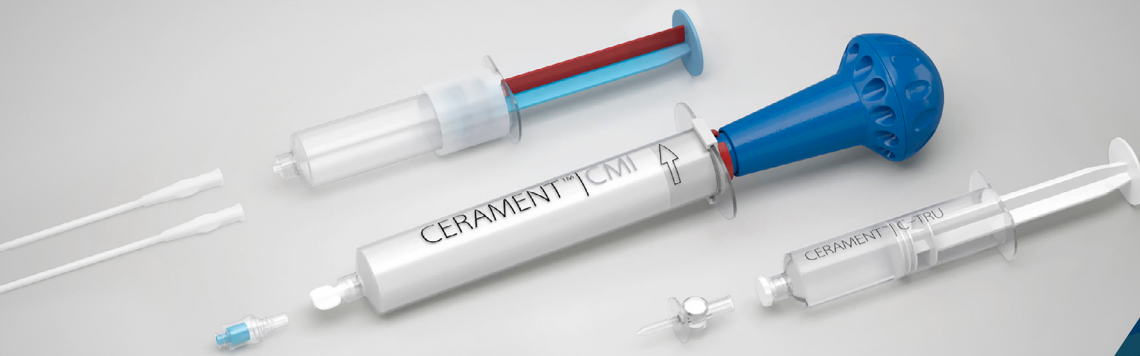


## CERAMENT® BONE VOID FILLER



### Management of a Giant Cell Tumor using CERAMENT BONE VOID FILLER

J. E. Cummings, M.D., FACS, USA



## PATIENT

49 year old

## DIAGNOSIS

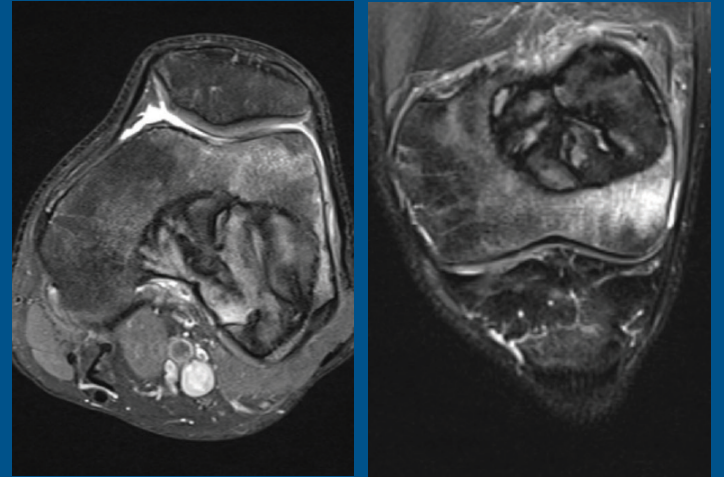
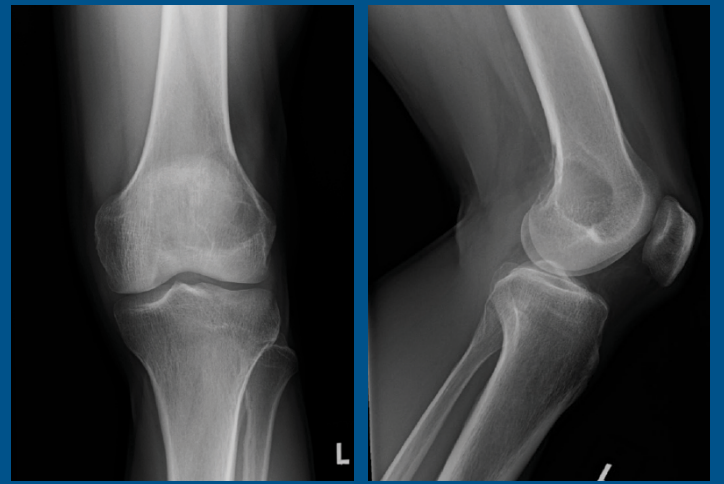
Pre-op radiographs and MRI suggested Giant Cell Tumor (GCT) of the left distal femur.

## TREATMENT

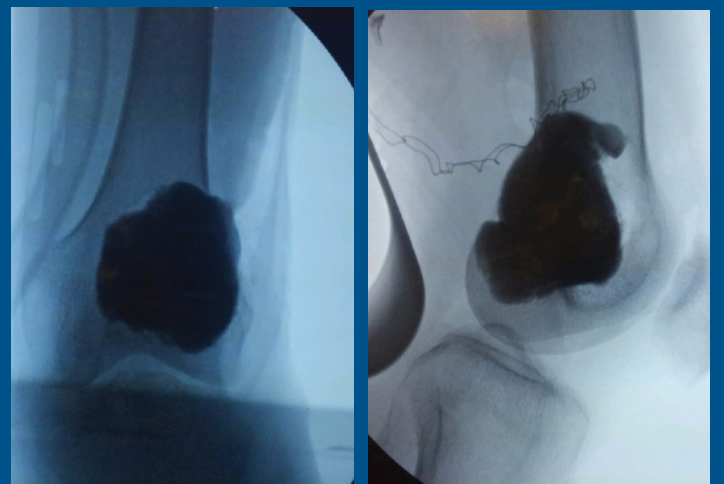
- Intralesional excision of the GCT was performed.
- Margin expansion was achieved with an Argon Beam Laser.
- The debrided bone void was filled with 75cc of CERAMENT BONE VOID FILLER and the distal femur stabilized with a 4.5 lateral locking plate.
- Histology confirmed GCT.

## OUTCOME

- Two weeks post-op radiographs showed complete filling of the bone void with CERAMENT BONE VOID FILLER.
- At 6 weeks post-op, evidence of CERAMENT BONE VOID FILLER degradation is observed at the periphery of the bone void.
- Evidence of bone remodeling is seen at 10 weeks post-op, with degradation and resorption of CERAMENT BONE VOID FILLER in sync with generation of new bone.
- Patient was full weight bearing at 6 weeks post-op.
- At 7 months follow-up, the void is almost completely filled with new trabeculated bone.
- At 1 year follow up, the void is now completely filled with trabeculated bone.

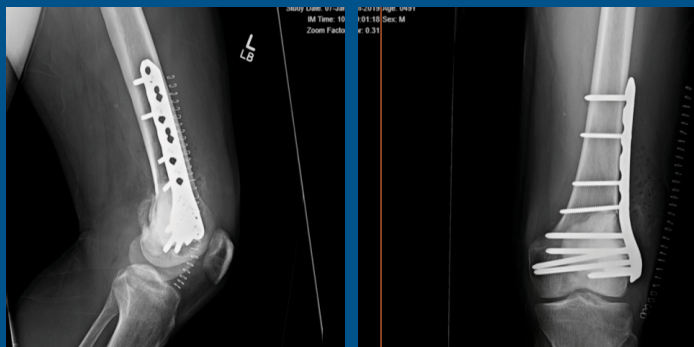


**Pre-op.** Pre-op radiographs and MRI suggested Giant Cell Tumor (GCT) of the left distal femur.

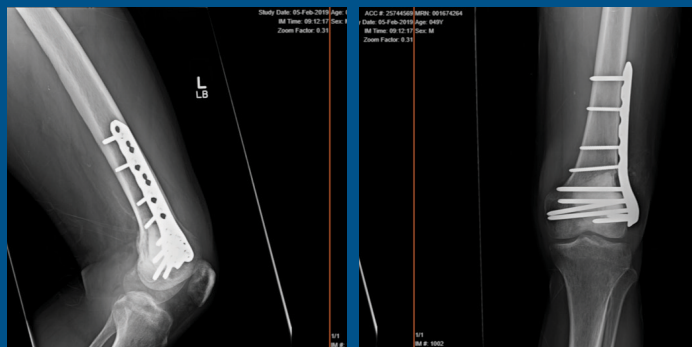


**Intra-op.** Radiographs show complete filling of the bone void with CERAMENT BONE VOID FILLER.

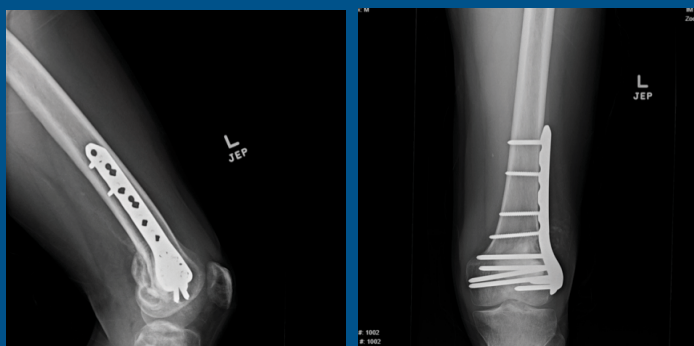
## FOLLOW UP RADIOGRAPHS



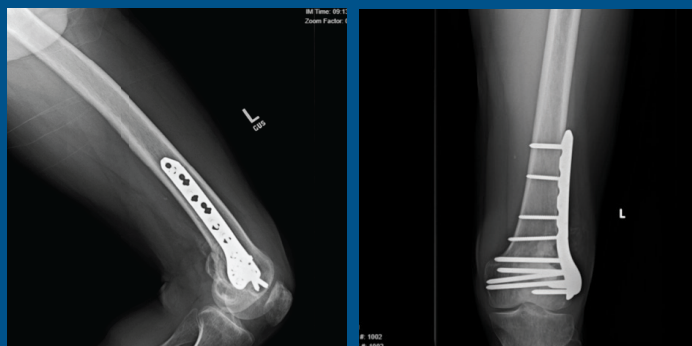
**2 Weeks post-op.** Radiographs show complete filling of the bone void with CERAMENT BONE VOID FILLER.



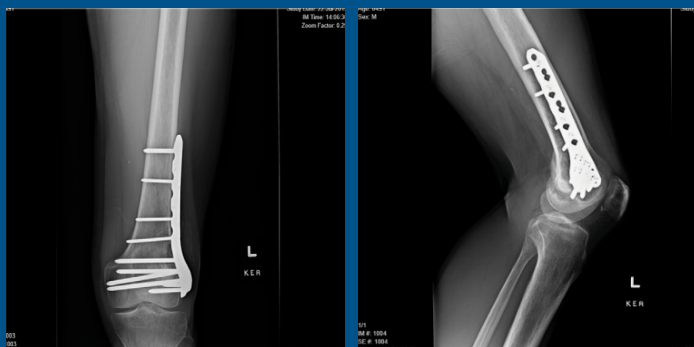
**6 Weeks post-op.** Degradation and resorption of CERAMENT BONE VOID FILLER starting from the periphery of the bone void.



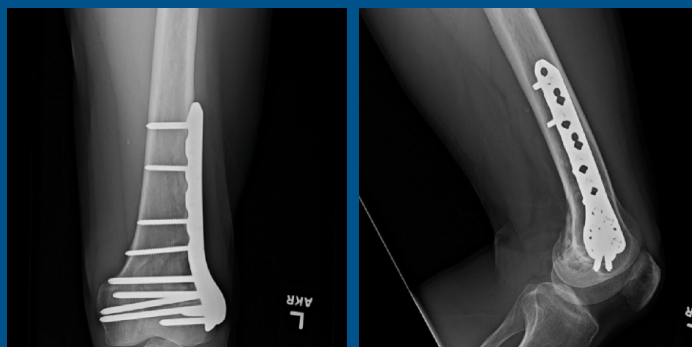
**10 Weeks post-op.** Evidence of CERAMENT BONE VOID FILLER remodeling into bone. Note the degradation and resorption of the bone graft substitute is in sync with generation of new bone.



**4 Months post-op.** On-going remodeling process of CERAMENT BONE VOID FILLER.



**7 Months post-op.** CERAMENT BONE VOID FILLER can no longer be distinguished anymore. The void is now almost completely filled with new trabeculated bone.



**One year post-op.** The void is now filled with new trabeculated bone.



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Our Mission is restoring health  
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