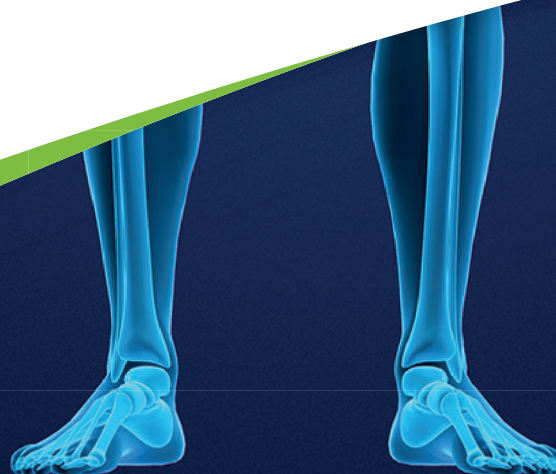


Case Report:

CERAMENT® BONE VOID FILLER in
the Treatment of an Adolescent
Unicameral Calcaneal Bone Cyst

27 Month Follow-up

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CERAMENT® BONE VOID FILLER in the Treatment of an Adolescent Unicameral Calcaneal Bone Cyst

PATIENT: A 14-year-old girl gymnast presented with significant right heel pain of 2-month duration

DIAGNOSIS

- ➔ In CT films, areas of delineated trabecular rarefaction with tiny tubular lucency seen in the body of the right calcaneus
- ➔ Diagnosis of early developing cyst was confirmed
- ➔ Surgical intervention was chosen to stop the progression of a fully formed bone cyst

TREATMENT

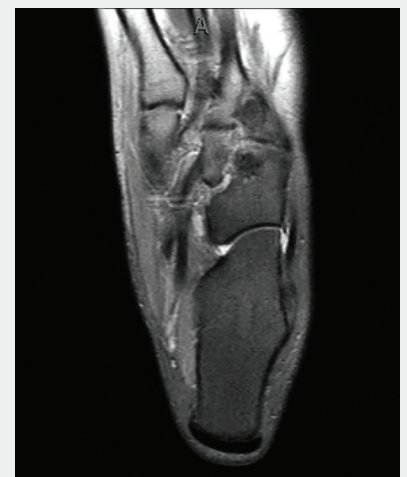
- ➔ A simple lateral calcaneal bone cortex incision was completed with a smooth 9/64-inch pin into the developing cyst
- ➔ Using a Jamshidi™ needle, 10cc of CERAMENT® BONE VOID FILLER was delivered into the devoping bone cyst under intraoperative fluoroscopy
- ➔ There was excellent filling of the developing bone cyst
- ➔ Simple soft-tissue closure was completed.



Pre-op: Lateral radiograph of right foot



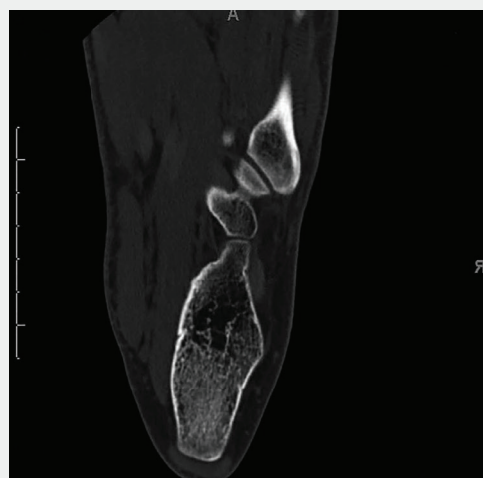
Pre-op: Sagittal MRI of right foot



Pre-op: Axial MRI of right foot



Pre-op: Sagittal CT-scan of right foot



Pre-op: Axial CT-scan of right foot



Intra-op: CERAMENT® delivered under fluoroscopy

FOLLOW UP RADIOGRAPHS



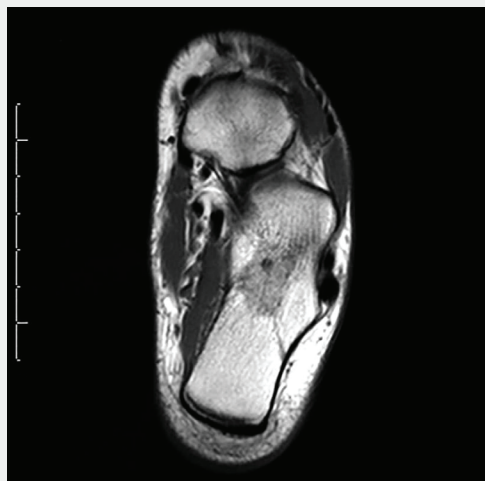
27 Month Radiographic Follow-Up: Normal spongiosum trabecular pattern with no recurrences of the lucencies



27 Month CT Follow-Up: Complete trabecular regeneration is seen where CERAMENT® was injected into the calcaneal body



27 Month MRI Follow-Up: Complete trabecular regeneration at the developing cyst within the calcaneal body



OUTCOME

- ➔ Patient tolerated the procedure well and was able to bear weight the next day with the aid of crutches
- ➔ Patient progressed to full weightbearing at 3 weeks post-op and continued to progress unremarkably through the postoperative period and returned to gymnastics with no restrictions at 6 weeks post-op. Physical therapy was not needed
- ➔ At 27 months post surgery, radiographs, CT, and MRI show normal spongiosum trabecular pattern, without recurrence of the lucencies, where CERAMENT® BONE VOID FILLER was implanted
- ➔ At 3 years post-op the patient had experienced no pain to the right calcaneus, exhibited a normal gait, had no activity restrictions and was fully engaged in gymnastics



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