Case Report
Bicondylar Osteoporotic Tibial Plateau Fracture Management Utilizing CERAMENT®|BONE VOID FILLER
18 month follow up

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PATIENT
88 Year old female, widow lives alone

DIAGNOSIS
- Fall and injury 3 days prior to admission. Present with pain in the left knee.
- During that three-day period, the patient tried to walk and noted worsening of swelling and pain at her left knee.
- Examination revealed some edema on the entire left lower extremity with no open wound. Range of motion was limited, secondary to pain and significant knee effusion.
- Initial radiographs: Bicondylar osteoporotic tibial plateau fracture with some angulation and impaction with displacement and unstable appearance. (Pictures 1,2).
- Comorbidities: dyslipidemia, hypothyroidism, osteoporosis, COPD, osteoarthritis, and B12 deficiency.

TREATMENT
- Open reduction and internal fixation of left tibial plateau bicondylar fracture with percutaneous lateral plate application (Zimmer™ NCB five hole locking plate).
- CERAMENT® BONE VOID FILLER injected into resulting bone void following fracture reduction. Prior to initial setting of the CERAMENT® the two remaining screws were inserted. This was visualized on the C-arm imaging throughout (Pictures 3,4).
- Excellent restoration of anatomic alignment and good stability of the tibial plateau and metaphyseal fracture, both in the anteroposterior and lateral views was demonstrated.

OUTCOME
- Patient was transferred to a rehabilitation facility and therapy initiated with good progress.
- At six months patient was ambulating well with no significant pain or discomfort.
- At eighteen months the patient was improved and ambulating well for her age. Radiographs demonstrated excellent incorporation of the CERAMENT® by new bone with consistent and homogeneous trabeculation pattern and density observed at the fracture site (Pictures 5,6).

At 18 months anterior x-ray demonstrating excellent incorporation of CERAMENT® by new bone
At 18 months lateral x-ray demonstrating excellent incorporation of CERAMENT® by new bone

Pre operative anterior x-ray of Tibia plateau fracture
Pre operative lateral x-ray of Tibia plateau fracture.
Intra operative anterior x-ray with placement of CERAMENT®
Intra operative lateral x-ray with placement of CERAMENT®