AVITUS ORTHOPAEDICS

Minimum Access. Maximum Benefit.™

Avitus® Bone Harvester

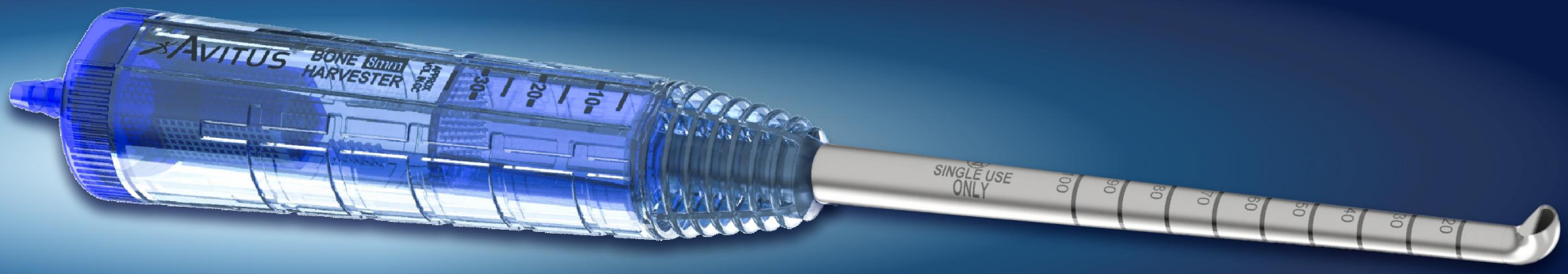
*The **only** complete minimally invasive bone & marrow harvesting system*

Harvest up to 50cc of autogenous cancellous bone and additional non-diluted marrow™ in 5 minutes or less through a 1cm entry.

Completely sterile packed, ready-to-go and easy setup.

Service all procedural applications from large to small.

Replace expensive bone substitutes/biologics.



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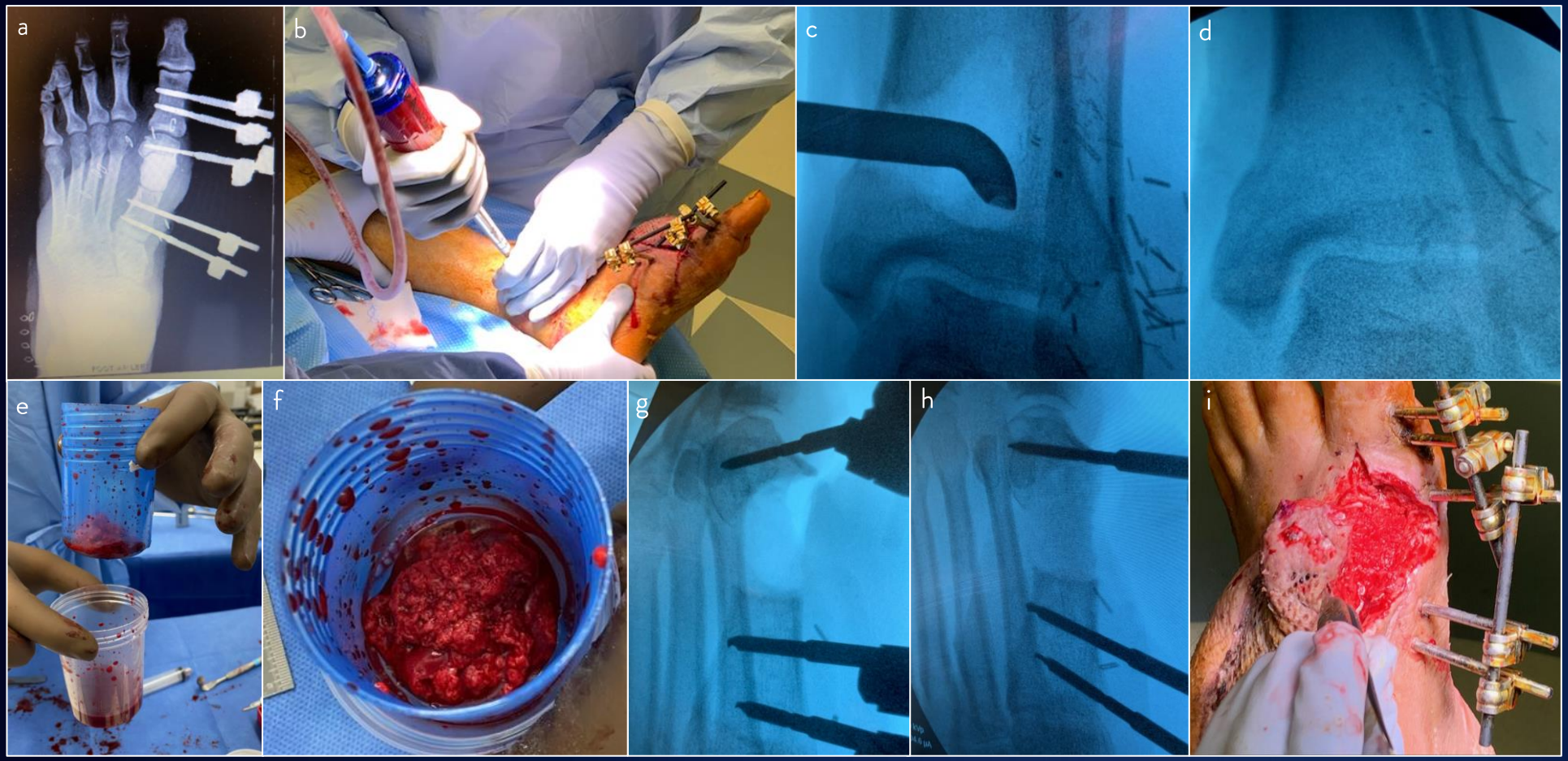
CASE REPORT | TRAUMA

Masquelet Technique for a Chainsaw Accident



[a] A 1st metatarsal shaft injured by a chainsaw was staged for reconstruction. AP pre-operative radiograph of cement spacer with external fixation.
[b,c] Avitus® Bone Harvester intraoperative bone harvest in the distal tibia metaphysis.
[d] Harvest site was backfilled with allograft morcels.
[e,f] 20cc of autogenous cancellous bone and 15cc of non-diluted bone marrow™ retrieved with the Avitus® Bone Harvester in 4 minutes.
[g-i] Cement spacer was removed and segmental defect was packed with Avitus® bone graft using Masquelet technique.

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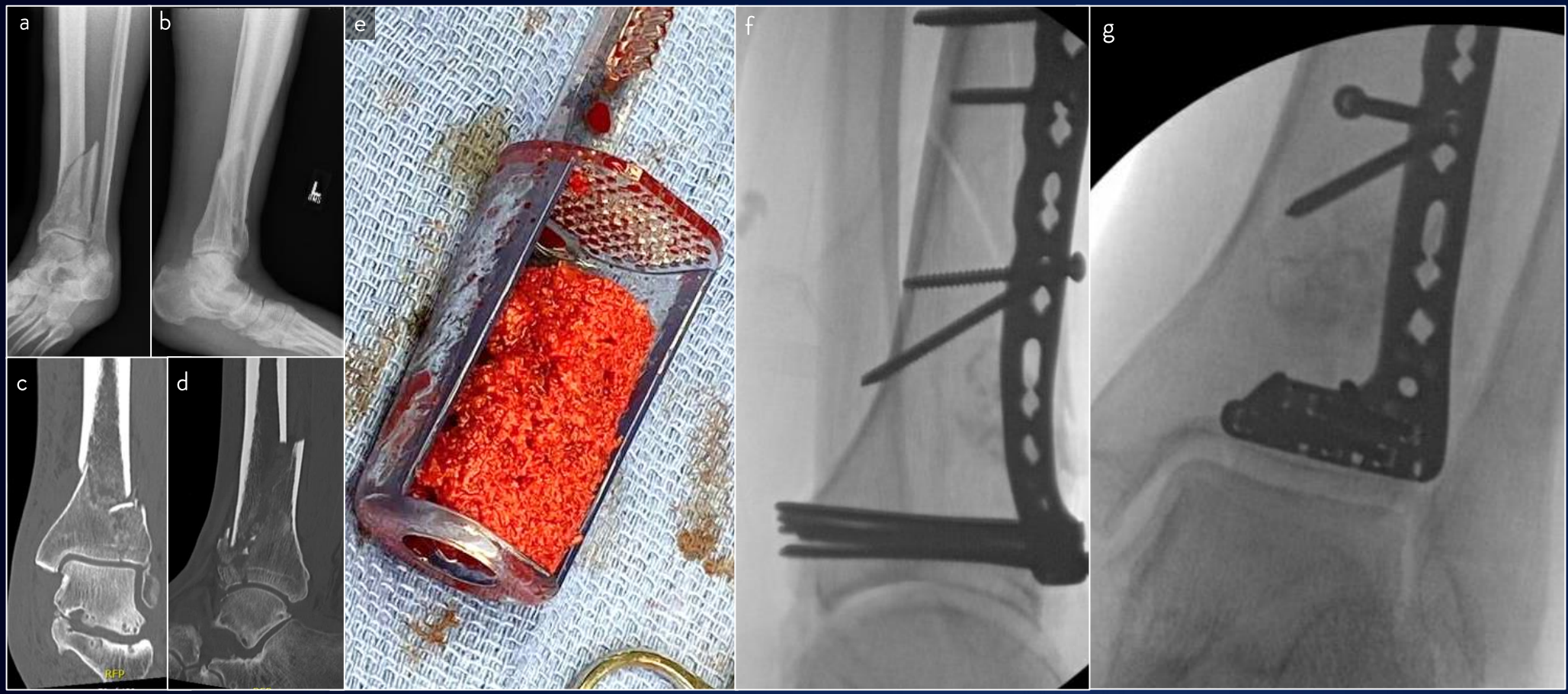
CASE REPORT | TRAUMA

65/M Intra-articular Ankle Fracture



[a,b] Preoperative radiographs showing intra-articular ankle fracture.
[c,d] Preoperative CT scans showing metaphyseal deficits in the intra-articular fracture.
[e] Avitus® Bone Harvester was used to harvest 20cc of cancellous bone and 10cc of non-diluted bone marrow™ from proximal tibia in 3 mins.
[f,g] 2 week post-operative radiographs after hardware and bone graft were placed. Patient will be non-weight bearing for 12 weeks.

No harvest site pain reported at 2 week follow up.

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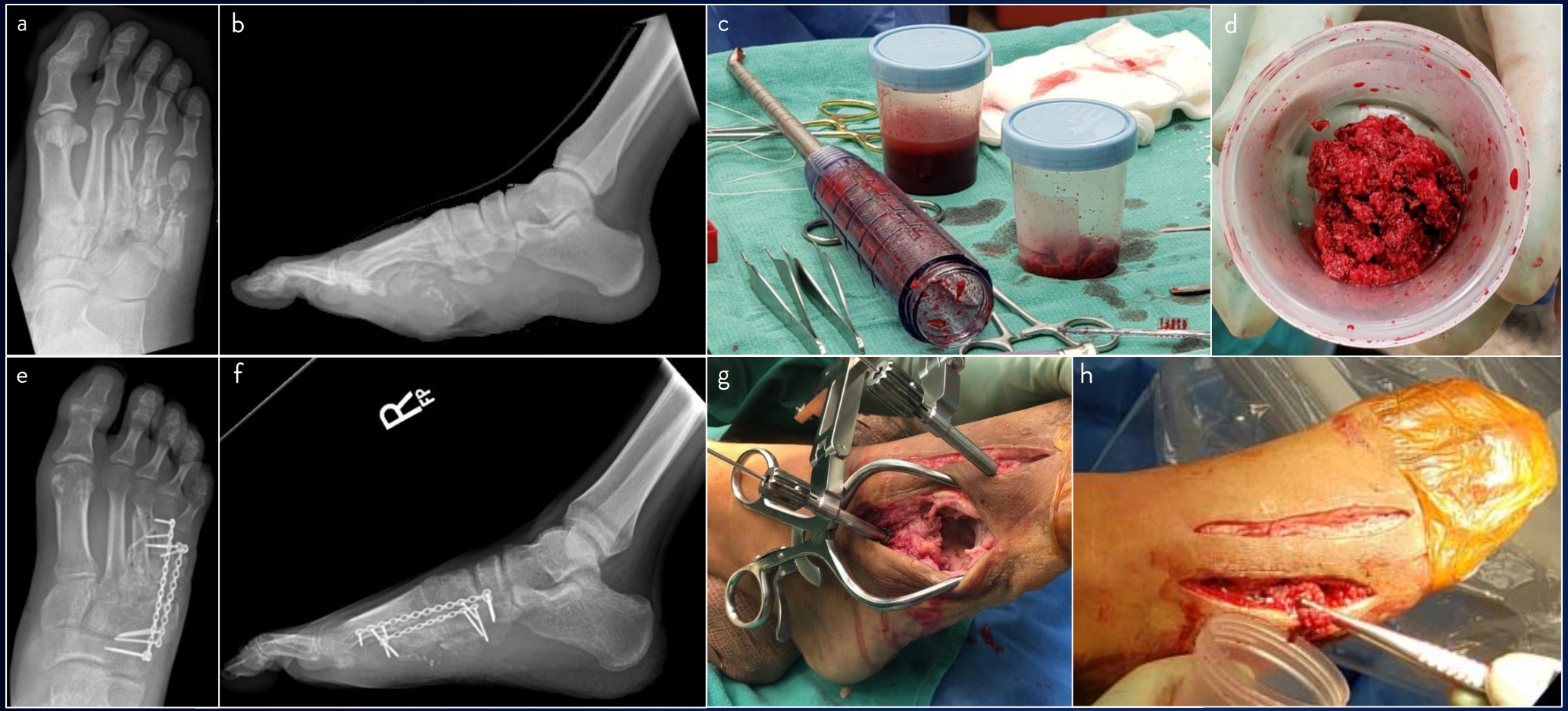
CASE REPORT | TRAUMA

23/M with Gunshot Injury



[a,b] AP and lateral preoperative radiographs showing presentation of gunshot trauma to right foot.
[c,d] Avitus® Bone Harvester harvested 25cc of autogenous cancellous bone and 40cc of non-diluted™ bone marrow from prox tibia in 5 mins.
[e,f] AP and lateral intraoperative radiographs of foot reconstruction.
[g,h] Avitus® graft and marrow implanted into all deficits.

Patient had no harvest site morbidity, clinically healed at 3 months post-op with pain-free ambulation.

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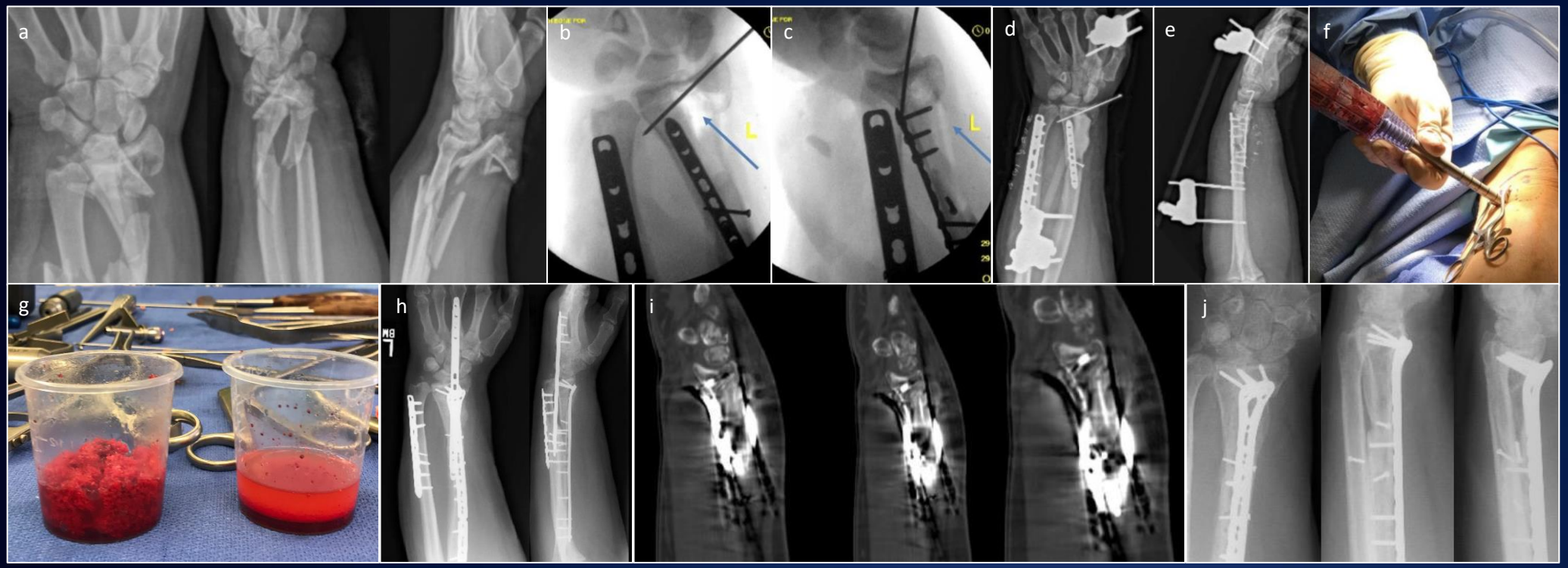
CASE REPORT | TRAUMA

59/M with Distal Radius/Ulna Fracture



[a] PA, oblique and lateral radiographs demonstrating severely comminuted distal radius and ulna fractures.
[b,c] PA and lateral intra-operative radiographs depicting a 5 cm bone defect (arrows) in the radial metaphysis during first stage of reconstruction.
[d,e] PA and lateral radiographs illustrating placement of antibiotic cement in the radial defect as well as internal/external fixation.
[f] At second stage of reconstruction, proximal ipsilateral tibia was harvested with the Avitus® Bone Harvester.
[g] 35cc of autologous bone graft and 30cc of non-diluted bone marrow™ procured with Avitus® Bone Harvester in 8 minutes and packed into defects.
[h] 3 month post-operative PA and lateral radiographs showing bony union.
[i] 3 month post operative CT sagittal plane slices showing distal radius bony union.
[j] 1 year post-operative PA, oblique, and lateral radiographs, post hardware removal (the dorsal spanning bridge plate [on the radius] and the ulna plate were removed).

No harvest site pain at 2 week follow up. At 1 year follow up patient has normal sensation to his hand and could make a composite fist and obtained wrist range of motion of 50 degrees in flexion and 40 degrees in extension.

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CASE REPORT | TRAUMA

56/M with Motor Vehicle Collision Pilon Fracture

[a,b] Initial presentation a) AP and b) lateral radiographs of displaced pilon fracture.
[c,d] Post initial irrigation and debridement a) coronal and b) sagittal plane CT-scan of metaphyseal defect.
[e] Avitus ® Bone Harvester 20cc of autologous cancellous bone and 15cc of non-diluted bone marrow™ in 5 minutes from the proximal tibia.
[f] The Avitus® graft and marrow were packed into the defects with favorable handling characteristics, packability and structural stability.
[g] 7 week post-operative radiographs with visible evidence of bone graft incorporation.
[h] AP radiograph at 10 weeks post-harvest showing bone incorporation at the proximal tibial donor site.

No harvest site pain at 3 weeks post-op, patient had pain-free ambulation at 12 weeks.

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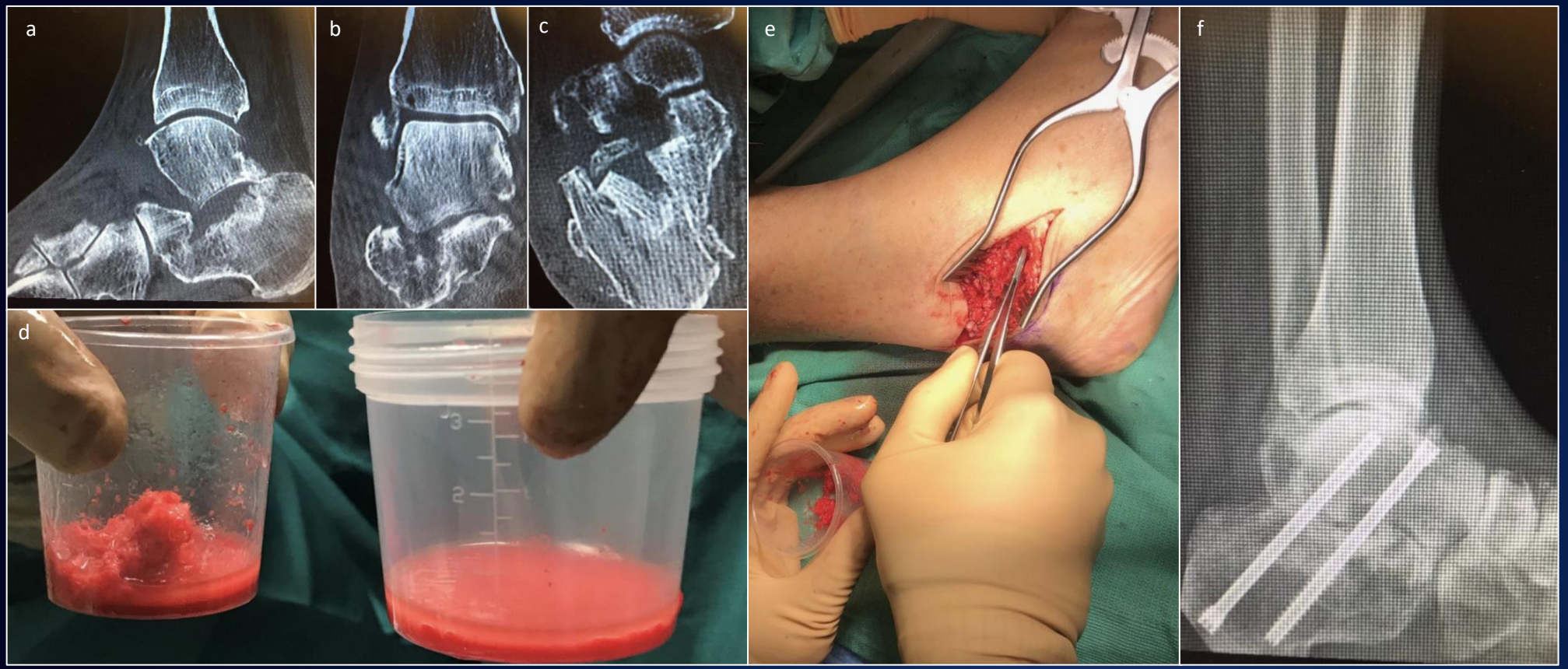
CASE REPORT | TRAUMA

70/M with Calcaneus Fracture



[a-c] CT Scans showing joint depression and comminuted calcaneus fracture.
[d] 20cc of autologous cancellous bone and 10cc of non-diluted bone marrow™ collected with the Avitus® Bone Harvester in 4 minutes.
[e] Subtalar joint packed with Avitus® harvested autologous graft.
[f] Post-operative radiograph at 8 weeks showing bone consolidation at the subtalar arthrodesis site.

Patient experienced no harvest site pain at 3 weeks follow up, and pain-free ambulation at 12 weeks.

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