

**Myriad™**

# Lower Extremity Reconstruction

Clinical Case Series



Unlocking regenerative healing for everybody

## Lower Extremity Reconstruction

### Clinical Case Series

#### Surgical dehiscence post transmetatarsal amputation

74-Year-old, male with uncontrolled diabetes, peripheral vascular disease and chronic kidney disease presented with gangrene and osteomyelitis and a prior forefoot amputation that was open with exposed bone and tendon. Debridement of non-viable soft tissue and bone was performed. Myriad Morcells™ 500 mg was applied directly to the wound bed followed by Myriad Matrix™ 10 x 10 cm, 5-layer stapled into place. By day 10, Myriad was well integrated and vascularized with no complications. A STSG was placed. One week later, there was 90% graft take. By day 31, the graft had fully epithelialized with robust, functional tissue.



Initial defect



Myriad Morcells™ application



Day 10



Day 31

#### Necrotizing soft tissue infection of the foot

28-Year-old, male with insulin-dependent diabetes presented with a necrotizing soft tissue infection and sepsis of the foot. In a staged procedure, debridement of non-viable soft tissue and bone was performed resulting in a volumetric defect with exposed tendon and bone. At the second stage, Myriad Matrix™ 10 x 10 cm, 5-layer was applied directly to the wound bed and stapled into place followed by NPWT. At week 1, Myriad was well integrated revealing 100% viable granulation tissue and full coverage of bone and tendon. A STSG was placed. At week 3 there was 90% graft take. By week 8 the STSG had fully integrated with a pliable scar. The foot was functional and the patient was able to wear shoes and return to work. There was no recurrence at 6 months.



Initial defect



Resection



Myriad Matrix™ application



Week 1



Week 3 (2 weeks post STSG)



Week 8



## Lower Extremity Reconstruction

### Clinical Case Series

#### Hematoma with exposed muscle and tibia

68-Year-old, male presented following a traumatic fall and sustaining bilateral deep leg hematomas. These were left untreated for 1.5 months results in significant necrotic nonviable tissue and exposed muscle belly. The patient underwent debridement and application of Myriad Morcells™ 1000 mg to the undermined areas and then overlaid with Myriad Matrix™ 10 x 10 cm 5-layer followed by NPWT. After 1 week, Myriad Matrix was well adhered with observed granulation formation. By week 3, residual Myriad Matrix was gently debrided to reveal well vascularized granulation tissue and coverage of exposed muscle and bone. By week 12, a small area (<1 cm<sup>2</sup>) remained. The patient went on to heal.



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## Lower Extremity Reconstruction

### Clinical Case Series

#### Chronic lower extremity wound

40-Year-old male with uncontrolled diabetes, peripheral vascular disease and a prior amputation, developed a full thickness ulcer of the right lateral foot with exposed bone and tendon. The wound had been present for 9 years with chronic osteomyelitis and multiple prior abscesses. The approximate wound size was 4 x 2 x 0.3 cm. A talectomy and application of external fixation was performed to address angular deformity and stabilize the ankle. Five months later, Myriad Morcells™ 500 mg was applied with Myriad Matrix™ 10 x 10 cm, 5-layer overlaid. At 3 weeks, budding of granulation tissue was noted with good integration of Myriad into the wound bed. At week 10, vascular neodermis had formed with visible epithelialization. Final closure by secondary intention was planned and by week 14 there was near full epithelialization.



Initial defect



Myriad Morcells™ application



Myriad Morcells™ application



Week 3



Week 10



Week 14

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## Lower Extremity Reconstruction

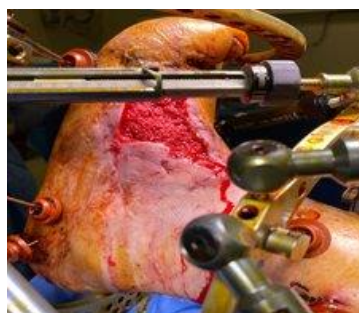
### Clinical Case Series

#### Charcot Reconstruction Dehiscence with exposed bone and joint

52-Year-old, male with uncontrolled type 2 diabetes, Charcot Arthropathy and peripheral arterial disease presented with a full thickness wound with deep sinus and exposed bone and joint. The patient had a surgical dehiscence status post a triple arthrodesis/medial column fusion with internal and external fixation. Following left ankle debridement with an external fixator, Myriad Morcells™ 1000mg was applied into the deep tunnel with Myriad Matrix™ 5 x 5 cm, 3-layer overlaid followed by NPWT. By week 1, Myriad had well adhered. By week 2, robust granulation was observed, the depth had 100% filled and the bone and joint was covered. The patient was a poor candidate for a STSG so the patient was returned to the OR to remove the external fixator and a second application of Myriad Matrix was made. By week 4 (from the initial procedure and day 5 from second placement of Myriad Matrix), NPWT was discontinued, and a bolster dressing was applied. By week 6, residual Myriad was gently debrided revealing 100% granular wound bed, 100% depth of wound with viable soft tissue. By week 10, the wound was 80% epithelialized and by week 12, the wound had 100% healed by secondary intention with Endoform®.



Initial defect



Application



Week 1



Week 2



Week 4



Week 6



Week 10



Week 12

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## Lower Extremity Reconstruction

### Clinical Case Series

#### Plantar fibromatosis reconstruction

60-Year-old, male presented with recurrent plantar fibromatosis of the left foot and in significant discomfort. The patient had received 3 local excisions previously. The patient underwent a full thickness dissection with wide margins. Myriad Matrix™ 10 x 20 cm 3-layer was applied and secured to the wound bed with staples. By day 4, Myriad Matrix was well adhered and granulation tissue was visible. By day 10, there was complete coverage over exposed tendons. Endoform was placed over the 1<sup>st</sup> MTP joint for more robust coverage, with continuation of NPWT. By day 32 there was complete coverage and the defect had filled with well vascularized tissue. The patient was scheduled for a STSG 2 weeks later.



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