

InnovaMatrix™ AC

Case Study



Hallux Ulceration

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Triad Life Sciences® is a biotech company dedicated to increasing patient access to innovative, reliable and affordable technologies that address acute, traumatic, and chronic wounds, surgical applications, soft tissue injuries, and other regenerative applications.



Products Used:
InnovaMatrix™ AC
Wound Type: Hallux Ulceration
Applications: One
Time to Close: Two weeks

Patient and Diagnosis:

A 46-year-old male patient initially presented in the office for a wound on the right great toe. Records revealed that the wound had greater than a 1-year history. Having progressed to a Wagner Grade 2 ulceration with infiltration into the subcutaneous tissue layer, the ulcer was diagnosed as secondary to the primary diagnosis of hallux limitus with associated neuropathy and increased contact pressures inferior to the hallux IPJ.

Comorbidities:

Coronary Artery Disease, Hypertension, Diabetes, Obesity, Neuropathy, Smoking

Prior Treatment History:

Patient had previous treatment of the ulcer at a wound care clinic with basic saline and betadine dressing and debridement. The patient did not have previous treatment with an advanced tissue membrane or unloading of the affected toe.

Treatment began with repeated debridement and applications of collagen dressings, along with offloading of the affected joint with a walking boot. The ulcer showed evidence of healing progression but the underlying hallux limitus was preventing complete resolution, so the decision was made to surgically treat the hallux limitus and ulcer.

Wound Treatment and Outcome:

The hallux limitus was treated using the Keller Technique for the right first metatarsophalangeal joint. In conjunction with the surgical deformity correction, the ulcer was debrided and treated with InnovaMatrix AC. Following that surgical debridement and prior to the placement of InnovaMatrix AC, the wound measured 1.1cm in length and 1.6cm in width (*Image 1*). The patient returned for examination approximately two weeks later, at which time the right plantar medial great toe ulceration was healed (*Image 2*).



Image 1: Measurements after initial surgical debridement were 1.6cm x 1.1cm



Image 2: Wound closure achieved in two weeks after single placement of InnovaMatrix AC



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