

Case Study - Diabetic Foot

Using Amfit's Orthotic Fabrication System & Tekscan's F-Scan Pressure Mat to Optimize Treatment Outcomes of Foot Orthoses.

*A Case Study: Treating a Cuboid Ulceration in Patient with Diabetes.
- Bruce Williams, DPM*

Pressure & contour information all at your fingertips.

For the best possible patient outcomes, you need all the information you can get. Using TekScan's MatScan pressure mapping technology to assess pressure points and gait anomalies and



Amfit's Contact Digitizer and Correct and Confirm software to design the optimal orthosis ensures the best possible patient outcomes.



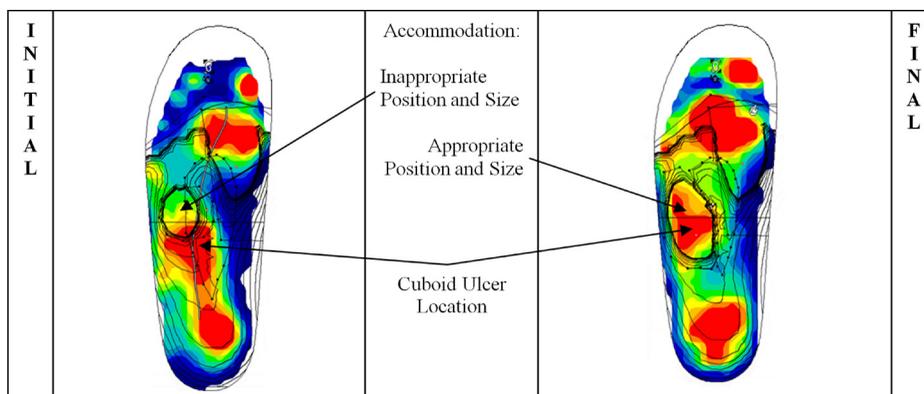
A 52 year-old male presents to office stating that he has a history of partial toe amputation and diabetes over the last 10 years. He had a skin graft on the bottom of the first metatarsal phalangeal joint of his right foot, and reconstruction of his left heel and arch. The patient presents with a cuboid ulceration on the left foot. He has Charcot changes on the left foot with a plantarflexed area of his cuboid and cuneiform 2-3 left.

To treat the condition, a foot orthosis was prescribed and manufactured using the combined overlay of the plantar pressure profile and the 3-D digital image of the foot orthosis (Amfit).

The initial accommodation to treat the ulcer was placed in an inappropriate location, and with too small of a size.

Overlay of the F-Scan plantar pressure profile onto the Amfit digital image of the foot orthosis allowed determining the location of the ulcer and the optimal size for the accommodation. The prescription accommodation was then correctly re-positioned and re-sized onscreen using Amfit's Correct and Confirm software.

Initial (before wearing foot orthosis) and Final (with wearing foot orthosis). Overlay of the Plantar Pressure Profile with the Map Relief of the Amfit Foot Orthosis.



Amfit Digital Image of the Prescribed Foot Orthosis. Orthosis is then made via CAD-CAM (computer aided design - computer aided manufacturing).

