



# CASE STUDY



## Novel Wound Debridement Chronic Diabetic Foot Ulcer

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preserving healthy tissue while also precisely leveling the wound and periwound uniformly, facilitating closure. The blade edge features proprietary MicroCoat® technology designed to create a smooth and resistance-free incision.

### Overview

A 70-year-old male presented with a chronic diabetic foot ulcer, measuring 3.5 x 3.5 x 0.3 cm. Dr. Igor Melnychuk, Asheville VA Wound Care Clinic, treated the wound with a DebrideBlade® to remove hypergranulation tissue quickly and effectively and leave a moist, level wound bed for expedited healing.

Seven weeks after treatment, the wound size had reduced from 3.5 x 3.5 x 0.3 cm to 1 x 1 x 0.2 cm, a 94% reduction.

### Patient Condition

As presented, the wound appeared that if untreated could also lead to severe tissue and bone infection, leading to a higher

level of amputation.

The objective of effective wound treatment is to prevent the need for amputation and minimize the risk of infection.

According to Dr. Melnychuk, "It's a known fact that if a diabetic patient loses one leg due to a diabetic foot ulcer, there is at least a 50% chance that he'll lose his contralateral extremity within three years."

### Treatment

Dr. Melnychuk used the DebrideBlade to remove the wound's hypergranulation tissue in less than 15 seconds by engaging the wound base with the middle of the blade and enacting a side-to-side planar motion. The rocking action allows the sharp DebrideBlade to glide through unwanted tissue quickly,

"Had I used a scalpel or a curette to debride this wound, it would certainly have taken several minutes," Dr. Melnychuk says. "And neither of those can provide as clean or precise and leveled debridement as the DebrideBlade."

### Outcome

The immediate outcome was a highly vascularized and moist wound bed with a level surface that allowed for additional uniform topical treatment (placental graft). At seven weeks post-op, the patient's wound was well on its way to closing, measuring 1 x 1 x 0.2 cm. Wound size had decreased by 94% and a uniform, level wound margin was maintained.

**Before treatment**



**During treatment**



**7 weeks later**



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