

NITRIC OXIDE, IT'S ROLE IN DIABETES, PERIPHERAL NEUROPATHY, AND WOUND HEALING

Chesapeake General Hospital Wound Healing and Hyperbaric Medicine Center

Anodyne Therapy System Use

A Case Study

Patient: 2001-33

Diagnosis: Diabetic patient with traumatic, infected wound on left heel

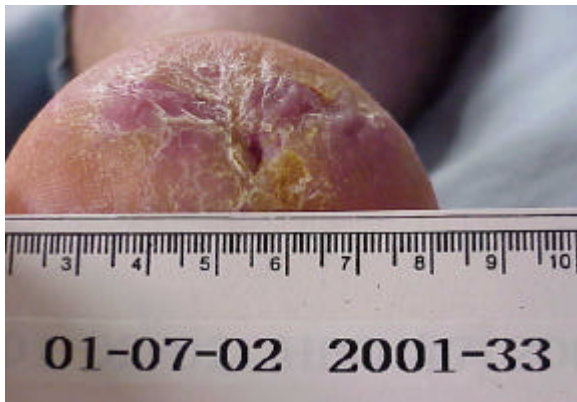
Reason for Referral: 45-year-old male was referred to the Chesapeake General Hospital Wound Healing and Hyperbaric Medicine Center for a Transcutaneous Oxygen Assessment secondary to a non-healing wound. This test revealed a hypoxic wound with a good response to 100% ambient oxygen, indicating that he was a good candidate for Hyperbaric Oxygen Therapy.

Clinical Challenge: Hyperbaric Oxygen Therapy was initiated on 04-27-01. Unfortunately, this patient could not tolerate HBO Therapy due to pulmonary edema and shortness of breath which developed during the treatments. Comorbidities included: IDDM times 20 years, hypertension and PVD.



After 5 Months of **Conventional Therapy**

**Anodyne[?]
Therapy
Started
8-30-01**



**Resolved
5 Months**



CASE STUDY – DIABETIC WOUND

Management Plan and Treatment: The patient received conventional wound care consisting of dry dressing (per patient's MD) with sharp instrument debridement as needed every day from 04-27-01 to 08-30-01. At this point, the patient was demonstrating very little improvement, and the physician was approached regarding [Anodyne[®] infrared therapy](#). Through serial digital photography, a significant improvement can be seen in the wound on 09-06-01, one week after the initiation of the Anodyne[®] Therapy System. The patient's treatment protocol consisted of a 30-minute treatment five days a week with cleansing of the wound and sharp debridement as needed followed by a dry dressing. All four Anodyne[®] Therapy pads were utilized, two directly over the wound and then two on the dorsum of the foot. Prior to initiating the Anodyne[®] Therapy, the patient rated his neuropathy as 7 on a 0 to 10 scale, 10 being no feeling at all, and 0 being 100% feeling. The patient now states that his neuropathy is a 2-3 on a 0 to 10 scale.

Results: Accelerated healing was noted after the addition of the Anodyne[®] Therapy to the wound care protocol. The improvements are best documented by the photographs above. **Note: Based on the results from Anodyne therapy, Chesapeake General Hospital Wound Healing and Hyperbaric Medicine Center is now using this therapy on several other patients with equally good results.**

[To learn more on how nitric oxide and the Anodyne system work click here](#)

This information was supplied to us by MedAssist, the company responsible for the development and marketing of Anodyne[®] Therapy system.