

## Hyperbaric Oxygen Therapy for Diabetes



Non-healing wounds are often associated with inadequate circulation, poorly functioning veins, reaction to radiation therapy, traumatic injury, and immobilization. Non-healing wounds of the feet among people with diabetes are one of the most common non-healing wounds, and one of the most significant complications of diabetes. Left untreated or not treated timely or properly, wounds may become infected, and lead to severe disability or even amputation.

Hyperbaric Oxygen Therapy (HBOT) is beneficial for many types of chronic wounds. Patients breathe 100% oxygen at increased atmospheric pressure. Oxygen levels rise and are carried into the plasma and tissues surrounding the wound. Chronic osteomyelitis, diabetic wounds, ischemic wounds, and late radiation injury are some common wounds that can benefit from HBOT treatment.

HBOT increases the amount of oxygen available to ulcerated areas, leading to increased fibroblast activation. Studies have demonstrated the benefits of HBOT for diabetes as seen on the right.

<http://o2oasis.com/routine-covered-chronic-conditions/diabetic-wounds-of-the-lower-extremities/>



### Benefits of Hyperbaric Oxygen Therapy

#### Improves Blood Chemistry

Fasting Blood Sugar

Lipid Profiles

Hemoglobin HbA1c



#### Advances Glycemic Control

Increases Pancreatic Islets of Langerhans

Increases Uptake of Glucose by Skeletal Muscle

Improves Insulin Sensitivity

#### Decreases Cardiovascular Risk

Promotes Long-Term Blood Pressure Control

Reduces Risk of Sudden Heart Attack Due to Ventricular Arrhythmias

Attenuates Metabolic Syndrome

#### Stimulates Angiogenesis & Reduce Inflammation

Improves Brain Function & Reduces Risk of Stroke

Reduces Risk of Diabetic Retinopathy

Minimizes Risk of Diabetic Nephropathy

Enhances Heart Function & Reduces Risk of Heart Attack

Decreases Risk of Diabetic Neuropathy

Combats Cellulitis

#### Enhances Internal/External Healing

Proliferates Epithelialization

Decreases Risk of Infection

Reduces Risk of Amputation

Promotes Closure of Non-Healing Wounds

Ameliorates Ulcerations

Remediates Osteomyelitis

## OXYGEN OASIS HYPERBARIC WELLNESS CENTER

is a free standing Advanced Wound Care and Hyperbaric facility. Our mission is to offer a safe harbor for healing in a state-of-the-art Wellness Center, providing extraordinary care, through Advanced Wound Care, Hyperbaric Oxygen Therapy and Pediatric Integrative Medicine. Our primary focus is overall well-being and quality of life for our patients and their families.

### Our Services

- Hyperbaric Oxygen Therapy
- Advanced Wound Care
- Biomedical - Pediatric Integrative Medicine



# Diabetes & HYPERBARICS

## Additional Benefits

- Enables damaged cells to produce the extra energy needed for healing
- Stimulates the growth of new blood vessels to improve circulation
- Helps the body fight infection
- Dramatically increases stem cell activity
- Reduces inflammation and edema



## How Hyperbaric Oxygen Therapy (HBOT) Works

HBOT is the use of increased pressure and increased oxygen as a treatment for wounds in the body of any location and of any duration. It is a non-invasive wound healing therapy and it works by treating the underlying disease processes that causes the wounding. Through repetitive exposure of treatment in a hyperbaric chamber and with a short increase in pressure and oxygen, up to 8,101 genes in every cell in our body are stimulated to either upregulate (turn on) or down regulate (turn off). The ones that are turned on are those that code for growth and repair hormones and the inflammatory genes. The ones that are turned off are the pro-inflammatory genes and the ones that code for program cell death.



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*The content of this brochure is for information only and not to be considered medical advice nor is it intended to be used to diagnose or treat individual problems. The use of oxygen under pressure (HBOT) in the healing of wounds is well described in part of mainstream medicine. Although not FDA approved, the use of HBOT in the treatment of internationally treated conditions offers hope for improvement in symptoms not previously seen with other interventions or treatments.*