

**“70 to 90 per cent of diabetes related amputations *can* be prevented with timely hyperbaric oxygen therapy”**

*Diabetes Spectrum*

### What is hyperbaric oxygen therapy?

Hyperbaric oxygen therapy is a natural and effective method to saturate your body with oxygen. Oxygen is vital for optimal health and healing.

Proper hyperbaric treatment allows you to comfortably lay inside a see-through oxygen chamber completely surrounded with oxygen for 1½ hours while napping or watching TV.



*One of four hyperbaric chambers at BaroMedical*

### How is proper oxygen therapy provided?

The hyperbaric chamber is filled with pure medical grade oxygen and is gradually pressurized up to therapeutic pressure. As the pressure increases, it is normal to experience a mild and temporary “fullness” in the ears.

A course of 10 to 20 sessions over a two- to four-week period will initiate capillary and nerve regeneration, as well as organ repair.

**Book your free tour today**

### Case report: Diabetic foot ulcer

Foot ulcers result from poor circulation and are a primary cause of amputation among diabetics. If left untreated, there is an increased risk of further amputations and premature death.

Early hyperbaric oxygenation can stop tissue necrosis and effectively restore the blood flow of the affected foot, as well as the contralateral foot.



#### Diabetic foot ulcer

Male: 55 years, non-smoker. Left foot had partial amputation three months earlier due to similar ulcer. The right foot with open wounds had only 30% of vital oxygen and blood flow.

**Hyperbaric oxygen therapy:** nine sessions over two weeks provided return of blood flow and oxygen for normal wound healing. Right photo shows complete wound closure after four months.

#### Diabetes recovery

“My diabetes caused numbness in my feet and wounds that would open suddenly but not heal for a very long time.

With oxygen therapy my blood glucose finally got under control and my kidney results are better. Best of all I do not have numb feet and I can enjoy dancing again.”



*Phillip K., Vancouver*

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# Wound Care with Oxygen Therapy



**www.BaroMedical.ca**



# Optimum Wound Care with Hyperbaric Oxygen

## Limb amputation prevention

BaroMedical's limb amputation prevention program is geared towards maintaining healthy circulation in whole body. Microcirculation monitoring with preventive hyperbaric oxygenation can **reverse neuropathy** and **reduce risk of heart attack and stroke**.

**Reverse aging and preserve vitality** by maintaining healthy circulation with hyperbaric oxygenation.

## Wound Healing Requires Oxygen!

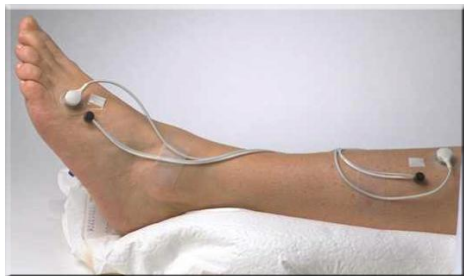
Clinical evidence shows that added oxygen improves microcirculation and promotes accelerated wound healing.

Oxygen also reduces infection, inflammation, swelling, pain, and wound odor.

Our wound care program combines advanced wound dressings, hyperbaric oxygen therapy, and electrical stimulation. This creates the ideal conditions for wound closure and tissue repair.



## Microcirculation Assessment



BaroMedical uses state-of-the-art assessment technology with laser Doppler flowmetry and transcutaneous tissue oxygen monitors to precisely measure the amount of oxygen delivered to the cells -before, during, and after the therapy.

This will help monitor the healing progress and determine the therapy endpoint.

## Benefits of Hyperbaric Wound Care

- ✓ **Releases stem cells** for tissue repair
- ✓ **Improves oxygenation** to initiate and maintain wound healing
- ✓ **Improves circulation** by stimulating new capillary growth
- ✓ **Reduces inflammation, swelling, pain, and odor** with improved circulation
- ✓ **Fights infection** directly by aiding white blood cell activity and enhancing the benefits of antibiotics
- ✓ **Strengthens** the body's immune system
- ✓ **Promotes nerve growth** to reduce pain, neuropathy, numbness, tingling, cramping, and burning sensation
- ✓ **Improves bone density** (osseogenesis)
- ✓ **Improves energy and hormone control**
- ✓ **Eliminates toxic substances**

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## Testimonial: Wound care

"I couldn't cope with pain any more even with 12 painkillers per day. My work and my private life were suffering and I was very depressed until I found oxygen."

"I can't believe the results. I got my life back and I am happy again."



Kornelia U., Burnaby

## Case Report: Tunneling Wound



### Tunnel wound:

Pending below knee amputation due to critical ischaemia in the whole foot.

Open, painful, infected heel wound with severely reduced blood flow and loss of sensitivity in the foot.

Walking and balance was impaired even with offloading and assistive cane.



### Hyperbaric oxygen

Daily hyperbaric oxygen therapy and wound care over six weeks allowed for the reinstatement of microcirculation, infection control, and complete wound closure, avoiding amputation.

Circulation in the non-affected foot improved significantly as well.

## Stem Cell Therapy

**Hyperbaric Oxygen Therapy is the most natural, safe, and cost-effective stem cell therapy available.**

As we age, our stem cells decline both in number and regenerative capacity.

A single 90 min hyperbaric oxygen session at 2.4 atmospheres can double stem cell count and twenty consecutive sessions can increase stem cell production by up to nine times.