

What are the most common conditions treated by the HBOT?

Patients with:

- Radiation tissue damage
- Chronic osteomyelitis
- Chronic, non-healing wounds
- Diabetic complications
- Non Haemorrhagic stroke
- Multiple Sclerosis
- Bone Fracture & Crush injuries
- Other problems (see following list)

When else should Hyperbaric oxygen be utilised?

- Air and gas embolism
- Carbon monoxide poisoning
- Smoke inhalation
- Gas gangrene
- Ischemias
- Decompression illness
- Exceptional blood loss
- Necrotizing soft tissue infections
- Thermal burns
- Intracranial abscess
- Acute migraine
- Leg ulcers
- Pressure sores

How can I be referred?

To be referred for consultation, patients need to have a prescription from your Medical Practitioner.

Directions to the National Hyperbaric Centre:

From O'Connell Street, go west up Abbey Street, turn onto Liffey Street and then onto Great Strand Street.

We are situated 40 metres from Jervis Street Luas Station.



The Frontage Of Our 6000sq/ft. Drive-In Facility

"If you want to be a survivor you must take the time and energy to study, research, and take an active role in your own health and healthcare."

Susan Rodriguez C.H.T.

Related Sites:

www.hbomedtoday.com
www.hbot4u.com



**Hyperbaric
Oxygen
Therapy**



Our Spacious Therapeutic Unit

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Members of the Undersea & Hyperbaric Medical Society

Why NHC?

100% specialised in hyperbaric medicine - a therapy which significantly enhances the healing of chronic wounds and other conditions.

Why 2 Multiplace Units?

- More comfortable, less claustrophobic and much safer than monoplace chambers.
- Patients can read, listen to C.D s while having treatment.
- Effectiveness supported by the UHMS. (Underwater Hyperbaric Medical Society)
- Free-standing centre with expeditious registration.
- Fully wheelchair accessible.
- On site 72 10 person Drass Twinlock DDC recompression chamber available to the commercial diving and tunnelling industry.
- Hyperbaric Oxygen accelerated vascular proliferation and stimulates osteogenesis.

What is Hyperbaric Oxygen Therapy?

Hyperbaric medicine is an emerging medical speciality, which utilises oxygen at greater-than-atmospheric pressure.

For years hyperbaric oxygen has been the definitive treatment for decompression illness, air embolism, and carbon monoxide poisoning. Today it is used as an adjunctive therapy for deep-seated bone and soft tissue infections, non-healing wounds, preservation of compromised soft tissue flaps and grafts, and the management of wounds in radiated tissue.

How does Hyperbaric Oxygen Therapy work?

Patients breathe 100% oxygen at elevated pressure. The increased pressure causes a 10 to 15 fold increase in plasma oxygen concentration and tissue oxygenation. This effect is delivered to the developing capillary bed promoting capillary growth, white blood cell activity, fibroblast proliferation and new tissue development.

Hyperbaric oxygen therapy saturates the patient's plasma with oxygen resulting in increased oxygen delivery to tissues.

Specific to H.B.O.T:

- Dissolves oxygen in the plasma.
- Increases oxygen tension in hypoxic areas.
- Enhances white blood cell activity at the wound site.
- Reduces edema by vasoconstriction.
- Eight fold increase in **stem cells** after 10 treatments

What is a Hyperbaric Chamber?

Patients are treated in a large, comfortable chamber (9 wide and 32 long). NHC personnel accompany patients inside the chamber. Medications, juices, snacks and other supplies can be passed into the chamber. During their treatment, patients read or listen to C.D s.

Are there any Contraindications? (Prohibiting Factors)

Untreated pneumothorax, congenital spherocytosis, Disulfiram (Antabuse) Doxorubicin (Adriamycin), Cis-Platinum, Emphysema and Mafenide Actetate (Sulfamylon) may be contraindications.

What if I am a smoker?

To receive the maximum benefit from hyperbaric oxygen therapy, patients are encouraged not to smoke during the course of therapy. Smoking (even one cigarette) causes blood vessels to constrict, which decreases the blood and oxygen supply to tissue, counteracting the benefits of hyperbaric oxygen.

Are side effects possible?

The most common side effect is barotrauma to the ears and sinuses. To minimise this risk, patients learn to clear their ears during compression. Other side effects are more rare, but may include oxygen toxicity, claustrophobia.

Sports Injuries

This treatment is now approved by the International Olympic Committee.

Also Approved by

Food and Drugs Administration. (FDA)
European Committee for Hyperbaric Medicine. (ECHM)
The Department of Health. (NHS)

How are treatments given and how often?

The chamber is compressed with air and patients breathe oxygen through masks. Treatment duration, chamber pressure and the total number of treatments are based upon established protocols for each diagnosis.

Conditions such as CO poisoning may only require one or two treatments, while wound healing may require 20-30 treatments. Patients are regularly evaluated to ensure that they will benefit from continued treatment.