

What else do I need to know?

You may eat a light meal but no carbonated drinks (pop) 2 hours prior to treatment. No smoking or vaping 2 hours prior and 2 hours after treatment. Smoking or vaping decreases the amount of oxygen that can be transported by the blood. It is strongly recommended

that patients do not smoke or vape during the course of treatment.

IF YOU ARE AN INSULIN DEPENDENT DIABETIC, PLEASE TAKE YOUR INSULIN AND REGULAR DIET PRIOR TO YOUR TREATMENT.

If you have any questions or concerns talk to your doctor.

If it is necessary for you to cancel an appointment; the earliest possible notice would be greatly appreciated.

"OUR LOGO" developed by Judy Armstrong Design



visual identity for the Hyperbaric Oxygen Unit began from historical information about the therapy. Originally the therapy was used for treatment of divers and aviators, both of whom are subjected to exteme changes in atmospheric pressure. The breathing gas of choice for recompression of these patients was found to be oxygen. Oxygen and another key element, compression, combine to form what we know as Hyperbaric Oxygen Treatment.

The development of a

From this historical information came the following visual elements. The scientific notation for Oxygen (O2) was chosen as a starting place. Because compression is a vital characteristic of HBO therapy a vertical, thin, compressed (O) also makes reference to an aerial view of the chamber used for HBO therapy. The (O) is left open-ended to represent the fact that this emerging therapeutic modality is still developing and being researched for previously unknown clinical indications. The exteme depth of water and height in the sky, is represented by a narrow rectangle darker on the bottom half (water) and lighter on the top (sky).





Compassionate care led by Catholic values

About Us

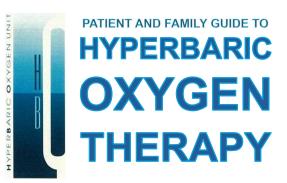
The staff at the Covenant Health Hyperbaric program are committed to giving you the best possible therapy. We have a dedicated group of consulting physicians closely aligned with our iRSM program, a world class center of excellence. We strive to continuously improve our services based on your feedback. Should you wish to contribute to the program, please contact the Covenant Foundation. If you have any questions or problems, please do not hesitate to call us.



Misericordia Community Hospital

EMERGENCY DEPARTMENT: (780) 735-2627 HBO UNIT ROUTINE INQUIRIES: (780) 735-2537

BOOKINGS/CANCELLATIONS: (780) 735-2768
RESPIRATORY CARE: (780) 735-2706
FAX: (780) 735-2522







Misericordia Community Hospital 16940 87 Ave. NW Edmonton, AB, T5R 4H5

What is Hyperbaric Oxygen Therapy?

Hyperbaric oxygen therapy is a medical treatment that Is used to treat a limited but diverse series of illnesses. It is the primary treatment for disorders such as carbon monoxide poisoning, decompression sickness and arterial gas embolism. It is also an effective adjunct in a combined program involving antibiotics, dressing changes and surgery for the enhancement of healing. This includes:

- 1. Chronic Osteomyelitis
- 2. Radiation tissue injury (both soft tissue & bone)
- 3. Selected problem wounds
- 4. Crush injuries, and
- 5. Skin graft and flap support

A Hyperbaric Chamber is a clear plastic cylinder that is specially designed and built to withstand increased pressure and allows patients to receive hyperbaric oxygen.

How does Hyperbaric Oxygen Therapy Work?

Hyperbaric Oxygen Therapy is the medical use of 100% oxygen at increased atmospheric pressure. This increased pressure provides more oxygen to the body than is possible under normal atmospheric conditions. Most treatments are between two and three atmospheres of pressure, typically referred to as "diving", as the pressure change closely proximate scuba diving. The increase of pressure dissolves more oxygen into body tissue and blood so that the body is saturated with more oxygen than normal to enhance healing.

How often are treatments given?

The length and frequency of treatments will be individualized for you and your condition and will be scheduled with your other treatments. Hyperbaric oxygen is a very important part of your total care program.

For most conditions, patients are treated once or twice a day – Monday through Friday – and treatments may last 2-21/2 hours. Some emergency conditions will require only one or two treatments. In most cases of wound healing support, the effects are gradual and 20-40 treatments may be required.

Who gives me my Hyperbaric Oxygen Treatments?

Our physician team includes emergency physicians, surgeons, and intensivists. While in the chamber your treatment is managed by a Respiratory Therapist with specialized training in hyperbaric medicine. This therapist will always be in the room, and you will be able to see and talk to the therapist throughout your treatment.

What will I feel during the Hyperbaric Oxygen Treatment?

Once the treatment begins you will hear the oxygen coming into the chamber. It may sound like hissing or a waterfall. You will feel a fullness in your ears as your eardrums adjust to the change in the chamber pressure. This is very similar to the feeling you experience when you are in an airplane or elevator. You will be taught how to clear your ears, or equalize the pressure, before you start your treatments.

As the chamber is being pressurized you may feel a rise in air temperature. This will return to normal once the treatment pressure is reached. You may also have to use a mask intermittently for a procedure we will teach you called "air break."

If you experience any problems while the chamber is being pressurized or during the treatment, tell the Respiratory Therapist immediately.

Hyperbaric oxygen therapy is used to treat:

- embolisms (air or gas bubbles in the blood stream, which may travel to the brain or lungs)
- carbon monoxide poisoning (from inhaling smoke or car exhaust)
- gas gangrene
- crush injuries, compartment syndrome and other acute traumatic problems where blood flow is reduced or cut off (e.g., frostbite)
- o decompression sickness (the bends)
- select problem wounds
- exceptional blood loss (anemia)
- intracranial abscess (an accumulation of pus in the brain)

- necrotizing soft tissue infections (flesh-eating disease)
- o osteomyelitis (bone infection)
- delayed radiation injuries (e.g., radiation burns that develop after cancer therapy)
- skin grafts and flaps that are not healing well
- thermal burns (e.g., from fire or electrical sources)
- idiopathic sudden sensorineural hearing loss

Are there any risks to hyperbaric oxygen therapy?

Yes, but most of them can be dramatically reduced with the proper management. The risks can be divided into two types, safety and physical risks.

PHYSICAL RISKS

Ear Discomfort

Increasing the pressure in the hyperbaric chamber can cause ear discomfort. If you are unable to equalize the pressure by swallowing or yawning, you can have a small hole made in your eardrum. This is called myringotomy and will heal quickly once your treatments are finished.

Oxygen Toxicity

Oxygen toxicity can occur if a patient is overly sensitive to oxygen. This is very rare and affects only 1 person in 10,000. Signs of oxygen toxicity are tingling in the fingers, nausea, dry cough, seizures and chest pain.

Visual Changes

After many treatments some changes in vision may be noticed: any changes usually return to pretreatment vision levels in a 6 week to a 6-month period.

SAFETY RISKS

Fire is the biggest safety risk because of the 100% oxygen in the hyperbaric chamber. You will be asked not to take anything into the hyperbaric chamber without asking the therapist.

You may not take in:

O cigarettes O jewelry/watches

O lighters
O matches
O anything paper
O metal objects
O contact lenses
O hearing aids

You will be asked to remove anything with oil in it, such as:

O lipstick O makeup
O hair oil O cream
O hair spray O nail polish

O ointments O cologne or perfume

O liniments O deodorant

You will be given a special gown to wear during the treatment. It is made of 100% cotton to reduce the risk of fire. Please do not wear any other clothing into the hyperbaric oxygen chamber without checking with the therapist.

You may not wear:

O nylons O synthetic clothing



