

What is Hyperbaric Oxygen Therapy?

General Information

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Abbott Northwestern Hyperbaric Department

800 E 28th St

Abbott Northwestern Hospital, Fourth Floor (W4350)

Minneapolis, MN 55407

Hours

Monday through Friday

8AM-4PM

Hyperbaric Department and Wound Clinic Scheduling Phone Number

(612) 863-3110

Treatment Team



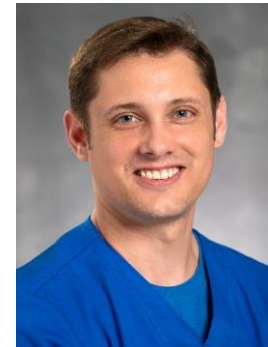
Senthil Jayarajan Medical Director, MD, MS



Brooke Wools Safety Director, CHT, EMT-B



Joe Brandrud CHT, EMT-B



Ryan Mueller CHT, EMT-B

Safety Considerations

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While Hyperbaric Oxygen Therapy is a very safe and routine therapy, it also comes with unique safety concerns due to the pressurized Oxygen rich environment.

Some of the risks include:

- A potential for fire inside the Chamber
- Barotrauma
- Oxygen Toxicity

These risks will be discussed in greater detail during initial Hyperbaric consult. You will also have multiple trained staff in the room with you at all times monitoring your treatment.

The New Patient Process

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When a perspective patient is considering Hyperbaric Oxygen Therapy there are several steps, they will have to be completed prior to the first treatment.

1. The perspective patient will need a referral from their Doctor.
2. A Hyperbaric Consult will need to be completed to screen for Hyperbaric Contraindications and to make sure the patient has an approved indication for Hyperbaric Oxygen Therapy.

The New Patient Process (Continued)

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3. After the initial consult, the patient's information will be submitted to insurance for prior authorization.
4. After the insurance authorization process is completed, the patient will be contacted by Hyperbaric Staff to schedule their first treatment.
5. On the patients first day of treatment, the patient will be assigned a locker to store their belongings. The patient will also be given an in-depth education on Hyperbaric Oxygen Therapy.

What is Hyperbaric Oxygen Therapy?

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The Undersea and Hyperbaric Medical Society defines hyperbaric oxygen (HBO2) as an intervention in which an individual breathes near 100% oxygen intermittently while inside a hyperbaric chamber that is pressurized to greater than sea level pressure (1 atmosphere absolute, or ATA). For clinical purposes, the pressure must equal or exceed 1.4 ATA while breathing near 100% oxygen.

At Abbott Northwestern, Hyperbaric Oxygen Therapy is often used in adjunct to regular wound care and surgery for many of our most common indications.

What does Hyperbaric Oxygen Therapy Treat?

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At this moment, Hyperbaric Oxygen Therapy is currently approved by the Undersea and Hyperbaric Medical Society and the Centers for Medicare and Medicaid Services for the treatment of 14 indications.

The most common indications that are treated with Hyperbaric Oxygen Therapy at Abbott Northwestern are:

- Arterial Inefficiencies
- Osteomyelitis
- Delayed Radiation Injuries
- Compromised Grafts and Flaps
- Idiopathic Sudden Sensorineural Hearing Loss

What To Expect On Your First Day

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When you start Hyperbaric Oxygen Therapy you will be given a locker to store your belongings. These are located in the dressing rooms. You will also be given a brief tour of the department.

Prior to your first treatment you will be given a cotton gown to change into. You will also receive more in-depth instruction on the treatment.

As a Hyperbaric Patient it is important to arrive 15 minutes prior to your scheduled treatment time. You will be scheduled 5 days a week for a 2-hour treatment (not including patient preparation prior to treatment). Since the treatment requires a significant time commitment, it is important to arrange consistent and reliable transportation.

We understand if issues come up and you need to cancel your treatment. Please contact us at the number listed on the second slide.

Hyperbaric Chamber Picture

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The History of Hyperbaric Oxygen Therapy

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While Hyperbaric Oxygen Therapy is a unique treatment that many people aren't familiar with, the concepts and technology have roots dating back to the 1500's.

Hyperbaric Oxygen Therapy was developed by naval and diving communities, so you may hear words or expressions such "dive" or "at depth" used by Hyperbaric Staff During your treatment!

1500's – First Diving Bells

1662 – Henshaw domicilium created.

1819 – August Siebe invents first deep-sea diving suit.

1834 – Dr. Junod builds a Hyperbaric tank, complete with viewports and compressed air fittings.

1860 – First North American Hyperbaric Chamber built in Canada.

1889 – Moir uses hyperbaric therapy to treat workers building railroad tunnels underneath Hudson River.

Early 1900's – Dr. John Haldane develops first diving tables for Royal Navy. Earns title "Father of Oxygen Therapy."

The History of Hyperbaric Oxygen Therapy (Continued)

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Hyperbaric Oxygen Therapy History (Continued)

1918 – Dr. Orville Cunningham his first builds hyperbaric chamber and treats pneumonia patients.

1928 – Dr. Cunningham builds a 5-story hyperbaric medical hotel.

1939 - U.S. Navy began treating divers suffering decompression with hyperbaric oxygen therapy.

Mid-1950's – Hyperbaric therapy used for open heart surgery.

Mid-1970's – UHMS became the scientific arbiter of indications for hyperbaric oxygen therapy.

2006 – Allina Health – Abbott Northwestern opens their Hyperbaric Department.

Conclusion

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We look forward to getting to know you as we improve your body's ability to heal. Remember, This is a basic overview of Hyperbaric Oxygen Therapy. The Hyperbaric Staff will educate you further during your initial consult and on your first day of treatment.

Feel free to contact us with any questions:

Hyperbaric Department and Wound Clinic Scheduling Phone Number

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