



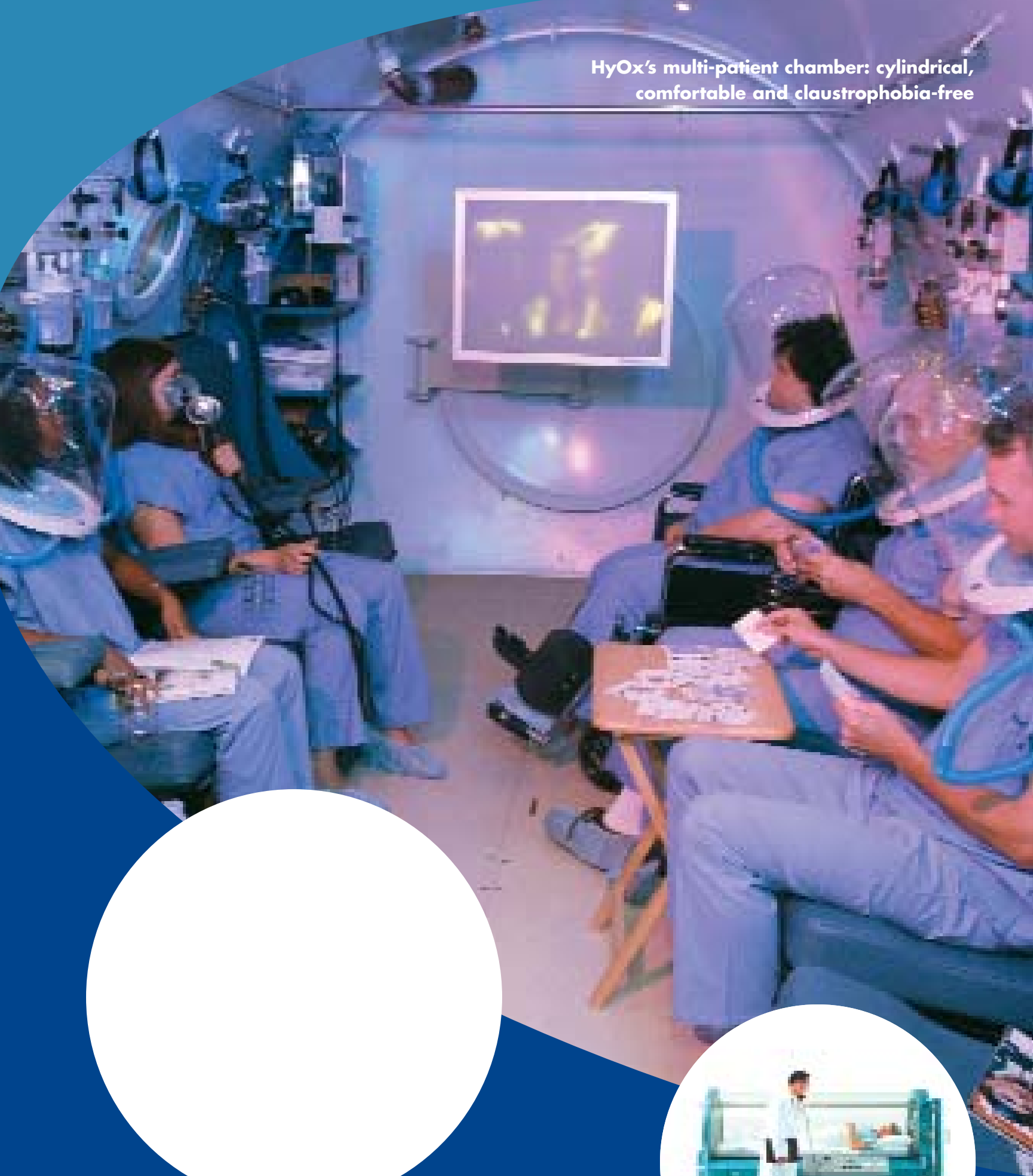
Healing. Hope. Freedom.

**TAKING OXYGEN THERAPY TO NEW DEPTHS
IN METRO ATLANTA'S LARGEST
MULTI-PATIENT HYPERBARIC CHAMBER**



**A GUIDE TO HYPERBARIC MEDICINE
AS ADJUNCTIVE CARE**

HyOx's multi-patient chamber: cylindrical, comfortable and claustrophobia-free



DIVE INTO HYOX MEDICAL TREATMENT CENTER'S APPROACH TO HYPERBARIC MEDICINE

When a patient's chronic, non-healing wound shows little improvement with conventional treatment, a physician's referral lands them at HyOx Medical Treatment Center. Once here, HyOx's **multi-disciplinary medical team** prepares the patient for treatment in the center's multi-patient hyperbaric chamber, the largest of its kind in metro Atlanta.

HyOx's adjunctive **hyperbaric oxygen (HBO₂)** therapy enhances traditional medical, surgical and rehabilitation methods for patients with a variety of conditions including:

- Diabetic foot wounds
- Delayed effects of radiation therapy (soft tissue radionecrosis, osteoradionecrosis)
- Compromised skin grafts and flaps
- Chronic osteomyelitis

Before a patient's HBO₂ treatment begins, HyOx physicians review the patient's history and conduct a complete medical evaluation which may include transcutaneous oxygen measurements to assess the wound's hypoxic state and evaluate the patient's microcirculation. HyOx's treatment protocol is customized to the patient's diagnosis, symptoms and overall condition.

Compressed air fills HyOx's spacious hyperbaric chamber to begin the virtual descent to 45-feet below sea level. During the "dive", the chamber is **pressurized to the equivalent of two to three times the pressure of air at sea level.**

The higher atmospheric pressure allows HyOx's medical team to saturate the blood plasma of up to 12 patients at a time with 100 percent oxygen administered through a mask, hood or tracheostomy tube.

HYOX MEDICAL TREATMENT CENTER SERVICES:

- Hyperbaric medicine consultations/evaluations
- Hyperbaric oxygen (HBO₂) therapy
- Transcutaneous oxygen measurements (TCPO₂)
- Respiratory therapy
- Physical therapy
- Social services
- Scuba diving physicals
- Telephone consultations with physicians and nurses
- Regular progress reports to referring physicians, including photographs



The single-patient alternative¹

Recommended to clinicians as an adjunct to current medical and surgical treatments to boost, assist and accelerate the rehabilitation and healing process.



The hyperbaric oxygen that saves lives of scuba divers breathes life into patients' soft tissues, bones and chronic wounds.

HISTORY

The use of air under pressure for medicinal purposes is centuries old. In the United States, hyperbaric medicine initially focused on diving accidents and undersea medicine. HBO₂ remains the definitive treatment for carbon monoxide poisoning, air embolism and decompression sickness.

Since hyperbaric medicine routinely is not included in traditional medical training, the benefits of HBO₂ as a treatment modality are new to most physicians. **The effective medical applications of HBO₂ have captured the attention of many clinical specialties** including:

- Infectious disease
- Oncology
- Oral-maxillofacial surgery
- Orthopedic surgery
- Otolaryngology (ENT)
- Plastic surgery
- Podiatry
- Wound care

Today, medical applications for HBO₂ are constantly being developed and expanded in both clinical and academic settings. Over the last decade, HBO₂ has been shown to decrease the risk of complications prior to and following certain surgeries and speed the recovery of soft tissues and bones affected by radiation therapy.

Clinical excellence and successful outcomes in existing, new and emerging hyperbaric therapies are making HBO₂ a fast-growing and recommended step toward rehabilitation and healing.

How HBO₂ WORKS

Air is made up of 21 percent oxygen. Normally, when air is inhaled into the lungs and enters the bloodstream, hemoglobin is almost 100 percent saturated with oxygen. Injury, poisoning or disease can disrupt oxygen delivery, depriving tissues and cells of some or all of their required oxygen. Normal atmospheric pressure does not deliver enough oxygen to hypoxic areas.

Cells rely on oxygen to function properly and obtain vital nutrients and energy. Without adequate oxygen, cells are disabled. When cells are impaired, tissue is malnourished and healing is delayed or prevented.

The power of hyperbaric medicine results from its delivery of 100 percent oxygen under pressure to tissues and cells by super-saturating the plasma. During each two-hour HBO₂ treatment, the hyperoxygenation enriches the blood and provides much-needed energy and food to the cells.

APPROVED CONDITIONS FOR HBO₂ THERAPY²

Guided by the Undersea and Hyperbaric Medical Society (UHMS)³ standards, procedures and approved indications, HyOx administers HBO₂ and other medical and rehabilitation services to patients with the following conditions:

ACUTE ISCHEMIAS

- Acute peripheral arterial insufficiency
- Acute traumatic peripheral ischemia – crush injury, compartment syndrome, reperfusion injury, and suturing of severed limbs
- Brown Recluse spider bites
- Air or gas embolism
- Exceptional blood loss – anemia

CHRONIC ISCHEMIAS

- Diabetic wounds of the lower extremity
- Chronic non-healing wounds
- Compromised skin grafts and flaps

DELAYED RADIATION TISSUE INJURIES

- Osteoradionecrosis
- Soft-tissue radionecrosis
- Radiation-induced cystitis, prostatitis, and proctitis
- Prophylactic pre- and post-treatment for patients undergoing dental surgery of a radiated jaw (following radiation treatment for head and neck cancer)

INFECTIONS

- Chronic refractory osteomyelitis
- Gas gangrene (Clostridial myositis and myonecrosis)
- Progressive necrotizing infections (necrotizing fasciitis), including mixed aerobes and anaerobes
- Refractory actinomycosis and other mycoses

ADDITIONAL USES

- Carbon monoxide poisoning
- Cyanide poisoning
- Decompression illness ("the bends")
- Thermal burns



The New England Journal of Medicine reports HBO₂ as having "a number of beneficial biochemical, cellular and physiologic effects."⁴

REHABILITATION AND HEALING

HBO₂ MAXIMUM HEALING BENEFITS

DISSOLVES EXTRA OXYGEN IN THE BLOOD PLASMA

Breathing pure oxygen at three times normal pressure delivers 15 times more physically dissolved oxygen to tissues as breathing room air. (Henry's Law)



METHOD

Under the supervision of HyOx's physicians and certified hyperbaric technologists, patients breathe 100% oxygen pressurized up to three atmospheres in the hyperbaric chamber through hoods, facemasks or tracheostomy tubes.

HEALING

Hyperoxygenation promotes new capillary growth and sufficient oxygen tensions to meet the metabolic needs and heal ischemic tissues

PROMOTES WHITE BLOOD CELL BACTERICIDAL ACTIVITY

With elevated blood oxygen levels, HBO₂ inhibits the growth of a number of anaerobic and aerobic organisms at the wound site working synergistically with antibiotics.



INCREASES OXYGEN CONCENTRATION IN HYPOXIC AREAS

HBO₂ increases diffusion of oxygen through the tissues enhancing oxygenation in areas with inadequate microcirculation.



THERAPY

Pressurized oxygen reaches the lungs, then enters the bloodstream and bones increasing plasma oxygen concentration and tissue oxygenation levels 10 to 15 times greater than normal.

SATURATION

Hyperbaric oxygen saturates the body promoting the growth of capillaries, enhancing white blood cell activity at the wound site, proliferating fibroblasts, and developing collagen and new tissue.

REDUCES EDEMA BY VASOCONSTRICTION

High pressure oxygen causes constriction of the blood vessels, decreasing intracranial pressure and edema in injured tissues while still increasing the total amount of oxygen to this area.



WHEN A PATIENT BREATHE 100 PERCENT OXYGEN IN A PRESSURIZED CHAMBER, THE ELEVATED AIR PRESSURE LEADS TO A 10 TO 15 FOLD INCREASE IN TISSUE OXYGEN CONTENT.

HyOx adheres to the standards and meets the requirements established by Medicare and the Undersea and Hyperbaric Medical Society.

PATIENT SAFETY

HyOx's safe, supervised treatments assure patient comfort and care. Each HBO₂ "dive" is staffed by certified technologists both inside and outside the hyperbaric chamber to treat, assist and observe the patients at all times. U.S. Navy dive tables are used by the HyOx team to regulate the observation and treatment time within the pressurized chamber.

Patients, wearing cotton scrubs and foot covers, prepare for HBO₂ after safety measures are taken to ensure no flammable items, such as wigs, synthetic clothing, cigarette lighters, and hair spray, enter the chamber. Patients also are instructed on techniques to clear their ears to minimize the risk of barotrauma to the ears or sinuses caused by pressure changes. The treatment begins with descent and accelerates after patients don oxygen hoods, masks or tracheostomy tubes to breathe the hyperbaric oxygen.

HyOx IS ASSOCIATED WITH:

- American Academy of Wound Management
- American College of Hyperbaric Medicine
- American Medical Rehabilitation Providers Association
- Divers Alert Network
- Undersea and Hyperbaric Medical Society (UHMS)



ABOUT HyOx

- Georgia's largest hyperbaric chamber (32' long, 9' wide)
- Metro Atlanta's largest multi-patient chamber accommodating up to 12 patients
- Staffed by
 - Medical director
 - Board certified physicians
 - Registered nurses
 - Certified hyperbaric technologists
 - Certified wound specialists
 - Physical therapists
 - Respiratory therapists
 - Paramedics
 - Emergency medical technicians
 - Clinical social worker
- Certified by Medicare as a Comprehensive Outpatient Rehabilitation Facility
- Free-standing facility conveniently located near I-285 and I-75 on Windy Hill Road
- Opened in January 1999
- In-house customer service for insurance verification and pre-certification
- Free parking



HyOx's MULTI-PATIENT CHAMBER FEATURES:

- Comfortable and non-claustrophobic treatment environment
- Environmental temperature controlled
- Upright seating with footrests
- Separate hyperbaric chamber restroom
- While undergoing HBO₂, patients can:
 - Read
 - Listen to CDs
 - Watch videos
 - Snack
 - Take medications
 - Socialize

INSURANCE

If a health plan/network is not included on the following approved list*, HyOx will contact the insurance company for coverage approval options.

ACCEPTING:

1st Medical Network (MRN/Georgia 1st)

Aetna

Beech Street

Blue Cross and Blue Shield

Board of Regents Health Plan

CIGNA

Coventry/Southcare

First Health

FOCUS Healthcare Management

Humana

Medicaid

Medicare

MultiPlan/Preferred Plan

One Health Plan

Private Healthcare Systems (PHCS)

State Health Benefit Plan PPO

Synergy Health Network

Tricare

United Healthcare

Workers Comp Plans

*Approved list subject to change.

CONTACT US

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www.hyox.com

**CALL 678.303.3200
TO SCHEDULE A
NEW PATIENT CONSULTATION.**

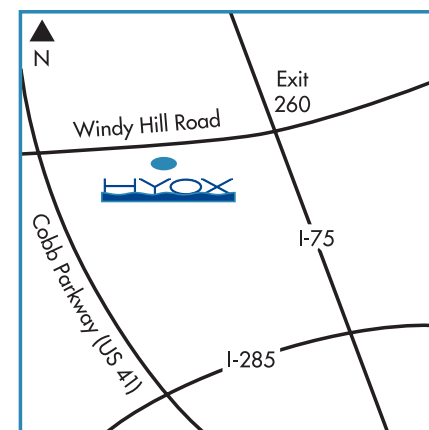
**RICHARD W. KING, JR., MD
MEDICAL DIRECTOR**

- Board certified in physical medicine and rehabilitation
- Board certified in underseas and hyperbaric medicine
- Member of the American College of Hyperbaric Medicine
- Certified wound specialist
- Member of UHMS
- Member of the American Academy of Wound Management
- Fellow of the American Academy of Disability Evaluating Physicians
- Assistant Clinical Professor of Rehabilitation Medicine at Emory University
- Member of the American Diabetes Association
- Member of the American Academy of Physical Medicine and Rehabilitation

DIRECTIONS

From I-75 in metro Atlanta, exit Windy Hill Road (Exit 260/first exit north of I-285). Go west approximately 1/5 mile. Turn left at the second traffic light at the entrance to WellStar Windy Hill Hospital.

HyOx is located on the ground floor of The Pavilion, building #2550 on the hospital's campus.



¹ Photo courtesy of Sechrist Industries.

² Composite list of conditions approved by UHMS, Medicare and major health plans. As with all procedures, insurance benefits are determined by the health plan's HBO₂ medical policy and the patient's specific health benefits.

³ UHMS is an international scientific organization founded in 1967 that conducts ongoing research and clinical studies for undersea and hyperbaric medicine. Its Hyperbaric Oxygen Committee approves indications for HBO₂ and establishes quality assurance indicators.

⁴ The New England Journal of Medicine, June 20, 1996.





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