The Hyperbaric Center at Sacred Heart Medical Center is one of three facilities in Oregon—and the only one in Lane County—accredited by the Undersea & Hyperbaric Medical Society. UHMS national accreditation demonstrates our achievement of the highest level of quality and safety for patient care. Hyperbaric Safety Director Robert C. Barnes, MD, is the region’s only board-certified physician in both Infectious Diseases and Undersea and Hyperbaric Medicine. Together, the Hyperbaric Center and the Wound & Ostomy Center at Sacred Heart provide comprehensive wound care.

**CLINICAL BENEFITS OF HBO2**

**Hyperoxygenation.** HBO2 increases oxygen in the plasma 10 to 15 fold, delivering more oxygen to damaged tissue to promote healing.

**Hyperoxia-enhanced antimicrobial activity.** HBO2 can inhibit or inactivate certain toxins, enhance phagocytosis and white cell oxidative killing, and increase the activity of some antimicrobials.

**Neovascularization.** HBO2 enhances fibroblast division, stem cell proliferation, and formation of collagen and capillary angiogenesis in late radiation damaged tissue, refractory osteomyelitis and chronic ulcers.

**Hyperoxia-induced vasoconstriction.** HBO2 helps manage compartment syndrome and other acute ischemia in injured extremities. It also reduces interstitial edema in grafted tissue and decreases fluid resuscitation requirements in burn wound management.

**Attenuation of reperfusion injury.** HBO2 has been shown to reduce the deleterious effect of leukocytes as blood flow is restored to damaged tissue.

**Treatment Indications**
- Acute thermal burn injury
- Idiopathic sudden sensorineural hearing loss
- Acute carbon monoxide poisoning
- Cerebral arterial gas embolism
- Decompression sickness
- Late radiation tissue injury
- Osteoradionecrosis
- Problem wounds and diabetic foot lesions
- Chronic osteomyelitis
- Crush injury, compartment syndrome, other acute ischemia
- Necrotizing soft tissue infections
- Clostridial myonecrosis
- Exceptional blood-loss anemia
- Central retinal artery occlusion

**Patient Benefits**
- Patients rest comfortably in reclined position, reducing discomfort and anxiety.
- Patients watch television and movies or listen to music during treatment.
- Simple, non-invasive, painless procedure with minimal side effects.
- Improved quality of life.
HOW IT WORKS

The Hyperbaric Center houses four Sechrist Monoplace 4100 Hyperbaric Chambers, the largest hyperbaric monoplace chamber on the market. The chamber capabilities include multiple intravenous transfusion lines, electrical monitoring including EKG, transcutaneous oxygen monitoring and a patient air-break breathing system.

HYPERBARIC CENTER STAFF

Kialing P. Perez, MD, Medical Director
- Board-certified, Infectious Diseases
- Advanced Training in Hyperbaric Oxygen Therapy
- Certified Diving Medical Officer of the Diving Medical Advisory Committee

Robert C. Barnes, MD, FACP, CWS, Hyperbaric Safety Director
- Board-certified, Infectious Diseases and Undersea and Hyperbaric Medicine
- Certified Wound Specialist of the American Board of Wound Management

Robert K. Pelz, MD, PhD
- Board-certified, Infectious Diseases
- Advanced Training in Hyperbaric Oxygen Therapy

REFERRING A PATIENT

Hyperbaric oxygen therapy is offered as a referral and consultation service only. A consultation appointment will be made for the patient, once appropriate case documentation has been received. The referring/primary care physician will remain responsible for the patient’s general medical management and will be updated from a hyperbaric perspective by the hyperbaric oxygen therapy team. Out-of-town patients may be referred to an appropriate local physician at the discretion of the referring physician.

The Hyperbaric Center works in conjunction with Sacred Heart’s Wound & Ostomy Center which recently added the following services:
- Lymphedema wound management with a lymphedema-certified physical therapist
- Total contact casting for diabetic foot management

Other Wound & Ostomy services include:
- Evaluation of wounds and development of a plan of care
- Pre-and post-op ostomy evaluation and plan of care
- Pressure ulcer prevention and treatment
- Pressure ulcer prevalence and incident monitoring
- Specialty support surface management

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The Hyperbaric Center
Sacred Heart Medical Center at RiverBend
3333 RiverBend Drive, First Floor
Springfield, OR 97477
Phone: 541-222-4500
Fax: 541-222-1786

Hours of Operation:
8 a.m. to 5 p.m., Monday through Friday