

# **Partners** in **Healing**

# AS A REFERRING PHYSICIAN, WE REPORT TO YOU

At Wound Healing Center Columbus Regional Healthcare System, we offer your patients access to state of the art wound care and hyperbaric oxygen therapy. Our comprehensive approach enables us to heal chronic wounds in as little as eight weeks. Upon referral, we treat your patient's wound, while you continue to manage all other aspects of their care.

"Hyperbaric Oxygen Therapy is safe and there is no downside to putting a patient in a chamber, just the potential to heal."

~ Dr. John Gambol, Hyperbaric Medical Officer



AN ADJUNCTIVE THERAPY TO PROMOTE HEALING

### References

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Thorn, Stephen R. (Jan 2011) Hyperbaric oxygen - its mechanisms and efficacy. Plast Reconstr Surg. 127(Suppl 1): 131S-141S. Doi: 10.1097/PRS.0b013e3181fbe2bf

Wound Healing Center Columbus Regional Healthcare System WWW.CRHEALTHCARE.ORG/SERVICES/ WOUND-HEALING-CENTER



# Restoring Quality of Life for Your Patients



THE NEED

• 6.5 million A

estimated to

• Obesity, dia

elderly pop

lower-limb a

• The econom

care can be

CHAMBER PRESSURE

## WHAT IS HYPERBARIC OXYGEN THERAPY?

Hyperbaric oxygen therapy (HBOT) is the administration of 100% oxygen in a pressurized environment. Diffusing oxygen throughout the body promotes angiogenesis, allowing a chronic wound to get the nutrient and oxygen rich blood it needs to heal. Specialized wound care including HBOT — is often necessary for optimal treatment of chronic wounds. HBOT is an effective adjunctive therapy used in conjunction with advanced wound care. Along with proper attention to nutrition and other underlying medical problems, we achieve greater healing results.

1 285

CYCLES

PRESSURE SET

SET PRESSURE

### **HBOT IS A PROVEN TREATMENT FOR:**

- Chronic refractory osteomyelitis
- Lower extremity diabetic ulcers

SYSTEM ON

9

SYSTEM OF

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- Radiation cystitis
- Radiation necrosis
- Failed skin grafts

SYSTEM

RESSUR

EXHAUST BYPASS

20	MECHANISM EFFECT	
	WIECHANISM	EFFECI
	Hyper- Oxygenation	Enhances in vitro ph of limited perfusion
		Allows higher amou diffused into the plas
	Vascoconstriction	Decreases neutrophi preventing accumula cells
		Reduces edema allor oxygen and nutrients
a <b>mericans</b> are nave wounds 9) (Crovetti G, 2004)	Angiogenesis	Increases neovascula
		angiogenic stimulatio
betes and increasing Ilations substantiate		Stimulates cell differ of blood vessels
wound care		Increases production Enhances extra cellu
71,000 diabetic amputations were		
enter for Disease Control 2008)	Fibroblast Proliferation	Stimulates proliferat synthesis, both of wi dependent
ic costs of wound mitigated through a program		Increases the overal between tissues and
	Leukocyte	Increases intracellula
	Oxidative Killing	Accelerates microbia
	Toxin Inhibition	Enhances oxidative I
8		by leukocytes and m
BAROMED	Antibiotic Synergy	Improves oxygen de certain antibiotics ac

VENTIL

Creates an adver anaerobic bacter

walls

	INDICATIONS
o phagocytosis in regions sion mounts of oxygen to be plasma	Severe blood loss anemia (unable to carry oxygen) Crush injury, compartment syndrome graft, and flap salvage (decreased perfusion) Edema (increased diffusion barrier)
ophil activation, mulation of white blood allowing better diffusion of ients to tissues	Crush injuries Acute burns Compartment syndrome
scularization by ulation lifferentiation in the form ction of growth factors cellular matrix formation	Graft and flap salvage Osteoradionecrosis Radiation endarteritis obliterans Chronic wounds
feration and collagen of which are oxygen verall oxygen gradient and the central hypoxic area	Chronic wounds Radiation-induced injury
ellular leukocyte killing robial oxidative killing	Necrotizing soft tissue infections Chronic osteomyelitis
tive killing of bacteria nd macrophages	Clostridial gas gangrene Decreased cardio toxins
n dependent transport of cs across bacterial cell rse environment for ria	Sepsis Necrotizing infections