

Uses and Case Examples of Hyperbaric Oxygen in Veterinary Medicine

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Central nervous system	Inflammatory, infectious, and immune-mediated diseases	Gastrointestinal/hepatic	Emergency medicine	Musculoskeletal
<ul style="list-style-type: none"> - Brain trauma - Spinal cord trauma - Stroke - Cerebral ischemia - Compressive cord diseases - GME - Fibrocartilaginous emboli - Peripheral nerve injury - Head trauma - Acute cerebral edema - Peripheral nerve damage - Polyradiculoneuritis - Intracranial abscess - Sudden sensorineural hearing loss 	<ul style="list-style-type: none"> - Allergic reactions/anaphylaxis - GME - RMSF-induced vasculitis/meningitis/arthritis - Immune-mediated polyarthritis - IMHA - ITP - Inflammatory bowel disease - Pancreatitis - Cholangitis - Osteomyelitis - Septic arthritis - Septicemia - Endotoxemia - Mold exposure - Aspergillosis - Mucormycosis, candidiasis - Pneumocystis - Lyme disease - Anaerobic infections: <i>Actinomyces</i>, <i>Clostridium</i>, gas gangrene - Necrotizing fasciitis - Intracranial abscess - Intraabdominal abscess 	<ul style="list-style-type: none"> - Post-op enterotomy or GI surgery - Ileus - Pancreatitis - Inflammatory bowel disease - Peritonitis - Gastric ulceration - Reperfusion - Hepatic inflammatory diseases - Biliary tract inflammation - Biliary tract infection - Hepatic necrosis - Oral ulceration or wounds - Esophageal inflammation 	<ul style="list-style-type: none"> - Carbon monoxide - Cyanide toxicity - Smoke inhalation - Lymphangitis - Thromboembolic disease - Gas embolism - Acute traumatic ischemia - Bloat - Necrotizing fasciitis - Blood loss anemia - Tetanus - Septicemia - Head trauma - Acute cerebral edema - Skin burns - Fractures and acute trauma - Envenomation - spider, snake - Decompression sickness - SCUBA/tunnel builders 	<ul style="list-style-type: none"> - Athletic injuries - Tendonitis - Periostitis - Fracture - Myositis - Crush injuries - All wounds - Refractory osteomyelitis - Severe degloving wounds - Burns - Delayed wound healing - Acute cruciate injuries - Delayed fracture healing - Skin grafts - Diabetic foot ulceration/arterial insufficiency
Dermatology	Oncology	Cardiovascular	Renal	Ophthalmology
<ul style="list-style-type: none"> - Infection control: deep pyoderma and MRSA - Immune-mediated skin dz - Improved skin healing - Hair regrowth - Decrease otitis inflammation and infection ± myringotomy 	<ul style="list-style-type: none"> - Postoperative healing - Pre- and postradiation therapy - Palliative care for neoplasia, pain and swelling - Radiation burns/necrosis - Osteoradionecrosis - Soft-tissue radionecrosis - Chemotherapy extravasation 	<ul style="list-style-type: none"> - Hypotension - Shock - Cardiac infarction - Acute anemia - Thromboembolic disease - Severe anemia 	<ul style="list-style-type: none"> - Nephrotic syndrome, ischemia reperfusion, inflammation, hypoxia - Lyme disease 	<ul style="list-style-type: none"> - Potential use for immune-mediated retinopathy n = 1 - Central retinal artery occlusion/arterial insufficiency

The items **bolded** above are currently one of the fourteen FDA-approved uses for hyperbaric oxygen therapy (HBOT) in humans and are listed for reimbursement by insurance companies