

OSTEORADIONECCROSIS OF THE JAW

Osteoradionecrosis (ORN) is bone or hard tissue death resulting from the delayed effects of radiation therapy. ORN destroys normal cells and blood vessels, including the small arteries reducing circulation to the area. Deprived of oxygen and other necessary nutrients for life, the delayed effects of radiation treatment are gradual, manifesting months, even years after treatment for cancer.

The complications from radiation on the mandible (jaw) bone can be debilitating and cause further complications without hyperbaric oxygen therapy prior to any surgical intervention. Hyperbaric oxygen therapy should also be used post-surgically to ensure the bone remains viable with adequate blood flow. Oral and maxillofacial surgeons and dentists follow this Marx Protocol for head and neck cancer survivors pre- and post-surgery and other invasive procedures, including tooth extraction, to ensure the bone remains viable with adequate blood flow for optimal outcomes.

Hyperbaric oxygen therapy heals by following the Marx Protocol prescribed by oral and maxillofacial surgeons and radiation oncologists to:

- Provide adequate oxygenation to the jaw for any invasive dental work including tooth extraction in a previously radiated jaw (with or without diagnosis of osteoradionecrosis).
- Prevent osteoradionecrosis after invasive dental work.
- Help heal radiation damage by helping new blood vessels form in the necrotic area (angiogenesis) reversing the effects of radiation damage (the only treatment that can achieve a reversal).
- Decrease swelling in damaged area to enhance blood flow.
- Prevent potential debilitating and disfiguring damage.

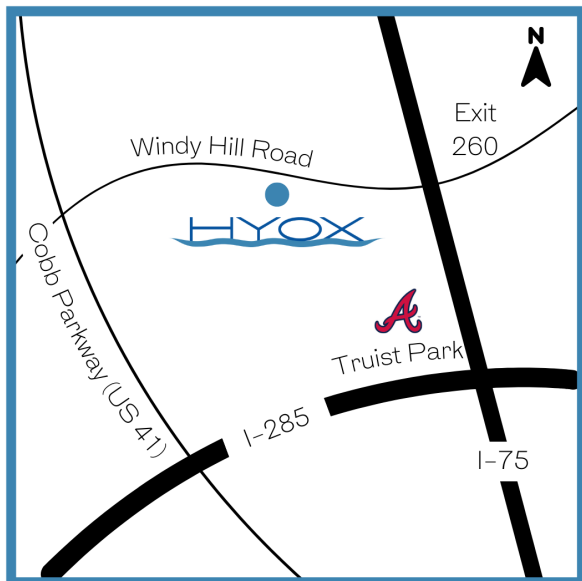
HYOX

HYPERBARIC MEDICINE HEALS.

HyOx is a comprehensive medical treatment center specializing in healing the body naturally by breathing 100 percent oxygen under pressure. Hyperbaric oxygen therapy increases oxygen content in the body by up to 1,500 percent to supersaturate every cell. This helps to fuel the healing process in patients with complications from cancer, infection, trauma, and wounds.



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