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# ***DENTAL***

## ***Indications for HBOT***

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BioBarica hyperbaric systems presented  
by Rheolife

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*Just Breathe...*

# Rheolife offers hyperbaric oxygen for specific dental indications.

We use the Bio Barica hyperbaric system with the Revitalair 430 hyperbaric chamber. Treatment is done at 1.4 ATM while breathing 100% oxygen. This is the lowest pressure that achieves all the medical effects of HBOT as recommended by UAHM association. At this pressure there is minimal risk of adverse effects. The compression-decompression cycle is also very short.

Hyperbaric oxygen therapy is a rapidly developing treatment modality in various fields of dentistry. It is the administration of 100% oxygen to the patient for a specified time period, to increase the oxygen tension in the tissues and also its dissolution in the blood.



## Summary of dental implications of Hyperbaric Oxygen Therapy

| Dental Implications         | Clinical Condition  | Mode of Action of HBOT   |
|-----------------------------|---|--|
| Osteoradionecrosis          | Decreased oxygen tension-hypotension hypocellularity, hypovascularity   | Increases the oxygen tension in the region and promotes angiogenesis and wound healing                                   |
| Osteomyelitis               | Chronic unresponsive wound infection by dormant bacteria  | Increases the host response by favouring the action of inflammatory cells.   |
| Implants in irradiated bone | Implants when placed in the irradiated bone lead to failure because of increased susceptibility to infection and compromised bone formation | Stimulates effective bone formation and increases host defense mechanism   |
| Periodontitis               | Microorganisms and their toxins affect the periodontium   | Inhibits the growth of subgingival obligate anaerobes and facultative anaerobes and promotes healing of the periodontium |

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