

HBO MEDICAL NECESSITY DETERMINATION FOR TREATMENT OF MANDIBULAR OSTEORADIONECROSIS

A. A diagnosis of mandibular osteoradionecrosis (ORN) is confirmed by documented history of radiotherapy and at least one of the following (Check all that apply)

- Exposed non-vital alveolar bone
- Mandibular fracture
- Trismus-reduced jaw opening
- Necrosis
- Orocutaneous fistulae (This may also represent a "stand alone" diagnosis of soft tissue radionecrosis)

B. Documentation includes all of the below related oncology history and referral details:

- Date cancer first diagnosed
- Tumor type
- Tumor anatomic location
- Dates radiation treatments started and completed
- Radiation dose and number of treatments provided
- Name(s) of person(s) who provided previous care
 - Oral maxillofacial surgeon Dr. _____
 - Dental surgeon Dr. _____
 - Other : Specialty _____ Dr. _____
- Date mandibular diagnosis first diagnosed (Generally at least six months after completion of radiotherapy)

C. Documentation of current cancer status (Must have one checked)

- Disease free (includes date last checked)
- Residual/recurrent tumor

D. Documentation of previous mandibular ORN management (Check all that apply)

- Pain Control
 - Surgical intervention
 - Regular narcotic
 - Regular non-narcotic
 - Occasional non-narcotic
- Superficial debridement
- Oral saline irrigation
- Trans-oral sequestrectomy or saucerization
- Oro-cutaneous fistula repair
- Mandibular resection +/- reconstruction
- Other: _____

ADDITIONAL GUIDANCE

1. HBO is increasingly adopted as first line therapy for early/localized ORN, that limited to a small (<3 cm's) amount of exposed alveolar bone. Interventions listed in "D" above, therefore, may not have occurred.
2. Treatment basis for mandibular ORN is the "Marx Protocol". * This involves peri-operative HBO. Today, this is increasingly is limited to early/localized cases. Management of more advanced disease requiring resection and reconstruction has evolved to a microsurgical-based single stage resection and reconstruction with a vascularized free bone (commonly fibula) graft. This occurs in the absence of perioperative HBO, although HBO may be considered in support of post-op healing complications. **

* Marx RE. A New Concept in the Treatment of Osteoradionecrosis. *J Oral Maxillofacial Surgery* 1983;41

** Clarke R. Challenges Threaten, Opportunity Awaits Hyperbaric Medicine and the Head and Neck Cancer Patient. *Undersea Hyperbaric Medicine* 2019;46(4)