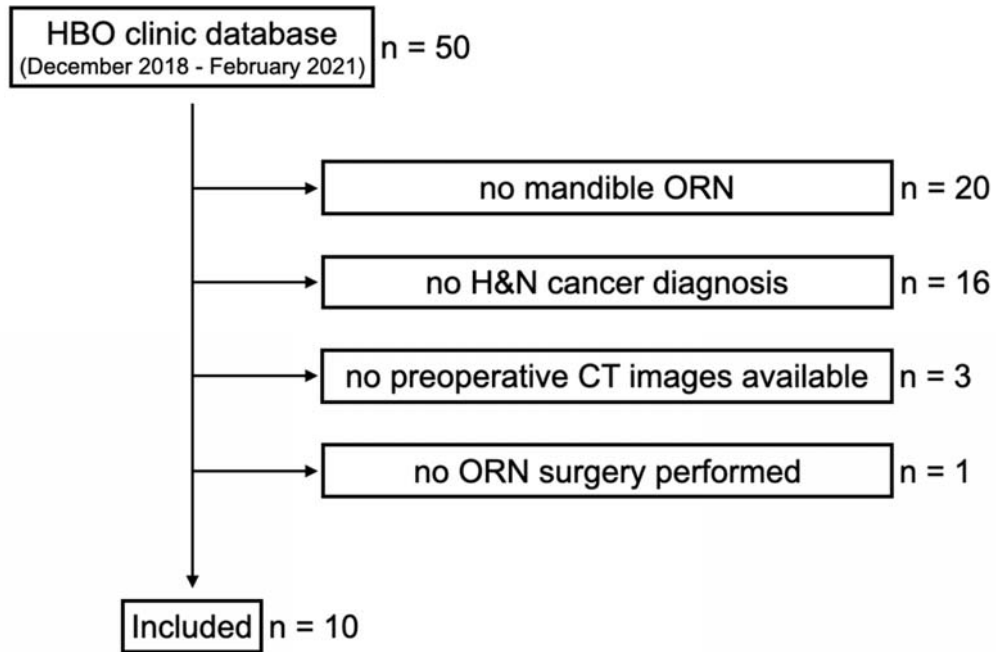
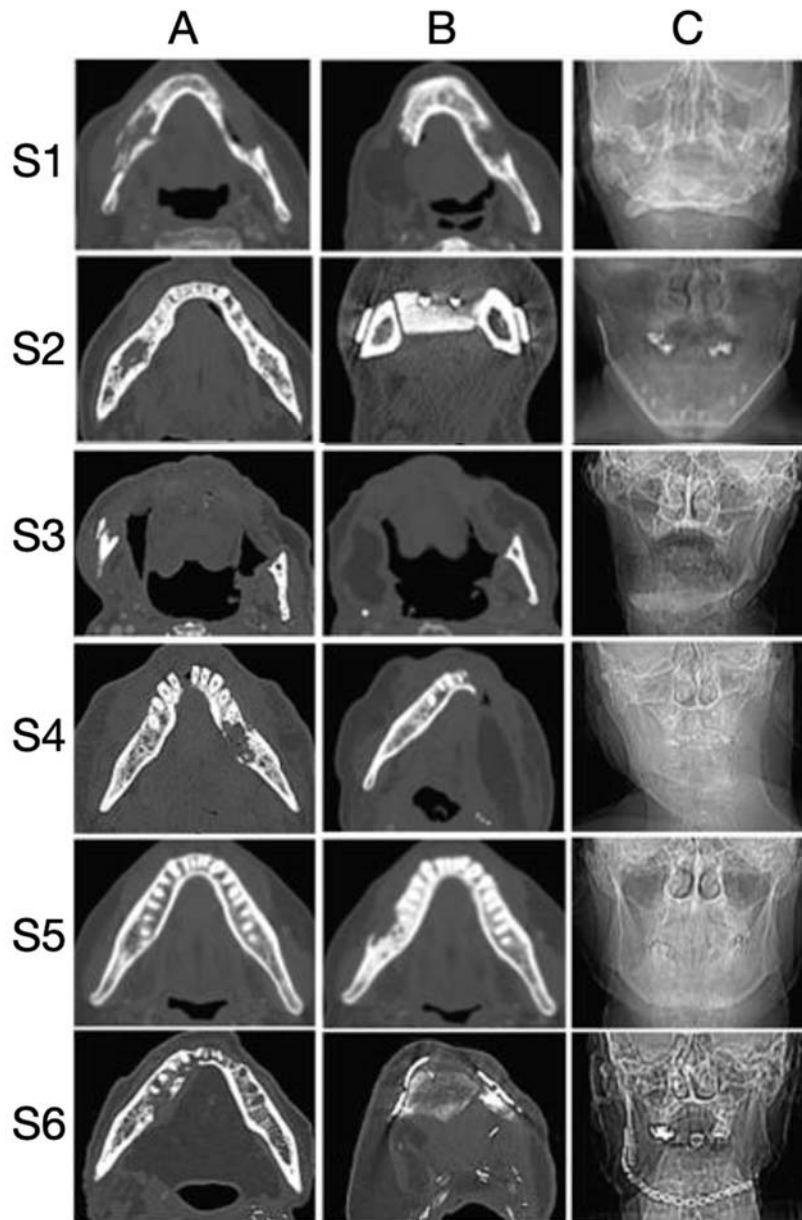


## Supplementary File

**Figure S1.** Case selection diagram. HBO — hyperbaric oxygen; ORN — osteoradionecrosis; H&N — head and neck; CT — computed tomography



**Figure S2.** Six additional cases (S1–S6) with mandible resection. Images of pre-operative CT (A), post-operative CT (B), and post-operative digital reconstructed radiography (C)



Case S1 — 70-year-old\* male with severe ORN 14.7 years after definitive RT for oropharynx cancer (right tonsil). Treated with segmental mandibulectomy without reconstruction.

Case S2 — 69-year-old\* male with severe ORN 16.3 years after adjuvant RT for oropharynx cancer (right tonsil). Treated with total mandibulectomy with reconstruction (fibula).

Case S3 — 73-year-old\* male with severe ORN 13.5 years after definitive RT for oropharynx cancer (right tonsil). Treated with hemi-mandibulectomy without reconstruction.

Case S4 — 47-year-old\* male with severe ORN 2.1 years after definitive RT for oropharynx cancer (left tonsil). Treated with hemi-mandibulectomy without reconstruction.

Case S5 — 42-year-old\* male with severe ORN 5.8 years after definitive RT for nasopharynx cancer. Treated with marginal mandibulectomy without reconstruction.

Case S6 — 73-year-old\* male with severe ORN 3.7 years after definitive RT for oral cavity cancer (right side of tongue). Treated with segmental mandibulectomy with reconstruction (scapula tip).

\*At the time of mandibulectomy to treat ORN.