IHNS THE IRISH HEAD & NECK SOCIETY

THE JOURNAL OF THE IRISH HEAD AND NECK SOCIETY

Title: Laryngeal Suspension in Major Glossectomy: Impact on Functional Outcomes

Body: INTRODUCTION
Major glossectomy impacts speech and swallowing. Laryngeal suspension (LS) using a hyomandibular stitch facilitates laryngeal elevation and hyoid advancement. This study evaluates the functional outcomes of LS in patients undergoing major glossectomy.

MATERIALS AND METHODS
A retrospective analysis of 55 patients who underwent major glossectomy via the pull-through approach (January 2022–January 2024) was conducted.

RESULTS
Patient Distribution:
• Total/Near-Total Glossectomy (TG): 34 patients.
• Hemi/Extended Hemiglossectomy (HG): 21 patients.
• LS performed on 40 patients (TG: 27, HG: 13).
Aspiration Rates:
• TG: 44% (LS) vs. 75% (no LS).
• HG: 23% (LS) vs. 38% (no LS).
Oral Feeding Initiation (<4 months):
• TG: 67% (LS) vs. 13% (no LS, p=0.007).
• HG: 85% (LS) vs. 75% (no LS).
Laryngeal Elevation (Modified Water Swallow Test):
• TG: 52% (LS) vs. 25% (no LS).
• HG: 92% (LS) vs. 63% (no LS, p=0.011).
Videofluoroscopy Study (VFSS):
Laryngeal elevation was measured as the distance between the lower border of C2 and the anterior cornu of the air column. Two-thirds of patients with LS achieved favorable scores, compared to one-third without LS.

conclusion-
Laryngeal suspension via a hyomandibular stitch significantly improves swallowing function and laryngeal elevation in major glossectomy patients. The technique demonstrates superior functional outcomes, including reduced aspiration rates and expedited initiation of oral feeding.

Authors: Anup Srinivas 1, Anuja Deshmukh 2, Kirti Khandelwal 3, Richa Vaish 4, Suman Kumar 5, Arun Balaji 6

Affiliations: 1) M.Ch Head and Neck Oncosurgery Resident, Tata memorial hospital, Mumbai, India. 2) Professor, Dept of Head and neck oncosurgery, Tata memorial hospital, Mumbai, India. 3) Assistant Professor, Dept of Head and neck oncosurgery, Tata memorial hospital, Mumbai, India. 4)

Professor, Dept of Head and neck oncosurgery, Tata memorial hospital, Mumbai, India. 5) Professor, Dept of Radiology, Tata memorial hospital, Mumbai, India. 6) Speech and language Therapist, Tata memorial hospital, Mumbai, India