

# A Rare Case of Laryngeal Schwannoma in Young Female – An Interventional Aid



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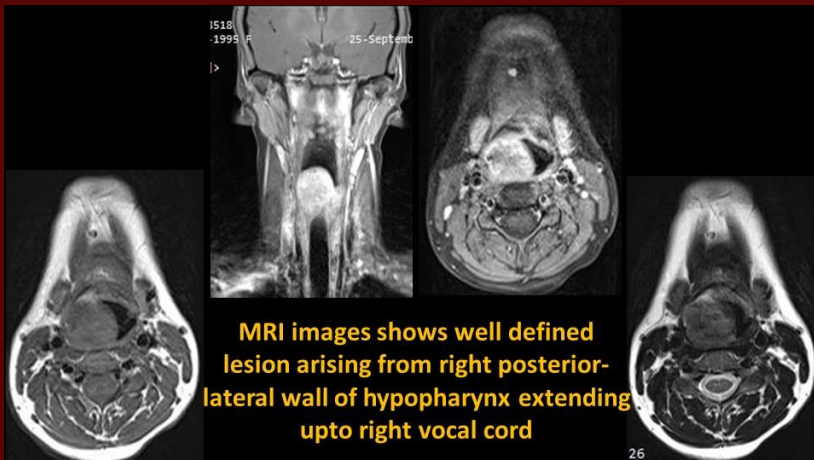


## History:

- 24yr young female presented with noisy breathing at night for 7 yrs.
- Change in voice for 3 yrs.
- Difficulty in breathing.
- Able to swallow better with head tilt towards left.
- No h/o aspiration.
- Attempted to excise the tumor in May 2019 in another hospital which was unsuccessful, as there was bleeding during the procedure.

## Tumor Board Decision

- Preoperative Embolization to reduce blood loss per operatively.
- Followed by Surgical Excision.



MRI images shows well defined lesion arising from right posterior-lateral wall of hypopharynx extending upto right vocal cord

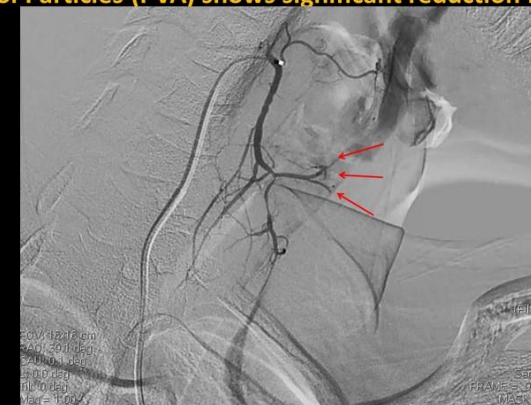
**Initial Diagnostic Angiogram with 4F Head Hunter catheter shows areas of Contrast blush in Subglottic region.**



**Selective catheterization of right Ascending Pharyngeal artery with 2.4F Boston Scientific Microcatheter shows areas of Contrast Blush**

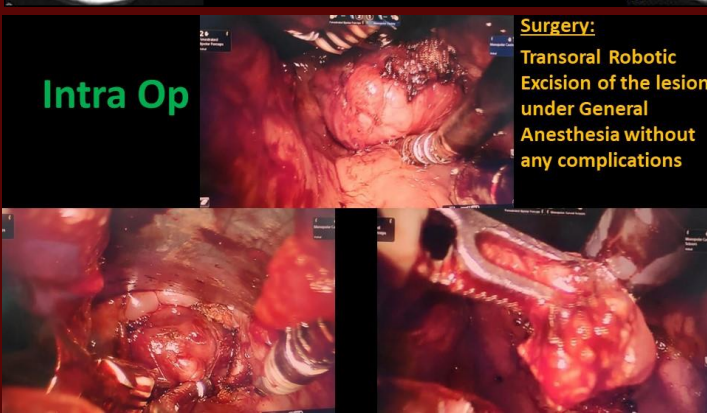


**Post Embolization Angiogram with 150-250micron Polyvinyl Alcohol Particles (PVA) shows significant reduction in Tumor blush**



**Follow Up:** Post Procedurally patient was advised chest physiotherapy, speech therapy, ryles tube feeds.  
**Post Op Day 13:** Tracheotomy tube removed. Ryles tube removed & Tolerating Oral feeds.  
**Post Op 1 Month:** Patient is doing well, with no respiratory symptoms & normal speech.

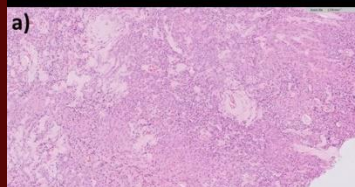
**Intra Op**



## Surgery:

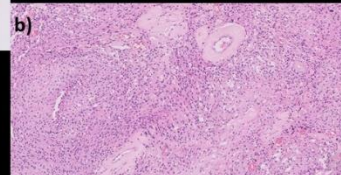
Transoral Robotic Excision of the lesion under General Anesthesia without any complications

## Histopathological Examination



a) Cellular areas showing palisading. Hyalinised vessels seen.

b) Cellular areas showing cells with ovoid nucleus & pink cytoplasm. Many hyalinised vessels are seen.



## References

1. Michele Tulli., *et al.*, Diagnosis and Treatment of Laryngeal Schwannoma: A Systematic Review. Otolaryngology - Head and Neck Surgery 2018, Vol. 158(2) 222–231.
2. Chang-Chieh Chiu., *et al.*, Obstructive Laryngeal Schwannoma in Young Female. World Journal of Surgical Oncology (2015) 13:24.
3. Jorg Ebmeier., *et al.*, Schwannoma of the Larynx. Head & Neck Oncology 2009, 1:24.