Transoral Robotic Surgery for Selected Pyriform Sinus Cancer

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Objectives: Hypopharyngeal cancer rendered worst outcome among head and neck cancer. Organ preservation by concurrent chemo-radiotherapy is not submitting to proper organ preservation and consequent leads to dysphagia, air-way problems and even osteoradionecrosis (ORN) at last. Therefore, surgical organ preservation therapy could be an alterative treatment strategy.

Methods: Case series, since 2011 Jan-2012 Dec. 10 patients with pure pyriform sinus cancer and all of them were staged as T1N0M0. All of them underwent transoral robotic surgery (TORS) as initial treatment method.

Results: Seven patients underwent TORS alone therapy but the other three received post TORS radiotherapy for inadequate resection margin at pyriform apex.

All of them were disease free for at least 1 year follow up with no any dysphagia, air-way problems or ORN.

Conclusion: TORS could be an alternative treatment. However, proper patients selection for pyriform sinus cancer with apex involvement by TORS is warranted.