

## **ONE-STAGE RESECTION AND RECONSTRUCTION OF THE DIFFERENTIATED THYROID CANCER INVADED INTO LARYNX AND/OR TRACHEA.**

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**Background/Purpose:** The most effective therapy of the local advanced thyroid cancer invades into larynx and/or trachea is the complete surgical resection with larynx and/or trachea. The patients have a laryngeal and/or tracheal stoma after resection surgery. The one-stage or multi-stage reconstruction surgeries were needed for closing airway stoma, and the one-staged resection and reconstruction surgery was usually selected in our institute for patients' quality of life. We show here our one-stage resection and reconstruction by movie for thyroid cancer invades into larynx and/or trachea.

**Methods:** We performed the one-staged resection and reconstruction for 5 patients with thyroid cancer invaded into larynx and/or trachea between April 2011 and March 2013. The clinical parameters were analyzed retrospectively.

**Results:** Four patients did not need tracheal stoma, but 1 patient need tracheal stoma because of the post-operative bilateral laryngeal palsy. Two patients have heavy dysphagia and long-term hospitalization with training of deglutition. There are no critical complications such as dehiscence and septic wound. In the showing case 1, thyroid cancer invaded into cricoid cartilage and first and second tracheal rings. The tumor was resected by resection of the half around of cricotracheal cartilage with a part of thyroid cartilage, with cricothyroid muscle, and with tracheal rings. End-to-end laryngotracheoplasty was performed with 3-0 absorbable monofilament sutures (PDSII®, Ethicon, Somerville, NJ) for closing stoma.

**Discussion & Conclusion:** The one-staged resection and reconstruction is one of the effective therapies for patients with thyroid cancer invades into larynx and/or trachea. We show our experience by video.