

Anesthesia for Laryngeal/Airway Surgery

“Let’s Share the Air”

Jill Hanisak, MS, CRNA
LVAS Education Coordinator

I. Room Setup

- Consistent Setup each time
- Intubation/Airway supplies
- Microlaryngeal Tracheal Tube (MLT Tube)- 4.0, 5.0, 6.0
- Jet Ventilation System

II. Preoperative Assessment

- PMH- Hypertension and cardiac disease
- Respiratory disease
- PSH- prior laryngeal/vocal cord surgery and a review of the anesthetic
- Airway Assessment
 - Teeth and Mallampati
- Surgeon’s preop H&P with photos taken in office of airway via Videostroboscopy
- Neck Mobility
- Discussion with surgeon of anesthetic for case and surgeon’s plan

III. Anesthesia Medications

- Goal: Have a patient with no residual sedation of paralysis in PACU
- No preop sedatives
- Propofol induction and infusion
- Remifentanil infusion
- Succinylcholine and/or Rocuronium
- Decadron
- Reversal with Sugammadex

Secretions/PONV

- Glycopyrrolate can be given to decrease secretions and prophylaxis for bradycardia
- Our results- One case
- No cases of PONV
- Zofran may muddy the waters

Dedo Laryngoscope

Suspension

IV. Jet Ventilation

Manual- Low Flow

Ventilator - High Flow

Manual Hook-Up

Jet Ventilation-
Supraglottic

Subglottic Placement

Hunsaker Mon-Jet Catheter

Small diameter, dual lumen tracheal tube

Made of Fluoroplastic

Positioning structure

Smaller Lumen

Caution in narrow airways -> increased
intratracheal pressure

Transtracheal Jet Ventilation

V. Apneic Ventilation & Apneic Anesthesia with Intermittent
Ventilation(AAIV)

Hi-Flow Nasal Oxygen

Optiflow

VI. Procedures

Subglottic Stenosis

Vocal Cord Lesions without Laser

Vocal Cord Lesions with Laser

Mallinckrodt Laser Tube

CO₂ and KTP Laser

Specifics for Use

Rusch Lasertubus
CO2, Argon, KTP(ND-Yag Double Frequency),
ND-Yag
LATEX TUBE
Lower 17 cm
White rubber tube
Corrugated Copper
Merocel- must be moistened prior to insertion and
during surgery
Recalled

Vocal Cord Injections

Lidocaine Laryngojet
Decreases coughing
Decreases laryngospasm

VII. Postop

No narcotics or sedatives in PACU
Talking versus Silence