



**"To serve, protect, and educate all involved in combative sports"**

# **Airway Management for the Ringside Physician**

**Don Muzzi MD**

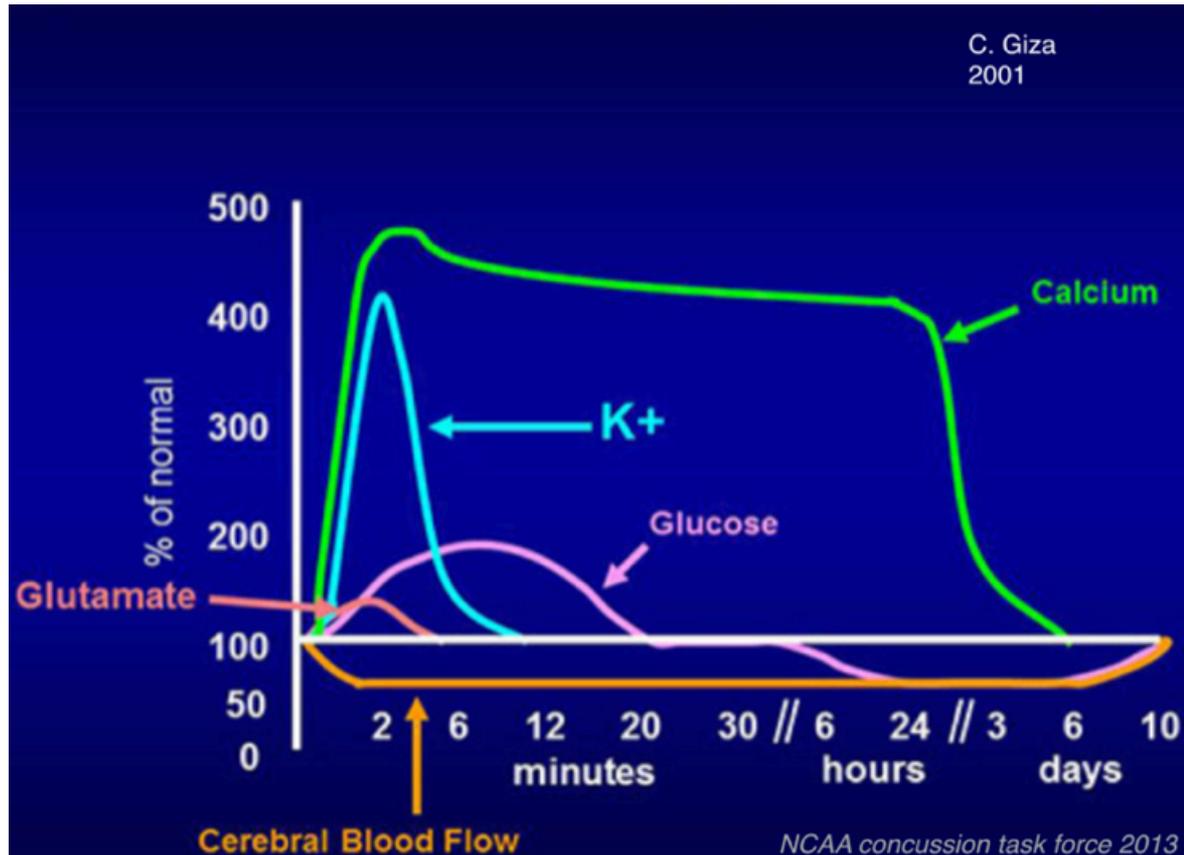


# Airway Compromise in the Ring or Cage

- Rare Occurrence
- Cervical Spine Injury
- Traumatic Brain Injury
- Potential for Serious Consequences



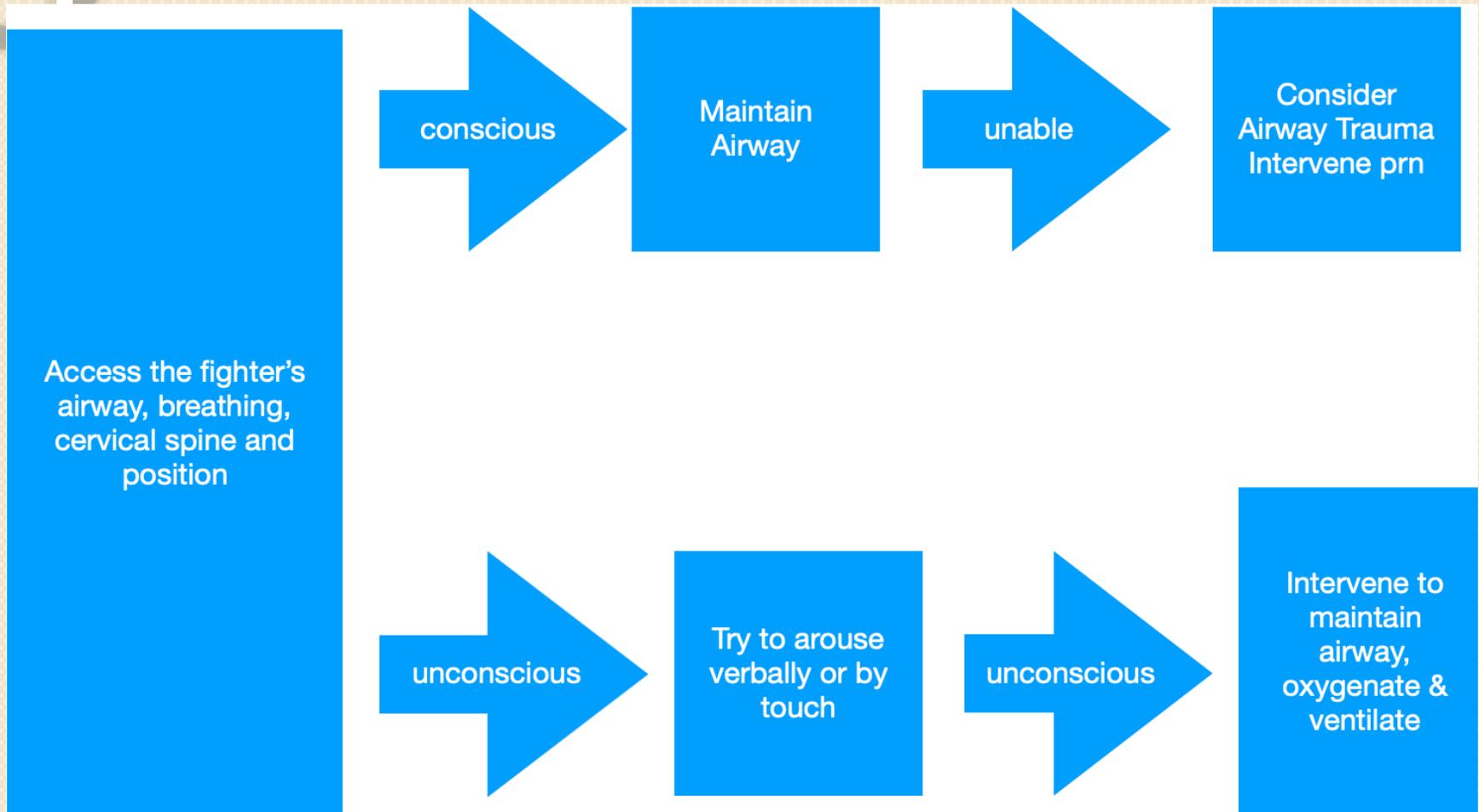
# Neuro-Metabolic Cascade of TBI



- Hypoxia & Hypoventilation exacerbate the deleterious effects of TBI
- RP skilled in recognition & management of airway emergencies

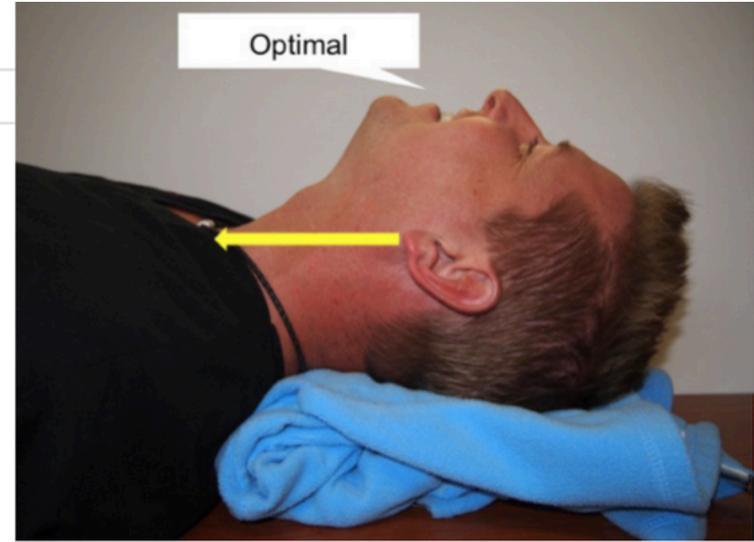
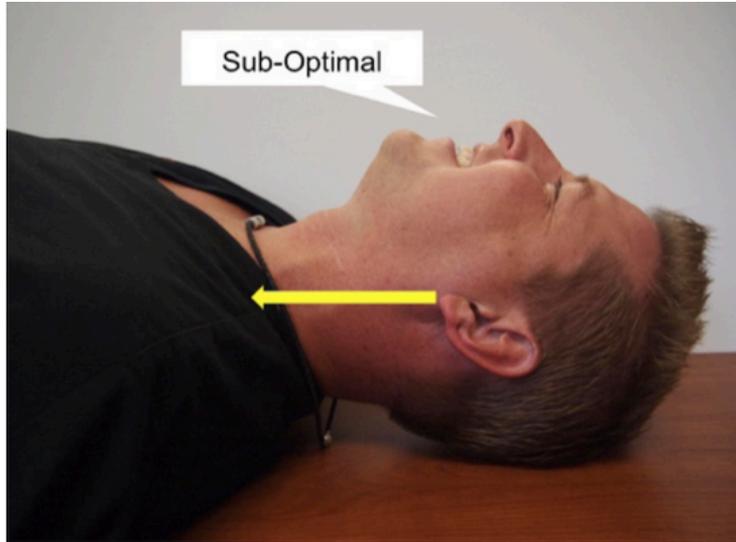


# Initial Assessment of Potential Airway Compromise





# Airway Interventions



- Position (ear sternal notch)
- Chin Lift
- Jaw Thrust
- Head Tilt
- Mouth Guard

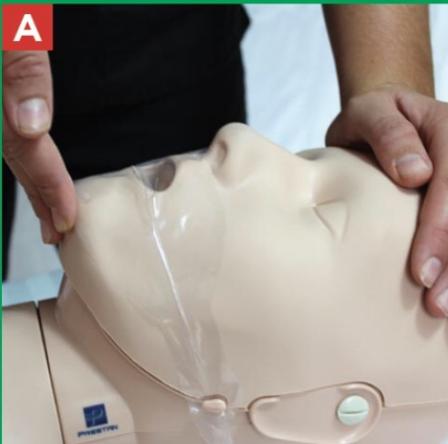
# Bag Mask

PROPER  
POSITION

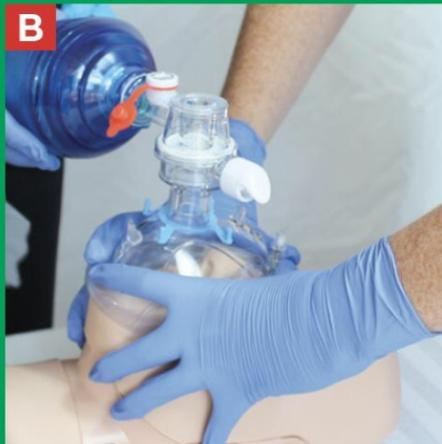
TIGHT SEAL

VENTILATE

- In the absence of neck injury, tilt the forehead back and lift the chin (*Figure 9a*)



- Use the “E-C clamp,” which is the letters E and C formed by the fingers and thumb over the mask (*Figure 9b*)

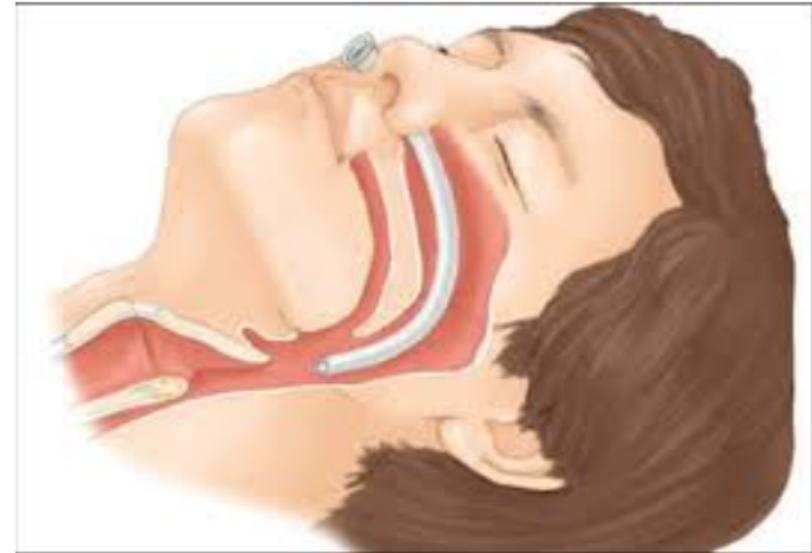
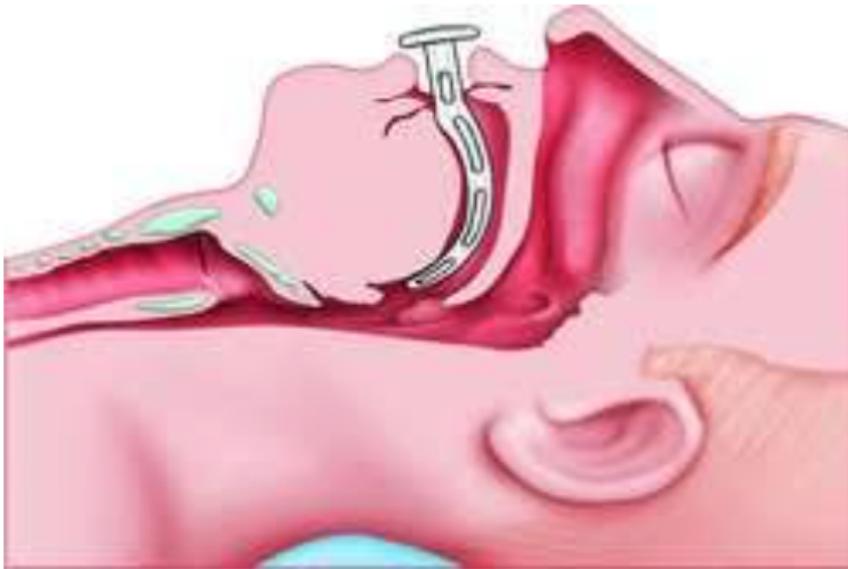


- Squeeze the bag over one second until the chest rises (*Figure 9c*)
- Do not over ventilate





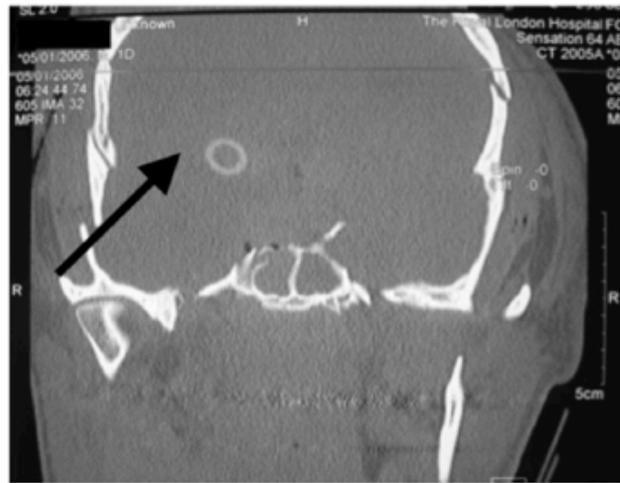
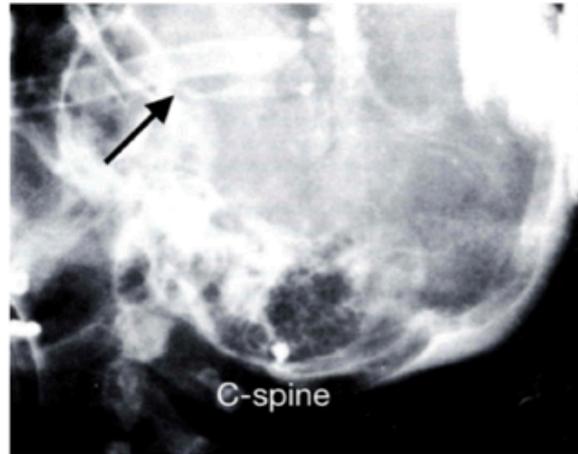
# Airway Devices



- Oral and Nasopharyngeal Airways



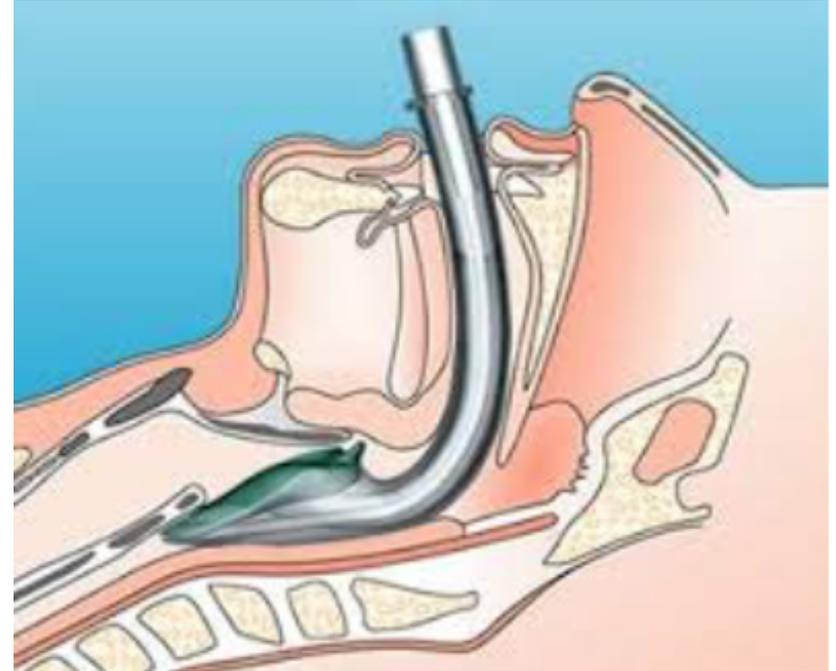
# Nasal Pharyngeal Airway in Cranial Facial Trauma



**Figure 5: Naso-pharyngeal airway in Cranial Vault (indicated by arrow)  
(Muzzi 1990, Ellis 2006 Schade )**



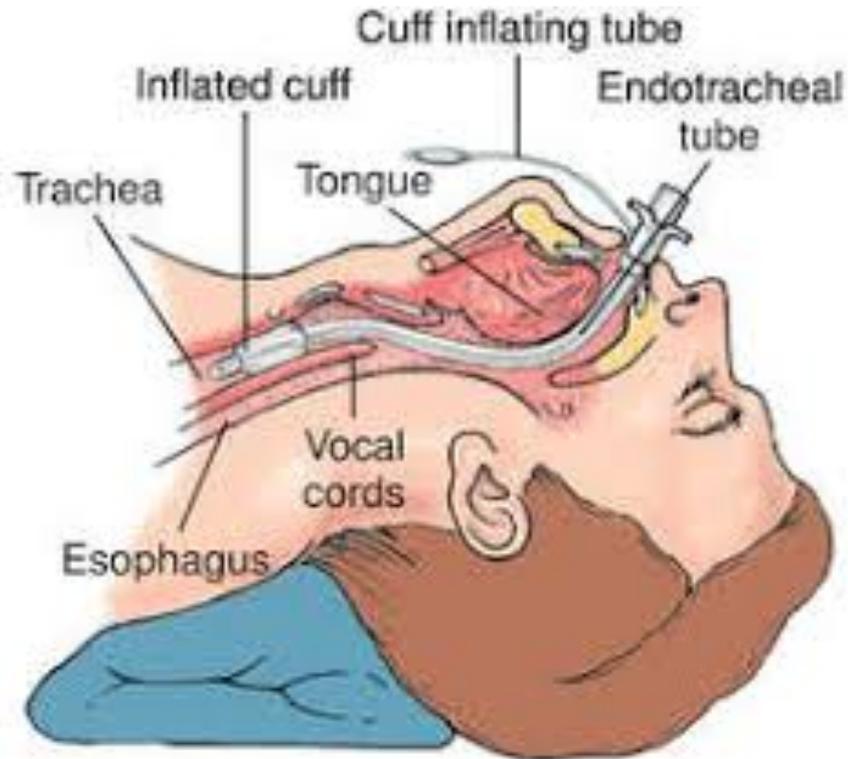
# Laryngeal Mask Airway (LMA)



- Advanced Skill
- Supra-glottic



# Intubation of Trachea



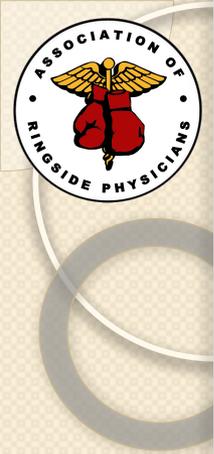
- Advanced Skill



# Intubation of Trachea



- Advanced Skill



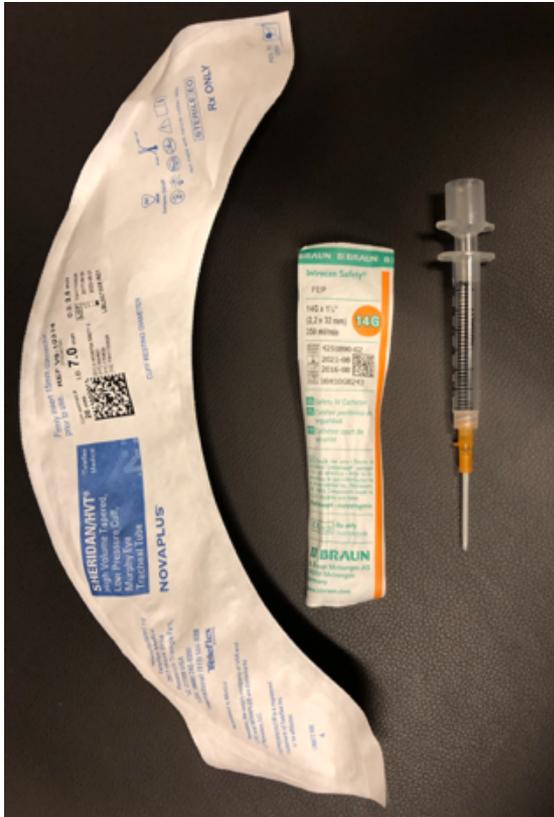
# Surgical Airway



- Seriously Advanced Skill



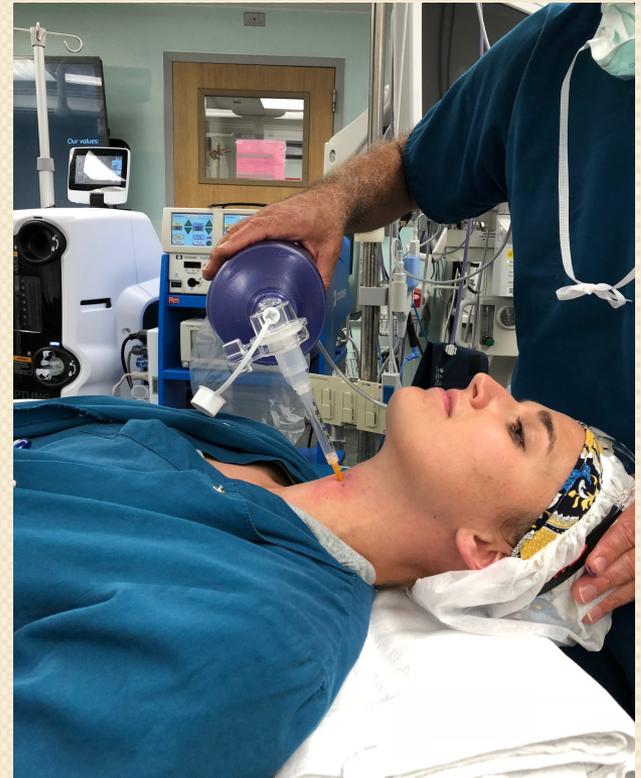
# Surgical Airway



- Seriously Advanced Skill
- Oxygenate, Ventilation Difficult



# Crico-thyroidotomy





# Airway Algorithm for the Ringside Physician





# Summary

- Simpliest Airway is the Best
- Respect Advanced Airway Interventions
- “Scoop & Swoop”

# Thank You



*[www.ringsidearp.org](http://www.ringsidearp.org)*