

Brief Review of Anatomy for RSI and Cricothyrotomy

Brady (or standard paramedic text)
for Airway Anatomy

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Objectives

Upon completion of this lecture you should be able to discuss :

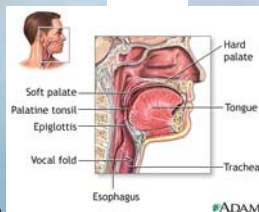
- Brief review of the anatomy of the upper airway
 - In particular , the
 - Larynx
 - Cricothyroid membrane
- In order to know the :
 - Anatomy for RSI and
 - Anatomy for needle and surgical cricothyrotomy

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Upper Respiratory Anatomy

Upper Airway

- Mouth and Nose
- Pharynx
- Epiglottis
- Larynx
- Epiglottis
 - Hypopharynx
 - Pyriform fossa

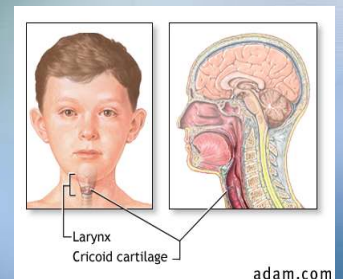


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Crich Anatomy Review

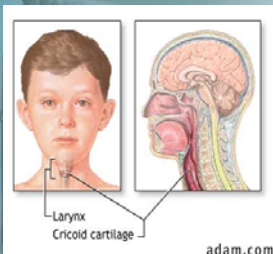
Upper Airway

- Larynx
- Thyroid prominence

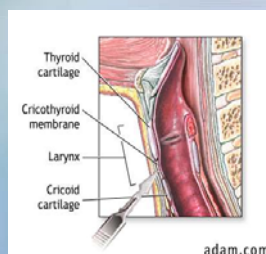


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Review of Anatomy for Cricothyrotomy



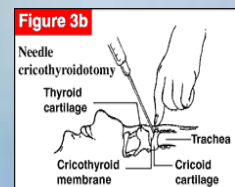
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Anatomical Landmarks for Cricothyrotomy

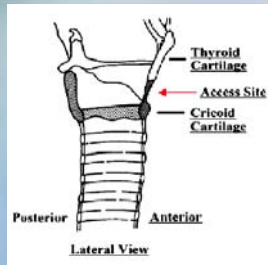
- Hyoid bone
- Laryngeal prominence
- Cricothyroid membrane
- Cricoid ring
- Trachea



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Anatomical Landmarks for Cricothyrotomy

- Hyoid bone
- Laryngeal prominence
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Posterior View of Laryngeal Area

- Hyoid bone
- Thyroid cartilage
- Cricoid Cartilage
- Trachea

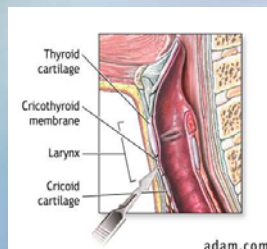


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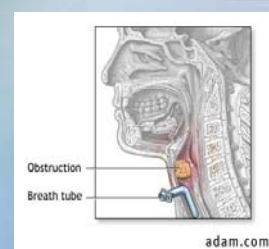
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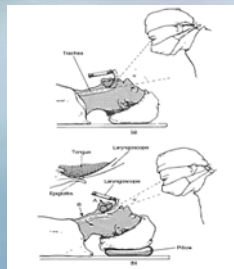
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Optimizing Laryngeal Visualization

Optimized Visualization for ET intubation:

- Positioning (3):
 - Oral-
 - pharyngeal-
 - laryngeal axes alignment
- External pressure (BURP) by the operator



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Cricoid Cartilage Pressure

"BURP," or Sellick-Cricoid pressure:

- Moves the whole cricoid - cords - thyroid unit into alignment



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Vocal Cords

- “A” shaped cords wide open
- Epiglottis is pinned (out of view) , anteriorly
- Esophagus
 - Obscured by the posterior pharynx-hypopharyngeal tissue



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Summary

We have reviewed :

- Anatomy for RSI
- Lateral neck landmarks for :
 - Needle and surgical cricothyrotomy
- Importance of proper identification of the
 - Thyroid prominence
 - Cricoid ring

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