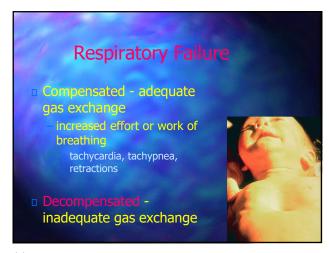


Respiratory Failure Clinical state characterized by inadequate elimination of CO₂ and/or inadequate oxygenation of the blood

9

Respiratory Failure is a process, not an Event The goal is to prevent cardiac arrest, not to treat it! Respiratory dysfunction proceed from covert compensated dysfunction and proceeds to overt uncompensated dysfunction (cardiopulmonary failure) Interventions in compensated state are the safes and most successful Distinctions between distress and failure are artificial

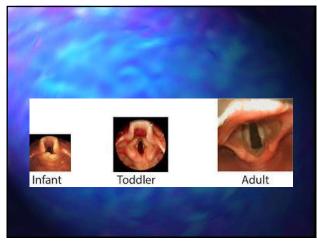
10



Unique Features of the Pediatric Airway

- Obligate nose breathers
- Large tongue
- Larynx is anterior and higher
- Smaller & shorter tracheas
- Smallest diameter of trachea is at the cricoid ring (below the cords)
- Chest wall of infants is relatively weak and unstable

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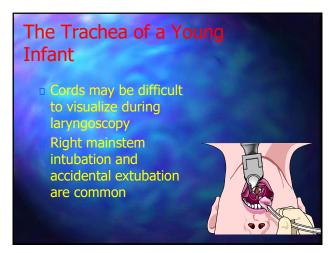
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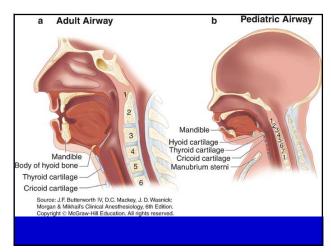


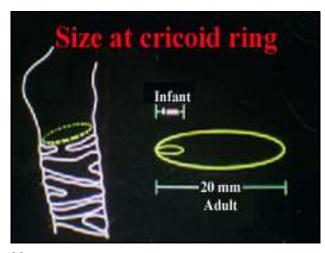


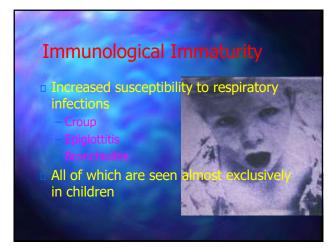






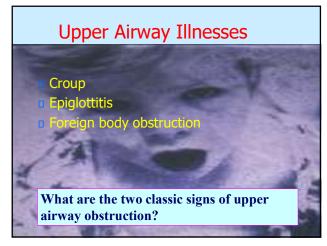




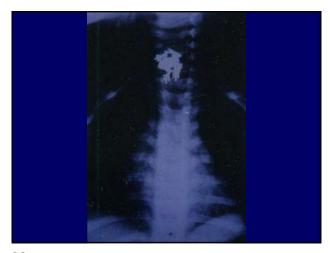




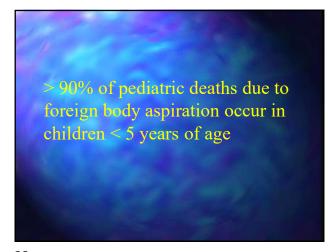










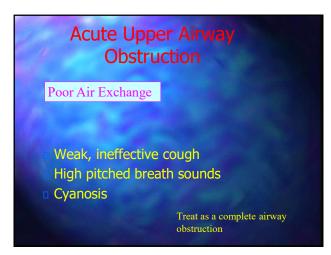




















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Croup

- Viral infection causing edema of the cords and adjacent trachea and subglottic tissues
- Accounts for approximately 90% of infectious upper airway problems in children
- Occurs more commonly in winter months
- Found most commonly between the ages of 6 months and 3 years



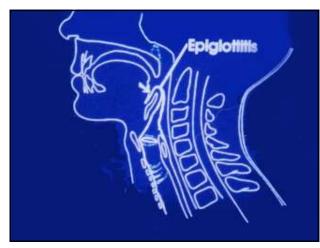




Epiglottitis

- A life threatening bacterial infection causing inflammation and edema of the epiglottis and the adjacent structures above the larynx
- Relatively uncommon accounts for only 5-10% of pediatric upper airway infections
- □ Children 3-7 y/o most commonly affected

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Epiglottitis

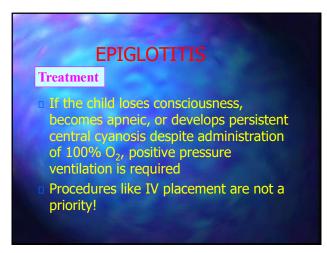
Onset is Abrupt

- Fever, often up to 105°, is generally the first sign and is present in almost every case
- Sore throat is present in only 50% of cases
- Difficulty swallowing may lead to drooling and refusal to take fluids
- Postural preferences may be noted
- STRIDOR may be a prominent sign, but COUGH is not characteristic
- Children tend to be quiet and anxious

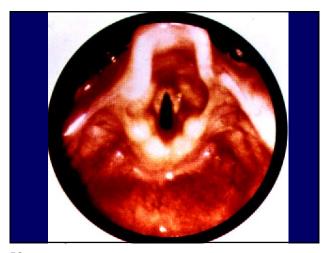


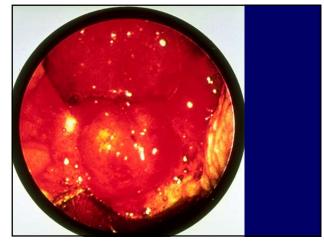


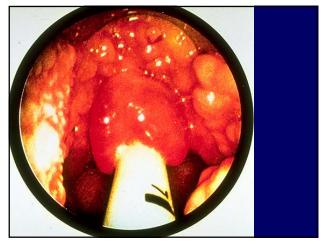












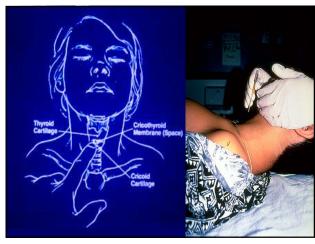








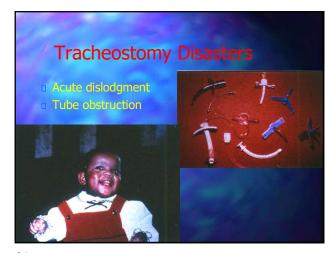






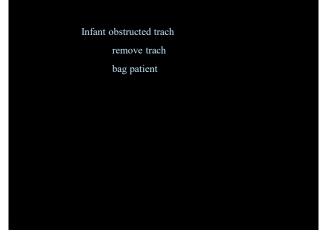






Single lumen tubes	
65	
03	
Double lumen tubes	
	-
66	
Obstruction and suctioning	







Pediatric Intubation	
□ Broselow	
- Reference cards	
- Formulas	
Cuffs versus no cuffs	
n Drugs (RSI)	
Stylet versus Bougie	
 Secure your tube 	