Anatomic and Physiologic Considerations of the Infant and Child

INSTRUCTIONAL OBJECTIVES

1. To understand anatomic airway differences between adults and neonates
2. To understand normal physiologic reflexes in the larynx
3. To review several airway anomalies found in neonates
4. To learn diagnostic signs of airway obstruction and differential diagnoses

1.1 Review questions

2-1/2 year old male presents with SOB and drooling. Mom states he has had fever (102F) for 4-6 hours and is not “acting like himself. He is tired and sleeping”. Also she thinks he might have choked on peanuts within the last 48 hour. Discuss differential diagnosis and anesthetic management (including airway management techniques).
1.2 Pharmacological considerations

INSTRUCTIONAL OBJECTIVES

1. To review elements of pharmacokinetics
2. To understand the difference in uptake and distribution in children vs. adults
3. To understand pharmacokinetic differences of oral midazolam in infants and children
4. To understand pharmacodynamic differences of narcotics in infants and children
5. To understand age related differences in NMJ and effect on NDMR

1.2 Review Questions

2 month old male (adjusted gestation age, 36 weeks) comes in for repair BIH.

Past medical history includes, moderate BPD with oxygen requirement of 1/8L O
2. PDA ligation. Present medical history is unremarkable. Patient has been NPO for 9 hours. Discuss pre anesthetic preparation, anesthetic management techniques and post anesthetic complications.