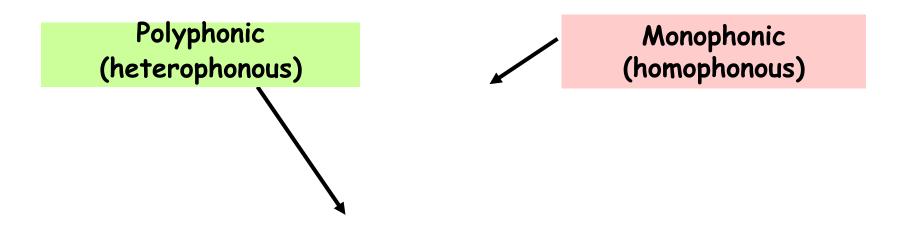
Wheezing in the young: How to approach and treat?

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Physiology / Mechanism of wheezing

: Continuous musical, high pitched whistling sounds usually associated with prolonged expiration caused by vibration of airway wall due to turbulent airflow through narrow airways

Physiology / Mechanism of wheezing



Wheezing – indicates airflow limitation

Loudness – does not indicate severity of obstruction

Biphasic wheeze – indicates more severe obstruction

Quality of wheeze – indicates site of obstruction

Anatomic & physiologic predisposition to wheezing in infants and young children

- Anatomic :
 - Smaller airways
 - Spiral airway smooth muscles extend to peripheral airways
 - → increased BHR

Paediatr Respir Rev 2004; 5: 577-579

Taussig: Pediatric Respiratory Medicine 2008

Anatomic & physiologic predisposition to wheezing in infants and young children

- Physiologic:
 - Increased nasal airway resistance
 - Increased peripheral airway resistance
 - Decreased elastic recoil pressure
 - → early airway closure

Paediatr Respir Rev 2004; 5: 577-579

Taussig: Pediatric Respiratory Medicine 2008