Clearly Speaking: Pediatric Voice Disorders

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Outline of Topics

Anatomy and Physiology
Voice Evaluation
Laryngoscopy
Pediatric Voice Disorders
Voice vs. Speech

Where Is the Larynx?
What Does the Larynx Do?

Abducted

Adducted

Innervation
Layers of the Vocal Fold

Outline of Topics

Anatomy and Physiology

Voice Evaluation

Laryngoscopy

Pediatric Voice Disorders
Voice Evaluation

- Self-Reported Quality of Life
  - Voice Handicap Index
  - Voice Related Quality of Life
- Parent Proxy
  - Pediatric Voice Outcomes Survey
  - Pediatric Voice Related Quality of Life Survey
- Perceptual Voice Assessment
- Acoustic Measurements

Outline of Topics

Anatomy and Physiology
Voice Evaluation
Laryngoscopy
Pediatric Voice Disorders
Forms of Laryngoscopy

Direct

Indirect
- Mirror
- Hopkins Rod
Forms of Laryngoscopy

Direct

Indirect
- Mirror
- Hopkins Rod
  - Fiberoptic
  - Distal Chip

Larynx

70 degree rigid stroboscopy
Outline of Topics

Anatomy and Physiology
Voice Evaluation
Laryngoscopy
Pediatric Voice Disorders

Types of Pediatric Voice Disorders

Lesions
Functional
Movement Impairment
Types of Pediatric Voice Disorders

Lesions

• Voice use patterns
  – Nodules, polyps

• Congenital
  – Cysts

• Acquired
  – Scar
  – Papilloma
Types of Pediatric Voice Disorders

Lesions
- Voice use patterns
  - Nodules, polyps
- Congenital
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- Acquired
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  - Papilloma

Functional
- Muscle tension dysphonia
- Puberphonia

Movement Impairment
- Vocal fold paralysis
- Vocal fold paresis

Types of Pediatric Voice Disorders

Functional
- Muscle tension dysphonia
- Puberphonia

Movement Impairment
- Vocal fold paralysis
- Vocal fold paresis
- Cricoarytenoid joint fixation
Take Home Points

• Many different disorders of voice which are managed in different ways
  – They don’t all just grow out of it

• Speech Therapy vocologists are essential to management of these patients

• Voice disorders can adversely effect children’s social development