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CROUP
Croup:

* Acute infectious disease
* Barklike or brassy cough
* Hoarseness, Inspiratory Stridor
Croup Syndrome

1-Laryngotracheobronchitis
2-Acute Epiglottitis
3-Acute infectious laryngitis
4-Spasmodic Croup
Laryngotracheobronchitis

Etiology

Parainfluenza virus 75% (type 1, 2, 3)

Influenza A & B

Adenoviruses

RSV
Clinical Features:

* Age 3m – 5 yr
* Male
* Winter
* Rhinorrhea, pharyngitis, mild cough
* Low fever
* Barking cough, hoarseness, stridor

* Worse at night

* Resolve completely within a week

* Croup is clinical diagnosis

* X-ray neck shows “steeple sign” (subglottic narrowing)
Treatment (Laryngotracheobronchitis)

Mist / steam therapy

* Mostens airway secretions
* Sooths inflamed mucosa provide comforts

Nebulized epinephrine

* 0.25 ml in 3 ml of normal saline every 20 min
Steroids are beneficial

* Dexamethasone 0.6 mg/kg
* Nebulized budesonide

No antibiotics

Hospitalized if

* Progressive stridor
* Stridor at rest
* Respiratory distress
* Cyanosis
* Depressed mental status
Acute Epiglottitis:

* Potentially lethal condition
* Acute fulminating course
* High fever, sore throat, dyspnoea
* Rapidly progressing respiratory obstruction
* Toxic, dysphagia
* Laboured breathing
* Drooling
* Hyperextended neck
* Rapidly increasing cyanosis
* Coma
Diagnosis:

* “Cherry red” swollen epiglottis

* X-ray neck lateral – swollen epiglottis (Thumb sign)

* Lucocytosis
Treatment:

* Medical emergency
* Establish an airway
* Nasotracheal intubation or tracheostomy
* Oxygen
* Ceftriaxone or cefotaxime
* Ampicillin + salbectam
Acute infectious laryngitis:

* Viruses cause most cases
  (Diphtheria is an exception)
* Sore throat, cough
* Hoarseness and **loss of voice** out of proportion to systemic features
* Physical examination is unremarkable
* Laryngoscopy shows edema of vocal cords and subglottis tissue
Spasmodic Croup:
Age: 1-3 yr

* Viral prodrome and fever in absent

* Cause is viral or allergic

* Attacks are sudden and at night

* Child awakens with barking cough

* Stridor and hoarseness

* Improves within hours
Differential Diagnosis:

1- Bacterial tracheitis
2- Diphtheritic croup
3- Measles croup
4- Foreign body aspiration
5- Retropharyngeal or peritonsillar abscess
6- Angioedema
7- Hypocalcemic tetany
Thank You