Symptomatology in pulmonology



Marcin Sanocki

Department of Pulmonology, Allergology and Paediatrics, Medical University of Warsaw

Most common signs & symptoms of respiratory tract diseases

- cough
- adventitious breathing sounds
- dyspnoe
- haemoptysis
- chest pain

COUGH

Cough

- Defensive reflex
- It's job clear the airways from, mucus, foreign bodies etc.
- Cough receptors posterior wall of the throat, larynx, tracheal and bronchial wall.
- Symptom, not an illness!

Cough classification

By duration

- •British Thoracic Society:
 - acute (less than 3 weeks)
 - subacute (3–8 weeks)
 - chronic (more than 8 weeks)
- Australian and American College Chest Physicians
 - acute (less than 4 weeks)
 - chronic (more than 4 weeks)

Cough classification

- recurrent (lasting 7-14 days, non-related with infection, appearing a least 2/year)
- post-infectional cough (related to infection, lasting 3-8 weeks)

Cough classification

By cough type

- •dry
- •productive
- barky
- •with dyspnea and/or stridor

Acute cough - causes

Infections of respiratory tract

- rhinovirus, adenovirus, coronavirus, influenza and parainfluenva virus, RS virus
- bacteria (Str. pneumoniae, H. influenzae, M. and Chl.penumoniae
- Less common causes i.e. *B.pertussis*

Acute cough – other causes

foreign body aspiration

pneumothorax

allergic reaction

Subacute cough

Post-nasal drip syndrome

Enlarged adenoid tissue

Recurrent URT infections

Chronic cough

- Infection
 - Recurring URT infections
 - Bacterial infection
 - TB
- Asthma (dry, not related to infection, co-presented with dyspnea, seasonal symptoms, normal chest x-ray, wheezes on auscultation)
- GER/GERD

Chronic cough

• CF

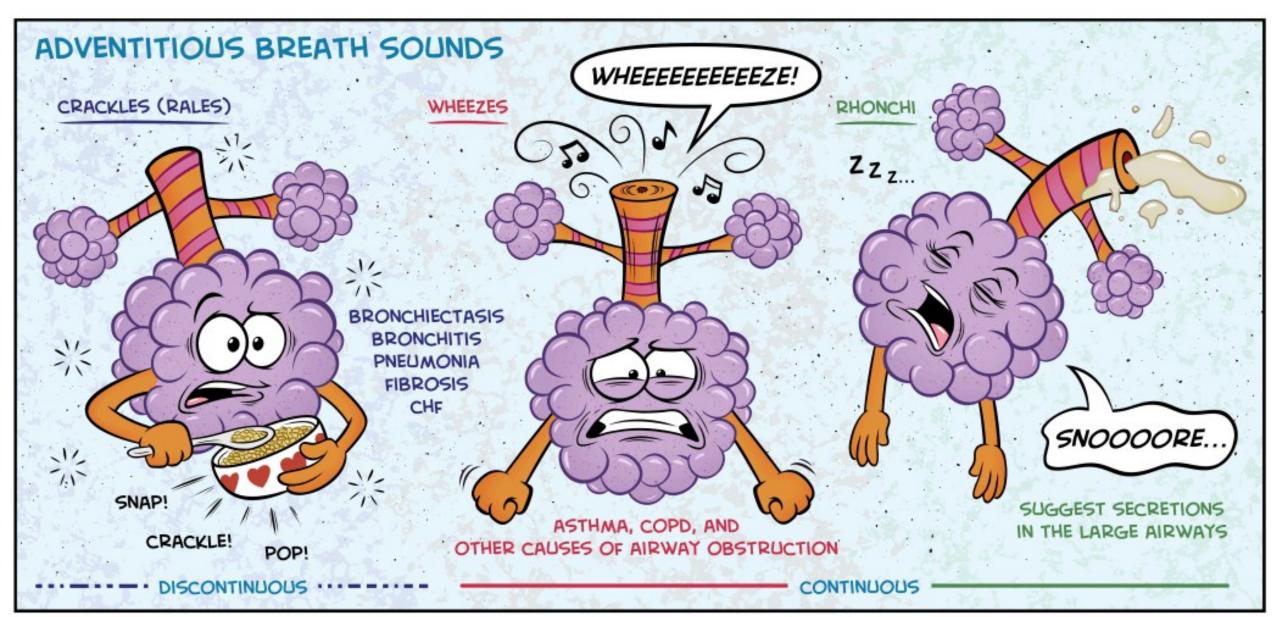
• PCD

• ILD

malignant lesion

cardiovasular disorders

ADVENTITIOUS BREATHING SOUNDS



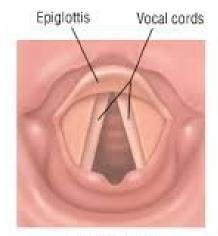
WWW.MEDCOMIC.COM © 2016 JORGE MUNIZ

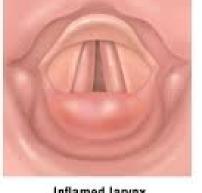
Types of wheezes

- Stridor on inspiration– problem in the upper airways
- Wheezes on expiration narrowing of the bronchi.
- Sometimes both are present!

Stridor - causes

- Viral infection croup
- Bacterial epiglotitis





Normal larynx

Inflamed larynx







DYSPNOE

Dyspnoe

subjective vs. objective

newborn and infant:

- accessory breathing muscles involvment,
- grunting,
- tachypnoe,
- difficulties feeding,
- cyanosis

Dyspnoe

older children:

- tachypne
- ortopnoe
- accessory breathing muscles involvment
- difficulties speaking (speaks in words instead of full sentences)
- tachycardia
- cyanosis

Dyspnoe - classification

- on inspiration
 - Tipically upper repiratory tract, co-existing with stridor
- on expiration
 - Tipically lower respiratory tract, co-existing with wheezes
- can be on both

acute dyspnoe - causes

- asthma
- pneumothorax
- anafilactic shock
- trauma
- heart failure
- foreign body aspiration

Chronic dyspnoe - causes

- chronic lung diseases
- cardiovascular diseases
- pressure from abdominal cavity
- chest wall deforamtions
- anaemia
- neuromuscular disorders

HAEMOPTYSIS

Haemoptysis

• true haemoptysis— source in respiratory tract

• supposed – source not in respiratory tract

CHEST PAIN

Chest pain in children and adolescent

- Usually non-heart realated
- Most common causes:
 - Muscles (chest wall)
 - Co-existing with RTI's (excessive cough) or GTI's (excessive vomiting)
- For differencial diagnossis:
 - Chest X-ray
 - ECG

Chest pain – causes in respiratory tract

- tracheitis, bronchitis, pneumonia, pulmonary effusion
- pneumothorax
- pulmonary embolism
- asthma exacerbation
- foreign body aspiration

Q&A