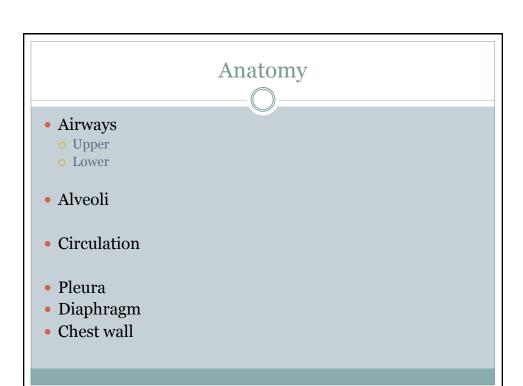
Respiratory Medicine

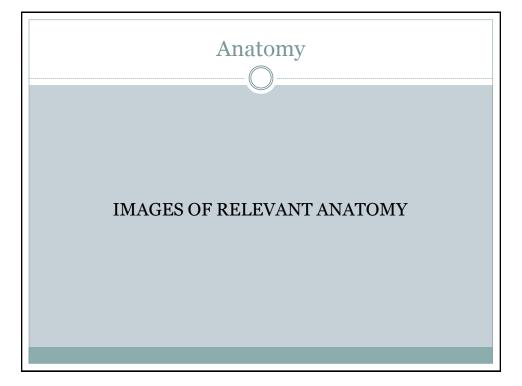
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CONSULTANT PHYSICIAN
AINTREE CHEST CENTRE
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Respiratory Medicine

- Anatomy
- Physiology
- Normalcy
- Disease
- Common legal cases
 - o Emphasis on "medical accidents"





Physiology

- Ventilation
 - o Brain
 - Muscles
 - o Flow of air
- Circulation/perfusion
 - Regulation of circulation
- Ventilation/perfusion matching
- Immunity

Physiology

IMAGES RELEVANT TO PHYSIOLOGY

Physiology

- Measurements/assessments
 - Lung function
 - × Spirometry
 - × Lung volumes
 - **x** Gas diffusion
 - × Airway reactivity
 - × Blood tests (gases)
 - Exercise parameters
 - Sleep ventilation
 - o Imaging of the lung

Physiology

IMAGES RELEVANT TO PHYSIOLOGICAL MEASUREMENTS/IMAGING

Common diseases

- Lung diseases
 - Asthma
 - o Smoking related lung disease
 - × COPD
 - o Emphysema
 - Bronchitis
 - × Interstitial lung disease
 - Bronchiectasis
 - Lung fibrosis
 - × Idiopathic
 - × Identifiable cause

Common diseases

- Lung diseases
 - Infections
 - × Pneumonia
 - × Infective exacerbation of existing lung condition
 - × TB
 - × Rarer infections fungal, pneumocystis
 - Cancers
 - × Primary lung cancers
 - × Secondary deposits in the lung
 - × Mesothelioma

Common diseases

- Diseases of circulation
 - O VTF
 - Pulmonary hypertension
- Diseases of ventilation
 - o Brain disease
 - Chest wall disease
 - Muscle disease
 - × Diaphragm
 - × Other
 - Obesity
 - Sleep related breathing problems

Common diseases

IMAGES RELEVANT TO COMMON DISEASES

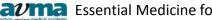


General NHS systems

- Guidelines
 - National incl NICE
 - Local
- Expectations on performance
 - o Nationally mandated
 - \times CWT
 - × RTT
 - × IPC incl C Diff etc
 - × Monitoring EWS
 - × VTE risk assessment
 - × Nutrition
 - × Pressure areas
 - Locally driven via CCG quality contracts

NHS Systems

- Doctor regulation
 - o Appraisal/revalidation
 - o Junior doctor training/accreditation
- Complaints process
- PHSO
- CQC inspections
- NPSA
- Legal process
 - o (Almost) exclusively system failure issues

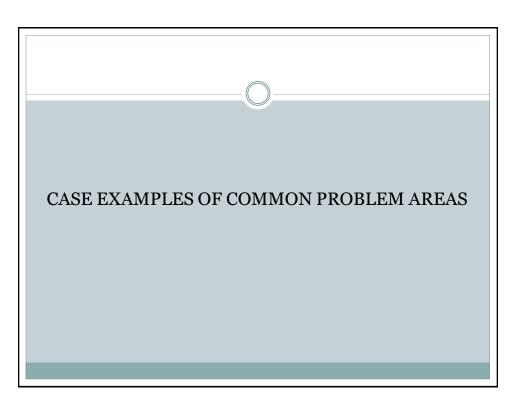


Common problem areas

- Long latency disease
 - Asbestos related disease
 - Pneumoconiosis
- More immediate disease
 - Inhalation injuries
 - Occupational asthma
 - o RTA chest wall/lung injury

Common problem areas

- Delay in diagnosis
 - o Out-patient/semi-elective management
 - × Lung cancers
 - × VTE
 - × Missed early manifestation of complex disease
 - × Overtreatment effects
 - o Inpatient care
 - Delay in identification/treatment of sepsis
 - Overtreatment effects



Summary

- Huge range of disease
- Common areas of jeopardy
- National and local safety systems
- Inevitably system failures
 - Occasional individual doctor issues
- Use appropriate medical expertise