MISSION ADC



Respiratory Examination

A thorough respiratory examination should include the following aspects. <u>Underlined</u> are the areas of highest importance which should always be considered.

General Inspection

Patient wellbeing: stable, alert, comfortable, <u>breathless</u>, cachexia (cancer, emphysema), cushingoid (steroid use).

Breathing: use of accessory muscles (severe asthma, COPD, pneumothorax), pursed lip breathing (keeps open small airways by increasing thoracic pressure during expiration in severe emphysema), stridor (upper airway obstruction), <u>wheeze</u>, <u>cough</u>, prolonged expiratory phase.

Around the bed / couch: oxygen, medications, sputum samples, cigarettes

Hands

Generalised fine tremor (beta agonists), CO₂ retention flap, perfusion (eg cyanosis), small muscle wasting (eg Pancoast tumour), <u>clubbing</u> (IPF, lung cancer, bronchiectasis) tar staining.

Pulse and Respiratory rate

Pulse: rate and rhythm, bounding pulse (CO2 retention)

Respiratory rate: tachypnoea (hyperventilation, pneumothorax, anxiety) bradypnoea (sedation)

Head and Neck

Face: cushingoid, plethoric (CO₂ retention)

Eyes: conjunctival pallor (anaemia of chronic disease)

Mouth: central cyanosis

Neck: JVP height (raised in cor pulmonale) tracheal tug, tracheal deviation (pleural effusion, pneumothorax, collapse), lymphadenopathy

TAKING CONTROL



Chest – both anteriorly and posteriorly

Inspection: Asymmetry (previous surgery, spinal deformities), scars (previous surgery), shape

Palpation: Both supra-mammary and infra-mammary chest wall expansion, feel for RV heave

Percussion: Percuss alternately left then right across chest (dull = consolidation or collapse, stony dull = pleural effusion, hyper-resonant = increased air space eg emphysema, pneumothorax).

Auscultation: During deep breaths: listen during inspiration and expiration and compare both sides.

- Decreased air entry: emphysema, pneumothorax, pleural effusion, collapse
- Added sounds:
 - o Wheeze- asthma, COPD
 - Crackles- coarse (bronchiectasis, consolidation, pulmonary oedema), fine (pulmonary fibrosis)
 - Pleural rub pulmonary infarction (PE)
- Vocal resonance: (Increased in consolidation, decreased in effusion / pneumothorax
- Bronchial breathing: consolidation or fibrosis

	Pneumothorax	Pneumonia	Pleural effusion	Collapse
Tracheal	AWAY	Normal	AWAY if large	TOWARDS
displacement				
Expansion	All reduced on the side of the problem			
Percussion	INCREASED	DECREASED	"Stony dull"	DECREASED
resonance				
Breath sounds	Reduced or	Bronchial	Reduced or	Reduced or
	absent	breathing and	absent	absent
		crackles		

Finally

Calves / lower legs: peripheral oedema, DVT

Sacrum: peripheral oedema



