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13

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COPD

Diagnosis:

CONDUCT post bronchodilator spirometry if: Smokers >40yo with dyspnea, cough or frequent RTIs

DIAGNOSIS confirmed if: FEV₁ <80% of the predicted normal value, and FEV₁/FVC <0.70

Assess Severity:

	CTS Classification	MRC scale	Classification by lung fxn
Mild	Dyspnea when walking quickly on level or slight hill	MRC 2	FEV ₁ ≥80% predicted, FEV ₁ /FVC <0.70
Mod	Dyspnea after a few min on flat, or forced to stop-100 m	MRC 3-4	50% ≤ FEV ₁ <80% predicted, FEV ₁ /FVC <0.7
Severe	Dyspnea with dressing, unable to leave house, or the presence of chronic resp failure or signs of right heart failure.	MRC 5	30% ≤ FEV ₁ <50% predicted, FEV ₁ /FVC <0.7. FEV ₁ <30% predicted classified as Very Severe.

Management of Stable COPD:

		Bronchodilator Pharmacotherapy			
		Mild	Mod /Severe with <1 AECOPD/yr	Mod /Severe with ≥1 AECOPD/yr	
<ol style="list-style-type: none"> smoking cessation exercise & education Influenza vaccine (annually) pneumococcal vaccine - repeat every 5-10 years bronchodilators 	All Patients	1 st Line	SABD prn	SABD prn + LAMA or LABA	SABD prn + LAMA + ICS/LABA
		2 nd Line	SABD prn + LAMA or LABA	SABD prn + LAMA + LABA	SABD prn + LAMA + ICS/LABA + theophylline
		3 rd Line		SABD prn + LAMA + LABA/ICS	
		SABD=short acting bronchodilators incl. beta agonists and muscarinic antagonists. LAAC = long acting anti-cholinergic (a.k.a. Long acting anti-muscarinic antagonist (LAMA). LABA= long acting beta agonist. ICS= inhaled corticosteroids			

Acute Exacerbations:

- Definition: Sustained worsening of one or more of dyspnea, cough, or sputum production, leading to change in Rx.
- ≥50% of AECOPD are infectious. Other causes: CHF, allergens, irritants, PE.
- Indication for hospital admission: Severe symptoms/signs, considerable comorbidities,
- inadequate home support. May require ICU transfer & BiPAP or invasive ventilation. **Hard to wean off.*
- Principles of Management:
 - Assess ABCs. Consider O₂ therapy if risk of hypoxia
 - Give increased dose of SABA+SAMA
 - Oral or parenteral corticosteroids
 - Antibiotics for more severe purulent AECOPD

When to engage in end-of-life discussions:

- FEV₁ <30% predicted, inspiratory capacity <80% predicted
- MRC grades 4-5 (see severity box above)
- Poor nutritional status (BMI <19kg/m²)
- Presence of pulm htn
- Recurrent severe AECOPD requiring hospitalizations