

Blue Cross Complete Clinical Practice Guideline Summary Guidelines for the Diagnosis and Management of Chronic Obstructive Pulmonary Disease (COPD)

Eligible	Key Recommendation					
Population	Components					
Patients	Diagnosis	 Consider COPD in those with a history of exposure (e.g. occupational exposure) to risk factors for the disease, especially smoking. Characteristic symptoms of COPD include: cough, increased sputum production, discoloration and dyspnea on exertion. 				
embers ≥ 18						
ears of age		 Perform spirometry on all pat 	ients suspected of COPD to e	stablish diagnosis. [C]		
		 A Post-bronchodilator FEV₁/FVC < 70% confirms the presence of airflow limitation that is not fully reversible 				
	Management:	Together with symptoms, spirometry helps stage severity of COPD and can be a guide for specific treatment steps The lower the percentage				
	Stable COPD	predicted FEV ₁ , the worse the pro				
		I: Mild COPD	II: Moderate COPD	III: Severe COPD	IV: Very Severe COPD	
		FEV ₁ /FVC <0.70	FEV ₁ /FVC <0.70	FEV ₁ /FVC <0.70	$FEV_1/FVC < 0.70$	
		$FEV_1 \ge 80\%$ predicted	FEV ₁ <u>></u> 50% and < 80%	FEV ₁ <u>></u> 30% and < 50%	$FEV_1 < 30\%$ of predicted or $< 50\%$ predicted plus	
		 short acting bronchodilators 	predicted	predicted	chronic -respiratory failure	
		as need [A]	 Daily long-acting 	 Daily long-acting 	 Combination therapy 	
			bronchodilators (bronchodilators as before	 Oral steroids as needed 	
			 Inhaled corticosteroids 	plus inhaled	 Oxygen supplementation 	
			are indicated if	corticosteroids		
			hospitalized for frequent	 Oral steroid bursts for 		
			COPD exacerbations	exacerbations		
		• Smoking cessation is a primary management goal for COPD [A] . Counsel all smokers (and household members) to quit at each visit [A] .				
	Therapy for all					
	severities					
		 COPD education Pulmonary rehabilitation [A] (if functional impairment) Assess need for referral to specialist. 				
		 May be beneficial at any stage of the disease When lung function deficits are not consistent with symptoms 				
		• To confirm the diagnosis and rule out other diagnoses				
		 Patient with COPD has less than 10-year pack history of smoking Hospitalized for COPD Frequent exacerbations Papid decline in EEV 				
		\cdot Rapid decline in FEV $_1$				
		 Consideration/monitoring c 	of oxygen therapy			
		 Patient may be a candidate 	e for lung transplant or volum	e reduction surgery (if stage	IV)	
	Management:	Generally exacerbations present with worsening in baseline dyspnea, increased sputum volume, and/or increase in sputum purulence.				
	Exacerbations					
		Antibiotic therapy may be beneficial [B] but remains controversial. The most common bacterial organisms include H. influenzae, S. pneumoniae, and M catar halis. Bactrim and				
		doxycycline are adequate "first-line" agents. Antibiotic choice should be based on <i>local bacterial resistance patterns</i>				
	Deriedie	Educate patient/family regarding COPD disease process [A].				
	Periodic					
	Assessment					
		Recognition of COPD exacerbations [B].				
		 Maintain physical and nutritional status. Quality of life assessment to include, ability to perform daily activities, quality of sleep and screeping for depression. 				
		 Quality of life assessment to include, ability to perform daily activities, quality of sleep and screening for depression. Discussions of end-of-life care [B] should take place while COPD is still stable, and following frequent hospital admissions for COPD. 				
vels of Evidenc	L e for the most sign full clinical practice	ificant recommendations: A=rando guideline please visit http://bluesi	mized controlled trials; B=co	ntrolled trials, no randomizat	tion; C=observational studies; D=opinion of expert pane	
• •	•					
tapted from G	ULD 2008 Update,	Global Strategy for the Diagnosis, I w/mmwrhtml/mm5753a6.htm?s_ci	Management, and Prevention d=mm5753a6 e 1-9-09	of Chronic Obstructive Pulmo	onary Disease (p. 54)	