

# Putting COPD Guidelines into Practice

by
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## **CONFLICT OF INTEREST**

- I have no financial conflict of interest that relates to this presentation. Any use of brand names is not in any way meant to be an endorsement of a specific product, but to merely illustrate a point of emphasis.
- I am an employee of the COPD Foundation.
  The COPD Pocket Consultant Guide lists all
  medications commonly used to treat COPD,
  including off-label use medications, which are
  clearly marked. I will not be describing meds.



## **OBJECTIVES**

- 1. Discuss current literature and research that warrants the need to change COPD guidelines
- Describe new features of the GOLD Strategy and the COPD Foundation Guide to Diagnosis and Treatment
- Introduce the seven severity domains and implications for treatment
- Identify how these changes will impact future research, diagnosis and treatment recommendations



## NHLBI DEFINITION

- Chronic Obstructive Pulmonary Disease
- Serious lung disease that over time makes it hard to breathe
  - Emphysema
  - Chronic Bronchitis
- Blocked (obstructed) airways make it hard to get air in and out



## **COPDF DEFINITION**

- Chronic Obstructive Pulmonary Disease
- Serious lung disease that over time makes it hard to breathe
  - Emphysema
  - Chronic Bronchitis
  - Refractory Asthma and
  - Some forms of bronchiectasis
- Blocked (obstructed) airways make it hard to get air in and out



## **GOLD DEFINITION**

- COPD, a common preventable and treatable disease, is characterized by persistent airflow limitation that is usually progressive and associated with an enhanced chronic inflammatory response in the airways and the lung to noxious particles or gases.
- Exacerbations and comorbidities contribute to the overall severity in individual patients.

 Alpha-1 testing for young and/or low tobacco use or environmental exposures



## ATS, ERS, ACP, ACCP STATEMENT

 Chronic Obstructive Pulmonary Disease (COPD) is a preventable and treatable disease state characterised by airflow limitation that is not fully reversible.

- The airflow limitation is usually progressive and associated with an abnormal inflammatory response of the lungs to noxious particles or gases, primarily caused by cigarette smoking.
- Alpha-1 testing for all with diagnosed COPD



## ATS, ERS, ACP, ACCP STATEMENT

- **Recommendation 1.** Use spirometry to diagnose airflow obstruction in patients with respiratory symptoms
  - Spirometry Strong recommendation, moderate evidence
- Recommendation 2. COPD w/symptoms and FEV1 60%-80%
  - BD use weak recommendation, low evidence
- **Recommendation 3.** COPD w/symptoms and FEV1 <60%
  - BD use strong recommendation, moderate evidence
- **Recommendation 4.** COPD w/symptoms and FEV1 <60%
  - Mono LAMA or LABA strong recommendation, moderate evidence



## ATS, ERS, ACP, ACCP STATEMENT

**Recommendation 5\*.** COPD w/symptoms and FEV1 <60%

 Combo LAMA or LABA or ICS – weak recommendation, moderate evidence

**Recommendation 6.** COPD w/symptoms and FEV1 <50%

Pulmonary Rehab – strong recommendation, moderate evidence

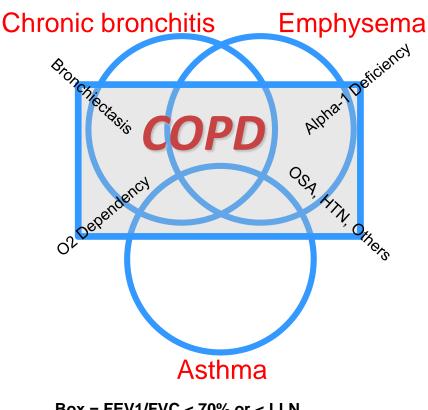
**Recommendation 7.** Prescribe continuous oxygen therapy for resting hypoxemia (Pao<sub>2</sub> ≤55 mm Hg or Spo<sub>2</sub>≤88%)

Oxygen – Strong recommendation, moderate evidence



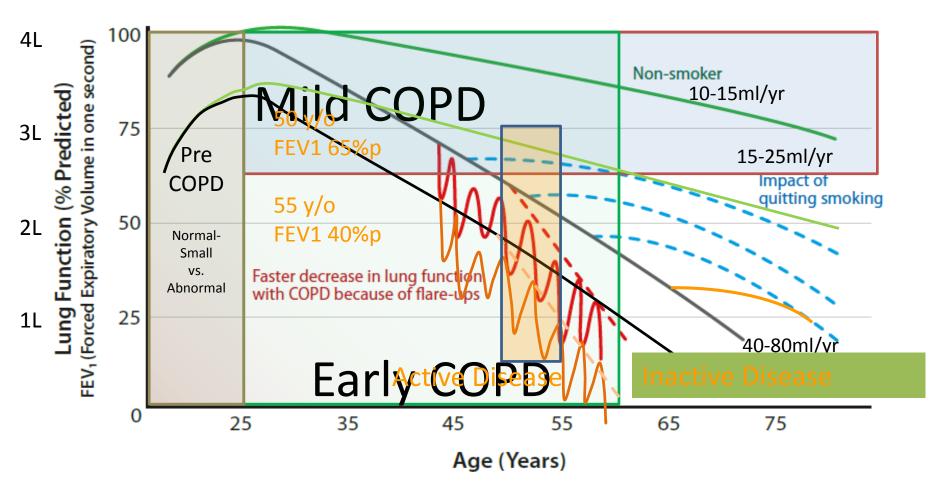
## **COPD: DEFINITIONS OF** 21ST CENTURY

- Preventable and treatable
- Airflow limitation that is not fully reversible
- Progressive disease
- Abnormal inflammatory response of the lungs
- Subsets of patients



Box = FEV1/FVC < 70% or < LLN

### How Your Lung Function Changes as You Age

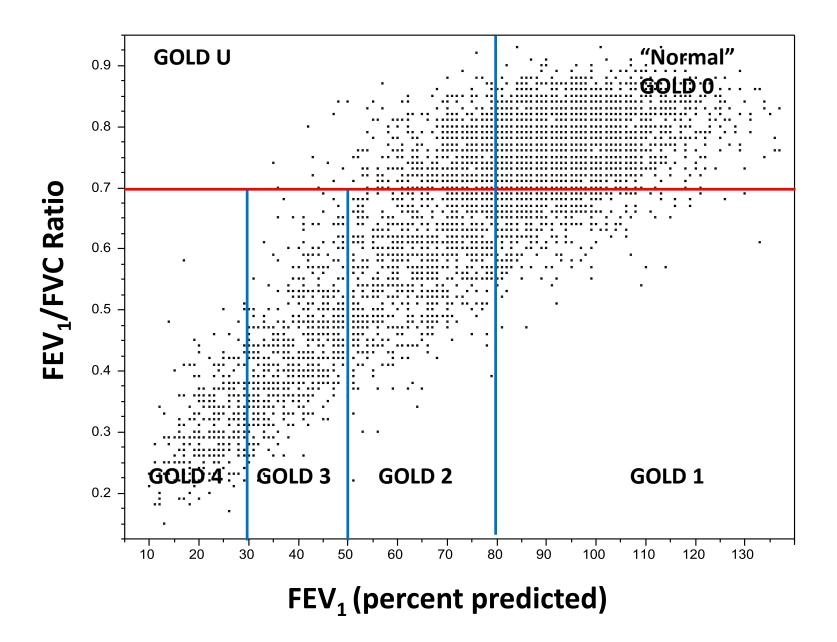


Modified by Mannino, D.M., MASAC Chair, COPD Foundation, 2011. Fletcher C, Peto R. 1977. The Natural History of Chronic Airflow Obstruction. BMJ1977;i:1645-8. Wedzicha, J., Wilkinson, T. 2008. Impact of Chronic Obstructive Pulmonary Disease Exacerbations on Patients and Payers. American Thoracic Society 3:218-221.





## Distribution of Subjects in the COPDGene Cohort





## **GOLD TREATMENT OF COPD**

 $FEV_1 / FVC < 70\%$ 

I: Mild

 $FEV_1 \ge 80\%$  pred

II:Moderate

FEV<sub>1</sub> 50-80% pred

III: Severe

FEV<sub>1</sub> 30-50% pred

IV: Very Severe

FEV<sub>1</sub> < 30% pred or FEV<sub>1</sub> <50% predicted plus respiratory failure

Active Reduction of risk factor(s); influenza vaccination

Add short-acting bronchodilator when needed

Add regular treatment with one or more long-acting bronchodilators: β<sub>2</sub> agonists and anticholinergics

Add rehabilitation

Add ICS for repeated exacerbations

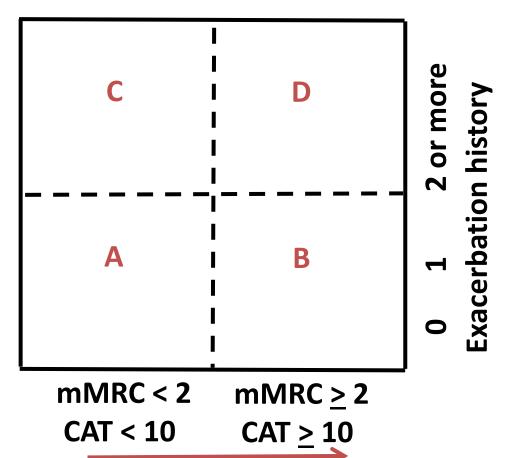
Add LTOT

Surgical interventions



## **COPD ASSESSMENT: A NEW MODEL**





Increasing Risk



**Increasing Symptoms** 





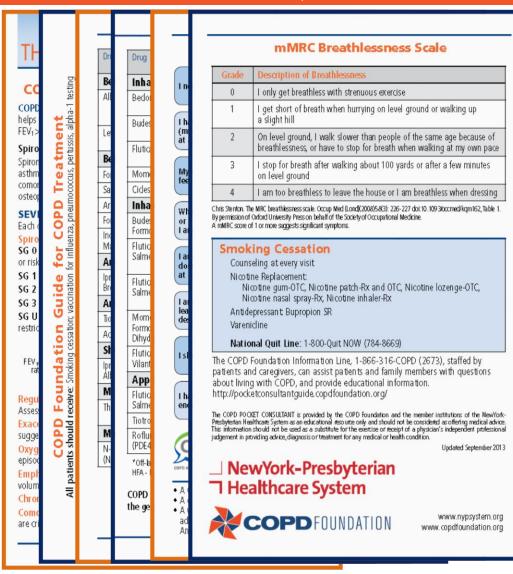
### All patients should receive:

	short acting bronchodilator (as needed)	LAMA or LABA or LAMA plus LABA	ICS/LABA	roflumilast	oxygen	exercise/ pulmonary rehabilitation	lung volume reduction surgery	azithromycin
Spirometry Grade SG1 Mild	M	<b>O</b> t						
SG 2/3 Moderate/ Severe	₩.	*	0	<b>O</b> *				
Regular symptoms	N	₩ N	Q			**		
Exacerbation risk high		₩#	11	Q*				<b>O</b> #
Oxygenation severe hypoxemia					A TOTAL OF THE PARTY OF THE PAR			
episodic hypoxemia					0			
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Chronic bronchitis				<b>O</b> *				7
Comorbidities		R	Evaluate ar	nd treat iden	tified comor	bid conditions		

### **POCKET CONSULTANT GUIDE (PCG)**



- Best application
- 4x6, 6 panel
- Limit 1000 / pdf
- UOM: PKG/50
- Easy to use guide for diagnosis and treatment
- Generic Name
- Trade Name
- 2 panel
- Smart-phone app
- Online Community





# GUIDE TO DIAGNOSIS COPD DEFINITION

- Defined by post bronchodilator FEV1/FVC ratio<0.7 on spirometry</li>
- This helps differentiate from asthma
- A significant bronchodilator response (increase in FEV1>12% and >200 cc) can be seen in both COPD and asthma



## GUIDE TO DIAGNOSIS: SPIROMETRY

- Indicated if symptoms present: dyspnea, chronic cough/sputum
- Should be considered if:
  - Risk factors are present smoking, other exposures, asthma history, childhood infections, prematurity, family history
  - AND with one or more comorbidities present-heart disease, metabolic syndrome, osteoporosis, depression, lung cancer, premature skin wrinkling





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Spirometry Grade SG1 Mild	N	<b>O</b> 1						
SG 2/3 Moderate/ Severe	N	<b>₹</b>	0	<b>O</b> *				
Regular symptoms	N	*	0			**		
Exacerbation risk high		₩#	#	<b>O</b> *				<b>O</b> #
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Emphysema							<b>O</b> :	
Chronic bronchitis				<b>O</b> *				
Comorbidities	Evaluate and treat identified comorbid conditions							





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Regular symptoms	N	*	0			**		
Exacerbation risk high		₩"	++	<b>O</b> *				<b>O</b> #
Oxygenation severe hypoxemia					*			
episodic hypoxemia					0			
Emphysema							O <sub>t</sub>	
Chronic bronchitis				<b>O</b> *				
Comorbidities		<b>*</b>	Evaluate ar	nd treat iden	tified comor	bid conditions		

## SEVERITY DOMAIN: 1. SPIROMETRY GRADES



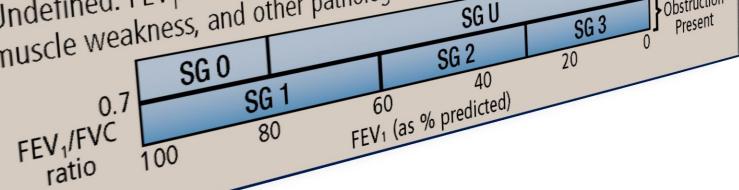
## Spirometry Grades:

SG 0 Normal spirometry does not rule out emphysema, chronic bronchitis, asthma, or risk of developing either exacerbations or COPD.

**SG 1** Mild: Post bronchodilator FEV<sub>1</sub>/FVC ratio<0.7, FEV<sub>1</sub>≥60% predicted. SG 2 Moderate: Post bronchodilator FEV₁/FVC ratio<0.7, 30%≤FEV₁<60% predicted.

**SG 3** Severe: Post bronchodilator FEV<sub>1</sub>/FVC ratio<0.7, FEV<sub>1</sub><30% predicted. SG U Undefined: FEV<sub>1</sub>/FVC ratio≥0.7, FEV<sub>1</sub><80% predicted. This is consistent with restriction,

muscle weakness, and other pathologies.







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Regular symptoms	N	<b>₹</b>	0			**		
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Oxygenation severe hypoxemia					*			
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Comorbidities	Evaluate and treat identified comorbid conditions							

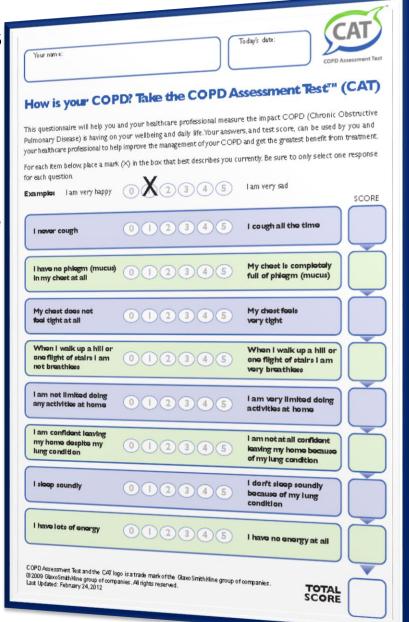
## **COPD ASSESSMENT TEST (CAT)**



 A CAT score 10 or more suggests significant symptoms

 A change in CAT score of 2 or more suggests a possible change in health status

 A worsening of CAT score could be explained by an exacerbation, poor medication adherence, poor inhaler technique, or progression of COPD or comorbid condition.
 An adjustment in therapy may be needed.





## MMRC BREATHLESSNESS SCALE

Grade	Description of Breathlessness
0	I only get breathless with strenuous exercise
1	I get short of breath when hurrying on level ground or walking up a slight hill
2	On level ground, I walk slower than people of the same age because of breathlessness, or have to stop for breath when walking at my own pace
3	I stop for breath after walking about 100 yards or after a few minutes on level ground
4	I am too breathless to leave the house or I am breathless when dressing





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Oxygenation severe hypoxemia					N			
episodic hypoxemia					0			
Emphysema							O;	
Chronic bronchitis				<b>O</b> *				
Comorbidities		N	Evaluate ar	nd treat iden	tified comor	bid conditions		



# SEVERITY DOMAIN: 3. EXACERBATIONS

- High Risk for ???:
  - Two or more exacerbations in past year
  - Especially if FEV1<50% predicted</li>
- Tease out exacerbation history
  - Mild Increased rescue inhaler
  - Moderate antibiotic or steroid added
  - Severe hospital admission (2 points)





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Regular symp	toms	N	*	0			**		
Exacerbation in high	risk		₩#	##	<b>O</b> *				<b>O</b> #
Oxygenation severe hypoxe	mia					*			
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Emphysema								Ö	
Chronic brone	hitis				<b>O</b> *				
Comorbidities			R	Evaluate ar	nd treat iden	tified comor	bid conditions		



# SEVERITY DOMAIN: 7. COMORBIDITIES

 Comorbidities are extremely common in COPD and impact morbidity, hospitalization and re-hospitalization rates and mortality.

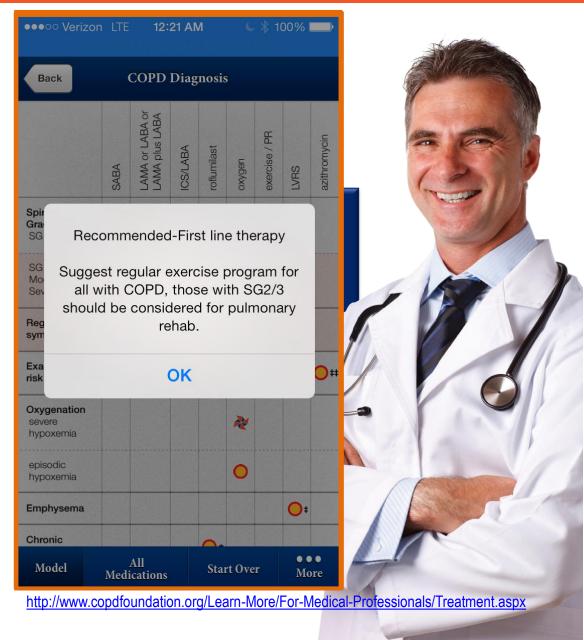
 Evidence suggests that COPD may be an independent risk factor for the development of cardiovascular disease, lung cancer, depression, osteoporosis.

 Defining and treating comorbid conditions, particularly cardiovascular, are critical components of COPD care and should be evaluated in every patient at every visit.

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## DISCHARGE CONSIDERATIONS

- 1. Acute Care vs. Maintenance Therapy
- 2. Other Considerations cessation, vaccines, exercise, alpha-1 testing
- 3. Evaluate all 7 severity domains
  - Document and monitor: spirometry, symptoms, exacerbations, rehab
- Your job is to coordinate care for the missing pieces!

### **TOOLS – MY COPD ACTION PLAN**



COPD360 action T'S MY COPD ACTION PLAN	My Name: My Doctor's Name: Emergency Contact:	Date: Phone: Phone:	COPD			
Instructions: My COPD Action Plan can be used daily and Select how your COPD disrupts your activities on a reg	should be updated every 6 months. Please complete this section and bring a complete medication list to ular basis. Think about your ability to perform these activities on a typical green day. Place one check	your next doctor's visit. xmark in each column. Update in 6 months on:				
l can do this I can do this with minor limitations I struggle to do this I cannot do this	CLEANING MAKE MY BED BRUSH SHOWERING WALKING	G CLIMBING WORKING SLEEPING EXE	RCISING COOKING			
Instructions: Work with your doctor to complete this s	ection on special medications for use on your Yellow and Red days.					
My Green Days M	rmal Day for Me y breathing is normal y cough and mucus are normal y sleeping is normal y eating and appetite are normal y activity level is normal	I will take all medications as prescribed I will keep routine doctor appointments I will use oxygen as prescribed I will exercise and eat regularly I will avoid all inhaled irritants & bad air days I will update my COPD Action Plan every 6 months				
My Yellow Days	d Day for Me lave a low grade fever that doesn't go away ave increased use of rescue medications without relief ave a change in color, thickness, odor or amount of mucus am more tired than normal or have trouble sleeping have new or more ankle swelling am more breathless than normal eel like I am catching a cold	Take Action  I will limit my activity and use pursed-lips breathing I will take regular medications as prescribed I will report these changes to my doctor today I will start special medications* prearranged with my doctor which includes:				
A Day  My Red Days	When I Need Help Right Away have disorientation, confusion or slurring of speech have severe shortness of breath or chest pain have a blue color around my lips or fingers have acughing up blood	Take Action  I will call 911 right away  I will start these special medication	ns*:			
* If sy	mptoms are not improved in one day after taking specia	al medications consult your doctor.				

#### **TOOLS – EXACERBATION CARD**



### Optimal Care for COPD

- 1. If you smoke, quit.
- Get a flu shot every year and a pneumonia shot as required.
- 3. Keep up regular exercise.
- 4. Eat right to maintain a healthy weight.
- 5. Use proper breathing techniques.
- Watch for early warning signs of lung infection and exacerbation.
- Take medications as prescribed. Some medications are proven to help people with COPD have fewer exacerbations.
- 8. Use supplemental oxygen as prescribed.
- See your doctor regularly, even when you feel well.
- Communicate with loved ones about COPD and ask for help when you need it.
- 11. Get tested for Alpha-1.
- Discuss end-of-life care and write it down.

## Report Warning Signs of Exacerbations

Notify your health care provider of these early warning signs:

- 1. Low grade fever that doesn't go away
- 2. Increased use of rescue medications
- Change in color, thickness, odor or amount of mucus
- 4. Tiredness that lasts more than one day
- 5. New or increased ankle swelling

#### Call 911 for dangerous warning signs:

- Disorientation, confusion or slurring of speech
- 2. Severe shortness of breath or chest pain
- 3. Blue color in lips or fingers

## Tips for healthy living with COPD

- · Avoid people who are sick
- · Avoid unnecessary hand shaking
- · Avoid touching your face when in public
- · Wash your hands often
- Use alcohol hand gel when you cannot wash your hands
- Avoid going outside on windy days.
   If you have to go out, wear a mask.
- Use your own pen at the bank, doctor's office, etc.
- Use coughing techniques to keep your airways clear of mucus
- Used pursed-lip breathing techniques during activity
- Monitor your health status with a COPD Assessment Test (CAT)
- Develop a COPD Action Plan with your doctor



A program of the COPD Foundation

My Name:	DOB:	Allergies:	
Physician Name:		Phone:	
Lung Specialist Name:		Phone:	
Emergency Contact Name:		Phone:	

#### **TOOLS - THE SSRG SERIES**



- Coping with Chronic Lung Disease
- End of Life
- Exacerbations
- Exercise
- Hospital & Transition Back Home
- Lung Disease Tests
- Medicines
- Nutrition Tips
- Oxygen Therapy
- Travelling with COPD
- Understanding Lung Disease

#### Tips for Healthy Living with COPD

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- Used pursed-lip breathing techniques during activity.
- Monitor your health status with a COPD Assessment Test (CAT).
- Develop a COPD Action Plan with your doctor

Make sure your friends and family members are aware of these early warning signs.

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12 - COSD Abundation - Slim Shinny Reference Guide

#### OPTIMAL CARE FOR COPD



- How to avoid infections and report early warning signs of COPD exacerbation.
- Pursed-lips breathing is illustrated along with easy-to-perform steps.
- Medications section describes the differences between rescue inhalers and controller inhalers with simple to understand analogies.
- A section on inhaled medications covers the potential benefits and drawbacks of using nebulizers and hand held inhalers.
- Quick Reference Medication List. This includes all the medications commonly used for treatment of COPD.

#### QUICK REFERENCE MEDICATION LIST

#### CONTROLLERS

Short-acting Anticholinergic Bronchodilators - Opens alrways by blocking cholinergic receptors

Atrovent®

Long-acting Anticholinergics - Opens alrways by blocking cholinergic receptors

Tudorza® - 12 hours \*Spiriva® - 24 hours Incruse® Ellipta® - 24 hours

Long-acting Beta-agonists - Opens alrways by stimulating beta
receptors for 12 hours or more

Foradl® Aerollzer® Perforomist® Striverdi® Respimat® - Serevent® Diskus® Arcapta® - 24 hours 24 hours

Brovana®

Corticosteroids - Reduces swelling on insides of airways - does not act right away

Aerobid<sup>®</sup> Flovent<sup>®</sup> HFA Beclovent<sup>®</sup>
Azmacort<sup>®</sup> Pulmicort<sup>®</sup> Flexhaler<sup>®</sup> Vanceril<sup>®</sup>

Asmanex® Twisthaler® Alvesco® Arunity® Ellipta® - 24 hours

Flovent® Diskus® Qvar®

Combination Corticosteroids & Long-acting Beta-agonists -

Reduces swelling and opens allways by stimulating beta receptors for 12 hours or more

\*Advair® Diskus® Symbicort® \*Breo® Ellipta® -Advair® HFA Dulera® 24 hours

Combination Long-acting Anticholinergic & Long-acting
Beta-agonist - Two bronchodilators open alrways by stimulating cholinergic
receptors and opens alrways by stimulating beta receptors for 24 hours
Anoro® Ellipta®

PDE4 Inhibitor - Helps reduce the number of symptom flare-ups for 24 hours

\*Dallresp®

#### RESCUE RELIEVERS

Short-acting Beta-agonists - Opens alrways by stimulating beta receptors - acts quickly and lasts for about 4 hours

Albuterol Proventil® HFA ProAir® HFA
Xopenex® HFA Ventolin® HFA Maxair® Autohaler

Combivent and Duo-Neb - Opens always by stimulating cholinergic receptors and opens always by stimulating beta receptors. Acts quickly and lasts for up to 8 hours.

"The only medications approved by the FDA that have been shown to reduce COPD exacerbations (flare-ups) include: Advair 250/50, Breo Ellipta, Daliresp and Spiriva.

### **COPD EDUCATOR PROGRAM**



- Live course at your institution
- Learn best practices for COPD dx & tx

- Custom courses for your needs
- 8 hour full CEU and CME

#### COPD EDUCATOR PROGRAM®

"This was the most useful course that I have attended in many years"

-COPD Patient

- Intro to COPD Educator Program & Pre Test
- COPD Overview & Risk Factors
- COPD Pathology
- Break
- Simple Spirometry for Diagnosis of COPD
- Establishing Diagnosis Based on 7 Severity Domains
- Lunch (provided by host)
- Respiratory Pharmacology
- Non-Pharmacological Management & Oxygen
- Break
- Quality of Life and Educational Materials
- COPD Exacerbations & Interventional

Each course can be customized to meet the needs of your institution, like hands-on Spirometry Workshop, spirometry equipment, etc.

Please contact Scott Cerreta at 866-731-2673 x 443 or email scerreta@copdfoundation.org for pricing and course options.





Our initiative to improve COPD care across the continuum and reduce readmissions

### A collaborative of

7,000+ healthcare providers, administrators and policymakers

www.copdfoundation.org/PRAXIS



Learn what your peers are doing in the field

Catch up on breaking policy & research developments





Locate toolkits, promising practices

Find educational activities and events





Stay abreast of innovation

## **ONLINE ORDERS** HTTP://COPD.OIONDEMAND.COM





http://www.copdfoundation.org/ PocketGuideRegistration.aspx

## INSTITUTIONAL PACK

#### The COPD Pocket Consultant Guide Institutional Pack includes:

- Published manuscript on COPD Foundation Guidelines
- PowerPoint Presentation for Grand Rounds presentation
- Dissemination Ran within your Institution
- Rier for mobile app download and website blog





Medium: 500 Pocket Guides - 6 panel Generio Names, 20 Posters 18x22 Small: 250 Pocket Guides - 6 panel Generic Names, 10 Posters 18x22 FOR ADDITIONAL INFORMATION PLEASE VISIT OUR WESSITE AT WWW.COPDFOUNDATION.ORG, CALL US AT 1-866-816-COPD (2678)

OR PLACE AN ONLINE ORDER AT COPD.ORONDEMAND.COM/



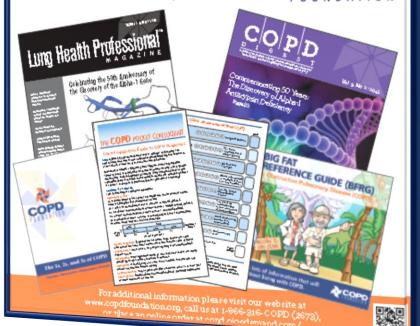
## II ONLINE CATALOGUE

In our online catalogue you'll find attractive, up-to-date and easy to understand educational materials including the Big Fat Reference Guide Verz.1 (BFRG), the most comprehensive educational tool available for persons with COPD and much more. All materials are free of charge.

You only pay for shipping to your location! Please view our online catalogue at: http://copd.oiondemand.com

You will need to register as a REGISTRANT for healthcare professionals or as a PEP Coordinator for PRCenters that are formally enrolled in the PEP program.







## **Empowering Patients through Research**

"You might have lost your breath, but you haven't lost your voice"





## YOU CAN HELP!

- Request postcards to share at support groups, clinics, respirator care departments, etc
- Posters and paper surveys available for some locations.

www.copdpprn.org





## **SUMMARY**

- Implications for treatment of COPD requires consideration for seven severity domains.
- COPD Foundation's Pocket Consultant Guide is a tool derived from existing guidelines that is simple, convenient and portable.
- PR Coordinators should be part of the acute care discharge planning process. Use PCG to coordinate spirometry, symptom and exacerbation assessment and determine appropriate Maintenance Therapy.
- Other COPDF tools and programs are available to support your projects
- All COPD patients should join the COPD PPRN

### Take Action Today. Breathe Better Tomorrow.



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