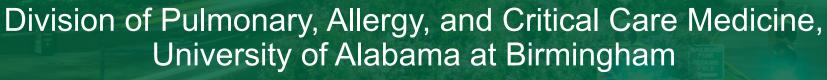


# Palliative Care in Serious Respiratory Illness

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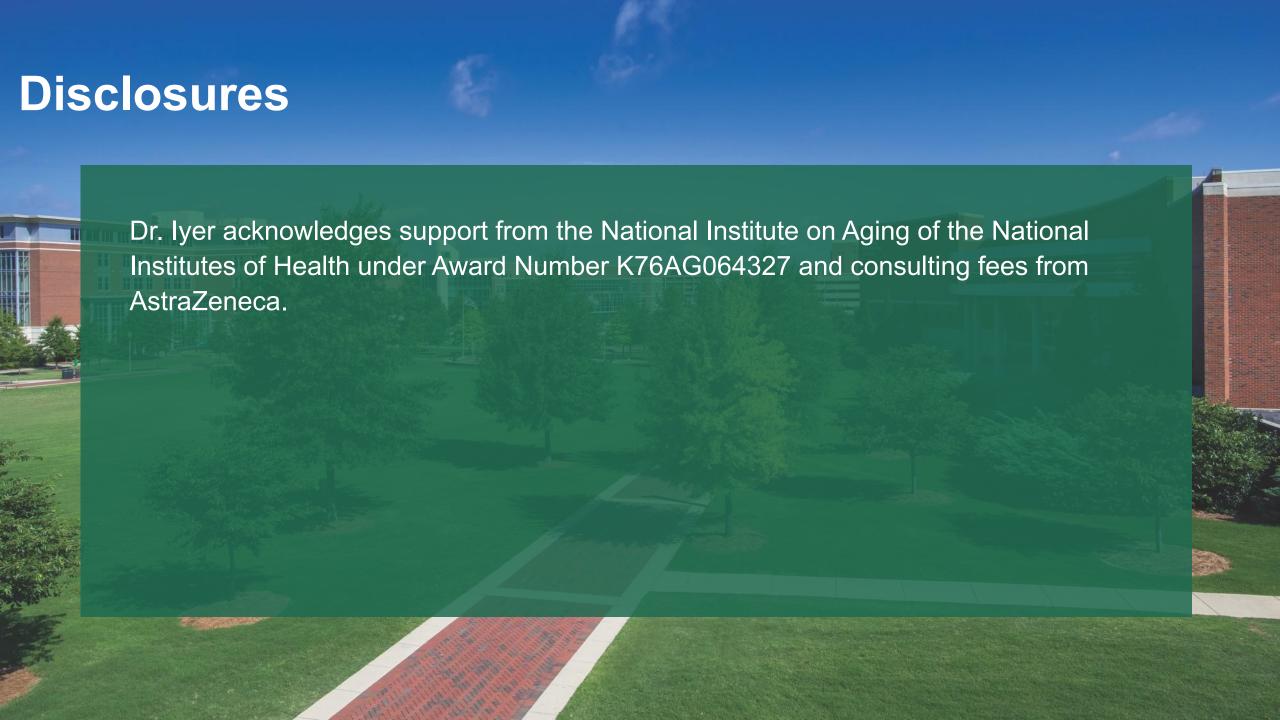




The University of Alabama at Birmingham







# **Learning Objectives**

Describe early palliative care needs in serious respiratory illness

Identify potential triggers for early palliative care integration

 Discuss novel palliative care models and the role of primary palliative care in serious respiratory illness

#### **Outline**

I. Background

II. Early Palliative Care Needs in Serious Respiratory Illness

**III. Barriers to Proactive Palliative Care** 

IV. Improving the Integration of Palliative Care and Its Principles into Practice

#### Case: Ms. M

- 65yo White female with COPD and progressively worsening breathlessness
- 35 pack-year smoking; quit 1 year ago
- 1 hospitalized exacerbation in 2 years
- mMRC 3-4 (severely breathless)
- CAT 24 (poor health status)
- Pulmonary hypertension, sleep apnea on Trilogy
- Inhalers: SABA (Albuterol MDI, nebs), ICS/LABA (Breo), LAMA (Spiriva)
- Six-minute walk distance: 550ft (2L oxygen)



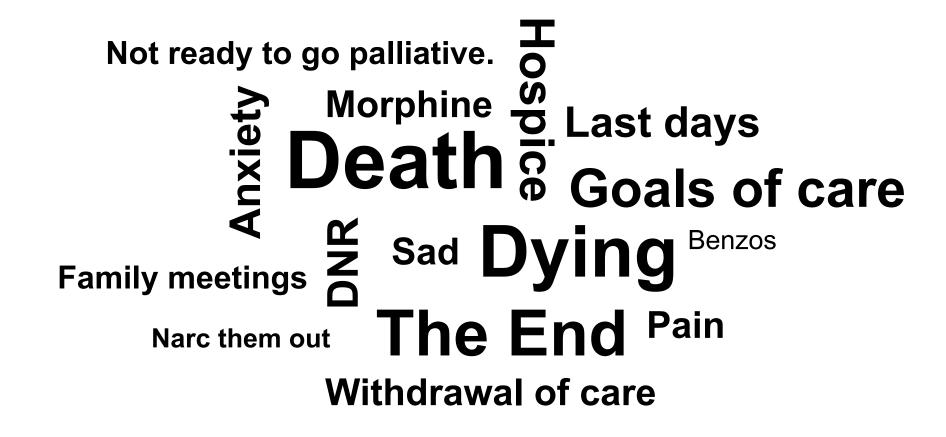
0	Spiromet	try	Ref	Pre Meas	Pre % Ref	
and the same	FVC	Liters	3.05	1.21	40	
	FEV1	Liters	2.33	0.36	16	
	FEV1/FVC	%	77	30		
	FEF25-759	6L/sec	2.05	0.15	7	
	FEF50%	L/sec	3.45	0.15	4	
	PEF	L/sec	5.84	1.10	19	
	FET100%	Sec		8.82		
_	MVV	L/min	55			
M	Lung Vol	umes				
	TLC	Liters	4.84	3.93	81	
	RV	Liters	1.97	2.72	138	
	RV/TLC	%	41	69		
	FRC N2	Liters	2.68	3.11	116	
	VC	Liters	2.51	1.21	48	
	ERV	Liters	0.95	0.37	38	
	IC	Liters	1.91	0.82	43	
	Vtg	Liters	3.15			
	LCI		7.00	10.98	157	
	Wash Time	Min		7.0		
	Diffusion					
CO	DLCO	mL/mmHg/min	20.7	3.1	15	
	DL Adj	mL/mmHg/min	20.7	3.1	15	
	DLCO/VA	mL/mHg/min/L	4.45	1.40	31	
	DL/VA Adj	mL/mHg/min/L	4.45	1.40	31	
	VA	Liters	4.84	2.21	46	

BMI<sup>-</sup> 20

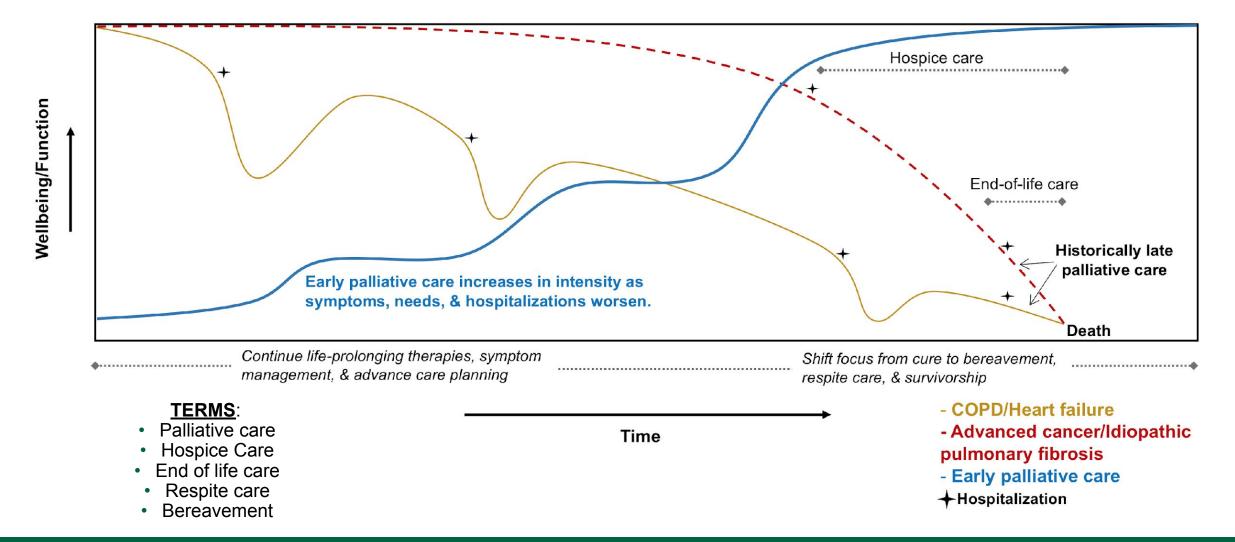




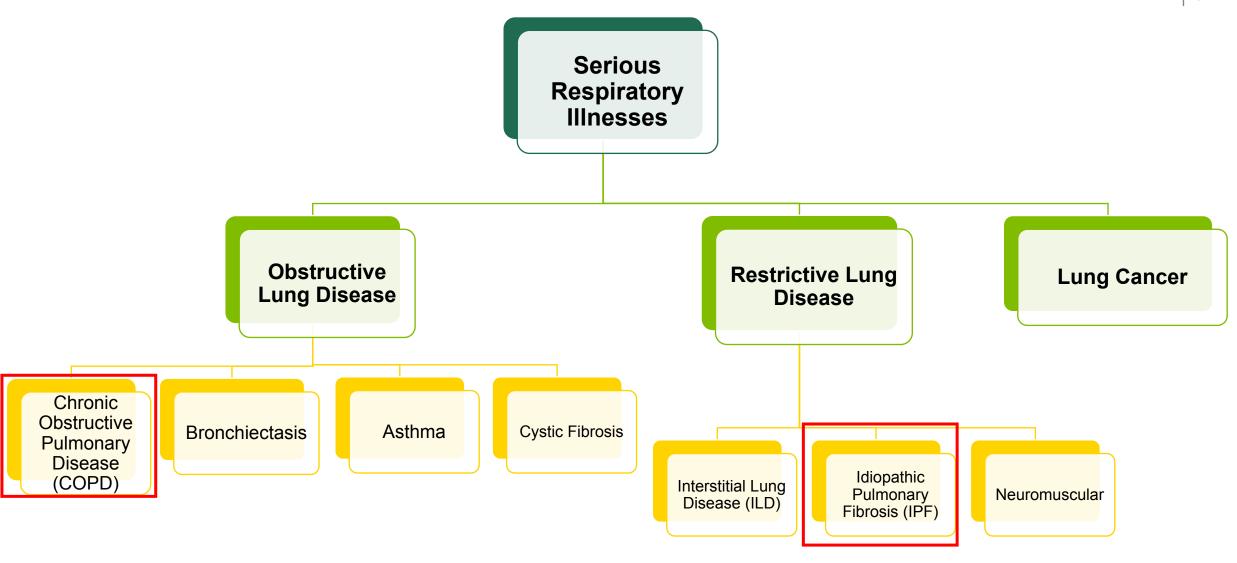
# **Palliative Care Misconceptions**



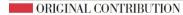
### **Trajectories of Decline in Serious Illness**



### **Serious Respiratory Illnesses**



#### Early Palliative Care Works – Learning from Cancer



# Effects of a Palliative Care Intervention on Clinical Outcomes in Patients With Advanced Cancer

The Project ENABLE II Randomized Controlled Trial

Iarie Bakitas, DNSc, APRN	
Kathleen Doyle Lyons, ScD, OT	R
fark T. Hegel, PhD	
tefan Balan, MD	
rances C. Brokaw, MD, MS	
anette Seville, PhD	
ay G. Hull, PhD	
hongze Li, MS	
or D. Tosteson, ScD	
ra R. Byock, MD	
im A. Ahles, PhD	

**Context** There are few randomized controlled trials on the effectiveness of palliative care interventions to improve the care of patients with advanced cancer.

**Objective** To determine the effect of a nursing-led intervention on quality of life, symptom intensity, mood, and resource use in patients with advanced cancer.

**Design, Setting, and Participants** Randomized controlled trial conducted from November 2003 through May 2008 of 322 patients with advanced cancer in a rural, National Cancer Institute—designated comprehensive cancer center in New Hampshire and affiliated outreach clinics and a VA medical center in Vermont.

**Interventions** A multicomponent, psychoeducational intervention (Project ENABLE [Educate, Nurture, Advise, Before Life Ends]) conducted by advanced practice nurses consisting of 4 weekly educational sessions and monthly follow-up sessions until death or study completion (n=161) vs usual care (n=161).

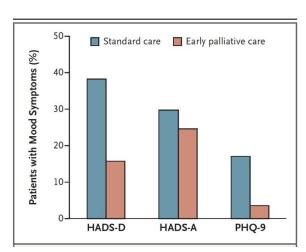
Main Outcome Measures Quality of life was measured by the Functional Assess-

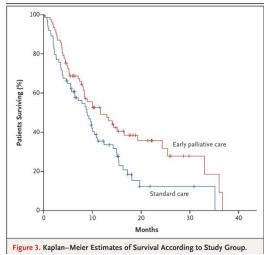
The NEW ENGLAND JOURNAL of MEDICINE

#### ORIGINAL ARTICLE

#### Early Palliative Care for Patients with Metastatic Non–Small-Cell Lung Cancer

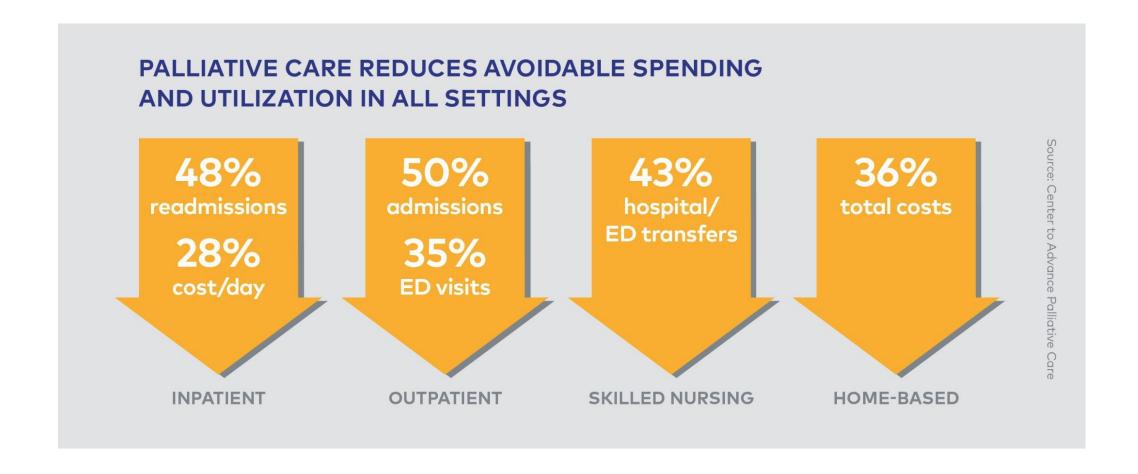
Jennifer S. Temel, M.D., Joseph A. Greer, Ph.D., Alona Muzikansky, M.A., Emily R. Gallagher, R.N., Sonal Admane, M.B., B.S., M.P.H., Vicki A. Jackson, M.D., M.P.H., Constance M. Dahlin, A.P.N., Craig D. Blinderman, M.D., Juliet Jacobsen, M.D., William F. Pirl, M.D., M.P.H., J. Andrew Billings, M.D., and Thomas J. Lynch, M.D.







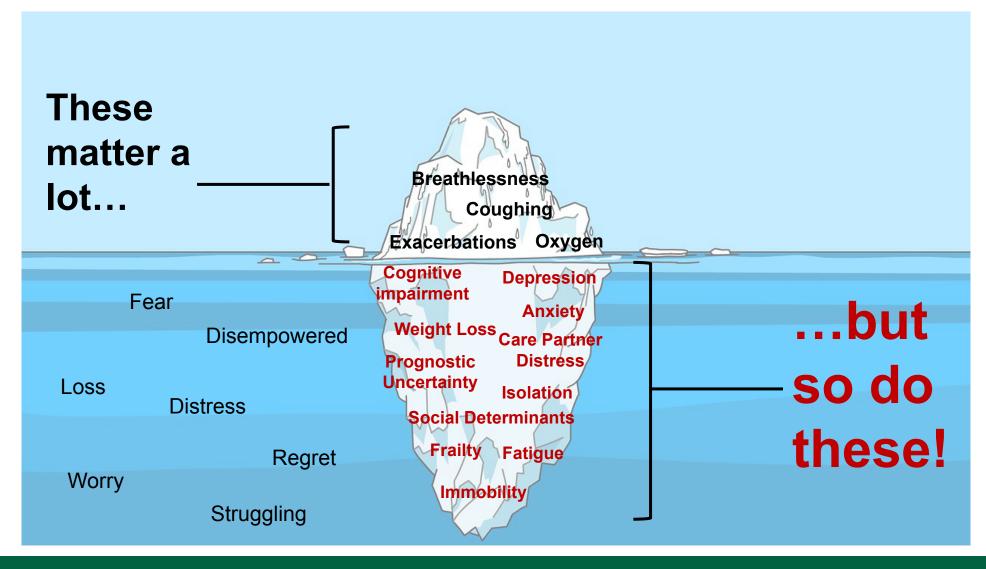
# **Early Palliative Care Works**





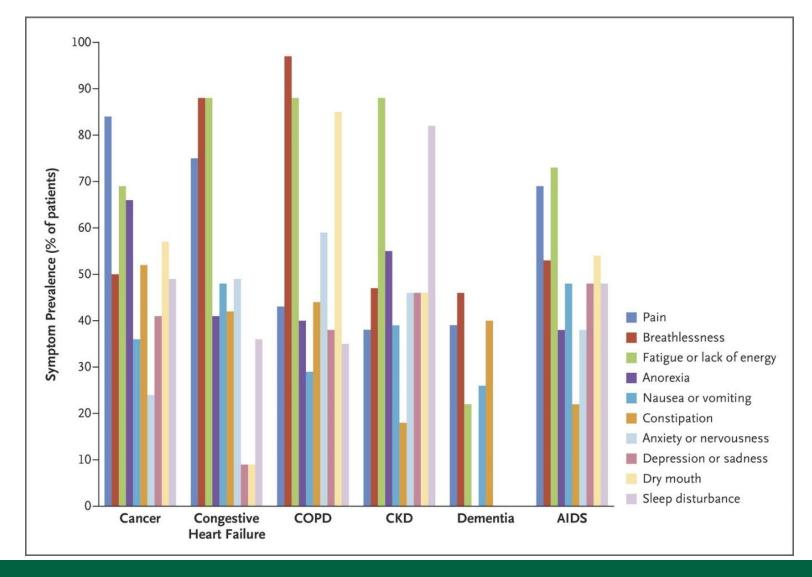


#### Care Needs in Serious Respiratory Illness - The Surface





### Symptom Prevalence in Serious Illness

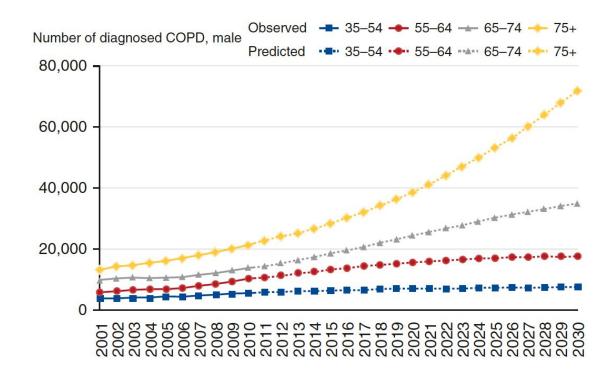


#### **Older Adults**

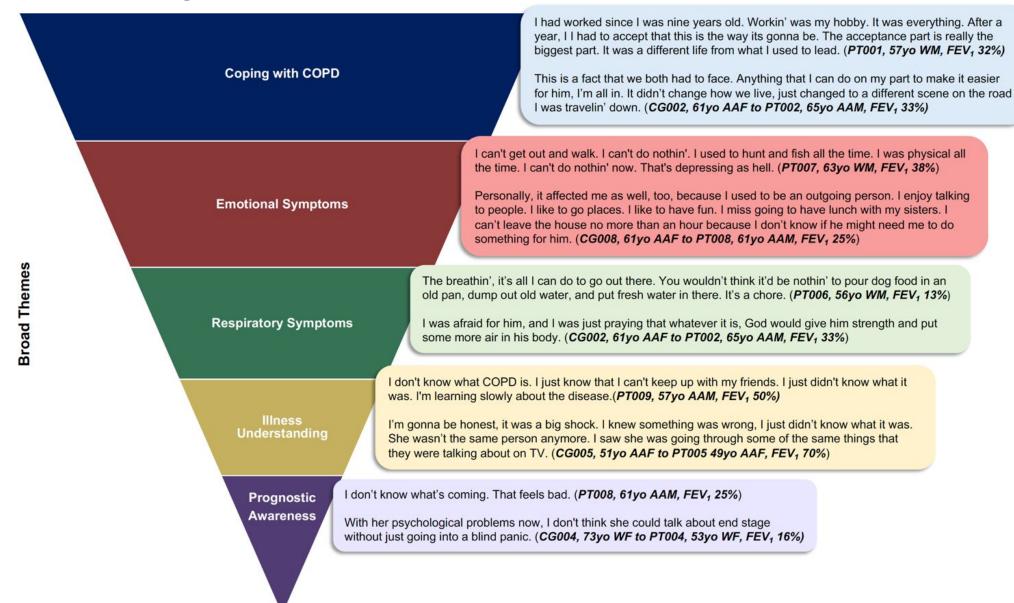
Accelerated pathophysiological aging

 Half of adults with COPD will be >75 years by 2030

• 3<sup>rd</sup> leading global cause of disability in adults >75 years



#### Themes of Early Palliative Care Needs in COPD



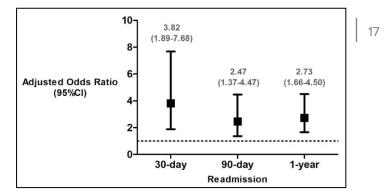


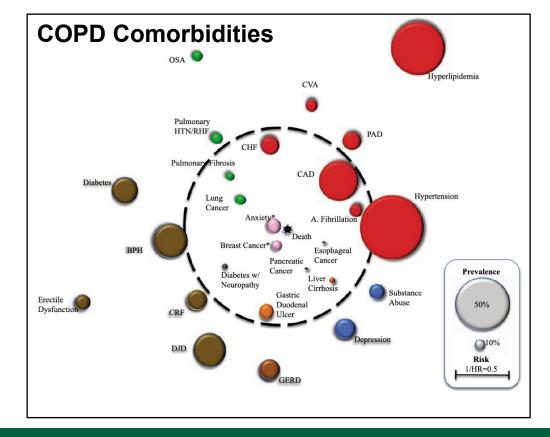
### **Emotional Symptoms**

 Prevalent across GOLD stages & increases in prevalence across GOLD letter grades

- Associated with poor COPD outcomes: mortality, exacerbations, readmissions, poor QoL, poor adherence
- Key demographic characteristics associated with have untreated emotional symptoms

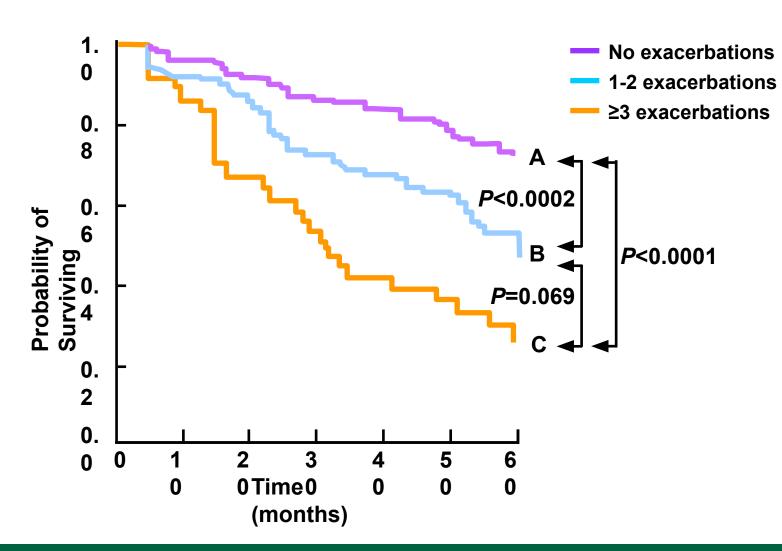
Depression and COPD Readmissions







#### Frequent COPD Exacerbations and Mortality



Sentinel event: 25% mortality in 1 year

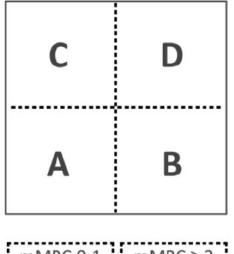
 Following severe exacerbations: Age, White race, male, prior nursing home, weight loss, and cancer associated with 1-year mortality

#### **GOLD Letter Groups in COPD**

Moderate or Severe Exacerbation History

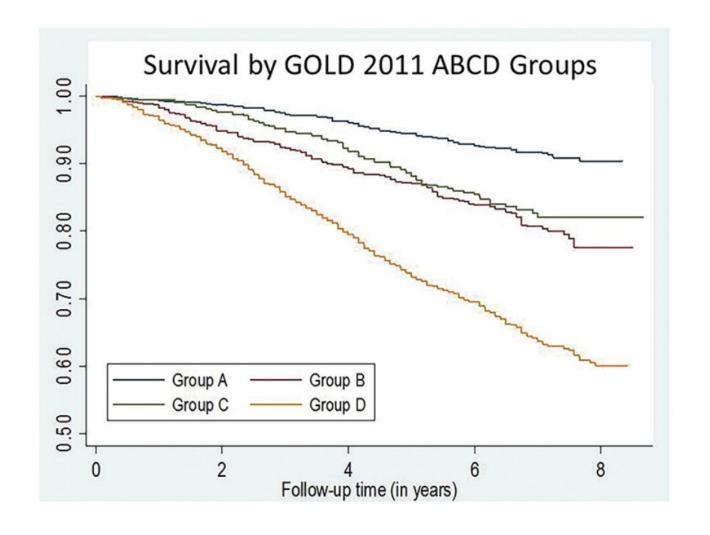
> ≥2 or ≥ 1 leading to hospital admission

0 or 1 (not leading to hospital admission)



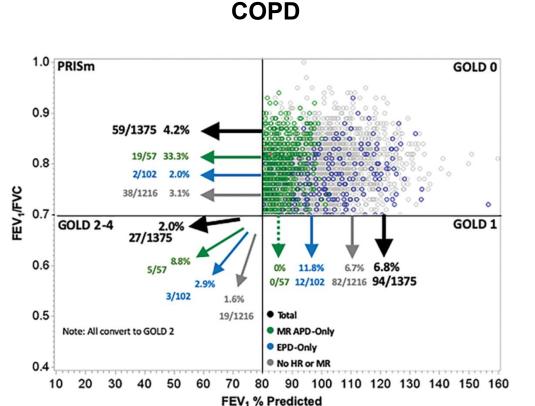
mMRC 0-1 | mMRC ≥ 2 CAT < 10 | CAT ≥ 10

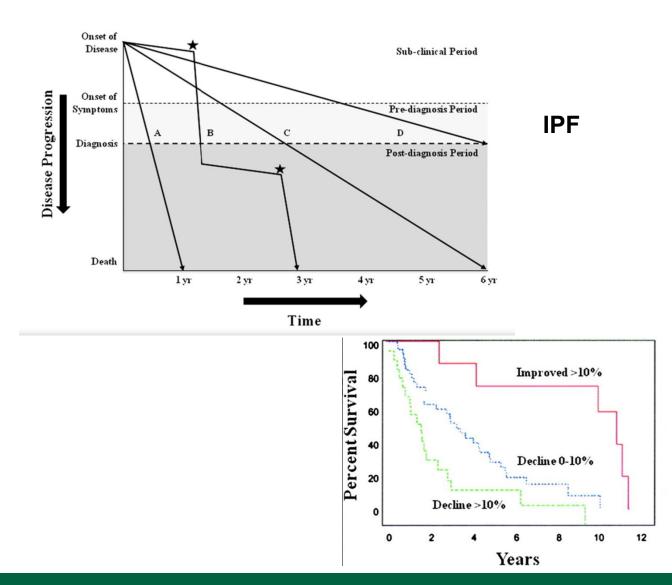
**Symptoms** 





#### **Complex Illness Trajectories in Serious Respiratory Illness**







# Place of Death in Serious Respiratory Illnesses

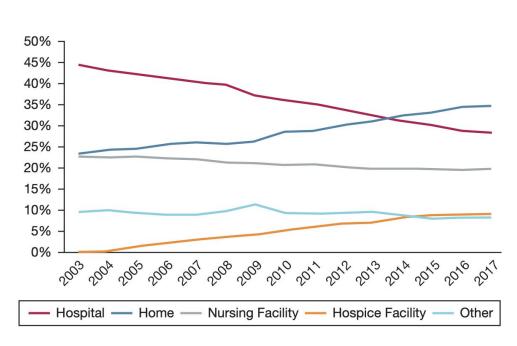


Figure 2 – Trends for lung disease in places of death (2003-2017).

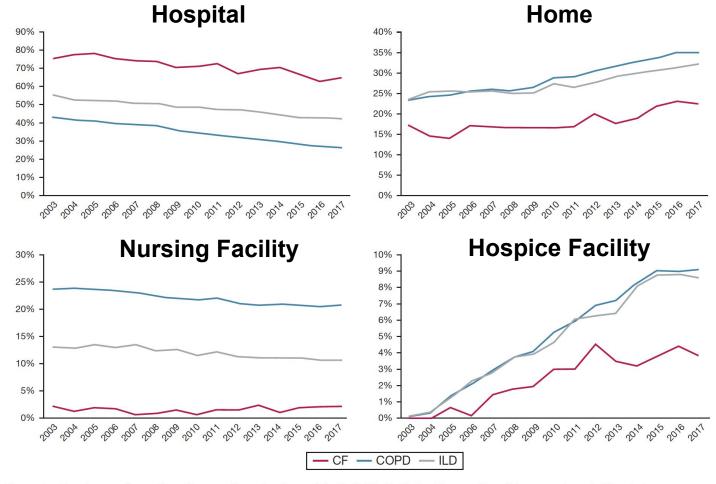


Figure 5 – Trends according to lung disease subtype in places of death (2003-2017). See Figure 1 legend for expansion of abbreviations.



# **Poor Prognostic Awareness**

"At least for the sake of family and caregivers, that is something that I feel like immediately needs to be learned to not only prepare the person, but to prepare their families."

49yo AAF patient, FEV<sub>1</sub> 70%

"If you don't know these things, you just are like a lost ball in high weed, you know?"

61yo AAF care partner to a 65yo AAM, FEV<sub>1</sub> 33%

"Right now, the little I do know about it, I think it's gonna look very bleak, very bleak. I don't like to say it or discuss death because it don't look good."

61yo AAF care partner to a 61yo AAM, FEV<sub>1</sub> 28%

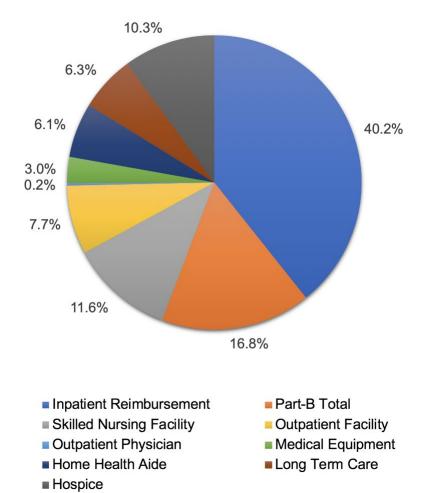
"It's the not knowing, and there's so much not knowing."

53yo WF patient, FEV<sub>1</sub> 16%



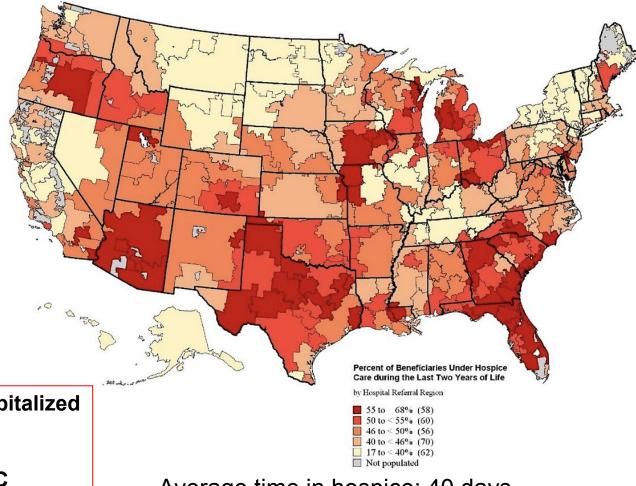
# Spending and Healthcare Utilization in Older Medicare Decedents with COPD at the End of Life

#### **Spending Categories in Last 2 Years of Life**









Average time in hospice: 40 days



#### Clinician Perspectives on Barriers to Early Palliative Care in COPD

#### BACKGROUND

- Palliative care (PC) is rarely integrated prior to development of end-stage COPD.
- Researchers sought to explore both pulmonary & PC clinician views on the barriers & facilitators for early PC in COPD, & possible referral criteria for specialty PC.



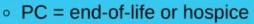
#### **METHODS**

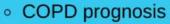


- Qualitative descriptive study performed via semistructured interviews that were thematically analyzed.
- · 12 clinicians
  - 6 pulmonary
  - 6 palliative care

#### **RESULTS**







- Lack of referral consensus
- Workforce shortage & strain



- Education on primary PC
- Developing referral criteria
- Novel delivery models
- Priority Referral Criteria
  - Frequent hospitalizations
  - Emotional symptoms

#### CONCLUSION



 Both pulmonary & PC clinicians share the value of early PC in COPD.



Must resolve PC misconceptions.



Identify consensus referral criteria.



Implement novel early PC novels.



#### Clinician Perspectives on Barriers to Early Palliative Care in COPD

"I feel like there's still that negative connotation of what palliative care does. I think palliative care is still thought of as end of life. That's not what they do. They can exponentially improve quality of life. They may even improve quantity of life." "I think the tough thing with COPD is prognostication can sometimes be difficult. Some people say, 'Oh, they're on oxygen now, it's end stage COPD,' but that's not necessarily the case. They could live years in that state. I think the biggest question I usually get from patients is usually, 'Am I going to suffocate to death?"

#### **Pulmonary Clinician**

"So many people, particularly critical care people, want to keep people alive no matter what. They feel like they're abandoning their patient if they don't keep them alive, even to the point of cruel and unusual punishment for the patient, and the family sees that. It's just awful for them. A lot of pulmonary physicians are not that good at palliative care. I mean, that's almost the opposite of what they've been trained to do - to snatch people from the jaws of death all the time."

**Palliative Care Clinician** 

**Pulmonary Clinician** 



#### **COPD Patient and Care Partner Perspectives on Palliative Care**

• 30% had knowledge of palliative care.

What does palliative care mean to you?				
Care Partners (n=10)				
"Just helping me get through to a normal, everyday living situation and maybe set goals." (65yo WF)  "Easing your way along, that end of life thing. I think of palliative care as comfort care, making you more comfortable along the way." (62yo WF)  "I think he is very scared of dying from not breathing. Palliative care is part of dying, I think. I may be wrong." (60yo WF)  "Making life easier. Not changing the outcome, but making life easier." (73yo WF)				

#### **COPD Patient and Care Partner Perspectives on Hospice**

#### What does hospice mean to you?

#### Patients (n=10)

"Hospice means a doctor has determined you only have a short time to live. During that time, the care you receive is palliative care. It's not so invasive." (72yo WM, FEV<sub>1</sub> 26%)

"Pretty much a person who is at the end of their life." (49yo AAF, FEV<sub>1</sub> 70%)

"Where they take care of people who can't take care of themselves. Basically give them the attention that they need, that they would normally have to go to an institution like a hospital or somethin'. They can receive it at home instead of being hospitalized. It's basically like a home hospitalization." (65yo AAM, FEV<sub>1</sub> 33%)

"Oh, that's like the end right there." (57yo AAM, FEV, 50%)

#### **Care Partners (n=10)**

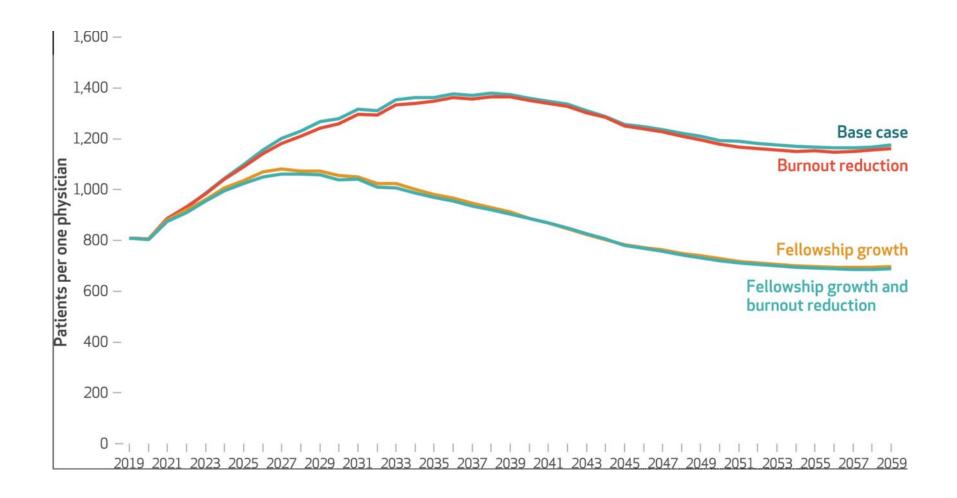
"(Hospice is) for people who are terminal. It's your time. They're just gonna be there with you to support your family while you're dyin'." (53yo WF)

"Hospice takes over the drugs. Palliative care does not." (**73yo WF**)

"I think [hospice] is the last part of whatever the doctors can do, and they're just tryin' to make you comfortable while you're here." (61yo AAF)

"Hospice to a lot of people means terminal. It's your time. They're just gonna be there with you to support your family while you're dyin'." (53yo WF)

# **Deficit of Specialist Palliative Care Clinicians**





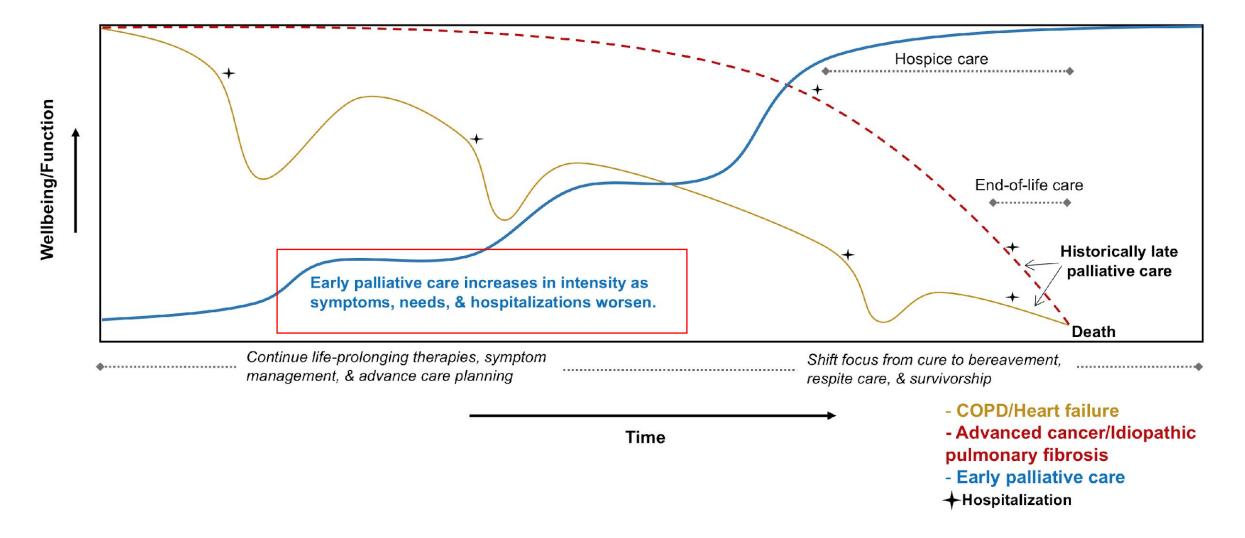


# IV. Improving the Integration of Palliative Care and its Principles into Practice

# **Improving Palliative Care Integration**

- Early palliative care
- Triggers for palliative care integration and referral
- Primary palliative care, i.e. "PalliPulm"
- Frameworks
- Innovative delivery models

## **Trajectories of Decline in Serious Illness**



#### **COPD Patients and Care Partners Support Early Palliative Care**

When presented with a standardized definition of early palliative care, all participants found early palliative care valuable and would accept it as early as moderate COPD (GOLD II).

"If I had heard about something like that, I probably would not have went through all the suffering that I did in the first place with trying to breathe and having to go to the emergency room and everything. I would have appreciated it earlier before it got to where it was."

Patient (65yo AAM, FEV<sub>1</sub> 33%)

"I would take it as a positive step to try and see what I can do to make it easier for him. Basically, it's all about him because I don't have that breathing problem. So, I wouldn't know what that's like, but I am eager to find out what is it and I don't want to be going through it myself in order to find out."

Care Partner (61yo WF, to PT002, FEV<sub>1</sub> 33%)

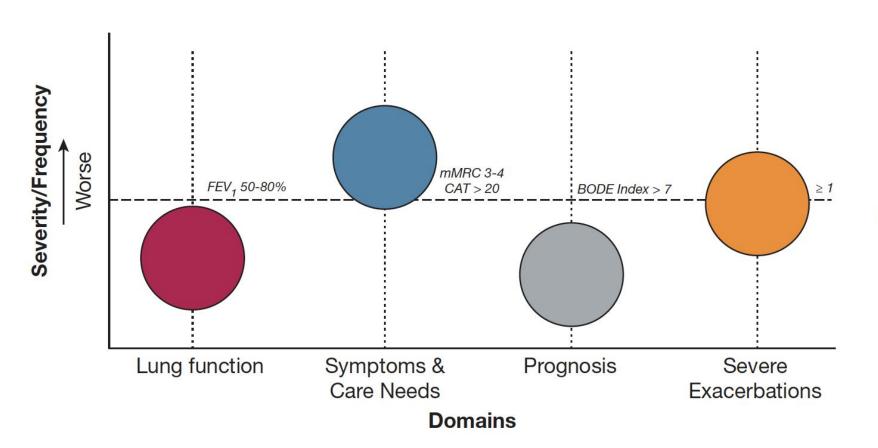
"I mean, at least for the sake of family and your caregivers, you know, that is something that I feel like immediately needs to be learned to not only prepare the person, but to prepare their families."

Patient (49yo AAF, FEV, 70%)



#### **Triggers for Early Palliative Care – Adjusting the Levers**

#### The Levers Model for Early Palliative Care



Sample thresholds for initiating palliative care

End of life care

**Hospice care** 

Bereavement

Advanced care planning

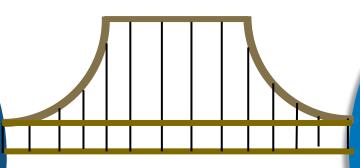
**Spiritual care needs** 

**Comprehensive symptoms** 

**Nutritional support** 

**Caregiver needs** 

**Palliative Care** 



# Primary Palliative Care #PalliPulm

Optimization of COPD therapies
Comprehensive symptom assessment
and management

Dyspnea & exacerbation crisis plans

Advanced COPD interventions Early values based discussions

Early palliative care collaboration Social determinants of health Home-based palliative care **Illness Education** 

Spirometry/Imaging/Labs

**Pulmonary Rehabilitation** 

Optimize Pulmonary Therapies

Supplemental oxygen

**Antifibrotics** 

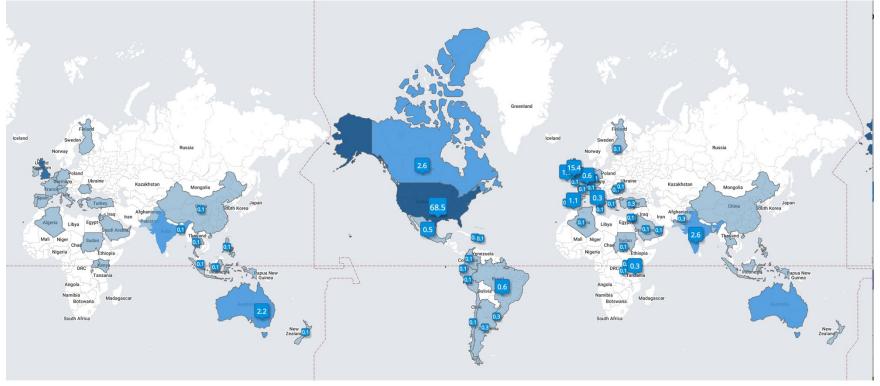
**Tobacco cessation** 

**Pulmonary** 



# Advocacy - @pallipulm #pallipulm





of palliative care | #PalliPulm | Founder: @anandiyermd

# PalliPulm in Serious Respiratory Illness – What Does it Look Like?

COPD CHEST Review



#### The Role of Palliative Care in COPD

Anand S. Iyer, MD, MSPH; Donald R. Sullivan, MD, MCR; Kathleen O. Lindell, PhD, RN; and Lynn F. Reinke, PhD, ARNP

COPD is the fourth leading cause of death in the United States and is a serious respiratory illness characterized by years of progressively debilitating breathlessness, high prevalence of associated depression and anxiety, frequent hospitalizations, and diminished well-being. Despite the potential to confer significant quality-of-life benefits for patients and their care partners and to improve end-of-life (EOL) care, specialist palliative care is rarely implemented in COPD, and when initiated, it often occurs only at the very EOL. Primary palliative care delivered by frontline clinicians is a feasible model, but is not integrated routinely in COPD. In this review, we discuss the following: (1) the role of specialist and primary palliative care for patients with COPD and the case for earlier integration into routine practice; (2) the domains of the National Consensus Project Guidelines for Quality Palliative Care applied to people living with COPD and their care partners; and (3) triggers for initiating palliative care and practical ways to implement palliative care using case-based examples. This review solidifies that palliative care is much more than hospice and EOL care and demonstrates that early palliative care is appropriate at any point during the COPD trajectory. We emphasize that palliative care should be integrated long before the EOL to provide comprehensive support for patients and their care partners and to prepare them better for the EOL. CHEST 2022; **■**(**■**):**■**-**■** 

KEY WORDS: COPD; end-of-life care; hospice care; palliative care

Iyer, Sullivan, Lindell, and Reinke. Chest. 2022



Proactive Integration of Geriatrics and Palliative Care Principles Into Practice for Chronic Obstructive Pulmonary Disease

Half of adults with chronic obstructive pulmonary disease (COPD) in the US will be 75 years or older by 2030.<sup>1</sup> Patients with COPD often have years of debilitating symptoms that accelerate their loss of independence and well-being. COPD is progressive and incurable; many patients are frail and socially isolated and struggle with long lists of medications. Their care is often chaotic and fragmented, with frequent emergency department visits and hospitalizations.<sup>2</sup> Given the limited numbers of geriatricians and palliative care specialists, clinicians who routinely care for patients with COPD should proactively integrate geriatrics and palliative care principles into their daily practice.

Iyer, Curtis, and Meier. JAMA IM 2020

## **Primary Palliative Care Training**

- Fellowship training
- Practicing clinicians
- Organizations:
   Ascension, ATS, Chest
- Feasible and evidence-based PalliPulm training?

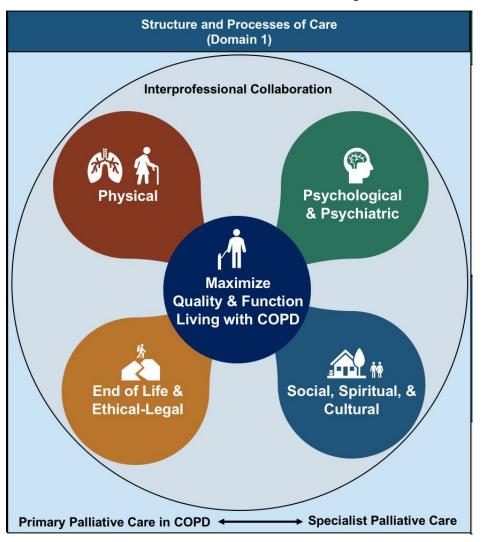
TABLE 1 Primary Palliative Care Training Programs

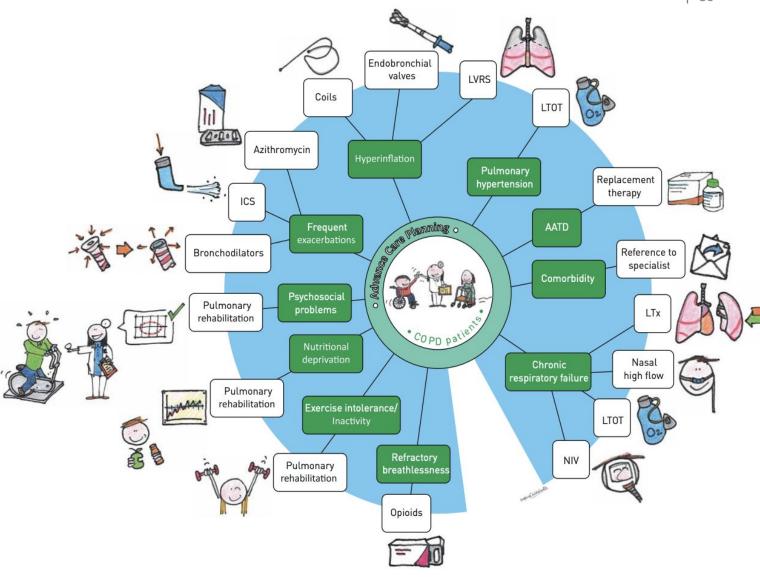
Program Name (Location)	Brief Description
University of Washington Graduate Certificate in Palliative Care (Seattle, WA)	Interprofessional curriculum designed for practicing clinicians from nursing, medicine, social work, spiritual care, and other disciplines seeking training in palliative care. The program focuses on skills for delivering integrated, person-centered palliative care using a team-based approach, emphasizing individual and team communication skills.
University of Pennsylvania Mid-Career Fellowship (Philadelphia, PA)	ACGME-certified pilot midcareer fellowship program allowing practicing University of Pennsylvania physicians to complete an accredited palliative care fellowship in a flexible format. The program is designed individually to build on each fellow's existing skills and structured in conjunction with the clinical responsibilities.
University of Colorado Interprofessional Palliative Care Graduate Certificate and Master of Science in Palliative Care (Denver, CO)	Program designed to prepare clinicians as palliative care community specialists using a hybrid online and live learning environment.
University of Maryland Master of Science and Graduate Certificate in Palliative Care (Baltimore, MD)	Interprofessional masters for practicing clinicians who want further training in palliative care. The graduate certificate can be tailored to five different domains of palliative care.
Medical University of South Carolina Palliative Care Doctorate in Nursing Practice (Charleston, SC)	Program follows a master of science in nursing and provides a plan of study for nurses to gain advanced training in palliative care principles and clinical experiences.
Harvard Medical School Center for Palliative Care Courses (Boston, MA)	Short courses in "Palliative Care Education and Practice," "Practical Aspects of Palliative Care," "Palliative Care for Hospitalists and Intensivists," and "Art & Science of Palliative Nursing."

 $\mathsf{ACGME} = \mathsf{Accreditation}$  Council for Graduate Medical Education.



### **National Consensus Project**

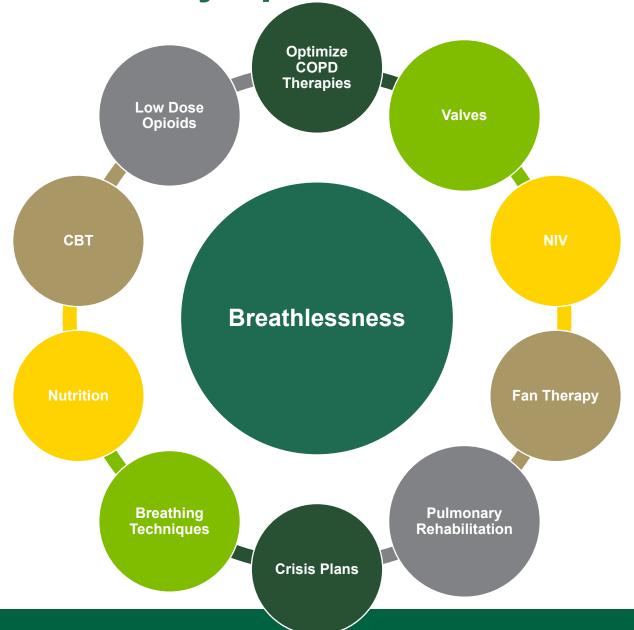




# Comprehensive Assessments for Patients and Care Partners - Assess and Reassess

- Symptom burden
  - Respiratory: Breathlessness, cough
  - Emotional: Anxiety, depression
  - Pain, fatigue
  - Quality of life
- Socioeconomic needs
- Social isolation
- Nutrition (unintentional weight loss)
- Care partner needs
- Geriatrics care needs: Mobility, Cognitive impairment
- Values, advance care plan

Management of Severe Symptoms- Think Interprofessional



### Improve Prognostication: BODE

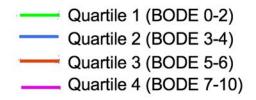
- Higher <u>BODE score</u> 

  ☐ Higher risk of mortality
  - Low BMI
  - More severe airflow Obstruction (Decreased FEV<sub>1</sub>)
  - More severe Dyspnea (mMRC dyspnea scale)
  - Impaired Exercise tolerance (reduced walk distance)

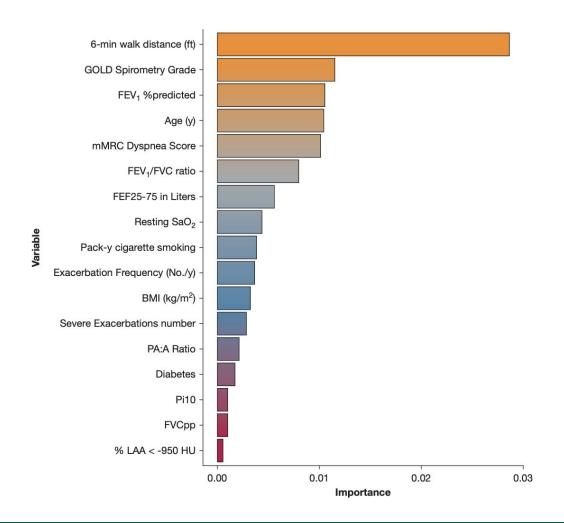
	1.0	BODE
Probability of Survival	0.8	The second secon
y of S	0.6	
abilit	0.4	L.
Prob	0.2	P < 0.001
	0.0	0 4 0 42 46 20 24 20 22 26 40 44 40 52
		0 4 8 12 16 20 24 28 32 36 40 44 48 52 Months

	0 points	1 point	2 points	3 points
FEV <sub>1</sub> (% of predicted)	≥65	50-64	36–49	≤35
6 Minute Walk Distance (m)	≥350	250-349	150-249	≤149
mMRC Dyspnea Scale	0-1	2	3	4
<u>BMI</u>	>21	≤21		

BODE Index	4-year survival
0–2	80%
3–4	67%
5–6	57%
7–10	18%



# Improving Prognostication: Machine Learning Mortality Prediction (MLMP) in COPD



#### **COPDGene Mortality Risk Calculator**

Reference: Moll et al., Chest, 2020.

This calculator is designed to help you explore how different clinical, spirometric, and imaging variables affect survival. Below, you can put in your own inputs for a hypothetical patient, and the survival function will be plotted. If you have quantitative imaging variables, you can select to add these variables into the model at the bottom of the page. Finally, you can download the plot of the survival function and the inputs you used.

Enter your hypothetical patient's values in the left panel (change the defaults)

Six-minute walk distance (ft):	Based on these variables, the probability of survival at 8 years is:
1200	80.2%
FEV1 percent predicted:	Probability of survival for this hypothetical individual over time
50	100.0% -
Age (years):	
63	95.0% -
FEV1/FVC (%):	EV 90.0% -
50	8 90.0% - 0
FEF25-75 (L):	85.0% -
0.5	The state of the s
MMRC Dyspnea Score:	80.0% -
0 1 2 3 4	
BMI:	0 1000 2000 3000 Days
27	<b>≛</b> Download Plot

https://cdnm.shinyapps.io/cgmortalityapp/



### **Improve Serious Illness Communication**

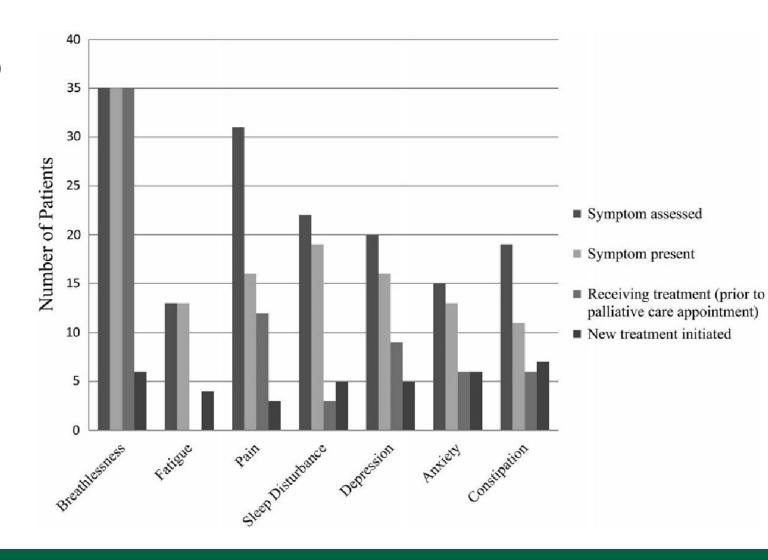
- Advance care planning is challenging
  - Start early, reassess, adapt and evolve
  - Document
- Use serious illness conversation guides/training tools
  - Serious Illness Conversation Guide Ariadne Labs
  - VitalTalk (https://www.vitaltalk.org/topics/reset-goals-of-care/)

### A PalliPulm Clinic Model and COPD Care Needs

- Retrospective case series (n=36) in the Northwestern University Palliative-Pulmonary Clinic
- Referral criteria: BODE=7, refractory breathlessness

### **Topics of Clinic Visits**

Symptoms	36 (100%)		
Psychological issues	28 (78%)		
Social issues	34 (94%)		
Spirituality	9 (25%)		
Advanced care planning	27 (75%)		
Care Coordination	12 (33%)		
Consults/Referrals	3 (8%)		



### **Invest in Novel Palliative Care Delivery Models**

# Palliative Care in the Hospital

3 Wishes Program

A2F Bundle in the ICU

Early integration of secondary palliative care for exacerbations

Daily integration of palliative care principles into daily rounds

Patient- and Care Partner-Reported Outcomes

# Ambulatory Palliative Care

SUPPORT (IPF)

Project EPIC/ENABLE-COPD (COPD)

Living Well with COPD

Interprofessional pallipulm clinic

Telehealth palliative care

Home- and community-based palliative care

Patient- and Care Partner-Reported Outcomes

## Post-Acute Care Palliative Care

**INSPIRED COPD** 

UK Breathlessness Services

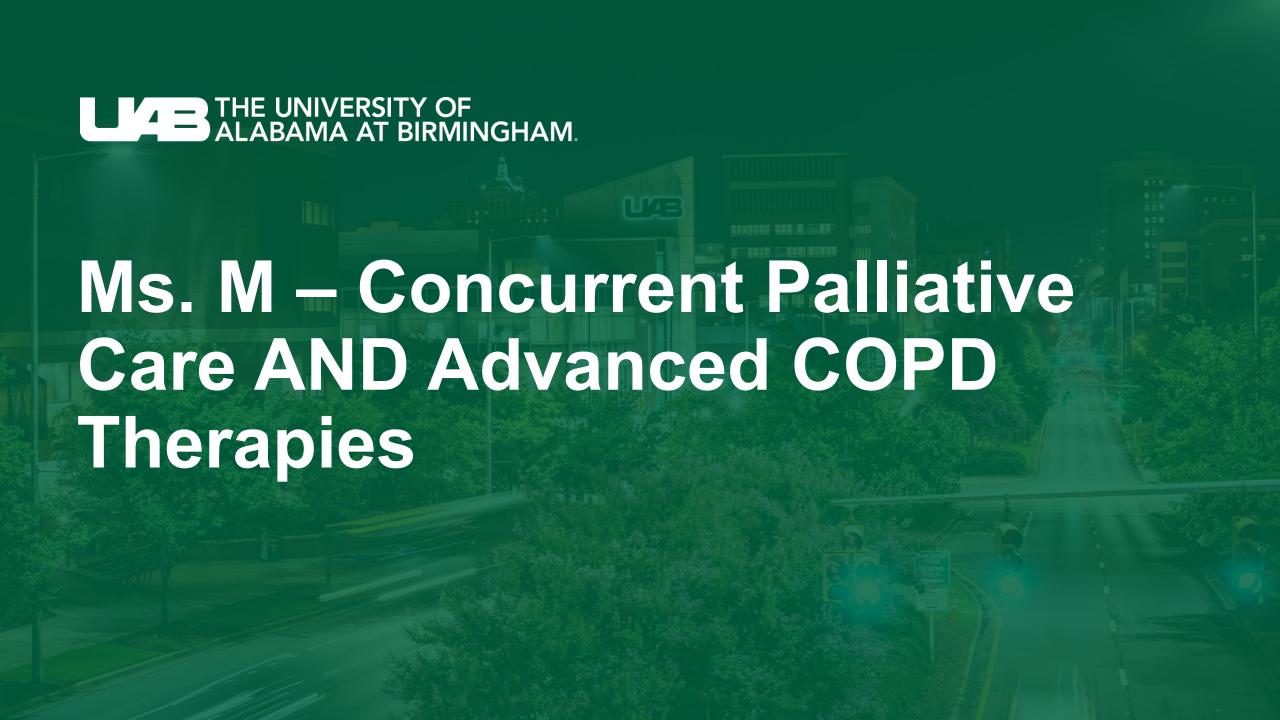
CMS Bundled Payments -Transitional care palliative care integration

Palliative care-pulmonary rehabilitation post-discharge

Lay navigation

Post-ICU clinic with palliative care integration

Patient- and Care Partner-Reported Outcomes



### Case Ms. M

- 65yo White female with COPD and progressively worsening dyspnea
- 35 PY smoking; Quit smoking 1 year prior
- Exacerbations: x1 severe in 2 years (ICU)
- mMRC 3-4, CAT 24
- History of pulmonary hypertension, sleep apnea on Trilogy
- Inhalers: SABA (MDI, neb), ICS/LABA (Breo), LAMA (Spiriva)
- Six-minute walk distance: 550ft (2L oxygen)



Spirometry		try	Ref	Pre Meas	Pre % Ref	
	FVC	Liters	3.05	1.21	40	
	FEV1	Liters	2.33	0.36	16	
	FEV1/FVC	%	77	30		
	FEF25-759	%L/sec	2.05	0.15	7	
	FEF50%	L/sec	3.45	0.15	4	
	PEF	L/sec	5.84	1.10	19	
	FET100%	Sec		8.82		
	MVV	L/min	55			
m	Lung Vol	lumes				
	TLC	Liters	4.84	3.93	81	
	RV	Liters	1.97	2.72	138	
	RV/TLC	%	41	69		
	FRC N2	Liters	2.68	3.11	116	
	VC	Liters	2.51	1.21	48	
	ERV	Liters	0.95	0.37	38	
	IC	Liters	1.91	0.82	43	
	Vtg	Liters	3.15			
	LCI		7.00	10.98	157	
	Wash Time	e Min		7.0		
	Diffusion					
CO	DLCO	mL/mmHg/min	20.7	3.1	15	
	DL Adj	mL/mmHg/min	20.7	3.1	15	
	DLCO/VA	mL/mHg/min/L	4.45	1.40	31	
	DL/VA Adj	mL/mHg/min/L	4.45	1.40	31	
	VA	Liters	4.84	2.21	46	

### Ms. M: Concurrent Palliative Care and Lung Transplant Evaluation

#### <u>Pulmonary</u>

- Optimized COPD & PH therapies
  - Pulmonary rehabilitation
- Referral for endobronchial valves

Lung transplant referral

#### **Advance Care Planning**

- Focus on maintaining hope and planning for the future
- Education on illness trajectory, exacerbations, variability, limitations
- Education on role of concurrent palliative care alongside COPD treatments
- Secondary palliative care

   primary focus on optimizing quality of life, advocating for her within her care teams, maintaining dignity, honoring her wishes



#### **Emotional**

- Individualized therapeutic counseling sessions
- Cognitive reframing
- Positive coping tips, reflection
- Adjunctive pharmacotherapy Mirtazapine nightly
- Self-care, building emotional support with family, purpose rediscovery, re-establish identity

#### **Unintentional Weight Loss**

- Interprofessional team includes nutritionist collaboration
- Goals for weight gain, building lean muscle mass, energy balance, reducing infection risk, dietary adaptations --> optimize for lung transplantation

#### **Fatigue**

- Lifestyle modifications
- Mirtazapine
- Physical activity, pulmonary rehabilitation



### **Conclusions**

 Significant early palliative care needs exist in serious respiratory illness for patients and their families that warrant assessment and management.

 A "Levers Model" could identify potential triggers for palliative care integration and referral, including lung function, symptoms/care needs, prognosis, and exacerbations.

• "PalliPulm" or primary palliative care in pulmonary-critical care can bridge the fields and provide comprehensive care to patients with serious respiratory illnesses and their care partners.

## **Looking to the Future – Stay Tuned!**

- "Palliative Care Early in the Care Continuum among Patients with Serious Respiratory Illness"
- A multi-society policy statement:
  - American Thoracic Society
  - American Academy of Hospice and Palliative Medicine
  - Hospice and Palliative Nurses Association
  - Social Work Hospice and Palliative Care Network





