

Cicely Saunders International Better care at the end of life

WHO Collaborating Centre for Palliative Care and Rehabilitation





European

Better Treatments for Breathlessness in Palliative and End of Life Care

Physicians attitudes and experiences of managing breathlessness in palliative, respiratory and end of life care

Małgorzata Krajnik Dept. of Palliative Care, Nicolaus Copernicus University, Collegium Medicum in Bydgoszcz, Poland



BETTER-B is funded by the European Union's Horizon2020 research and innovation programme under grant agreement No. 825319. The views expressed in this presentation are those of the author(s) and not necessarily those of the

Follow us on twitter: #betterbreathe

www.better-breathe.eu

DISCLOSURE

- Name: Małgorzata Krajnik
- Affiliation: Uniwersytet Mikołaja Kopernika in Toruń, Collegium Medicum in Bydgoszcz
- Relationships with for-profit and not-for-profit interests: President of Polish Association for Spiritual Care in Medicine
- Grants/Research Support: European Committee, Uniwersytet Mikołaja Kopernika
- Consulting fees: none
- Other (including employment): Apart from Uniwersytet Mikołaja Kopernika, Collegium Medicum in Bydgoszcz also employed in Dr Jurasz University Hospital in Bydgoszcz



Severe breathlessness in advanced illness

- Chronic or refractory breathlessnes disabling breathlessness which persists despite optimal disease management
- Associated with social isolation, high healthcare costs and poor prognosis
- Management options include non-pharmacological inteventions. Pharmacological treatment options limited to moderate evidence in support of opioids
- Breathlessness often remains under-recognised and undertreated



BETTER-B

Krajnik M, Hepgul N, Wilcock A, et al. BMC Pulm Med. 2022;22(1):41.





endpoints, integration of

WP8 Management and coordination

with breathlessness

PROJECT

BETTER-B

BETTER TREATMENTS FOR BREATHLESSNESS IN PALLIATIVE AND END OF LIFE CARE

HORIZON 2020

Objectives:

Explore current practice and experiences of palliative and respiratory clinicians across Europe on the management of breathlessness in lung disease

www.betterbreathe.eu

findings





AIM

- 1. To explore the management of chronic breathlessness by respiratory (RM) and palliative care (PC) physicians
- 2. To determine the influence of clinical practice guidelines on breathlessness management.

WP1 physician's survey results: BMC Pulmonary Medicine (IF 3.32)

 Krajnik et al. BMC Pulmonary Medicine
 (2022) 22:41

 https://doi.org/10.1186/s12890-022-01835-0

BMC Pulmonary Medicine

Open Access

RESEARCH

Do guidelines influence breathlessness management in advanced lung diseases? A multinational survey of respiratory medicine and palliative care physicians

Małgorzata Krajnik^{1†}, Nilay Hepgul^{2†}, Andrew Wilcock³, Ewa Jassem⁴, Tomasz Bandurski⁵, Silvia Tanzi⁶, Steffen T. Simon⁷, Irene J. Higginson^{2†} and Caroline J. Jolley^{8*†} on behalf of the BETTER-B research consortium

Methods (1)



- Survey design was based on previous surveys and current literature
- The survey focused on:
 - respondent demographics
 - awareness and knowledge of local national or international guidelines/recommendations on PC for non-malignant lung diseases
 - use of a breathlessness score in clinical practice
 - non-pharmacological management strategies
 - pharmacological management strategies
 - attitudes towards referral to PC

Methods (2)

Three case vignettes were developed:
 •advanced COPD
 •fibrotic ILD (fILD)
 •lung cancer (LC)

•Each patient presented with **mMRC scale 3-4 breathlessness** (3 = Stops for breath after walking 100 yards or after a few minutes on level ground; 4 = Too breathless to leave the house, or breathless when dressing/undressing) despite optimal management of the underlying disease

•Current anxiety or depression not indicated in any of the three vignettes

•Preferred management indicated on Likert scales

MARTIN

Martin is a 75 year old man who is an ex-smoker with very severe COPD (i.e. GOLD grade 4, group D), treated optimally according to the GOLD guidelines (2019). He has been prescribed home nebulisers and long-term oxygen therapy (LTOT) for the past 8 months. His FEV1 is 0.8L (27% predicted), SpO2 is 91% on 2L/min O2, and he is currently normocapnic.

Last winter Martin needed non-invasive ventilation for acute hypercaphic respiratory failure, but he has never been intubated. Martin is now breathless at rest, and severely deconditioned. His breathlessness becomes intolerable after just a few steps, even using ambulatory oxygen, and he can no longer walk across the room unaided.

TONY

Tony is a 61 year old man with severe idiopathic pulmonary fibrosis (IPF) still on antifibrotic treatment. His FVC is 50% predicted, DLCO 32% predicted and SpO2 is currently 92% at rest. He has no history of heart disease, anxiety or depression. Tony identifies worsening breathlessness as his main concern. Although not breathless at rest, he now struggles with breathlessness when walking, bathing, or speaking. Tony had been prescribed oxygen during a recent hospital admission but did not find that it helped his breathlessness.

HELENA

Helena is an 82 year old woman with advanced (stage 4) lung cancer being cared for at home. Her SpO2 is 96% breathing room air. She has a poor performance status (ECOG 2-3). She is breathless at rest and she has found this increasingly distressing over the past 2 weeks. She has no history of heart disease, anxiety or depression.

Krajnik M, Hepgul N, Wilcock A, et al. BMC Pulm Med. 2022;22(1):41.

www.betterbreathe.eu

Methods (3)



- The survey was piloted on 20 international experts from RM and PC
- 10 in-depth interviews were performed among physicians from Germany, Italy, Poland and the UK to minimise measurement error and ensure user acceptability, face validity and comprehensiveness
- The anonymous, voluntary online survey was launched on 23/04/2019 and closed on 06/08/2019
- Survey links were disseminated via newsletter mailing lists to members of the
 - European Respiratory Society (ERS),
 - European Association for Palliative Care (EAPC)
 - British Thoracic Society (BTS), and
 - > As a news item feature on the Palliative Care Formulary (PCF) website.





- Obtained ethical approval from the KCL Research Ethics Committee (REC) (reference no: MRA-18/19-11108). Survey received Minimal Risk Registration from the REC.
- KCL had responsibility for the survey which was held securely there. Responsibility and governance were not delegated to any of the other partners.
- Physicians were informed that by completing the survey, they provided informed consent for use of their anonymised data.



450 evaluable responses wereincluded in the final analyses:348 (77%) RM102 (23%) PC physicians

BETTER-B

Krajnik M, Hepgul N, Wilcock A, Jassem E, Bandurski T, Tanzi S, Simon ST, Higginson IJ, Jolley CJ; BETTER-B research consortium. BMC Pulm Med. 2022;22(1):41.

Respondent characteristics - 1

	RM (n=348)	PC (n=102)	Specialties compared (χ 2) p value
AGE 25–35 36–45 46–55 > 56	55 (16%) 123 (35%) 86 (25%) 84 (24%)	19 (19%) 33 (32%) 33 (32%) 16 (16%)	p = 0.181
GRADE Consultant/specialist Doctor in specialist training	312 (90%) 36 (10%)	81 (79%) 21 (21%)	p = 0.006
YEARS IN SPECIALTY <5 6-10 11-20 >21	41 (12%) 75 (22%) 101 (29%) 131 (38%)	21 (21%) 23 (23%) 40 (39%) 18 (18%)	p= 0.001
SETTINGS OF PRACTICE Hospital inpatient Outpatient Home care Private practice Hospice/PC unit Other	295 (85%) 218 (63%) 11 (3%) 56 (16%) 4 (1%) 8 (2%)	54 (53%) 37 (36%) 39 (38%) 4 (4%) 68 (67%) 5 (5%)	p < 0.001 p < 0.001 p < 0.001 p = 0.001 p < 0.001 p = 0.167

Respondent characteristics - 2

	RM (n=348)	PC (n=102)	Specialties c	ompared (χ 2) p value	
No. of severe COPD pts seen/year None 1- 10 11 - 50 51-100 > 101	12 (3%) 87 (25%) 162 (47%) 57 (16%)	7 (7%) 43 (42%) 43 (42%) 7 (7%)	p < 0.001	PC and RM physicians differed according to	
No. of severe flLD pts seen/year None 1– 5 6 – 10 11 – 20 > 20	24 (7%) 118 (34%) 97 (28%) 58 (17%) 51 (15%)	15 (15%) 48 (47%) 22 (22%) 12 (12%) 5 (5%)	p < 0.001	grade, years in their specialty, settings in which they work, and numbers of patients seen.	
No. of advanced LC pts seen/year None 1– 10 11 – 50 51–100 > 101	48 (14%) 123 (35%) 131 (37%) 28 (8%) 18 (5%)	- 11 (11%) 42 (41%) 33 (32%) 16 (16%)	p < 0.001		

Palliative Respiratory



RM physicians practice across 31 and PC across 13 European countries. A further 59 (13%) responses were from non-European countries including India, USA and several South American countries. We compared RM & PC responses, and explored if management varied with knowledge of palliative care guidelines for non-malignant lung diseases.

How chronic breathlessness is managed by RM and PC physicians

Results - non-pharmacological management (1)

RM (n=336)PC (n=95) (χ^2) pRM (n=324)PC (n=87) (χ^2) pRM (n=301)PC (n=102) (χ^2) Pulmonary rehabilitationOften/always226 (67%)27 (28%)p<0.001181 (56%)26 (30%)p<0.00132 (11%)10 (10%)p=0.6Rarely/sometime101 (30%)43 (45%)125 (39%)43 (49%)121 (40%)36 (35%)p=0.6Never9 (3%)25 (26%)18 (6%)18 (21%)148 (49%)56 (55%)Physical activity		COPD				fILD		LC		
Pulmonary rehabilitation Often/always 226 (67%) 27 (28%) p<0.001		RM (n=336)	PC (n=95)	(χ²) p	RM (n=324)	PC (n=87)	(χ²) p	RM (n=301)	PC (n=102)	(χ²) p
Often/always 226 (67%) 27 (28%) p<0.001 181 (56%) 26 (30%) p<0.001 32 (11%) 10 (10%) p=0.6 Rarely/sometime 101 (30%) 43 (45%) 125 (39%) 43 (49%) 121 (40%) 36 (35%) 121 (40%) 36 (35%) Never 9 (3%) 25 (26%) 18 (6%) 18 (21%) 148 (49%) 56 (55%) Physical activity Content Conten Content Content	Pulmonary reh	abilitation		\frown						
Rarely/sometime 101 (30%) 43 (45%) 125 (39%) 43 (49%) 121 (40%) 36 (35%) s Never 9 (3%) 25 (26%) 18 (6%) 18 (21%) 148 (49%) 56 (55%) Physical activity Image: Some the second se	Often/always	226 (67%)	27 (28%)	p<0.001	181 (56%)	26 (30%)	p<0.001	32 (11%)	10 (10%)	p=0.602
Never 9 (3%) 25 (26%) 18 (6%) 18 (21%) 148 (49%) 56 (55%) Physical activity (148 (49%)) 148 (49%) 56 (55%) 148 (49%) <th148 (49%)<="" th=""> 148 (49%) 148 (49%)<</th148>	Rarely/sometime s	101 (30%)	43 (45%)	\bigcirc	125 (39%)	43 (49%)	\bigcirc	121 (40%)	36 (35%)	
Physical activity	Never	9 (3%)	25 (26%)		18 (6%)	18 (21%)		148 (49%)	56 (55%)	
	Physical activit	ц У		\frown			\frown			
Often/always 240 (71%) 33 (35%) p<0.001 199 (61%) 27 (31%) p<0.001 70 (23%) 18 (18%) p=0.4	Often/always	240 (71%)	33 (35%)	p<0.001	199 (61%)	27 (31%)	p<0.001	70 (23%)	18 (18%)	p=0.453
Rarely/sometime 87 (26%) 47 (50%) 111 (34%) 46 (53%) 157 (52%) 55 (54%)	Rarely/sometime s	87 (26%)	47 (50%)	\smile	111 (34%)	46 (53%)		157 (52%)	55 (54%)	
Never 9 (3%) 15 (16%) 14 (4%) 14 (16%) 74 (25%) 29 (28%)	Never	9 (3%)	15 (16%)	\frown	14 (4%)	14 (16%)	\frown	74 (25%)	29 (28%)	\frown
Electric handheld fan	Electric handh	eld fan					()			()
Often/always 61 (18%) 63 (66%) p-0.001 55 (17%) 56 (64%) p-0.001 59 (20%) 64 (63%) p-0.001	Often/always	61 (18%)	63 (66%)	p <0.00 1	55 (17%)	56 (64%)	p -0. 001	59 (20%)	64 (63%)	p<0.001
Rarely/sometime 93 (28%) 20 (21%) 85 (26%) 18 (21%) 71 (24%) 22 (21%)	Rarely/sometime s	93 (28%)	20 (21%)	\frown	85 (26%)	18 (21%)	\frown	71 (24%)	22 (21%)	\frown
Never 182 (54%) 12 (13%) 184 (57%) 13 (15%) 170 (57%) 16 (16%)	Never	182 (54%)	12 (13%)		184 (57%)	13 (15%)	()	170 (57%)	16 (16%)	()
Breathing techniques	Breathing tech	niques		\smile			\smile			\smile
Often/always 195 (58%) 69 (73%) p=0.010 137 (42%) 60 (69%) p<0.001 85 (28%) 62 (61%) p<0.0	Often/always	195 (58%)	69 (73%)	p=0.010	137 (42%)	60 (69%)	p<0.001	85 (28%)	62 (61%)	p<0.001
Rarely/sometime 115 (34%) 17 (18%) 134 (41%) 18 (21%) 145 (48%) 27 (27%)	Rarely/sometime s	115 (34%)	17 (18%)		134 (41%)	18 (21%)		145 (48%)	27 (27%)	
Never 26 (8%) 9 (10%) 53 (16%) 9 (10%) 71 (24%) 13 (13%)	Never	26 (8%)	9 (10%)		53 (16%)	9 (10%)		71 (24%)	13 (13%)	

www.betterbreathe.eu

Results - non-pharmacological management (2)

	COPD				fILD		LC			
	RM (n=336)	PC (n=95)	(χ²) p	RM (n=324)	PC (n=87)	(χ²) p	RM (n=301)	PC (n=102)	(χ²) p	
Respiratory muscl	e training		$\left(\right)$			$\langle \rangle$				
Often/always	153(46%)	17 (18%)	P <0.001	114 (35%)	23 (26%)	P = 0.004	35 (12%)	17 (17%)	P = 0.411	
Rarely/sometimes	118 (35%)	42 (44%)		134 (41%)	28 (32%)		126 (42%)	39 (38%)		
Never	65 (19%)	36 (38%)		76 (24%)	36 (41%)		140 (47%)	46 (45%)		
Body positioning to	o relieve breathles	sness	()			$\left(\right)$			$\left(\right)$	
Often/always	147 (44%)	66 (70%)	p<0.001	101 (31%)	59 (68%)	p<0.001	95 (32%)	73 (72%)	p<0.001	
Rarely/sometimes	114 (34%)	24 (25%)		123 (38%)	23 (26%)		115 (38%)	22 (22%)		
Never	75 (22%)	5 (5%)		100 (31%)	5 (6%)		90 (30%)	7 (7%)		
Walking aids			\bigcap			\frown			\frown	
Often/always	149 (44%)	63 (66%)	p<0.001	111 (34%)	54 (62%)	p<0.001	102 (34%)	65 (64%)	p<001	
Rarely/sometimes	132 (39%)	26 (27%)	\smile	145 (45%)	26 (30%)	\smile	129 (43%)	29 (28%)		
Never	55 (16%)	6 (6%)	\frown	68 (21%)	7 (8%)	\sim	70 (23%)	8 (8%)	\frown	
Meditative interve	ntions								$\langle \rangle$	
Often/always	34 (10%)	23 (24%)	p<0.001	34 (11%)	27 (31%)	p<0.001	44 (15%)	22 (22%)	p=0.005	
Rarely/sometimes	109 (32%)	44 (46%)	\sim	108 (33%)	34 (39%)		104 (35%)	47 (46%)		
Never	193 (57%)	28 (30%)		182 (56%)	26 (30%)		153 (51%)	33 (32%)		
Cognitive/emotion	al interventions									
Often./always	48 (14%)	28 (39%)	p=0.001	49 (15%)	29 (33%)	p=0.001	75 (25%)	31 (30%)	p=0.195	
Rarely/sometimes	162 (48%)	45 (47%)		152 (47%)	34 (39%)		124 (41%)	46 (45%)		
Never	126 (38%)	22 (23%)		123 (38%)	24 (28%)		102 (34%)	25 (25%)		

Results – non-pharmacological management (3)

For chronic breathlessness in COPD and fILD:

- RM most commonly recommended ("often or always") physical activity (COPD 71%, fILD 61%), pulmonary rehabilitation (COPD 67%, fILD 56%) and breathing techniques (COPD 58%, fILD 42%).
- By contrast, PC physicians favoured breathing techniques (COPD 73%, fILD 69%), body positioning (COPD 70%, fILD 68%) and the handheld fan (COPD 66%, fILD 64%).

For chronic breathlessness in LC:

- PC physicians most commonly recommended body positioning, which was selected by fewer RM physicians (72% vs. 32%, p < 0.001).
- Half of physicians RM/PC reported only "rarely or sometimes" recommending physical activity (RM 52%, PC 54%,) and one fourth "never" (RM 25%, PC 28%), p = 0.453.
- Half of physicians RM/PC "never" recommended pulmonary rehabilitation (RM 49%, PC 55%, *p* = 0.602)

For chronic breathlessness in COPD, fILD and LC:

 More than half of RM physicians reported "never" recommending use of a handheld fan (contrary - >60% PC "often/always")

Results – pharmacological management (1)

	COPD				fILD		Lung Cancer		
	RM	РС	Specialties	RM	PC	Specialties	RM	РС	Specialties
	(n=336)	(n=95)	compared	(n=324)	(n=87)	compared	(n=300)	(n=102)	compared
			(χ^2) p value			(χ^2) p value			(χ^2) p value
Opioids									
Often or always	132 (39%)	87 (92%)	p<0.001	117 (36%)	72 (83%)	p<0.001	227 (76%)	97 (95%)	p<0.001
Rarely or	150 (45%)	7 (7%)		148 (46%)	14 (16%)		59 (20%)	5 (5%)	
sometimes									
Never	54 (16%)	1 (1%)		59 (18%)	1 (1%)		14 (5%)	-	
Benzodiazepines			\frown						
Often or always	34 (10%)	31 (33%)	p<0.001	40 (12%)	22 (25%)	p<0.001	108 (36%)	47 (46%)	p=0.001
Rarely or	194 (58%)	60 (63%)		181 (56%)	58 (67%)		142 (47%)	52 (51%)	
sometimes									
Never	108 (32%)	4 (4%)		103 (32%)	7 (8%)		50 (17%)	3 (3%)	
Antidepressants									
Often or always	62 (19%)	10 (11%)	p=0.010	39 (12%)	11 (13%)	p=0.298	63 (21%)	15 (15%)	p=0.379
Rarely or	201 (60%)	73 (77%)		175 (54%)	54 (62%)		173 (58%)	63 (62%)	
sometimes									
Never	73 (22%)	12 (13%)		110 (34%)	22 (25%)		64 (21%)	24 (24%)	

Results – pharmacological management (2)

- More PC than RM doctors "often/always" use opioids in COPD (92% vs. 39%), fILD (83% vs. 36%) and LC (95% vs. 76%) (p<0.001)
- Conversely, larger proportions of RM physicians stated they would "never" initiate opioids in severe COPD (16% vs. 1%) or fILD (18% vs. 1%).
- 33% and 25% of PC respondents would "often or always" recommend benzodiazepines in the COPD and fILD vignettes respectively (compared to RM: 10% and 12%, p<0.001)
- Benzodiazepines were less frequently selected by RM 32% stated they would "never" select them for COPD and fILD (in LC – 17%).

Results - prioritised treatment

	COPD			Fib	rotic ILD)	Lung Cancer		
	RM	PC	RM vs	RM	PC	RM vs PC	RM	PC	RM vs PC
	(n=336)	(n=95)	PC	(n=324)	(n=87)	(χ ²)	(n=300)	(n=102)	(χ ²)
			(χ ²)			p value			p value
			p value			\frown			\frown
Drug treatment for breathlessness	70 (21%)	52 (55%)	p<0.001	78 (24%)	35 (40%)	p<0.001	174 (58%)	76 (75%)	p=0.001
Re-assess O_2 prescription	29 (9%)	2 (2%)	\smile	79 (24%)	3 (3%)		23 (8%)	1 (1%)	
Non-pharmacological, non- exercise intervention	28 (8%)	25 (26%)		28 (9%)	24 (28%)		29 (10%)	15 (15%)	
Exercise training / rehabilitation	166 (49%)	7 (7%)		96 (30%)	16 (18%)		10 (3%)	1 (1%)	
Psychological assessment	31 (9%)	5 (5%)		30 (9%)	6 (7%)		58 (19%)	7 (7%)	
Other	12 (4%)	4 (4%)		13 (4%)	3 (3%)		6 (2%)	2 (2%)	

Krajnik M, Hepgul N, Wilcock A, et al. BMC Pulm Med. 2022;22(1):41.

Results - prioritised treatment & referrals to PC

Prioritised treatment

- RM physicians exercise/rehabilitation for COPD (49%), and drug treatment for LC (58%). For fILD balanced between drug treatment (24%), exercise/rehabilitation (30%), and re-assessment of oxygen prescription (24%).
- PC physicians drug treatment regardless of diagnosis but especially for LC (75%).

Referrals to palliative care

Across all three vignettes, most RM physicians stated that they would refer such patients to PC to provide ongoing palliation of breathlessness and other symptoms or for advice about palliation of breathlessness (COPD 73%, fILD 71%, LC 93%).

Results – use of a breathlessness score and knowledge of PC practice guidelines (1)

	RM	РС	Specialties
	(n=348)	(n=102)	compared (χ^2)
			p value
Awareness of guidelines			
Yes, I know of them and have read them carefully	53 (15%)	17 (17%)	p=0.619
Yes, I know of them but have only looked at them briefly	86 (25%)	23 (23%)	
Yes, I know of them but have not read them	43 (12%)	12 (12%)	
I know that no such guidelines/recommendations exist	36 (10%)	6 (6%)	
I'm not sure if such guidelines/recommendations exist or not	130 (37%)	44 (43%)	
Use of a breathlessness score			
Yes, I routinely use a breathlessness score	215 (62%)	13 (13%)	p<0.001
Yes, I sometimes use a breathlessness score	102 (29%)	26 (26%)	
No, I never use a breathlessness score	25 (7.0%)	57 (56%)	
No, I don't know any breathlessness scores	6 (2%)	6 (6.0%)	

Krajnik M, Hepgul N, Wilcock A, et al. BMC Pulm Med. 2022;22(1):41.

Results – use of a breathlessness score and knowledge of PC practice guidelines (2)

- Over two-thirds (62%) of RM physicians reported routinely using a breathlessness score in clinical practice (often or always) compared to 13% of PC physicians
- Only 15% of RM, and 17% of PC physicians reported that they knew of and had read carefully any local, national or international guidelines or recommendations on PC for non-malignant respiratory diseases
- Almost half of both specialties responded that no such guidelines/recommendations existed, or that they were unsure whether guidelines existed.

We compared RM & PC responses, and explored if management varied with knowledge of palliative care guidelines for non-malignant lung diseases



Whether knowledge of PC guidelines in non-malignant lung diseases influences clinical practice

Results - knowledge of guidelines and non-pharmacological management + breathlessness scoring

The 40% of respondents that reported reading carefully or at least looked at non-cancer palliative care guidelines briefly were significantly more likely to:

- Routinely assess breathlessness ($\chi^2 = 13.8$; p=0.0002)
- Use a handheld fan in COPD ($\chi^2 = 8.75$, p=0.003), in fILD ($\chi^2 = 4.85$, p=0.028) and in LC ($\chi^2 = 5.63$, p=0.018)
- Be open to refer fILD patients to PC ($\chi^2 = 5.83$, p=0.016)
- Use pulmonary rehabilitation in COPD patients ($\chi^2 = 6.41$, p=0.011)



Relationship between the knowledge of guidelines/recommendations on palliative care for non-malignant lung diseases and the routine use of a breathlessness score in clinical practice. Legend: Knowledge of guidelines was evaluated by a 5point Likert scale: 1 - I know that no such guidelines/recommendations exist; 2 - I'm not sure if such guidelines/recommendations exist or not; 3 - Yes, I know of them but have not read them; 4 - Yes, I know of them but have only looked at them briefly; 5 - Yes, I know of them and have read them carefully. Kruskal-Wallis test was implemented to assess the difference in ordinal data among all independently sampled groups, with subsequent post-hoc test (Dunn's test) for multiple comparison

Results - knowledge of guidelines and pharmacological management

The 40% of respondents that reported reading carefully or at least looked at non-cancer palliative care guidelines briefly were significantly more likely to

• Use opioids (x²=12.58, p=0.0004) in COPD

Generally, there was no clear relationship between knowledge of guidelines and treatment with benzodiazepines and antidepressants.

However, for fILD antidepressants were used more frequently by respondents who reported they had read guidelines or looked at them briefly $(\chi^2 = 6.25; p = 0.044)$.

- Breathlessness management varies between specialties and by diagnosis.
- There is a pressing need to search for effective pharmacological treatment options for this condition.
- Knowledge of guidelines is associated with evidence-based practice but many are unaware of their existence.
- There is a need for cross-specialty guidelines that are user-friendly & well-publicised that could potentially improve practice.

Strengths and limitation

Strengths

- The first multinational survey to explore the management practices of physicians in RM and PC across a range of chronic advanced lung diseases
- Particular attention paid to non-malignant diseases including ILD

Limitations

- fILD case considered a patient with idiopathic pulmonary fibrosis specifically
- Responder bias needs to be considered (distribution via society mailing list, difficult to calculate the exact response rate or consider characteristics of non-responders)
- High numer of incomplete questionnaires
- Many responses from UK (practice across different healthcare systems?)
- Self-reported knowledge/attitudes to management of case vignettes may not reflect actual clinical practice

Thank you to:

 Nilay Hepgul, Andrew Wilcock, Ewa Jassem, Tomasz Bandurski, Silvia Tanzi, Steffen T. Simon, Irene J. Higginson, Caroline J Jolley and the BETTER-B consortium

Krajnik et al. BMC Pulmonary Medicine (2022) 22:41 https://doi.org/10.1186/s12890-022-01835-0

BMC Pulmonary Medicine

Open Access

RESEARCH

Do guidelines influence breathlessness management in advanced lung diseases? A multinational survey of respiratory medicine and palliative care physicians

Małgorzata Krajnik^{1†}, Nilay Hepgul^{2†}, Andrew Wilcock³, Ewa Jassem⁴, Tomasz Bandurski⁵, Silvia Tanzi⁶, Steffen T. Simon⁷, Irene J. Higginson^{2†} and Caroline J. Jolley^{8*†} on behalf of the BETTER-B research consortium

