Evaluation of the timeliness of a multidisciplinary assessment of breathlessness in palliative care: a Stanford Quality Improvement Project

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- Breathlessness reduces functional capacity and quality of life
- Increases risk of death by 80% in people with advanced cancer
- Is systematically under-recognised and under-treated in palliative care
- Assessment of breathing related-distress is essential to address psychosocial issues and cognitive processes that drive breathlessness

(Connor, Morris et al. 2020; Weingaertner, Scheve et al. 2014; Maddocks, Lovell et al. 2017)



 One fifth of people admitted to home community palliative care services with moderate to severe breathing related distress did not have their breathlessness re-assessed or documented within 7 days

(Palliative Care Outcomes Collaborative 2020: Phase Report Calvary Sydney - Community)

The service was not providing adequate responsive care for patients with breathing related distress



PCOC SAS



(Please complete or affix Label here)

Symptom Assessment Scale

Please use this form to tell us about the symptoms that bother, worry or distress you. This information will help us to meet your needs.

Absent Mild			Moderate			Severe			
0 1 2	3	4	5	6	7	8	9) 1	.0
)	Ć	.[.)	(~[~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		->[2)		2
 Write the day or da Use the scale above bothered, worried You can add other 	ate in th e to cho or distr sympto	e first r oose a n essed y ms in th	ow. umber ou are. ne blank	betwee space a	n 0 and at the b	10 that ottom c	shows	how st.	
Date/Day									
Difficulty sleeping									
Appetite problems									
Nausea									
Bowel problems									
Breathing problems									
Fatigue									
Pain									



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Aim: SMART Goal



Between 01 May and 31 September 2021, we will increase the proportion of patients with moderate or severe breathing-related distress* on admission to home community palliative care services who have a *repeat assessment within 7 days* from 34% to 90% *PCOC SAS breathlessness score ≥4

PCOC: Palliative Care Outcomes Collaboration; SAS: Symptom Assessment Scale

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Team Members



Dr Angela Rao (RN, PhD) Team leader



Felicity Forby (BAppSc OT) Occupational Therapist



Dr Elaine Gallagher (MBBS, MRCP, DipPallMed – CMO CPCT



Kate Andrews (BAppSc (Phty)) Physiotherapist



A/Prof Annmarie Hosie (RN, PhD) Mentor



Carmen Sanchez RN MNP Nurse Practitioner



Prof Meera Agar (MD, PhD) Mentor

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EFFECT: Delays (>7 days) in the reassessment of moderate to extremely severe breathlessness SAS scores				
CAUSE CATEGORY	CAUSE			
Measurement	Should all clinicians be entering scores on PalCentre?			
	What measure should we use? PCOC SAS? Breathing, Thinking, Functioning (BTF) Assessment?			
	Who should complete BTF assessment? Physiotherapist? Nursing?			
	Which patients should we use BTF on? Moderate to severely breathless or all patients?			
Environment	Resourcing of allied health professionals – immediate issues prioritised (end of life care, falls management)			
	Variable to inconsistent capacity to prioritise scores in the lower to moderate range due to competing crises			
Methods	No automated referral process for moderate SAS breathlessness score (≥4)			
	Allied health use a paper based referral system			
	Training needed on how to enter PCOC scores into PalCentre software			
	No benchmark time-point for repeat breathlessness assessment for non-urgent cases.			
	The need for breathlessness assessment and management is unclear on referrals to allied health			
	No habitual practice entering scores			
Materials	Technological issues of access to PalCentre software to enter scores			
	Discussion of the use of an app/laptop to facilitate ease of data entry – staff have laptops but the software is clunky and slow to load while on the road			
Personnel	Screening delays due to part time allied health and medical staff			
	Workload - staff shortages creates inability to focus on lower scores given competing crises			

1. Consistency of practice in scoring (i.e. scoring distress and not the severity of breathlessness) and action to scores

2. Preventative mindset (proactive, not reactive). Assess scores before a crisis situation arises.

3. Timely allied health breathlessness referral where applicable - eliminate referral lag

4. Nursing and allied health staff to create a habitual practice of entering SAS scores at each assessment

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			Assessments collected at each patient contact in an episode	One-off assessment (profile du collection)	Nursing and allied health staff to create a habitual practice of entering SAS scores at
			PCPSS	SAS 🗸	each assessment
			Sympton ological / // Carer ng	sa Is e	SAS scores breathlessness to be entered on PalCentre, even if score is zero (All staff)
Assessment	Phase	Source	Pain Other Psychu Family Sleepi	Apped Nause Bowel Breath Fatigu Pain	Access for all allied health staff to PalCentre Kate (PT and OT access)
25/03/2022	Stable		1 1		
22/12/2021	Stable	e e			DCOC representative to provide inservice to allied health staff to facilitate PalCe
24/03/2022	Unstable	<u>با</u>		4 0 0	
28/03/2022	Stable				uptake Martin
22/12/2021	Stable	er Al	1 1 1 1 2	2 0 4 7 0 5	
15/03/2022	Stable		0 1 0 0 0	3 1 0 6 4 0	
29/03/2022	Deteriorating	ß	0 2 1 2 0	0 0 0 5 7 0	
30/03/2022	Deteriorating	di la constante de la constant	0 2 0 0	5 5 0	Eurer Eurer
30/03/2022	Deteriorating	di la constante da la constant	2 2 1 2 5	5 0 3 5 3 7	
24/03/2022	Stable	<u>p</u>	2 1 1 1 0	5 3 8	PALLENTRE
15/03/2022	Stable	P	1 2 1 0	2 0 5 4 1	
24/03/9202	Deteriorating	di la constante de la constant	0 2 2 2 0	0 0 1 4 1 0	
04/11/2021	Stable	di la constante da la constant	0 1 0 0 0	0 0 0 4 0 0	
13/01/2022	Stable	di la constante da la constant	1 1 0 0	4 4 3	
24/03/2022	Stable	di la constante de la constant	1 1 1 0 0	3 0 0 4 4 6	
23/03/2022	Deteriorating	di la constante de la constant	1 2 1 1 0	2 0 0 4 3 2	
11/03/2022	Deteriorating	e e	1 2 2 2 0	4 2 2 4 7 4	
23/03/2022	Deteriorating	r 🔁	2 1 1 1 4	3 0 3 4 5 5	

PalCentre software

Key Drivers

1. Consistency of practice in scoring (i.e. scoring distress and not the severity of breathlessness) and action to scores

2. Preventative mindset (proactive, not reactive). Assess scores before a crisis situation arises.

3. Timely allied health breathlessness referral where applicable - eliminate referral lag

4. Nursing and allied health staff to create a habitual practice of entering SAS scores at each assessment

Interventions/ Countermeasures

SAS scores breathlessness to be entered on PalCentre, even if score is zero (All staff)

Access for all allied health staff to PalCentre Kate (PT and OT access)

Repeat CPCT education session w. case study F/E/C/A.

Blue sticker added to journey board to flag new breathless patients (L2) Carmen.

PCOC representative to provide inservice to allied health staff to facilitate PalCentre uptake **Martin**

CPCT in-service/education May 10 - facilitate allied health/nursing buy in and CPCT nursing ownership of SMART goal Leanne (CPCT)/ Angela/ Elaine/Carmen

Collate fortnightly data (Friday) to present to weekly CPCT team meeting (Monday) Angela

Weekly education and support for correct PCOC score entry, revision of entered scores for all CPCT patients **Elaine**

Develop flowchart of what to do if SAS breathlessness score \geq 4 Elaine (L2)

Attempt to automate PCOC SAS score data collection Martin/Elaine (L3)



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Results: Baseline



Proportion of breathlessness scores in **2020 was 34%** Proportion of breathlessness scores entered **before any interventions was 50%**

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Proportion of new community patients with SAS breathlessness scores ≥4 on admission with repeated SAS breathlessness scores within 7 days



Flowchart

Breathing distress score ≥4

Assessment of cause/severity inc. physical assessment

Is dysphoed in keeping with known disease and no reversible factors i.e. infection that need to be addressed



No

Escalate to discuss if further investigation, treatment or admission warranted

Nursing intervention (BTF), advice on current medication use

Consider referral to AHP for energy conservation, functional assessment, breathlessness management plan,

Consider need for medical discussion re medications/review Follow up intervention within 7 days or earlier, as appropriate

**Document Score on palCentre



Results

Proportion of new community patients with breathing-related distress scores ≥4 on admission with a re-assessment within 7 days



Proportion of SAS breathlessness scores entered within 7 days increased from **34% to 92%**. Mean increase of 36% in 5 months! Total increase of 58%!

Sustainability

Old process = No process



New Process



Sustainability

- Identify patients with moderate to severe breathing-related distress as well as other symptoms
- Review moderately distressed patients
- Fill staff knowledge gaps in accurate assessment of Symptom Assessment Scale scores
- Contemporaneous data entry



Key learning points from this project

- Identified breathless patients in need of follow up
- Identified staff support needs for breathlessness scoring and management
- Embedded processes for addressing moderate to severe breathing-related distress



Next steps?

Consider using the same method to address moderate to severe distress associated with other symptoms Consider justification for breathlessness clinic at Calvary to address unmet needs/ support for symptom management

Evaluate implementation of breathing thinking functioning assessment +/psychological health support

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- The proportion of community patients with a re-assessment of breathing-related distress increased
- Similar QI project is possible in other community palliative care teams who use PCOC SAS scores

