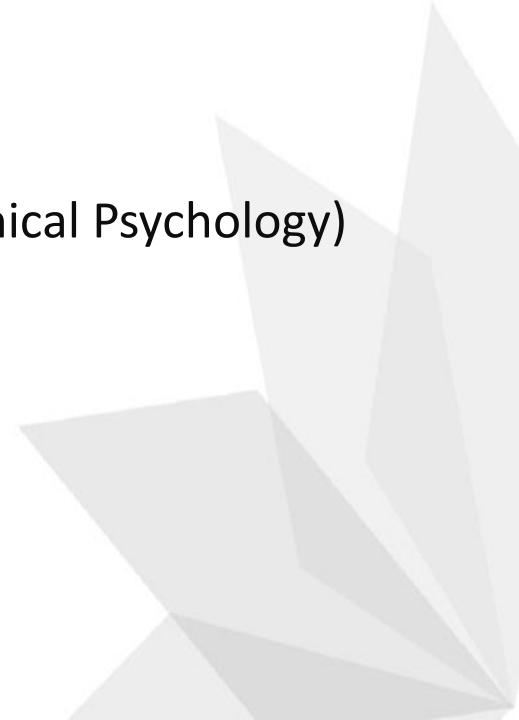


Validation of psychological screening measures for palliative care



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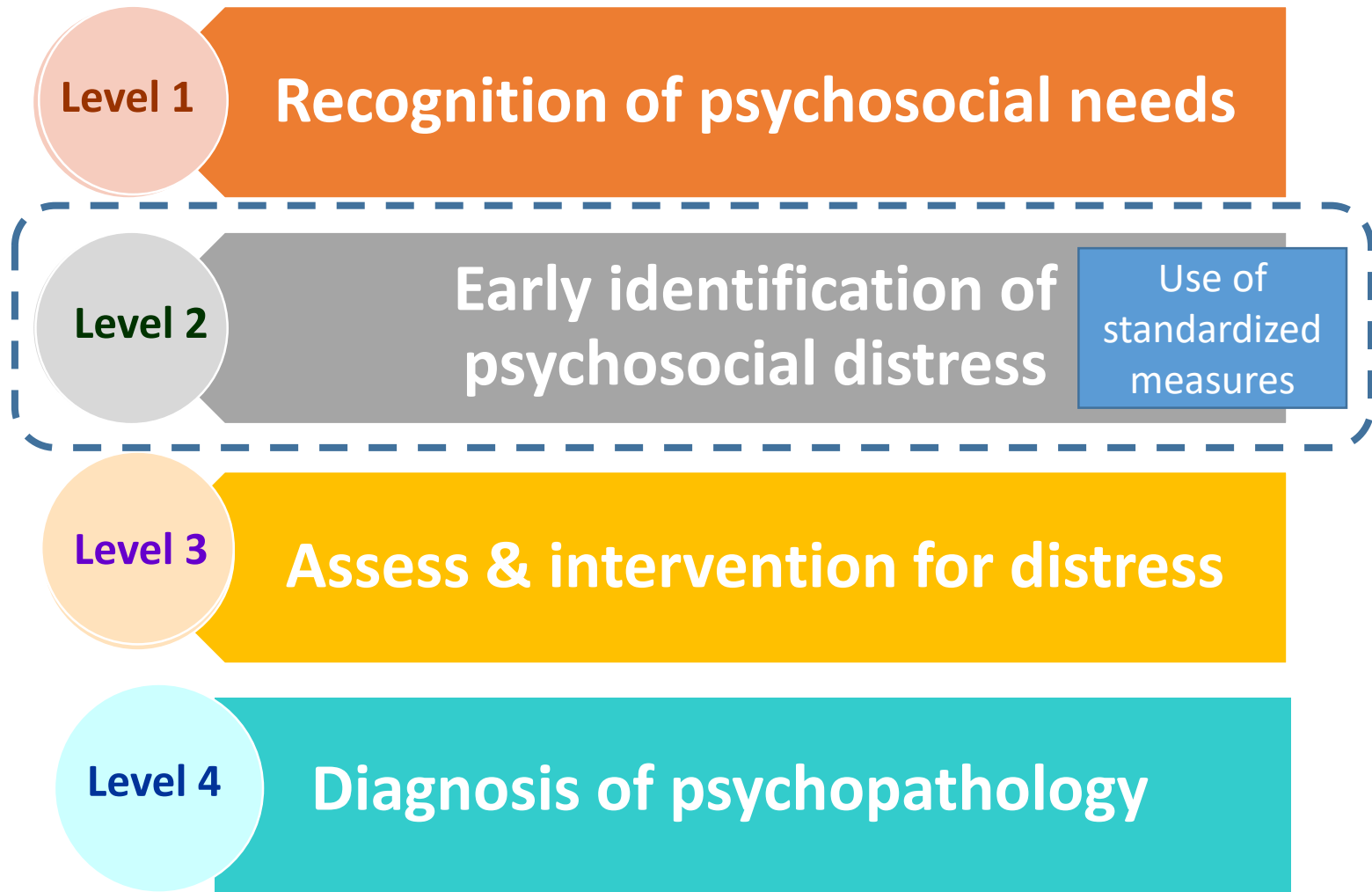
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Psychosocial Care Framework for PC



Methods

Phase I

- *Screening measures* were completed by patients and caregivers.

w/in 1-week

Phase II

- *Clinical interviews* were independently conducted by clinical psychologists (CP) to determine if CP follow-up is needed.

Results of screening measures (Phase I) and clinical interviews (Phase II) were compared

Measures

cutoff indicating moderate to severe distress adopted except for DT and DADDS

1. Patient Health Questionnaire (PHQ-9) (Kroenke, Spitzer, & Williams, 2001)
2. General Anxiety Disorder Scale (GAD-7) (Spitzer et al., 2006).
3. Psychological Wellbeing Scale (PWS) (Wu & Cho, 2007; Wu et al., 2010)
Patient version (PWS-P) & Carer version (PWS-C)
4. Depression Anxiety Stress Scale (DASS) (Lovibond & Lovibond, 1995)
5. Distress Thermometer (DT ≥ 4) (Roth et al., 1998)
6. Death and Dying Distress Scale (DADDS – no cut-off) (Lo et al., 2011)

Participants

- Patients and family carers served in 5 PC units (Jul 2018 – Apr 2019)
- Cantonese speaking Hong Kong resident
- Adult (18 or above)

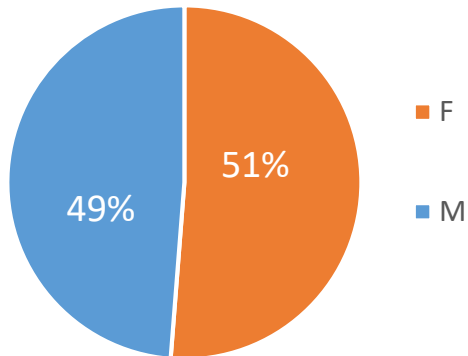
Patients
n = 121

Family carers
n = 104

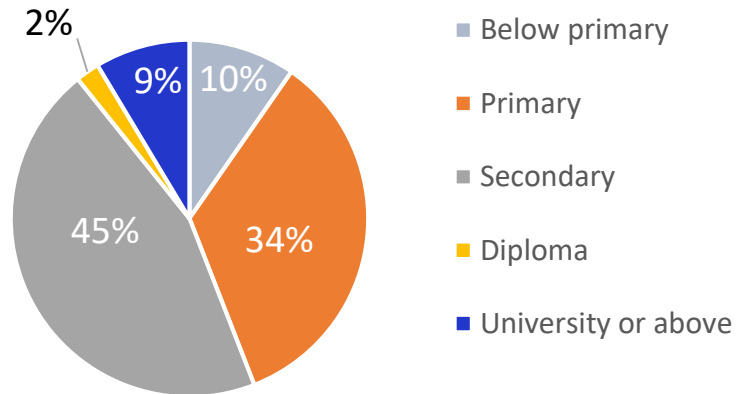
Patients (n=121)

Mean age (range): 69.3 yrs (25 – 95)

Sex

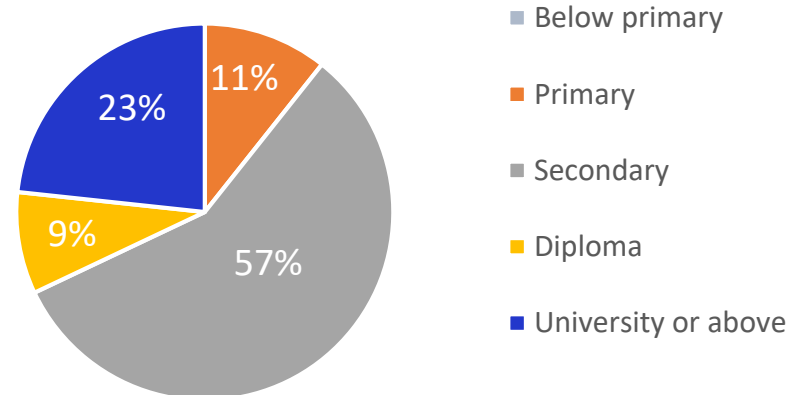
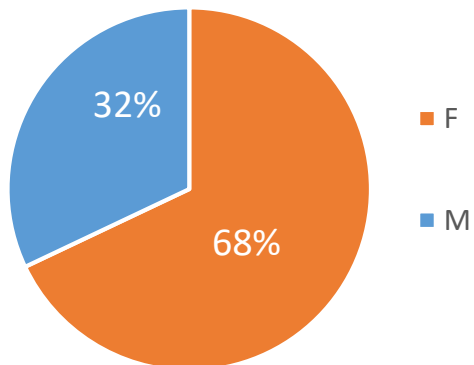


Education level



Family caregivers (n=104)

Mean age (range): 55.8 yrs (18 – 86)



Results : Patients

Correlations among the screening measures

Significant correlations among the screening measures completed by patients

		GAD-7	PHQ-9	PWS-P subscale				DADDS
				SS	LM	ED	HC	
PHQ-9		.68***						
PWS-P subscale	SS	-.30**	-.33***					
	LM	-.22*	-.30**	.44***				
	ED	.60***	.55***	-.35***	-.23*			
	HC	-.20*	-.27**	.22*	.45***	-.21*		
DADDS		.51***	.46***	-.31**	--	.60***	--	
DT		.54***	.51***	-.21*	-.25**	.64***	--	.36***

Note. * $p < .05$, ** $p < .01$, *** $p < .001$

GAD-7 = Generalized Anxiety Disorder-7 Scale

PHQ-9 = Patient Health Questionnaire-9 Scale

PWS-P = Psychological Wellbeing Scale-Patient

PWS-C = Psychological Wellbeing Scale- Caregiver

SS = Social Support

LM = Life Meaning

ED = Emotional Distress

CI = Caregiving Inadequacy

HC = Hospital Care

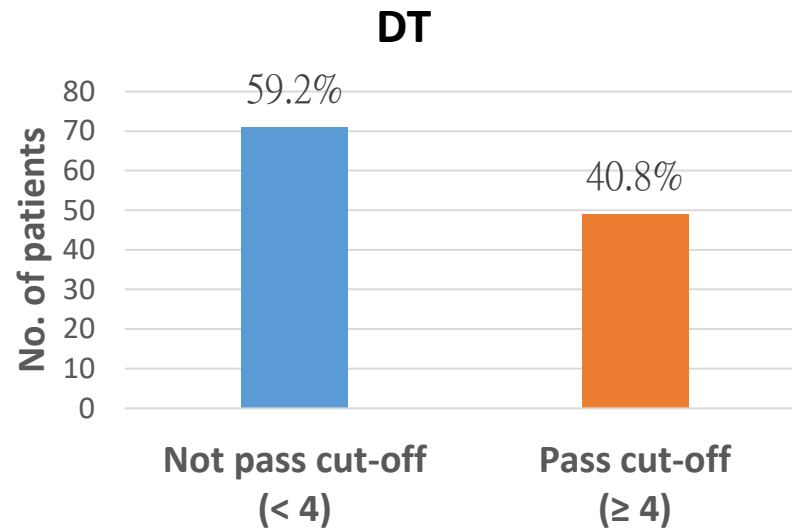
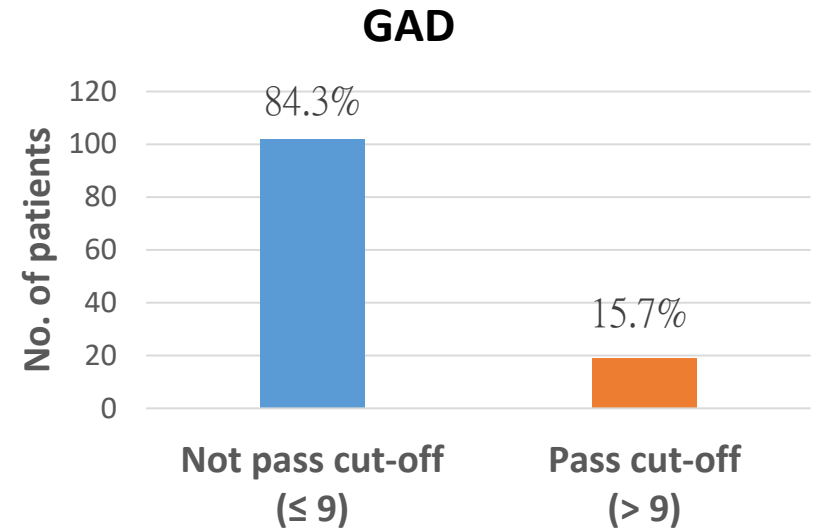
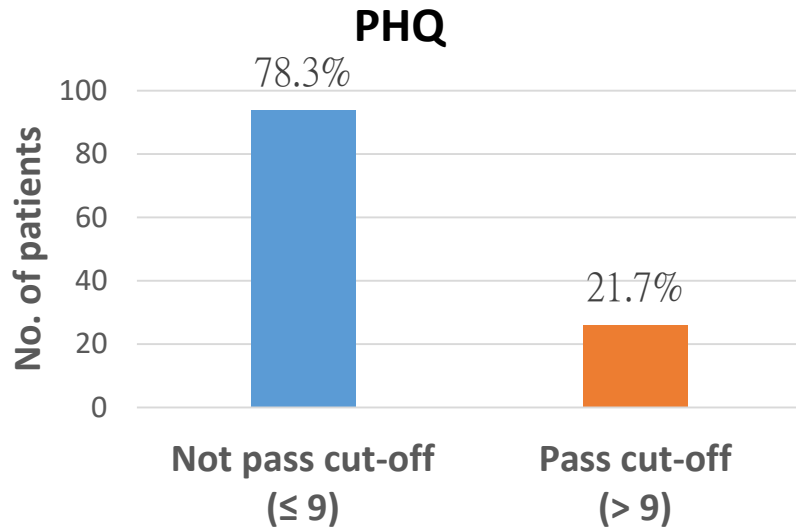
DADDS = Death and Dying Distress Scale

DT = Distress Thermometer

DASS = Depression Anxiety Stress Scale

Results: Patients

% with moderate-to-severe distress



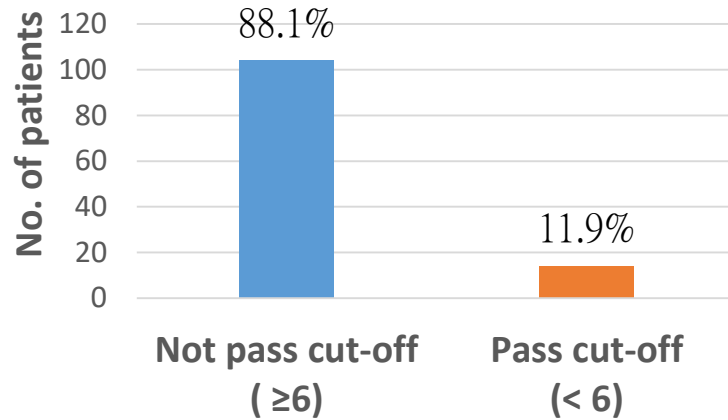
GAD-7 = Generalized Anxiety Disorder-7 Scale
PHQ-9 = Patient Health Questionnaire-9 Scale

DT = Distress Thermometer

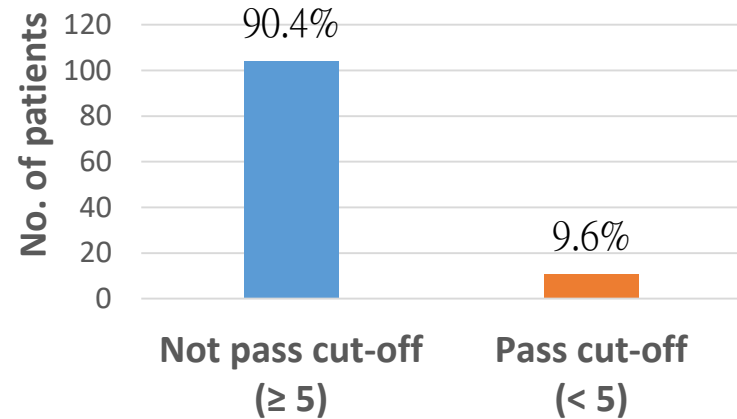
Results: Patients

% with moderate-to-severe distress

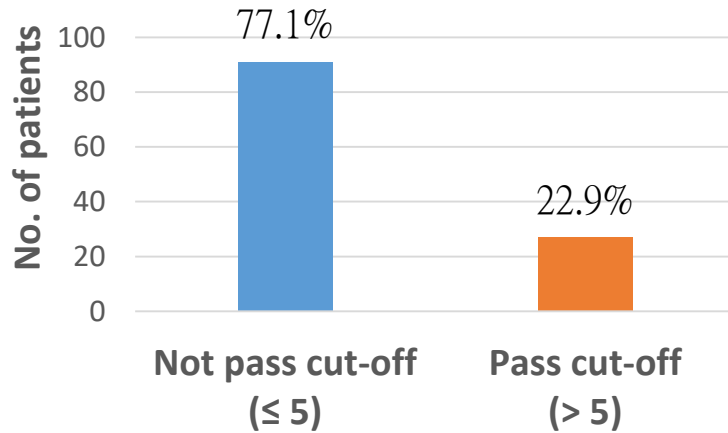
PWS-P-SS



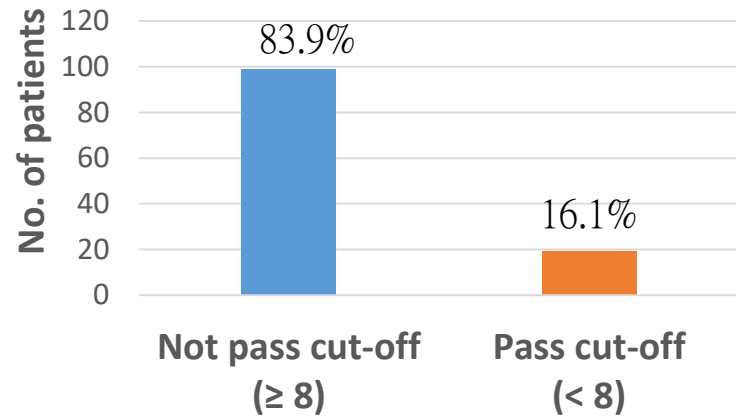
PWS-P-LM



PWS-P-ED



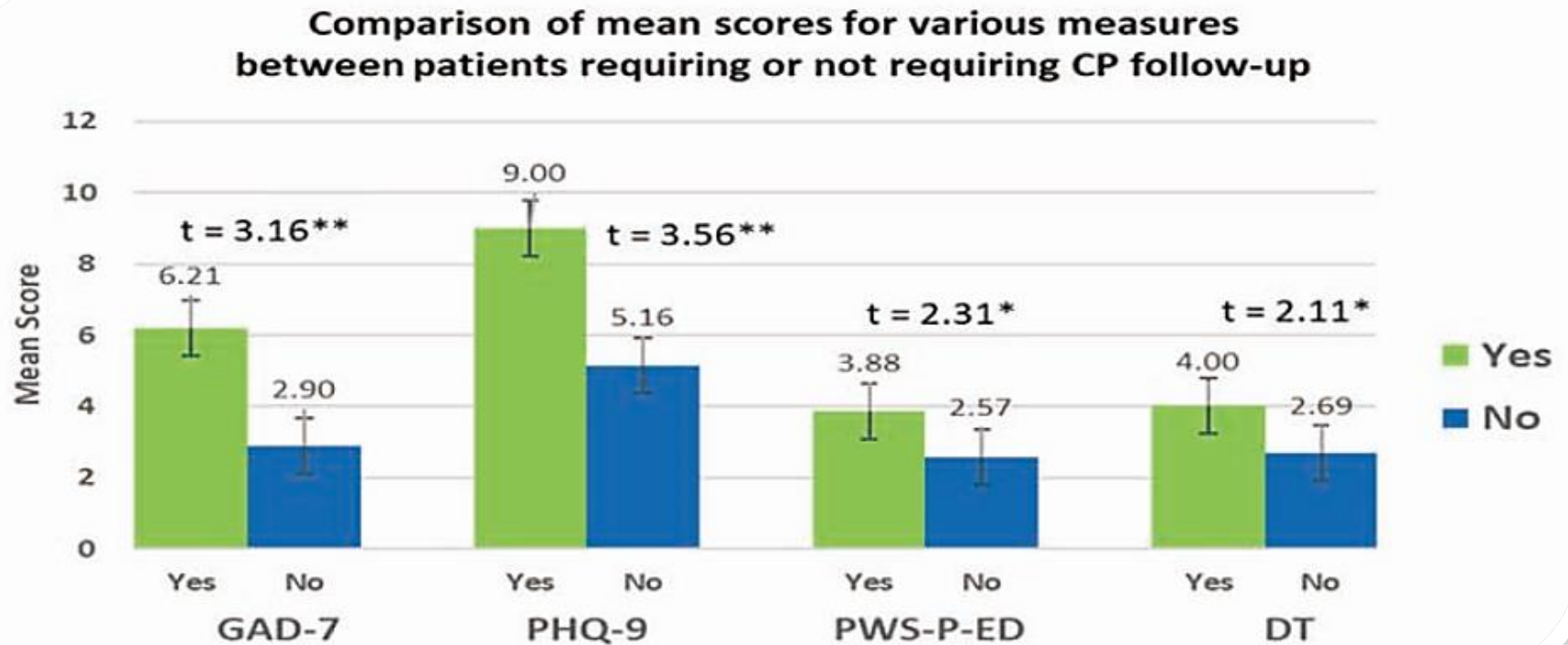
PWS-P-HC



PWS-P = Psychological Wellbeing Scale-Patient
SS = Social Support
LM = Life Meaning

ED = Emotional Distress
HC = Hospital Care

Results : Patients requiring or not requiring CP follow-up



Note. * $p < .05$, ** $p < .01$, *** $p < .001$

GAD-7 = Generalized Anxiety Disorder-7 Scale

PHQ-9 = Patient Health Questionnaire-9 Scale

PWS-P = Psychological Wellbeing Scale-Patient

ED = Emotional Distress

DT = Distress Thermometer

Accuracy, specificity and sensitivity for identifying needs of CP follow-up

Patients			
	Accuracy	Specificity	Sensitivity
PHQ	69.3%	88.6%	38.6%
GAD	67.8%	91.5%	29.5%
PWS-P-ED	65.2%	84.1%	34.9%
PWS-P-LM	65.1%	94.1%	17.1%
PWS-P-SS	62.5%	91.3%	16.3%
PWS-P-HC	61.6%	87.0%	20.9%
DT	64.0%	70.0%	54.5%

Results : Family carers

Correlations among the screening measures

Significant correlations among the screening measures completed by caregivers

		GAD-7	PHQ-9	PWS-C subscale					DASS
				SS	LM	ED	CI	HC	
PHQ-9		.84***							
PWS-C subscale	SS	--	-.20*						
	LM	-.36***	-.43***	.50***					
	ED	.61***	.54***	-.22*	-.41***				
	CI	--	.26**	-.23*	-.28**	.23*			
	HC	--	--	--	.42***	--	--		
DASS		.76***	.81***	-.30**	-.50***	.59***	.32**	--	
DT		.64***	.67***	-.25*	-.35***	.58***	.23*	--	.59***

Note. * $p < .05$, ** $p < .01$, *** $p < .001$

GAD-7 = Generalized Anxiety Disorder-7 Scale

PHQ-9 = Patient Health Questionnaire-9 Scale

PWS-P = Psychological Wellbeing Scale-Patient

PWS-C = Psychological Wellbeing Scale- Caregiver

SS = Social Support

LM = Life Meaning

ED = Emotional Distress

CI = Caregiving Inadequacy

HC = Hospital Care

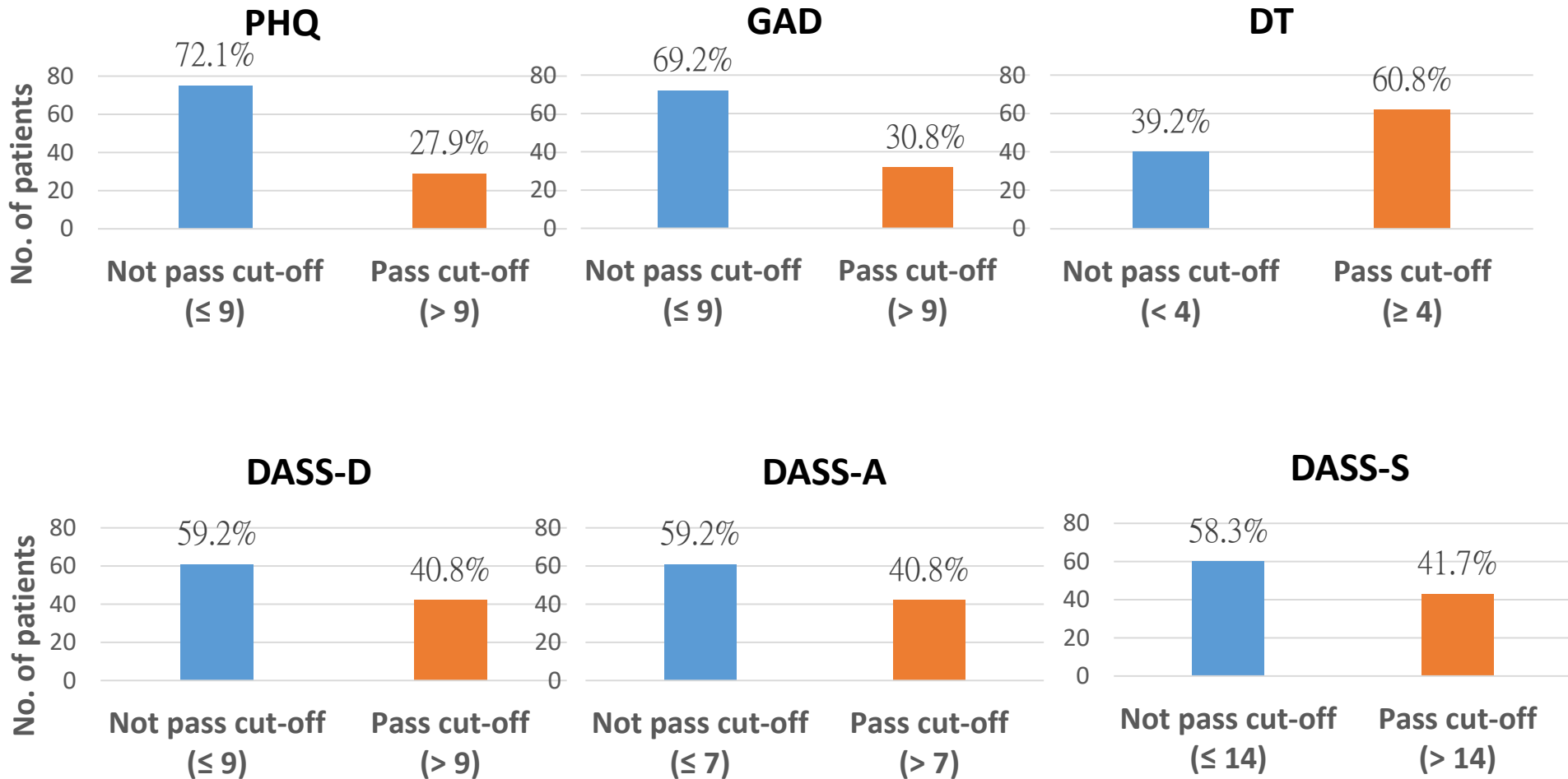
DADDS = Death and Dying Distress Scale

DT = Distress Thermometer

DASS = Depression Anxiety Stress Scale

Results: Family carers

% with moderate-to-severe distress



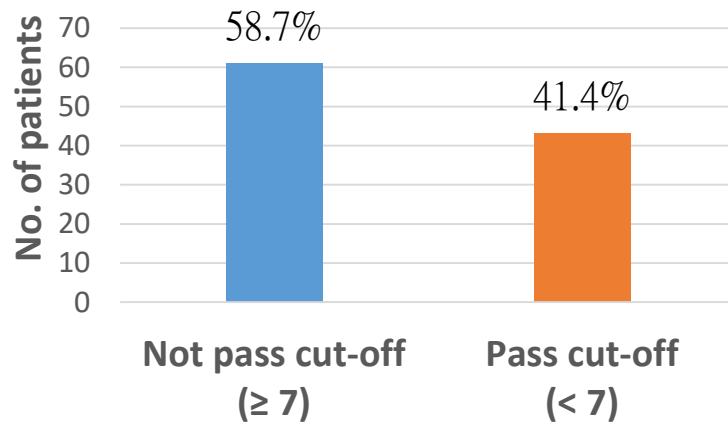
GAD-7 = Generalized Anxiety Disorder-7 Scale
PHQ-9 = Patient Health Questionnaire-9 Scale

DT = Distress Thermometer
DASS = Depression Anxiety Stress Scale

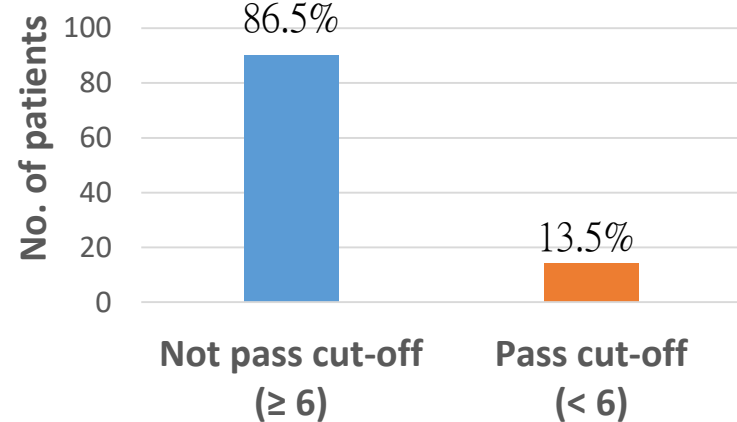
Results: Family carers

% with moderate-to-severe distress

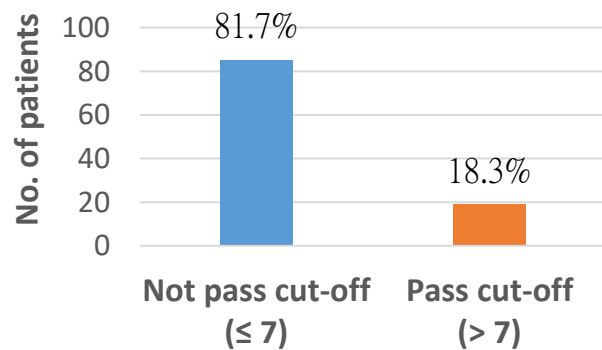
PWS-C-SS



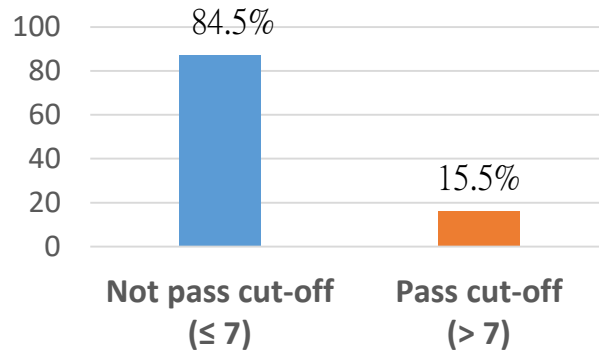
PWS-C-LM



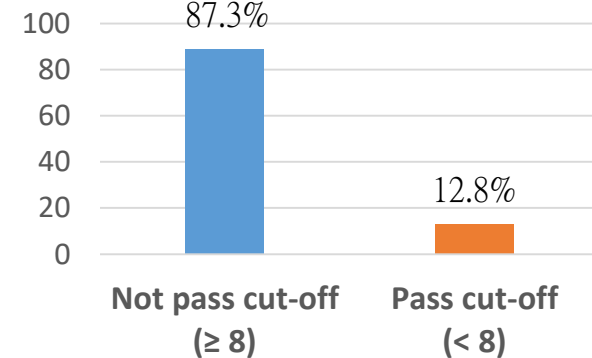
PWS-C-ED



PWS-C-CI



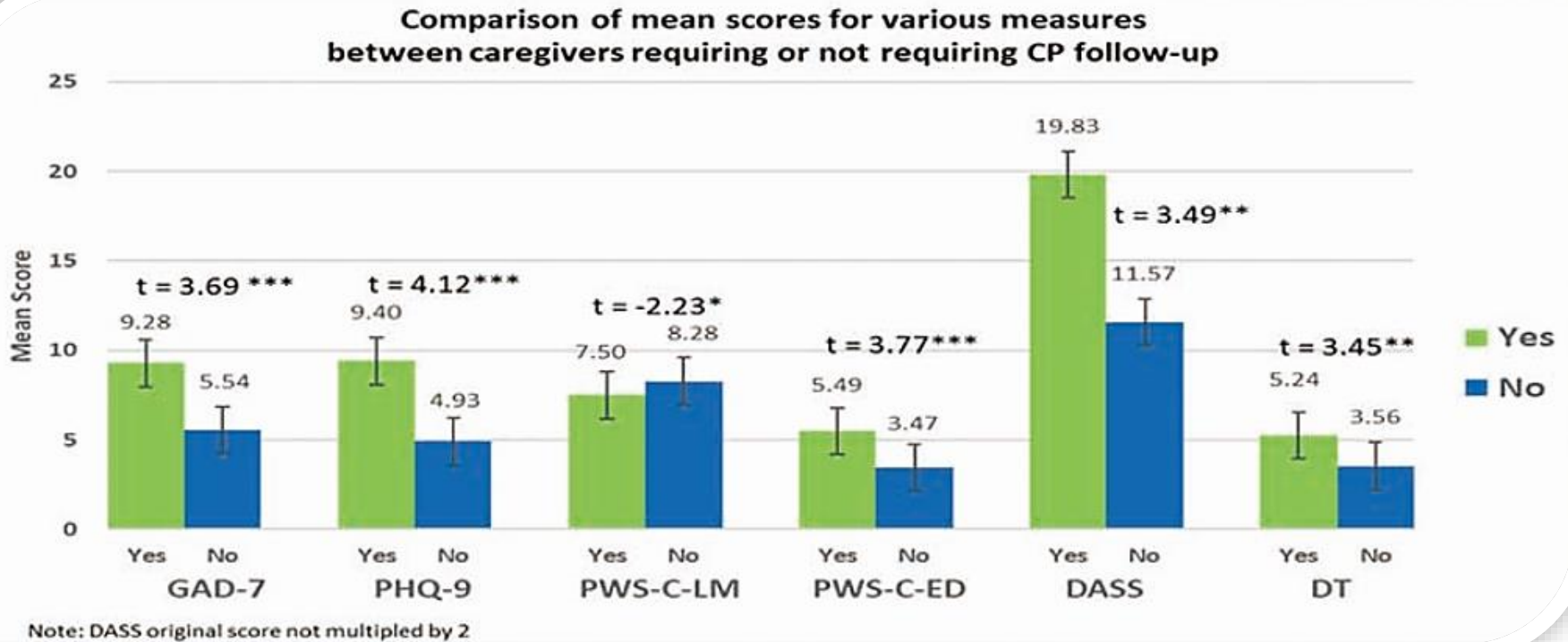
PWS-C-HC



PWS-C = Psychological Wellbeing Scale-Caregiver
SS = Social Support
LM = Life Meaning

ED = Emotional Distress
CI = Caregiving Inadequacy
HC = Hospital Care

Results : Family carers requiring or not requiring CP follow-up



Note. * $p < .05$, ** $p < .01$, *** $p < .001$

GAD-7 = Generalized Anxiety Disorder-7 Scale

PHQ-9 = Patient Health Questionnaire-9 Scale

PWS-C = Psychological Wellbeing Scale- Caregiver

LM = Life Meaning

ED = Emotional Distress

DT = Distress Thermometer

DASS = Depression Anxiety Stress Scale

Accuracy, specificity and sensitivity of screening measures for identifying needs of CP follow-up

Family Carers			
	Accuracy	Specificity	Sensitivity
PHQ	67.3%	87.0%	44.7%
GAD	64.4%	81.5%	44.7%
PWS-C-ED	65.3%	94.4%	31.9%
PWS-C-LM	61.4%	94.4%	23.4%
PWS-C-SS	60.4%	66.7%	53.2%
PWS-C-HC	59.6%	92.6%	20.0%
PWS-C-CI	53.0%	85.2%	15.2%
DT	60.6%	50.0%	73.3%
DASS-D	66.0%	73.6%	57.4%
DASS-A	63.0%	71.7%	53.2%
DASS-S	65.0%	71.7%	57.4%

Conclusion

1. The standardized measures studied were related with moderate correlations suggesting satisfactory construct validity
2. Distress Thermometer ≥ 4
 - patients (41%)
 - family carers (61%)
3. Passed cut-off of moderate-severe distress in other measures
 - patients (10-23%)
 - family carers (13-42%)
4. Standardized psychological screening measures examined could assist identification of service needs & monitoring outcomes for patients and family caregivers served in PC units
 - low sensitivity rates (moderate-severe distress in a self-report measure could be a help seeking signal not revealed in a face-to-face interview)

The image features a light gray background with abstract geometric shapes in the corners. The top-left corner contains several overlapping triangles in shades of blue, teal, green, and purple. The bottom-right corner contains several overlapping triangles in shades of gray.

Thank you