

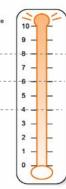
P1-53 - Distress Thermometer vs Emotion Thermometer in the **Diagnosis of DSMIV defined Depression in Cancer Settings.** A Large Scale UK Validation Study

1. Distress

Alex J Mitchell Consultant in Psycho-oncology Karen Lord PhD Candidate & CNS Paul Symonds Reader in Oncology Department of Cancer & Molecular Medicine, University Hospitals Leicester (UK) & University of Leicester ajm80@Je.ac.uk Extreme

OBJECTIVES

There has been much research on the value of the DT in screening for distress or depression in cancer settings. A meta-analysis suggested that the DT may lack specificity. We recently developed the Emotion Thermometer (ET) which builds on the success of the DT including distress, anxiety, depression and anger domains. Here we analysed the depression thermometer (DepT) and the DT against DSMIV Depression.



2008

Conference

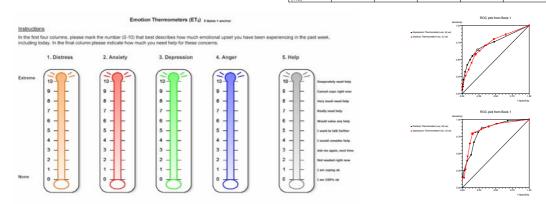
01 22

METHODS We analysed data collected from Leicester Cancer Centre from 2008-2009 involving approximately 1000 people approached by a research nurse and two therapeutic radiographers. Of those approached we collected data on 738 presentations, that is people seen up to three times over 9 months during treatment for cancer. We had complete data regarding depression in 447 people. Of these 48 (10.7%) had major depression and 121 (27.1%) had any depression (defined as major or minor combined). None

RESULTS Initial logistic regression suggested that the DepT was most closely related to the diagnosis of any depression as well as major depression.

epression		
b1 = -0.579	z = -1.153	P = 0.248
b2 = 0.171	z = 1.623	P = 0.104
b3 = -0.006	z = -0.09	P = 0.926
b4 = 0.234	z = 3.590	P = 0.000
b5 = -0.013	z = -0.24	P = 0.808
b6 = 0.108	z = 1.89	P = 0.058
Depression		
b1 = 0.228	z = 1.798	P = 0.072
b2 = -0.082	z = -0.70	P = 0.478
b3 = 0.278	z = 3.28	P = 0.001
b4 = 0.009	z = 0.129	P = 0.897
b5 = 0.116	z = 1.522	P = 0.127
	$b2 = 0.171 \\ b3 = -0.006 \\ b4 = 0.234 \\ b5 = -0.013 \\ b6 = 0.108 \\ \hline \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$	

	Sensitivity	Specificity	PPV	NPV	AUC
Any Depression					
Distress	0.578 (95%CI	0.801 (95%CI	0.52	0.84	0.734 (95%CI
thermometer	0.48 to 0.67)	0.75 to 0.84)			0.68 to 0.79)
(4v5)					
Depression	0.644 (95%CI	0.770 (95%CI	0.51	0.85	0.739 (95%CI
thermometer	0.55 to 0.73)	0.72 to 0.81)			0.68 to 0.79)
(2v3)					
Major					
Depression					
Distress	0.875 (95%CI	0.701 (95%CI	0.26	0.98	0.839 (95%CI
thermometer	0.75 to 0.95)	0.65 to 0.75)			0.78 to 0.89
(3v4)					
Depression	0.792 (95%CI	0.849 (95%CI	0.38	0.97	0.853 (95%CI
thermometer	0.65 to 0.89)	0.81 to 0.88)			0.79 to 0.91)
(4v5)					



CONCLUSIONS Diagnostic validity testing suggested a slightly superior AUC for DepT (vs DT) against major depression but equivalent accuracy against any depression. Sensitivity of the DepT was significantly higher than the DT in the diagnosis of MDD. Thus the DepT outperforms the DT against DSMIV major depression with better. sensitivity, although the DT performs comparably against "any depression". 8th Annual

ACKNOLWEDGEMENT Funding from Hope against Cancer WEBSITE: www.psycho-oncology.info