# CLINICAL IMPACT OF A PSYCHO-ONCOLOGY SERVICE: USING THE DISTRESS THERMOMETER TO EVALUATE SYMPTOMS, OUTCOME AND PATIENT SATISFACTION

York Teaching Hospital MHS
NHS Foundation Trust

Leeds and York Partnership **NHS**NHS Foundation Trust

H-Y-M-S

- 1. Paul Blenkiron\* (Consultant Liaison Psychiatrist, Leeds & York Partnership NHS Foundation Trust, NICE Fellow & Hon. Senior Lecturer, Hull York Medical School,)
- 2. **Alexander Brooks and Richard Dearden** (Trainees in Clinical Psychology, Cancer Psychology Service, York Teaching Hospital NHS Foundation Trust)
- 3. Joanne McVey (Consultant Clinical Psychologist, Dept of Psychological Medicine, York Teaching Hospital NHS Foundation Trust)

## Background

NICE recommends the use of structured tools to improve holistic care for patients with cancer. The Distress Thermometer and Problem Checklist (DT) is commonly used for screening in physical health settings. Prospective research suggests that the DT can help to facilitate communication and monitor changes in psychological distress over time. However, to date it has not been integrated into the clinical pathway within specialist psycho-oncology services.

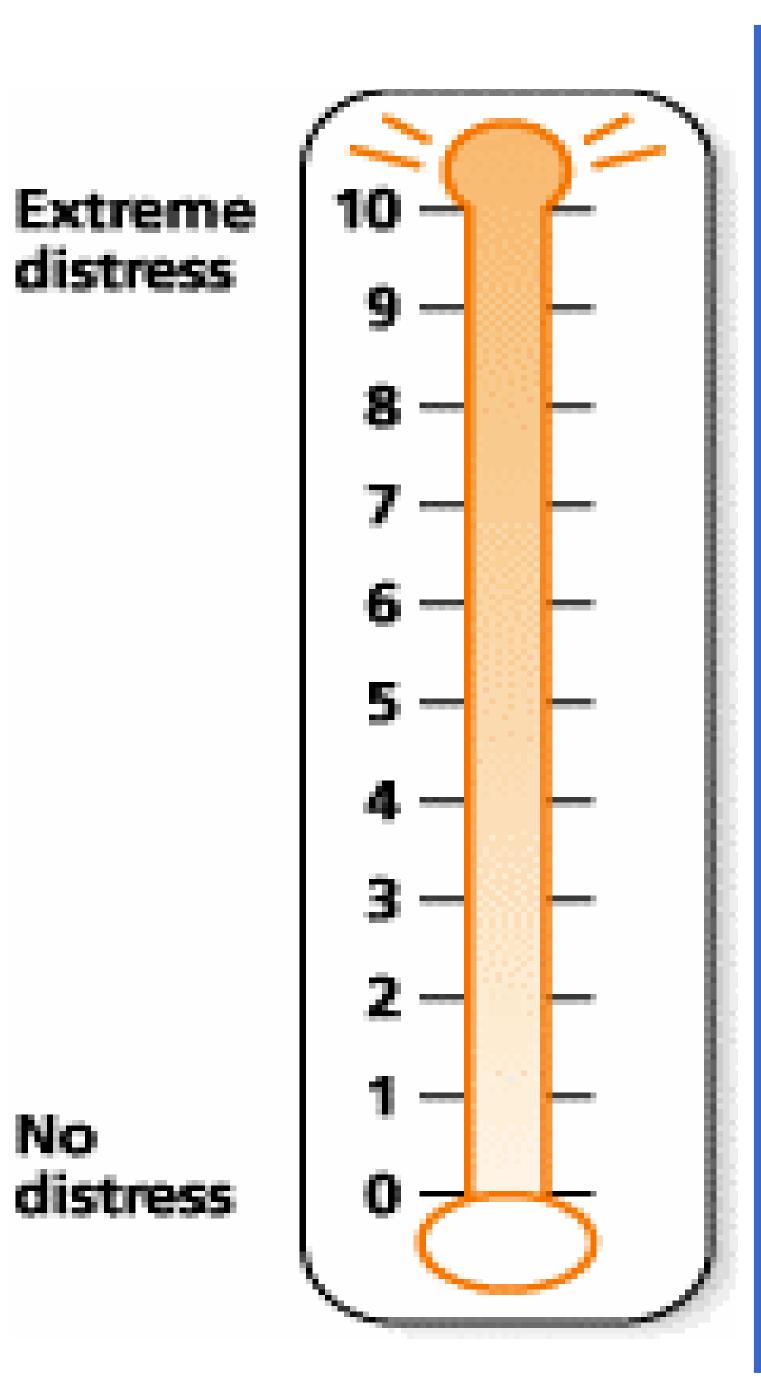


## Aims & Hypothesis

We used the DT to examine the clinical effectiveness of psycho-oncology intervention, ascertain factors linked to an improved outcome and evaluate patients' satisfaction with their care.

### Method

111 adult outpatients referred to York Psycho-oncology Service completed the DT at their first appointment. Individuals offered a period of psycho-oncology care re-rated their emotional distress, problems and service satisfaction measures on the DT at discharge.

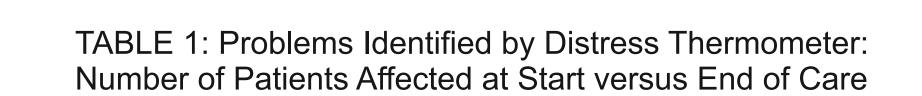


## Results

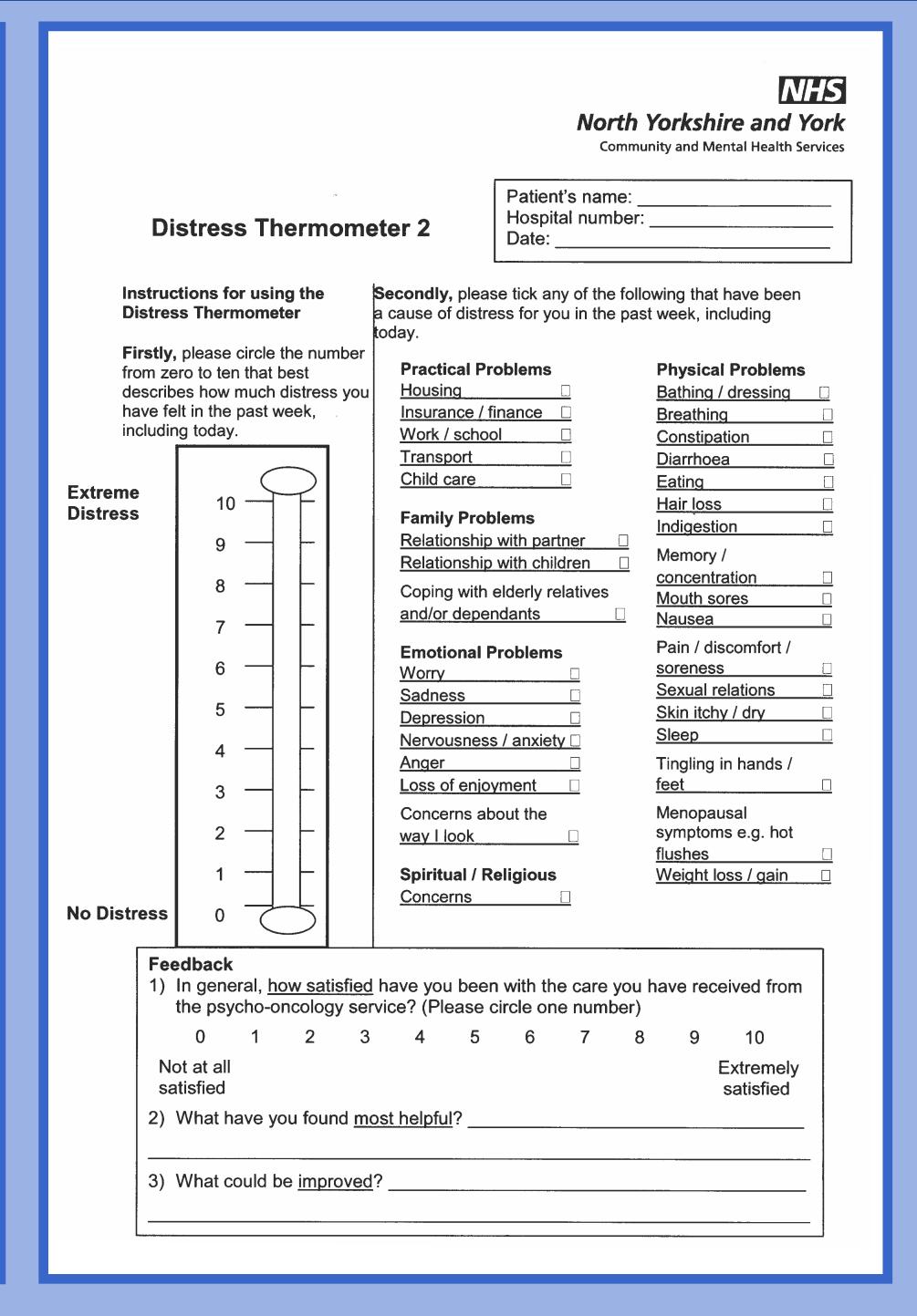
Median distress scores decreased significantly (from 6 to 4, Wilcoxon's z = -4.83, p < 0.001) indicating a large clinical effect (Cohen's d = 1.22). Frequency of emotional problems (anxiety, depression and anger) fell significantly by 15-24%, despite no significant change in patients' physical health or practical problems. Number of emotional problems was the best predictor of distress at discharge (beta = 0.468, p = 0.002). Satisfaction was high and correlated with lower distress scores (r = -0.42, p = 0.005) and fewer emotional problems (r = -0.31, p = 0.04) at discharge but not with number of appointments attended. Qualitative thematic analysis showed patients particularly value supportive listening and advice on coping strategies delivered by professionals who are independent from their physical care.

#### Conclusions

The DT is an acceptable and useful tool for enhancing the delivery of structured psycho-oncology care. It also provides evidence to support the effectiveness of specialist psycho-oncology interventions.



Type of Problem	Patients Affected at Start (n=106)	Patients Affected at End (n=50)	Chi Sq (p value
	No. (%)	No. (%)	
All Problems	102 (97)	47 (94)	0.39 (0.53)
Practical	40 (45)	18 (36)	0.04 (0.83)
Family	39 (37)	18 (36)	0.01 (0.92)
Spiritual/ Religious	4 (4)	3 (6)	0.39 (0.53)
Physical	91 (87)	39 (78)	1.51 (0.22)
Emotional (all types)	98 (93)	38 (76)	8.23 (0.004)**
Worry	74 (70)	23 (46)	8.19 (0.004)**
Sadness	47 (45)	14 (28)	3.81 (0.05)*
Depression	35 (33)	8 (16)	4.93 (0.02)*
Nervousness/ Anxiety	64 (61)	20 (40)	5.68 (0.02)*
Anger	38 (36)	9 (18)	5.14 (0.02)*
Loss of Enjoyment	35 (33)	9 (18)	3.79 (0.05)*
Concerns about the way I look	37 (35)	13 (26)	1.24 (0.27)



Most Helpful Aspect of Care	No. of Responses (n=57)	Examples (anonymised quotes)
Being able to talk openly	16	Feeling free to talk/ Being able to open up Discussing cancer and using the 'C' word Just talking – but in a controlled environment Discussing my problems in an objective way
Feeling supported/ listened to/ understood	14	Support with my illness Reassurance I won't be left alone Regular appointments with a sympathetic listener Being listened to without feeling judged
Advice on coping strategies	10	Clear ideas about how to improve my quality of life Practical/ CBT suggestions on coping Methods learned to deal with stress/ anxiety/ OCD Thinking differently about all aspects of my life
Professional is independent	8	Someone neutral to discuss my thoughts with Being able to talk about my fears with a person not involved in my physical care
Other	9	Talking to psychiatrist to review medication Getting test results Clarifying concerns about cancer treatment & surgery Helpfulness, kindness, approachability

REFERENCES

Blenkiron P, Hammill CA. What determines patients' satisfaction with their mental health care and quality of life? Postgraduate Medical Journal 2003; 79(932): 337-340.

http://pmj.bmjjournals.com/cgi/content/full/79/932/337

Department of Health (2011). Improving Outcomes: A Strategy for Cancer. Department of Health: London. https://www.gov.uk/government/publications/the-national-cancer-strategy

National Institute for Health and Clinical Excellence. 2004. Improving Supportive and Palliative Care for Adults with Cancer. London: NICE. http://www.nice.org.uk/csgsp
Yorkshire Cancer Network Psychology Group and Lead Cancer Nurses Group. YCN Guidelines for Screening and Responding to Cancer Distress using the Distress Thermometer and Problem Check List.

2011; NHS:UK. http://www.yorkshire-cancer-net.org.uk/html/downloads/ycn-distressthermometer-guidelines-2011.pdf

#### CONTACT

Dr Paul Blenkiron\*, Bootham Park Hospital, York, North Yorkshire, YO30 7BY, UK. paul.blenkiron@nhs.net Tel. 01904 725643