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Patient's supportive care needs beyond the end of cancer treatment: A prospective and longitudinal study

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Study aims

- Identify prevalence of unmet supportive care needs of cancer patients at the end of treatment and six months later
- Identify factors at the end of treatment that predict those patients with high unmet supportive care needs six months later

Study overview (1)

Design

- Prospective and longitudinal observational study

Potential subjects

- Breast cancer
- Colorectal cancer
- Gynaecological cancers
- Prostate cancer
- Non-Hodgkin's lymphoma

Study overview (2)

Sample size

- Estimated sample size of 1000 at T0
 - 50-100 patients from each diagnostic group at T1

Response rate

- T0 was 79%, $n=1425/1850$
- T1 was 82%, $n=1152/1410$

Timing of assessments

- T0: End of planned course of treatment
- T1: 6 months following T0

Study overview (3): Measures

- Supportive Care Needs Survey (SCNS) and Access to Ancillary Support Services module
- Hospital Anxiety and Depression Scale (HADS)
- Positive Affectivity and Negative Affectivity Scale (PANAS)
- Health Concerns Questionnaire (HCQ)
- Demographic and medical data

Results: Participant characteristics

Mean age: 61 years

Sex:

- Male **30%**
- Female **69%**

Diagnosis:

- Breast **56%**
- Prostate **23%**
- Bowel **9%**
- Gynae **6%**
- Lymphoma **5%**

Last treatment:

- Radiotherapy **80%**
- Chemotherapy **19%**

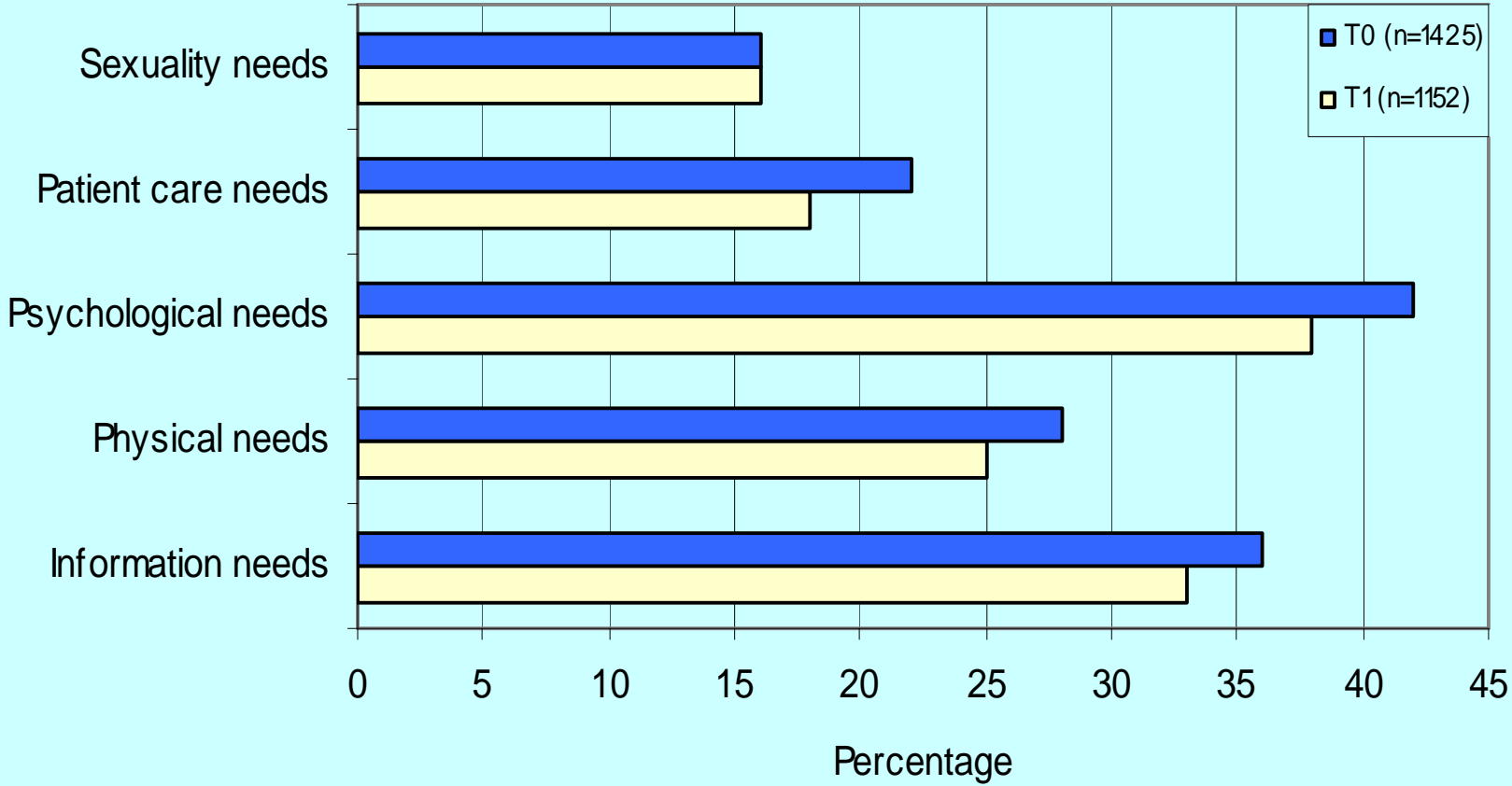
Hormone therapy:

- No **68%**
- Yes **32%**

Comorbid disease:

- No **56%**
- Yes **42%**

Prevalence of unmet need by SCNS dimension



Predictors of SCNS physical and daily living unmet needs

Variables	<i>p</i> value	Odds Ratio (OR) for each rank step	95% CI for OR	Odds Ratio (OR) for 100 rank steps
Baseline physical needs*	0.000	1.002	1.002-1.003	1.257
Baseline information needs*	0.021	1.001	1.000-1.001	1.069
Baseline PANAS negative affect*	0.001	1.001	1.000-1.001	1.099
Presence of comorbidity	0.005	1.596	1.155-2.205	-
Hormone treatment	0.009	1.565	1.121-2.186	-
Qualifications				
No formal qualifications	0.422	0.843	0.557-1.278	-
GCSE/A levels	0.011	0.581	0.382-0.885	-
Degree+ (ref)	0.027	1	-	-

Observed	Predicted		% correct
	No need	Moderate & severe need	
No need	734	38	95.1
Moderate & severe need	163	81	33.2
Overall %			80.2

Predictors of SCNS psychological unmet needs

Variables	<i>p</i> value	Odds Ratio (OR) for each rank step	95% CI for OR	Odds Ratio (OR) for 100 rank steps
Baseline psychological needs*	0.001	1.001	1.001 – 1.002	1.153
Baseline information needs*	0.031	1.001	1.000-1.001	1.066
Baseline PANAS Negative affect*	0.010	1.001	1.001-1.001	1.085
Baseline HADS Depression*	0.002	1.001	1.001-1.001	1.093
Baseline HCQ Fear of recurrence*	0.002	1.001	1.000-1.002	1.111
Age Bands				
19-59 yrs	0.488	1.153	0.771-1.725	-
60-67 yrs	0.012	1.664	1.118-2.474	-
>68 yrs (Ref)	0.029	1	-	-

Observed	Predicted		% correct
	No need	Moderate & severe need	
No need	534	104	83.7
Moderate & severe need	144	234	61.9
Overall %			75.6

Predictors of SCNS health system & information unmet needs

Variable	<i>p</i> value	Odds Ratio (OR) for each rank step	95% CI for OR	OR for 100 rank steps
Baseline information & health system needs*	0.000	1.002	1.002-1.003	1.239
Baseline patient care needs*	0.032	1.001	1.000-1.001	1.080
Baseline HADS anxiety*	0.076	1.001	1.001-1.001	1.054
Baseline HADS depression*	0.044	1.001	1.001-1.001	1.059
Hormone treatment	0.001	1.719	1.260-2.347	-

Observed	Predicted		% correct
	No need	Moderate & severe need	
No need	614	76	89.0
Moderate & severe need	177	149	45.7
Overall %			75.1

Summary of main results

- Significant minority of participants report multiple unmet needs
- Number of key factors at baseline identified that predict multiple moderate or severe unmet needs
 - Depression
 - Negative mood
 - Receiving hormone therapy
 - Younger age



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Acknowledgements

This project was supported with funds from:

- Macmillan Cancer Support
- King's College London

Many thanks to:

- **All the patients who participated**
- **Our collaborators**
 - NCRN research staff
 - All health care professionals who took part