

## **p1**/

# A prospective longitudinal study exploring the influence of psycho-social factors and self-management behaviours on HRQoL in men living with and beyond prostate cancer

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#### **1.Introduction**

Prostate cancer is the most prevalent type of cancer in men in developed countries (excluding nonmelanoma skin cancer) [1]. Whilst the physical aftermath of prostate cancer and treatment has been well documented [2]; little is known about the influence of psycho-social factors on health related quality of life, anxiety and depression in men affected by this disease [3]. Developing an understanding in this area can help to identify men who are at high risk of inadequate support and suggest directions for appropriately targeted interventions. Moreover, little is known about how men affected by prostate cancer mobilise social support in their self-management behaviours over time [4]. This is the first study to test the effects of coping and social support on HRQoL and emotional outcome, and assessed the self-management behaviours of men affected by prostate cancer overtime.

## **2.** Aim

To test the propositions of social support theory (see figure 1) and to detail the actual selfmanagement behaviours of men affected by prostate cancer over time.



Figure 1. Social Support Theoretical Model

### 3. Methods

A prospective, longitudinal survey recruited men affected by prostate cancer from 2 clinical centres in the UK. Participants completed standardised questionnaires (Prostate Cancer Specific Selfmanagement Log, EORTC C30 and PR25, Self-Efficacy Scale, Mental Adjustment to Cancer Scale, Hospital Anxiety and Depression Scale, Perceived Stress Scale and the Berlin Social Support Scale at time 1 (before commencing treatment) and at time 2 (6 months follow-up) Clinical and demographic data was collected. Statistical analysis was performed in SPSS version 17.0 using parametric tests and non-parametric tests.

#### References

[1] Jemal A, Bray F, Center MM, Ferlay J, Ward E, Forman D. Global cancer statistics. CA: A Cancer Journal for Clinicians. 2011;61:69-90. [2] Couper JW, Love AW, Dunai JV, Duchesne GM, Bloch S, Costello AJ, et al. The psychological aftermath of prostate cancer treatment choices: a comparison of depression, anxiety and quality of life outcomes over the 12 months following diagnosis. The Medical Journal Of Australia. 2009;190:S86-S9. [3] Paterson C, Jones M, Rattray J, Lauder W. Exploring the relationship between coping, social support and health-related quality of life for prostate cancer survivors: A review of the literature. European Journal of Oncology Nursing. 2013;17:750-9. [4] Paterson C, Jones M, Rattray J, Lauder W. Identifying the self-management behaviours performed by prostate cancer survivors: a systematic review of the evidence. Journal of Research in Nursing. 2014:1-16.

### 4. Findings

109 men newly diagnosed with prostate cancer were invited to take part (n=74 consented [67.9% participation rate]), no statistically significant difference was found for age, clinical stage or treatment modality between the consented and non-consented groups. A significant decline in HRQoL was observed at 6 months post diagnosis (p<0.001). Perceived social support before radical treatment was the most important social support construct that predicted better global quality of life and less depression at six months, explaining approximately 30% of the variance. Despite mens' self-management efforts (see table 1) and use of social support overtime, self-management self-efficacy significantly reduced at six months (p<0.05).

	Symptoms	Self-management behaviour
Urinary dysfunction	Urinary urgency Urinary incontinence Urinary frequency (during day) Urinary frequency (during the night) Blood in the urine	Took medication, found out inforused catheter sheaths, avoided thoughts and feelings, drank cradiary, washed incontinence pads
Bowel dysfunction	Constipation Diarrhoea Rectal pain Bleeding from anus	Took medication, took a high fik changed fluid intake, used pade diet, kept a toileting diary, took e
Sexual dysfunction	Impotence	Found out information, share limited alcohol intake, reduced s
Other	Ankle oedema	Went for a walk, took furosamid
Other	Infected surgical wound	Dressed wound, sought help from wound drainage bag, took antibi
Other	Poor sleeping patterns/problems with relaxation	Increased amitriptyline dosage, t
Other	Morning sickness	Took anti-sickness tablets
Other	Radiation burns to abdomen and penis	Applied gel given from doctor, a of penis after urinating

Table	1.	Self-M	anagemer	nt Beł	aviours
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### **5. Discussion/Conclusion**

These findings are in keeping with the Main Effect Social Support Theory, in that perceived social support at baseline predicted better HRQoL and less depression at 6 months. These findings provide support towards the development of a psycho-social intervention study to improve quality of life, self-management self-efficacy and improve patients' symptom management.

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rmation, increased fluid intake, used pads heavy lifting, reduced caffeine intake, shared inberry juice, reduced alcohol, kept a toileting s, mind over matter strategies

ibre diet, took califig/fybogel, applied anusol , ls, shared my thoughts and feelings, changed exercise

ed thoughts and feelings, took medication, stress

le pill, elevated feet when sitting

rom nurse and doctor, changed and emptied iotic tablets

took a large whisky before bed

applied savlon and aqueous cream, wiped tip

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