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**Article:**

Gilbert, A, Sebag-Montefiore, D, Davidson, S et al. (1 more author) (2015) Use of patient-reported outcomes to measure symptoms and health related quality of life in the clinic. *Gynecologic Oncology*, 136 (3). pp. 429-439. ISSN 0090-8258

<https://doi.org/10.1016/j.ygyno.2014.11.071>

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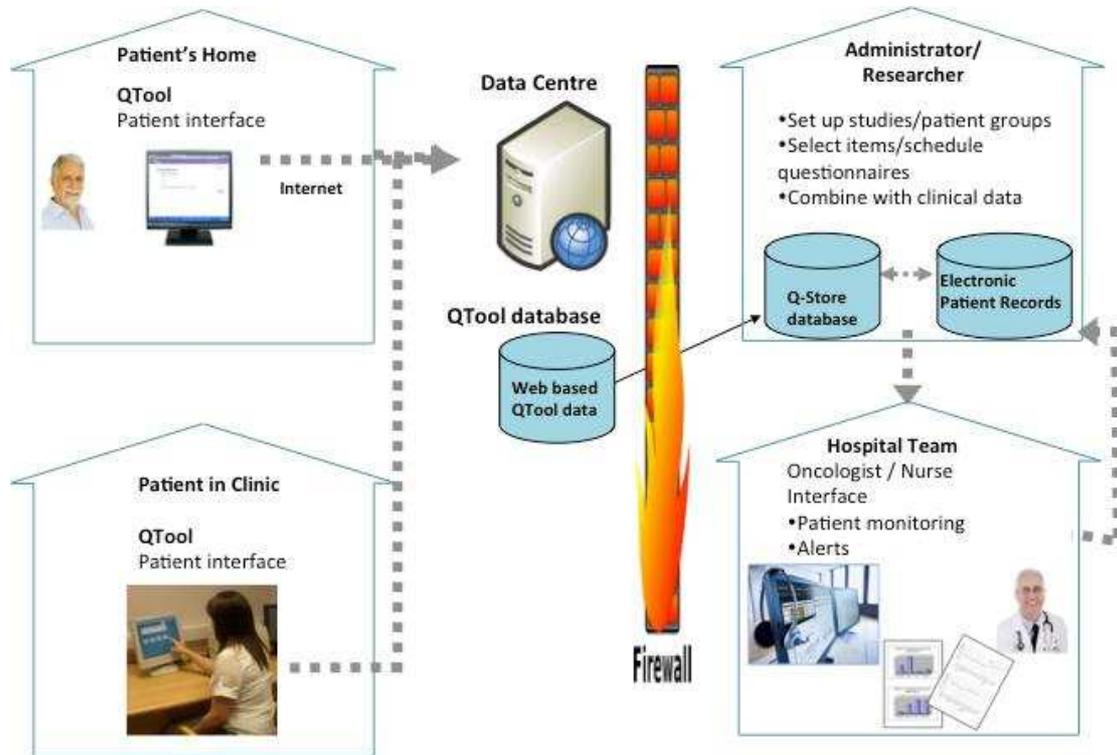
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Figure 1: QTool integrated system overview



### Figures 2 and 3: Individual case study

These figures presents a single PRO assessment of a 38 year old female patient with cervical cancer treated with chemoradiotherapy followed by brachytherapy 3 and half years ago. She completed the EORTC QLQ-C30 and CX24 as a single online assessment as part of a cross sectional study of patients on long-term follow up. The bar graphs indicate calculated scores for the different items. The red line on the symptom scales indicates a cut of point score above which the score indicates significant symptoms. On the functional scales if the score is below the black line this indicates significant function problems. Significant problems are highlighted in the table in red for individual items or calculated scores. The patient scored highly on a number of symptoms (pain, fatigue, urological and sexual problems) but reported good physical function. Explicit reference was made to each symptom in the medical records. Afterwards the consultant expressed how useful it was to know in advance of the consultation that there were multiple problems to help structure and prioritise her approach to the discussion. In addition, prior review of the results enabled the consultant to probe the patient about problems with abdominal cramping, bowel urgency and incontinence when she did not initially proffer any difficulties with her bowels following initial questioning. The consultant encouraged the patient to take the medication prescribed by the urology team for her urinary symptoms after alleviating anxiety about the side effects of the medication and recommended pelvic floor exercises to improve both her urinary and bowel urgency symptoms. For her hot flashes and mood symptoms a change to her anti-depressant medication was recommended, as previous changes to hormone replacement therapy had not improved symptoms. For her vaginal symptoms and dyspareunia a vaginal oestrogen cream was suggested and for her new onset pelvic pain and post-coital bleeding a pelvic MRI and full blood tests were requested to exclude tumour recurrence. As seen in other studies, there was no explicit reference to her symptoms of fatigue in the consultation records.

Figure 2: Graphical results

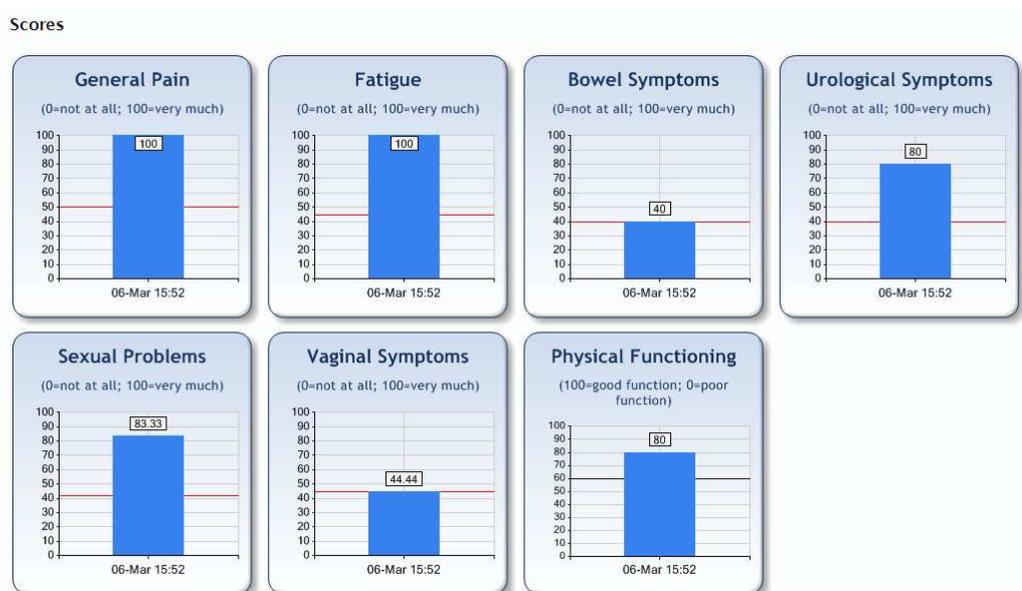


Figure 3: Tabular results

OPTIMAL Cervix Questionnaire (1.7)		
Scores	06-Mar-2014	
General Pain (0=not at all; 100=very much)	100	Weight Worries (0=not at all; 100=very much) 66.67
Fatigue (0=not at all; 100=very much)	100	Urinary Frequency (0=not at all; 100=very much) 100
Bowel Symptoms (0=not at all; 100=very much)	40	Urinary Urgency (0=not at all; 100=very much) 100
Urological Symptoms (0=not at all; 100=very much)	80	Urinary Incontinence (0=not at all; 100=very much) 33.33
Sexual Problems (0=not at all; 100=very much)	83.33	Dysuria (0=not at all; 100=very much) 100
Vaginal Symptoms (0=not at all; 100=very much)	44.44	Bladder emptying difficulties (0=not at all; 100=very much) 66.67
Physical Functioning (100=good function; 0=poor function)	80	Menopausal Symptoms (0=not at all; 100=very much) 100
Pain (0=not at all; 100=very much)	100	Sexual Worry (0=not at all; 100=very much) 100
Pain affecting ADLs (0=not at all; 100=very much)	100	Sexual Activity (0=not at all; 100=very much) 66.67
Low back pain (0=not at all; 100=very much)	100	Sexual Enjoyment (0=not at all; 100=very much) 66.67
Nausea Vomiting (0=not at all; 100=very much)	83.33	Vaginal dryness (0=not at all; 100=very much) 33.33
Diarrhoea (0=not at all; 100=very much)	0	Vaginal stenosis (0=not at all; 100=very much) 100
Constipation (0=not at all; 100=very much)	33.33	Vaginal shortening (0=not at all; 100=very much) 100
Bowel Urgency (0=not at all; 100=very much)	33.33	Dyspareunia (0=not at all; 100=very much) 100
Faecal Incontinence (0=not at all; 100=very much)	33.33	Vaginal inflammation (0=not at all; 100=very much) 66.67
Abdominal cramps (0=not at all; 100=very much)	100	Vaginal Discharge (0=not at all; 100=very much) 66.67
PR bleeding (0=not at all; 100=very much)	0	PV Bleeding (0=not at all; 100=very much) 0
Buttock Pain (0=not at all; 100=very much)	33.33	Lymphoedema (0=not at all; 100=very much) 33.33
Appetite Loss	66.67	Peripheral Neuropathy (0=not at all; 100=very much) 100
		Poor Body Image (0=not at all; 100=very much) 77.78
		Dyspnoea (0=not at all; 100=very much) 33.33
		Role Functioning (100=good function; 0=poor function) 66.67
		Social Functioning (100=good function; 0=poor function) 33.33
		Emotional Functioning (100=good function; 0=poor function) 25
		Financial Difficulties (0=not at all; 100=very much) 33.33