

Table S1 Search strategy

PubMed	Embase	CINAHL
“Neoplasms”[MeSH] OR tumor*[tiab] OR tumour*[tiab] OR neoplasm*[tiab] OR Carcinoma*[tiab] OR cancer*[tiab]	Malignant neoplasm/exp OR Malignant neoplasm OR Tumor* OR Tumour* OR Carcinoma* OR Cancer*	cancer* OR neoplasm* OR carcinoma* OR tumor* OR tumour*
palliative surgery[tiab]	Palliative surgery ti;ab	palliative surgery[tiab]
1000 results	1452 results	393 results

Table S2 Constructs measured by PROMS evaluating HRQL for palliative cancer surgery

Measure	Physical symptoms	Functional status	Psychiatric	Coping	Social	Structural
HRQL Caregiver	Change in appetite; Fatigue; General pain; Overall health; Sleep changes	Activities of daily living; Memory or concentration; Overall HRQL; Sexual well-being; Working	Anxiety; Depression; Happiness; Overall psychological well being	Bringing positive change; Difficulty coping; Feeling distress; Feeling fear; Feeling hope or optimism; Feeling isolated; Feeling purpose; Feeling supported/ unsupported; Feeling uncertainty/in control; Overall spiritual well being	Affecting personal relationships; Overall social well being	Financial stress
PDT	Fatigue; General pain; Oral intake overall; Sleep changes	Activities of daily living; Life logistics; Memory or concentration; Reproductive status; Sexual well-being; Working	Anhedonia; Anxiety; Depression	Feeling angry; Feeling burden; Feeling fear; Feeling grief or loss; Feeling isolated; Feeling purpose; General safety; Overall spiritual well being; Tobacco or substance use	Affecting personal relationships; Change in appearance; Prejudice/discrimination	Access to care; Communication with healthcare team; Financial stress
EORTC QLQ-C30	Change in appetite; Change in stools; Dyspnea; Fatigue; General pain; Nausea/vomiting; Overall health; Sleep changes	Activities of daily living; Memory or concentration; Overall HRQL; Walking; Working	Anxiety; Depression; Worry about health	Feeling angry	Affecting personal relationships; Leisure activities	Financial stress
QLQ-CR29	Abdominal pain; Change in stools; Change in urination; Dry mouth; General pain; Hair loss; Obstructive Symptoms; Skin symptoms; Taste change	Sexual well-being; Stoma care	Poor self image; Worry about health	Feeling embarrassed	Change in appearance	
FACT-G	Fatigue; General pain; Nausea/vomiting; Overall health; Sexual well-being; Sleep changes	Life logistics; Working	Anxiety; Depression; Worry about health	Difficulty coping; Feeling distress; Feeling hope or optimism; Feeling purpose; Feeling supported/unsupported; Life satisfaction; Overall emotional wellbeing	Affecting personal relationships; Leisure activities	Communication with healthcare team
EORTC QLQ ST022	Abdominal pain; Change in appetite; Dry mouth; Dysphagia; Hair loss; Obstructive Symptoms; Oral intake overall; Taste change	Enjoyment of food	Poor self image; Worry about health	Feeling embarrassed		
SF-8	Fatigue; General pain; Overall health	Activities of daily living; Walking	Anxiety; Depression	Feeling angry	Affecting personal relationships; Leisure activities	
PHQ-9	Change in appetite; Fatigue; Sleep changes	Memory or concentration	Anhedonia; Depression; Poor self image; Psychomotor change; Suicidal thoughts	Feeling burden		
EQ-5D-5L	General pain	Activities of daily living; Walking	Anxiety; Depression			
EuroHRQL-5D	General pain; Overall health	Activities of daily living; Walking	Anxiety; Depression			
CFT		Life logistics; Working				Financial stress
GOOSS	Oral intake overall					
NCI Fatigue	Fatigue					

CFT, Cancer Finance Tool; EORTC QLQ, European Organisation for Research and Treatment of Cancer Quality of Life Questionnaire; EQ-5D-5L, EuroQOL group 5 domain 5 level version; EuroHRQL, European Health Related Quality of Life; FACT-G, Functional Assessment of Cancer Therapy-G; GOOSS, Gastric Outlet Obstruction Scoring System; NCI, National Cancer Institute; PDT, Psychological Distress Thermometer; PHQ-9, Patient Health Questionnaire-9; SF-8, Short Form 8.

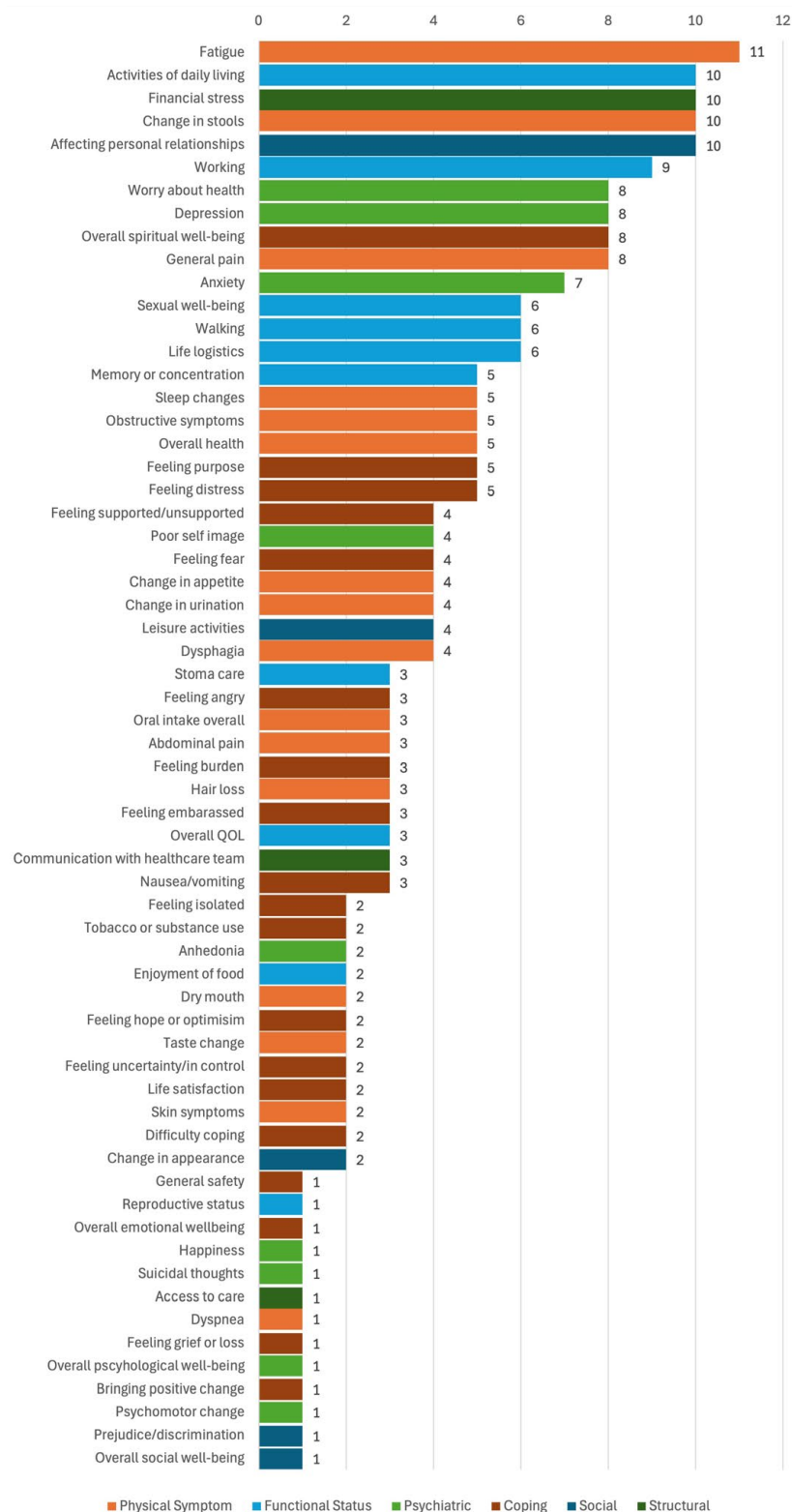


Figure S1 Subthemes in PROMs for palliative cancer surgery. All subthemes across 13 identified PROMs, ranked by number of items which assessed each sub-theme. Colors indicate 6 top-level codes: physical symptoms, functional status, psychiatric, coping, social, and structural.