Supplementary Material

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Methods S1: Preferred Reporting Items for Systematic reviews and Meta-Analyses extension for Scoping Reviews (PRISMA-ScR) Checklist

SECTION	ITEM	PRISMA-ScR CHECKLIST ITEM	REPORTED ON PAGE #
TITLE			
Title	1	Identify the report as a scoping review.	1
ABSTRACT			
Structured summary	2	Provide a structured summary that includes (as applicable): background, objectives, eligibility criteria, sources of evidence, charting methods, results, and conclusions that relate to the review questions and objectives.	1-2
INTRODUCTION			
Rationale	3	Describe the rationale for the review in the context of what is already known. Explain why the review questions/objectives lend themselves to a scoping review approach.	2
Objectives	4	Provide an explicit statement of the questions and objectives being addressed with reference to their key elements (e.g., population or participants, concepts, and context) or other relevant key elements used to conceptualize the review questions and/or objectives.	2
METHODS			
Protocol and registration	5	Indicate whether a review protocol exists; state if and where it can be accessed (e.g., a Web address); and if available, provide registration information, including the registration number.	N/A
Eligibility criteria	6	Specify characteristics of the sources of evidence used as eligibility criteria (e.g., years considered, language, and publication status), and provide a rationale.	2
Information sources*	7	Describe all information sources in the search (e.g., databases with dates of coverage and contact with authors to identify additional sources), as well as the date the most recent search was executed.	2
Search	8	Present the full electronic search strategy for at least 1 database, including any limits used, such that it could be repeated.	Multimedia Appendix Methods S2
Selection of sources of evidence†	9	State the process for selecting sources of evidence (i.e., screening and eligibility) included in the scoping review.	2
Data charting process‡	10	Describe the methods of charting data from the included sources of evidence (e.g., calibrated forms or forms that have been tested by the team before their use, and whether data charting was done independently or in duplicate) and any processes for obtaining and confirming data from investigators.	2-3
Data items	11	List and define all variables for which data were sought and any assumptions and simplifications made.	2-3
Critical appraisal of individual sources of evidence§	12	If done, provide a rationale for conducting a critical appraisal of included sources of evidence; describe the methods used and how this information was used in any data synthesis (if appropriate).	N/A
Synthesis of results	13	Describe the methods of handling and summarizing the data that were charted.	3
RESULTS			

SECTION	ITEM	PRISMA-ScR CHECKLIST ITEM	REPORTED ON PAGE #
Selection of sources of evidence	14	Give numbers of sources of evidence screened, assessed for eligibility, and included in the review, with reasons for exclusions at each stage, ideally using a flow diagram.	3-4
Characteristics of sources of evidence	15	For each source of evidence, present characteristics for which data were charted and provide the citations.	Multimedia Appendix 2
Critical appraisal within sources of evidence	16	If done, present data on critical appraisal of included sources of evidence (see item 12).	N/A
Results of individual sources of evidence	17	For each included source of evidence, present the relevant data that were charted that relate to the review questions and objectives.	Multimedia Appendix 2
Synthesis of results	18	Summarize and/or present the charting results as they relate to the review questions and objectives.	3-10
DISCUSSION			
Summary of evidence	19	Summarize the main results (including an overview of concepts, themes, and types of evidence available), link to the review questions and objectives, and consider the relevance to key groups.	10-11
Limitations	20	Discuss the limitations of the scoping review process.	11
Conclusions	21	Provide a general interpretation of the results with respect to the review questions and objectives, as well as potential implications and/or next steps.	11
FUNDING			
Funding	22	Describe sources of funding for the included sources of evidence, as well as sources of funding for the scoping review. Describe the role of the funders of the scoping review.	11

JBI = Joanna Briggs Institute; PRISMA-ScR = Preferred Reporting Items for Systematic reviews and Meta-Analyses extension for Scoping Reviews.

* Where *sources of evidence* (see second footnote) are compiled from, such as bibliographic databases, social media platforms, and Web sites.

† A more inclusive/heterogeneous term used to account for the different types of evidence or data sources (e.g., quantitative and/or qualitative research, expert opinion, and policy documents) that may be eligible in a scoping review as opposed to only studies. This is not to be confused with *information sources* (see first footnote).

‡ The frameworks by Arksey and O'Malley (6) and Levac and colleagues (7) and the JBI guidance (4, 5) refer to the process of data extraction in a scoping review as data charting.

§ The process of systematically examining research evidence to assess its validity, results, and relevance before using it to inform a decision. This term is used for items 12 and 19 instead of "risk of bias" (which is more applicable to systematic reviews of interventions) to include and acknowledge the various sources of evidence that may be used in a scoping review (e.g., quantitative and/or qualitative research, expert opinion, and policy document).

From: Tricco AC, Lillie E, Zarin W, O'Brien KK, Colquhoun H, Levac D, et al. PRISMA Extension for Scoping Reviews (PRISMAScR): Checklist and Explanation. Ann Intern Med. 2018;169:467–473. doi: 10.7326/M18-0850.

Methods S2: Search Strategy

Web of Science

Clinical routine:
(TI=("clinical care" OR "patient care" OR "health care" OR "clinical routine" OR "routine care")) OR AB=("clinical care" OR "patient care" OR "health care" OR "clinical routine" OR "routine care")

ePRO:
(TI=(electronic OR electronical OR web OR webbased OR web-based OR "web based" OR multimedia OR multimedial OR internet OR computer OR online OR distance OR mobile OR phone OR smartphone OR cellphone OR digital OR handheld OR tablet OR interactive OR ePRO or e-PRO OR remote)) OR AB=(electronic OR electronical OR web OR webbased OR web-based OR "web based" OR multimedia OR multimedial OR internet OR computer OR online OR distance OR mobile OR phone OR smartphone OR cellphone OR digital OR handheld OR tablet OR interactive OR ePRO or e-PRO OR remote)

PRO/QOL
(TI=("patient-reported" OR "patient reported" OR PRO OR "self-reported" OR "self reported" OR "quality of life" OR QOL OR HRQOL OR HRQL OR symptom OR symptoms)) OR (AB=("patient-reported" OR "patient reported" OR PRO OR "self-reported" OR "self reported" OR "quality of life" OR QOL OR HRQOL OR HRQL OR symptom OR symptoms)

Cancer:
(TI=(oncolog* OR neoplas* OR cancer*)) OR AB=(oncolog* OR neoplasm* OR cancer*)

PubMed:

("quality of life"[Title/Abstract] OR "health related quality of life"[Title/Abstract] OR "life quality"[Title/Abstract] OR "health outcomes"[Title/Abstract] OR "health status"[Title/Abstract] OR "patient reported symptom"[Title/Abstract] OR "patient reported outcomes"[Title/Abstract] OR "patient reported outcome"[Title/Abstract] OR "PRO"[Title/Abstract] OR "PROs"[Title/Abstract] OR "HRQL"[Title/Abstract] OR "QOL"[Title/Abstract] OR "HRQOL"[Title/Abstract] OR "self report"[Title/Abstract] OR "self assessment"[Title/Abstract] OR "self disclosure"[Title/Abstract])

AND ("clinical care"[Title/Abstract] OR "patient care"[Title/Abstract] OR "health care"[Title/Abstract] OR "clinical routine"[Title/Abstract] OR "routine care"[Title/Abstract] OR "clinical practice"[Title/Abstract] OR "clinical cancer care"[Title/Abstract] OR "daily practice"[Title/Abstract] OR "routine monitoring"[All Fields])

AND ("oncology"[Title/Abstract] OR "cancer"[Title/Abstract] OR "tumor"[Title/Abstract] OR "neoplasm"[Title/Abstract])

AND ("electronic"[Title/Abstract] OR "ePRO"[Title/Abstract] OR "e-PRO"[Title/Abstract] OR "electronical"[Title/Abstract] OR "web"[Title/Abstract] OR "webbased"[Title/Abstract] OR "multimedia"[Title/Abstract] OR "multimedial"[Title/Abstract] OR "internet"[Title/Abstract] OR "computer"[Title/Abstract] OR "online"[Title/Abstract] OR "distance"[Title/Abstract] OR "mobile"[Title/Abstract] OR "phone"[Title/Abstract] OR "smartphone"[Title/Abstract] OR "cellphone"[Title/Abstract] OR "digital"[Title/Abstract] OR "handheld"[Title/Abstract] OR "tablet"[Title/Abstract] OR "interactive"[Title/Abstract] OR "remote"[Title/Abstract])

Methods S3: Follow-up Survey Case Report Form

1. Has the ePRO assessment/system only been used in the context of the published study or also outside of the original study or in other contexts?

( ) only used in the published study
( ) used in the published study and in further applications/contexts

2. Is the ePRO assessment/system we have referenced in our email still in use? (Select one answer)

( ) Yes
( ) No

IF NO, please only answer the questions 3 – 4

3. Why do you no longer use the ePRO assessment/system? (Multiple answers possible)

( ) Technical or IT problems (e.g., problems with the ePRO system)
( ) Lack of user-friendliness of the system
( ) Change in clinical needs
( ) Lack of funding
( ) Lack of use of the tool in clinical practice
( ) Logistical challenges (e.g., no dedicated personnel or resources)
( ) Other (please specify): _____

4. What would be necessary for you to consider using ePRO assessments or an ePRO system again? (e.g., would require dedicated funding, administrative support, more patient engagement, more user-friendly software, ...)

Please specify: _____

IF YES, please only answer the questions 5 – 9

5. For how long have you been using the ePRO assessment/system?

Please specify: _____ year(s)

6. What are the questionnaires (patient-reported outcome measures, PROMs) assessed in your ePRO assessment/system used for? (Multiple answers possible)

( ) Clinical Routine: Screening Tools (One-time PRO assessment with feedback to clinician)
( ) Clinical Routine: Monitoring Tools (data collection over time with feedback to clinician)
( ) Clinical Routine: Patient-centered care (data collection with feedback to patients and clinicians)
( ) Clinical Routine: Decision aids (e.g., decision aid that presents PRO information to patients)
( ) Clinical Routine: Facilitating multidisciplinary team communications
( ) Evaluating quality of care (Pooled data from patients from within the practice)
( ) Research or clinical studies
( ) Other (please specify): _____

7. On average, how many patients participate in the ePRO assessments each month? (i.e., the number of patients that complete a questionnaire or use the system) (Select one answer)

( ) 0 to 50 patients
( ) 51 to 200 patients
( ) 201 to 500 patients
( ) More than 500 patients

8. How satisfied are you with the ePRO assessments/system? (Select one answer)

( ) Not at all
( ) A little bit
( ) Quite a bit
( ) Very much

9. If you could improve some aspects of the ePRO assessments or the software, what would you improve?

Please specify: _____

Table S1: Location of cancer centres

Country	Number of occurrences
USA	104
United Kingdom	26
The Netherlands	23
Canada	16
Germany	15
Sweden	13
Australia	12
Austria	11
Italy	9
Denmark	7
Multiple countries	9
France	6
Norway	6
Republic of Korea	6
Finland	5
Belgium	4
Iran	4
Switzerland	4
China	3
Japan	3
not reported	3
Taiwan	3
Brazil	2
Singapore	2
Spain	2
Chile, Iceland, Portugal, Thailand, Uruguay	1 (each)

Table S2: ePRO Software Tool Names

Tool name	*N* of publications
CHES	16
Interaktor	10
Patient Care Monitor	8
PROMPT-Care	7
Advanced Symptom Management System (ASyMS)	6
Epic MyChart	6
Kaiku	6
Carevive	5
eRAPID	5
Noona	5
OncoKompas	4
REDCap	4
STAR	4
KLIK	3
OncoLink	3
PatientViewpoint	3
PROFILES	3
Sisom	3
AmbuFlex	2
AMTRA	2
Cancer self-management system (CanSelfMan)	2
CAPRI	2
consilium care app	2
EirV3	2
Electronic Self-report Assessment - Cancer (ESRA-C)	2
Electronic symptom management program (eSyM)	2
Epic	2
HN-STAR	2
imPROVE	2
MSK Engage	2
MyChristie-MyHealth	2
OncoQuest	2

PACE (TM)	2
PediQUEST	2
Pit-a-Pat	2
SAM	2
SPARK	2
Symptom Assessment and Management Intervention (SAMI-L) System	2
Transmural Oncologal Support (TOS)	2
+Contigo	1
3H-guardian	1
Handheld computer system (HCS)	1
ACESO	1
AMOR Mama	1
BD4QoL	1
Be-with-You	1
Breast cancer patient support system (BPSS)	1
Breast cancer self-management support (BCSMS)	1
bridges	1
Cancer Web Portal	1
CANKADO	1
Capturing and Analyzing Sensor and Self-Report Data for Clinicians and Researchers (COMPASS)	1
CEASE	1
ChemOtheRapy Assistant (CORA)	1
Choice ITPA	1
Circadian Questions (CQ)	1
Clinet	1
CMyLife	1
Comfort	1
COMPASS-CP CFC	1
Composite Holistic Needs Assessment Adaptive Tool-Prostate (CHAT-P)	1
Computerized Symptom Capture Tool (C-SCAT)	1
Connect	1
CORA	1
Cureety	1

DAPROCAdata	1
Digital BioMarkers for Clinical Impact (DigiBioMarC™)	1
Digital Supportive Care Awareness and Navigation (D-SCAN)	1
Distress Assessment and Response Tool (DART)	1
Docoboweb	1
elcss-ql	1
Electronic Patient Questionnaire (EPQ)	1
E-MOSAIC palm	1
Engage	1
e-OncoSalud	1
EPE-LE	1
ePRO-CTCAE app	1
ePROhub	1
Gemstracker	1
Ghasedak	1
GIMEMA-ALLIANCE platform	1
Guardian Angel	1
Handheld Symptom Management (HSM)	1
Healthcare Monitor	1
HealthWeaver Mobile	1
HeNeA	1
HOPE	1
ICOnnecta't	1
IMPROVED	1
Improving Patient Experience and Health Outcome Collaborative (iPEHOC)	1
InSight Care	1
INSPIRE	1
Interactive Symptom Assessment and Collection (ISAAC)	1
Kræftværket	1
LivingWith	1
Lung Cancer Care	1
mBraze	1
MoodUP	1
My University Clinic (MUC)	1

NeuroDetect 1.0	1
NOOM, Walkon, Efilcare	1
Onco-TreC	1
Oral care mobile app	1
Outcome Registry Intervention and Operation Network (ORION)	1
Outcomes4Me	1
OWise	1
PainCheck	1
PainRELife	1
Patient Assessment, Care & Education (PACE) System™	1
Patient Voices	1
PatientConcept	1
PaTOS	1
PiiA	1
Polaris Oncology Survivorship Transition (POST) System	1
Postoperative symptom interventiontool (POSIT)	1
PRISMS	1
PRO-CTCAE Administration System (mPROS)	1
PROMetheus	1
PROQOL	1
Prospective Outcomes and Support Initiative (POSI)	1
PROSS	1
PRO-TECT	1
Putting Patients First (PPF)	1
QoL-Profiler	1
QTool	1
RESPONSE System	1
RetinoQuest	1
RT-CAMSS	1
ScreenIT	1
SIS.NET	1
Smart After-Care	1
SmartSurvivor	1
Strength Through Insight	1

Symptom Care and Management System (SCMS)	1
Symptom Care at Home (SCH)	1
Text4Hope-Cancer Care	1
The ACCESS system	1
THRIVE	1
Tonic	1
UNC PRO Core system	1
Upper Digestive Disease Application (UDD App)	1
VPROMS	1
WalkON	1
WebChoice	1
WHOMS	1
not reported	55

Table S3: Questionnaires used in the ePRO Software Tool

Questionnaires	*N* of publications
EORTC questionnaires (C30 and/or modules)	77
PRO-CTCAE	65
EQ-5D	28
Own development	27
FACIT questionnaires	26
ESAS	23
Distress Thermometer (& Problem List)	22
Hospital Anxiety and Depression Scale (HADS)	19
PROMIS questionnaires [a]	15
Patient Health Questionnaire [a]	14
Memorial Symptom Assessment Scale[a]	11
MD Anderson Symptom Inventory (MDASI)[a]	10
Pediatric Quality of Life Inventory (PedsQL)[a]	8
Expanded Prostate Cancer Index Composite (EPIC)[a]	7
Shorth Form Health Survey[a]	7
Patient Care Monitor[a]	6
Supportive Care Needs Survey	6
Visual Analogue Scale[a]	6
BREAST-Q	5
Numerical Rating Scale[a]	5
Brief Pain Inventory (BPI)	4
Insomnia Severity Index (ISI)	4
Generalized Anxiety Disorder (GAD-7)[a]	3
Patient Generated Subjective Global Assessment (PG-SGA)	3
Social Difficulties Inventory (SDI-21)	3
Symptom Distress Scale (SDS)	3
Bladder Cancer Index (BCI)	2
Brief Illness Perception Questionnaire (B-IPQ)	2
Canadian Problem Checklist (CPC)	2
Diverticulitis Quality of Life (DV-QOL)	2
e-Diary	2
Hornheider Screening Instrument (HSI)	2
Patient Activation Measure (PAM-13)	2

Quality of Life in Adult Cancer Survivors (QLACS)	2
Rotterdam Symptom Checklist – Activity Subscale (RSC-Activity)	2
Self-Efficacy for Managing Chronic Disease	2
Self-Efficacy Scale	2
Strengths and Difficulties Questionnaire (SDQ)	2
Symptom Screening in Pediatrics Tool (SSPedi)	2
15D	1
Adherence to Refills and Medications Scale (ARMS-7)	1
Adult Global Health 10 survey (Global-10 v.1.0/1.1)	1
AET medication Adherence (adapted from MAQ)	1
Arthritis Self-Efficacy Scale	1
ASyMSB-YG PDA (personal digital assistant) questionnaire	1
Beck's Depression Inventory (BDI)	1
Breast Cancer and Lymphedema Symptom Index (BCLE-SEI)	1
Brief Fatigue Inventory (BFI)	1
Cancer Behavior Inventory - Brief (CBI-B)	1
Cancer Fatigue Scale (CFS)	1
Cancer survivor identity question	1
Cancer Survivor Profile for breast cancer survivors (CSPro-BC)	1
Cancer-related Dysfunctional Beliefs about Sleep	1
CARERQOL-7D	1
CCCQ	1
CEASE tool	1
Chemotherapy Symptom Assessment Scale	1
Chemotherapy Toxicity Self-Assessment Questionnaire	1
Colorectal cancer module	1
Communicative and Critical Health LiteracyScale (CCHL)	1
Constipation severity measure	1
Constructs Empowering Outcomes questionnaire	1
Control Preference Scale	1
CTX Toxicity Self-Assessment Questionnaire (CTAQ)	1
DASH	1
Demands of BMT Inventory	1
Disability Index [HAQ-DI]	1

ECOG	1
Edmonton Classification System for Cancer Pain (ECS–CP)	1
FACES pain scale	1
Fear of Progression Questionnaire-Short Form	1
Fertility Concerns Questionnaire	1
Functional Health Literacy Scale (FHL)	1
Functional Oral Intake Scale (FOIS)	1
General Self-Efficacy scale	1
General, Physical Well-Being score	1
GHQ-28	1
Global-10	1
Health Education Impact Questionnaire (heiQ)	1
Health Perceptions Questionnaire	1
Health utility score (HUS)	1
HRQL-PSY	1
HSCT-specific symptom inventory	1
Illness Perception Questionnaire-Revised (IPQ-R)	1
Individual Care scale	1
International Physical Activity Questionnaire (IPAQ)	1
International Prostate Symptom Score (IPSS)	1
IPAQ-SF	1
Karnofsky index	1
LASA	1
Lung Cancer Symptom Scale	1
MAC	1
MARS-1	1
Mental adjustment to cancer scale	1
Mini Nutritional Assessment (MNA)	1
Multidimensional Fatigue Inventory (MFI)	1
NSQ	1
Oxaliplatin-Associated Neurotoxicity Questionnaire (OANQ)	1
Pain and Discomfort	1
Pain Catastrophizing Scale	1
Pain Self-Efficacy Questionnaire (PSEQ)	1

Pain-Therapy Impact Questionnaire (pain-TIQ scale)	1
Patient Assessment of Chronic Illness Care questionnaire (PACIC)	1
Patient Concern Inventory	1
Patient Satisfaction Questionnaire (PSQ-18)	1
Patient-Reported Symptom Monitoring (PRSM)	1
Pearlin & Schooler Mastery Scale	1
Pediatric Distress Thermometer	1
Perceived Efficacy Patient-Physician Interactions scale	1
Personal Health Questionnaire Depression Scale (PHQ-8)	1
Physical performance (ECOG)	1
Polaris Oncology Survivorship Transition Patient Assessment	1
PRO - Lung symptom questionnaire	1
Profile of Mood States	1
PRO-Onc	1
Quality of Recovery (QoR-9)	1
Sense of Coherence Scale	1
Short Inflammatory Bowel Disease Questionnaire (SIBDQ)	1
Sisom	1
SOC	1
SPARC	1
Standard depression and anxiety screening tools	1
State-Trait Anxiety Inventory Form Y	1
SUPPH	1
Symptom Checklist-90-R	1
The Cancer and Treatment Distress scale	1
The Ferrans and Powers Quality of Life Index Cancer Version III (QLI)	1
UDD questionnaire	1
UKONS 24-hour triage tool	1
UWQOLv4	1
Ways of Coping (WAYS)	1
World Health Organization Disability Assessment Schedule (WHODAS)	1
World Health Organization oral toxicity scale	1
World Health Organization Well-Being Index (WHO-5)	1

[a] all versions

References: References included in the review

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