



Measuring Registered Nurses’ Scope of Practice in Primary Care: A Scoping Review of Available Self-Reported Questionnaires

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Table 1.		Search strategy
Database	Keywords	Database-specific naming (MeSH, subject headings)
CINAHL Plus with full text	(TI ((measur* OR assess* OR questionnaire* OR evaluat* OR survey*)) OR AB ((measur* OR assess* OR questionnaire* OR evaluat* OR survey*))) AND (TI nurs* OR AB nurs*) AND (TI (("General practi*" OR "primary care" OR "primary healthcare" OR "primary health care" OR "family practice")) OR AB (("General practi*" OR "primary care" OR "primary healthcare" OR "primary health care" OR "family practice"))) AND (TI (("scope of practice" OR role* OR competenc* OR activit*)) OR AB (("scope of practice " OR role* OR competenc* OR activit*)))	((MH "Self Assessment") OR (MH "Questionnaires+") OR (MH "Surveys") OR (MH "Evaluation") OR (MH "Evaluation Research") OR (MH "Self Report") OR (MH "Nursing Practice, Research-Based") OR (MH "Nursing Audit")) AND ((MH "Nurses+") AND ((MH "Primary Health Care") OR (MH "Physicians, Family") OR (MH "Family Practice") OR (MH "Family Nurses") OR (MH "Family Nursing"))) AND ((MH "Scope of Practice+") OR (MH "Nursing Role") OR (MH "Nursing Practice") OR (MH "Professional Competence+"))
MEDLINE with full text	(AB (measur* OR assess* OR questionnaire* OR evaluat* OR survey*) OR TI (measur* OR assess* OR questionnaire* OR evaluat* OR survey*)) AND (AB nurs* OR TI nurs*) AND (AB ("general practi*" OR "primary care" OR "primary healthcare" OR "primary health care" OR "family practice") OR TI ("general practi*" OR "primary care" OR "primary healthcare" OR "primary health care" OR "family practice")) AND (AB ("scope of practice " OR role* OR competenc* OR activit*) OR TI ("scope of practice " OR role* OR competenc* OR activit*))	((MH "Surveys and Questionnaires") OR (MH "Self Report") OR (MH "Nursing Evaluation Research") OR (MH "Self- Assessment") OR (MH "Clinical Audit")) AND (MH "Nurses+") AND ((MH "Primary Care Nursing") OR (MH "General Practice+") OR (MH "General Practitioners") OR (MH "Physicians, Primary Care") OR (MH "Primary Health Care") OR (MH "Physicians, Family")) AND ((MH "Scope of Practice") OR (MH "Nurse's Role") OR (MH "Professional Competence") OR (MH "Professional Practice") OR (MH "Clinical Competence") OR (MH "Professional Role"))
PubMed	("measur*" [Title/Abstract] OR "assess*" [Title/Abstract] OR "questionnaire*" [Title/Abstract] OR "evaluat*" [Title/Abstract] OR "survey*" [Title/Abstract]) AND (nurs* [Title/Abstract]) AND ("general practi*" [Title/Abstract] OR "primary care" [Title/Abstract] OR "primary healthcare" [Title/Abstract] OR "primary health care" [Title/Abstract] OR "family practice" [Title/Abstract]) AND ("scope of practice" [Title/Abstract] OR "role*" [Title/Abstract] OR "competenc*" [Title/Abstract] OR "activit*" [Title/Abstract])	("Scope of Practice" [MeSH Terms] OR "Nurse's Role" [MeSH Terms] OR "Professional Practice" [MeSH Terms] OR "Professional Role" [MeSH Terms] OR "Clinical Competence" [MeSH Terms] OR "Professional Competence" [MeSH Terms]) AND ("Primary Health Care" [MeSH Terms] OR "Primary Care Nursing" [MeSH Terms] OR "physicians, primary care" [MeSH Terms] OR "General Practice" [MeSH Terms] OR "General Practitioners" [MeSH Terms] OR "physicians, family" [MeSH Terms]) AND ("Surveys and Questionnaires" [MeSH Terms] OR "Self Report" [MeSH Terms] OR "Self-Assessment" [MeSH Terms] OR "Nursing Evaluation Research" [MeSH Terms] OR "Clinical Audit" [MeSH Terms]) AND ("Nurses" [MeSH Terms])

Database	Keywords	Database-specific naming (MeSH, subject headings)
Embase	(measur*:ab,ti OR assess*:ab,ti OR questionnaire*:ab,ti OR evaluat*:ab,ti OR survey*:ab,ti) AND (nurs*:ab,ti) AND ('general practi*:ab,ti OR 'primary care':ab,ti OR 'primary healthcare':ab,ti OR 'primary health care':ab,ti) OR ('scope of practice':ab,ti OR role*:ab,ti OR competenc*:ab,ti OR activit*:ab,ti)	("questionnaire"/exp OR "self report"/exp OR "self evaluation"/exp OR "nursing evaluation research"/exp OR "clinical audit"/exp) AND ("nurse"/mj) AND ("primary health care"/exp OR "general practitioner"/exp OR "general practice"/exp) AND ("scope of practice"/exp OR "professional practice"/de OR "nursing role"/de OR "competence"/exp)
Cochrane	(((measur*) OR (assess*) OR (questionnaire*) OR (evaluat*) OR (survey*)):ti,ab,kw) AND (((nurs*)):ti,ab,kw) AND (((general NEXT practi*) OR (primary NEXT care) OR (primary NEXT healthcare) OR (primary NEXT health NEXT care) OR (family NEXT practice)):ti,ab,kw) AND (((scope NEXT of NEXT practice) OR (role*) OR (competenc*) OR (activit*)):ti,ab,kw)	((MeSH descriptor: [Surveys and Questionnaires] explode all trees) OR (MeSH descriptor: [Self Report] explode all trees) OR (MeSH descriptor: [Nursing Evaluation Research] explode all trees) OR MeSH descriptor: [Self-Assessment] this term only) OR (MeSH descriptor: [Clinical Audit] explode all trees)) AND (MeSH descriptor: [Nurses] explode all trees) AND ((MeSH descriptor: [Primary Care Nursing] explode all trees) OR (MeSH descriptor: [General Practice] this term only) OR (MeSH descriptor: [General Practitioners] this term only) OR (MeSH descriptor: [Physicians, Primary Care] explode all trees) OR (MeSH descriptor: [Primary Health Care] this term only) OR (MeSH descriptor: [Physicians, Family] this term only)) AND ((MeSH descriptor: [Scope of Practice] explode all trees) OR (MeSH descriptor: [Nurse's Role] explode all trees) OR (MeSH descriptor: [Professional Competence] this term only) OR (MeSH descriptor: [Professional Practice] this term only) OR (MeSH descriptor: [Clinical Competence] this term only) OR (MeSH descriptor: [Professional Role] this term only))

MeSH = medical subject headings.

Table 2. Overview of SRQs assessing nursing scope of practice in primary care

Authors	Years	Country	Population	Name of questionnaire	Questionnaire type	Concept evaluated	Number of items
Upton and Upton	2006	UK	Nurse working in hospital and community care	Evidence-Based Practice Questionnaire	Specific	Evidence-based practice	24 items
Gerrish et al.	2006	UK	Hospital nurse, CNs in primary care organization	Developing Evidence-Based Practice Questionnaire (DEPQ)	Specific	Evidence-based practice	49 items
Carryer et al.	2010	New Zealand	Primary health nurses and GP	Modified patient Assessment of Chronic Illness Care (MPACIC)	Specific	Patient assessment of chronic illness care	20 items
Kerdmuang et al.	2014	Thailand	Nurses working in Thai primary care units	Occupational Health Service Competency Scale (OHSC-S)	Specific	Occupational health service competency	120 items
Harris-Haywood et al.	2014	US	Nurse, GP, physician assistants and nurse practitioner in primary care	The Cultural Competence Health Practitioner Assessment (CCHPA-67)	Specific	The cultural competence health	67 items
Duprez et al.	2016	Belgium	Students and nurses worked in in-patient units in a general or academic hospital or worked in an outpatient clinic	Self-efficacy and Performance in Self-Management Support (SEPSS)	Specific	Self-efficacy and performance in self-management support	36 items
Kosteniuk et al.	2017	Canada	Nurse, nurse practitioner, registered psychiatric nurse and licensed practical nurse	Primary Health Care Engagement (PHCE) Scale	Specific	Primary healthcare engagement	28 items
Jaruseviciene et al.	2019	Lithuania	Primary care nurse and GP	Collaboration scale between community nurses (CNs) and general practitioners (GPs) in primary health-care teams (COPAN scale)	Specific	Collaboration between nurse and GP	27 items (long version)

Authors	Years	Country	Population	Name of questionnaire	Questionnaire type	Concept evaluated	Number of items
Ruzafa-Martínez et al.	2020	Spain	Registered nurse with one year of experience providing direct care to patients in hospital or primary care settings	Evidence Based Practice Competency Questionnaire, Professional version EBP-COQ Prof	Specific	Evidence-based practice competency	35 items
Lemetti et al.	2021	Finland	Hospital nurses and primary healthcare nurses	The Nurse-to-Nurse Collaboration Between Sectors (NN-CoBS) Instrument	Specific	Nurse-to-nurse collaboration	86 items
García-Salvador et al.	2021	Spain	Nurse working in primary healthcare	Investigation into Nurses' Care Understanding of End-of-Life (INCUE)	Specific	Nurses' care understanding of end-of-life	53 items
Braithwaite et al.	2022	Canada	Nurse in primary healthcare	The Actual Scope of Practice-Primary Care (ASCOP-PC) questionnaire	Generic	Actual scope of practice	27 items

CN = community nurse; GP = general practitioner; SRQ = self-reported questionnaire.

Table 3.

Authors	Dimensions measured																				
	Administration and funding	Appropriate infrastructure	Connected care	Accessible care	Community adaptiveness and social accountability	Comprehensive team-based care with family physician leadership	Continuity of care	Patient- and family-partnered care	Measurement, continuous quality improvement and research	Training, education and continuing professional development	Professionalism	Leadership	Clinical practice	Communication	Quality assurance, evaluation and research	Collaboration and partnership	Attitude	Ethics	Cultural sensibility and equity	Knowledge	
Upton et al. (2006)									x			x	x		x		x				x
Gerrish et al. (2006)		x							x		x		x		x						x
Carryer et al. (2010)					x		x						x	x						X	
Kerdmuang et al. (2014)			x		x		x		x	x	x		x	x	x	x	x	x			
Harris-Haywood et al. (2014)					x		x		x		x		x	x	x	x				x	
Duprez et al. (2016)				x	x		x	x					x			x					
Kosteniuk et al. (2017)		x	x	x	x		x	x	x				x		x	x				x	
Jaruseviciene et al. (2019)	x	x	x		x					x		x		x							
Ruzafa-Martínez et al. (2020)							x	x		x			x	x	x	x	x				x
Lemetti et al. (2021)		X	x		x		x	x	x			x	x	x	x	x					x
García-Salvador et al. (2021)					x		x				x		x	x		x		x			x
Braithwaite et al. (2022)			x			x	x	x	x	x	x	x	x	x	x	x					