Table S1. Reasons for inconsistencies

Revised content	Reason						
1. Review title	Taking into consideration the inclusive						
	scope of the article, encompassing both						
	nursing staff and nursing students, a						
	deliberate revision has been undertaken						
	in the title adjustment, transitioning from						
	the initial term "nursing staff" to the						
	more comprehensive descriptor "nursing						
	personnel".						
2. Funding	In the PROSPERO registration, the						
	Funding sources/sponsors were initially						
	documented as "None." However, it is						
	important to note that during the course						
	of the study, we secured pertinent						
	funding support. Consequently, the						
	Funding section in the protocol was						
	subsequently revised to accurately reflect						
	this development.						

Table S2. Search strategy for PubMed

1	#1	nurs*
2	#2	((((((((((((((((((((((((((((((((((((((
3	#3	((((((((((((((((((((((((((((((((((((((
4	#4	(report[tiab] OR reported[tiab] OR reporting[tiab] OR rated[tiab] OR rating[tiab] OR ratings[tiab] OR based[tiab] OR assessment[tiab] OR assessments[tiab] OR disability[tiab] OR function[tiab] OR functional[tiab] OR functions[tiab] OR subjective[tiab] OR utility[tiab] OR utilities[tiab] OR wellbeing[tiab] OR well being[tiab]) AND (index[tiab] OR indices[tiab] OR instrument[tiab] OR instruments[tiab] OR measures[tiab] OR questionnaire[tiab] OR profiles[tiab] OR scales[tiab] OR scales[tiab] OR scales[tiab] OR scales[tiab] OR surveys[tiab] OR surveys[tiab])

#5

(instrumentation[sh] OR methods[sh] OR "Validation Studies"[pt] "Comparative Study"[pt] OR "psychometrics"[MeSH] OR psychometr*[tiab] OR clinimetr*[tw] OR clinometr*[tw] OR "outcome assessment (health care)"[MeSH] OR "outcome assessment"[tiab] OR "outcome measure*"[tw] OR "observer variation" [MeSH] OR "observer variation" [tiab] OR "Health Status Indicators" [Mesh] OR "reproducibility of results" [MeSH] OR reproducib*[tiab] OR "discriminant analysis" [MeSH] OR reliab*[tiab] OR unreliab*[tiab] OR valid*[tiab] OR "coefficient of variation"[tiab] OR coefficient[tiab] OR homogeneity[tiab] OR homogeneous[tiab] OR "internal consistency"[tiab] OR (cronbach*[tiab] AND (alpha[tiab] OR alphas[tiab])) OR (item[tiab] AND (correlation*[tiab] OR selection*[tiab] OR reduction*[tiab])) OR agreement[tw] OR precision[tw] OR imprecision[tw] OR "precise values"[tw] OR testretest[tiab] OR (test[tiab] AND retest[tiab]) OR (reliab*[tiab] AND (test[tiab] OR retest[tiab])) OR stability[tiab] OR interrater[tiab] OR inter-rater[tiab] OR intrarater[tiab] OR intra-rater[tiab] OR intertester[tiab] OR inter-tester[tiab] OR intratester[tiab] OR intra-tester[tiab] OR interobserver[tiab] OR interobserver[tiab] OR intra-observer[tiab] OR OR intraobserver[tiab] intertechnician[tiab] OR inter-technician[tiab] OR intratechnician[tiab] OR intra-technician[tiab] OR interexaminer[tiab] OR inter-examiner[tiab] OR intraexaminer[tiab] OR intra-examiner[tiab] OR interassay[tiab] OR interassay[tiab] OR intraassay[tiab] OR intra-assay[tiab] OR interindividual[tiab] OR inter-individual[tiab] OR intraindividual[tiab] OR intra-individual[tiab] OR interparticipant[tiab] OR inter-participant[tiab] OR intraparticipant[tiab] OR intra-participant[tiab] OR kappa[tiab] OR kappa's[tiab] OR kappas[tiab] OR repeatab*[tw] OR ((replicab*[tw] OR repeated[tw]) AND (measure[tw] OR measures[tw] OR findings[tw] OR result[tw] OR results[tw] OR test[tw] OR tests[tw])) OR generaliza*[tiab] OR generalisa*[tiab] OR concordance[tiab] OR (intraclass[tiab] AND correlation*[tiab]) OR discriminative[tiab] OR "known group"[tiab] OR "factor analysis"[tiab] OR "factor analyses"[tiab] OR "factor structure"[tiab] OR "factor structures"[tiab] OR dimension*[tiab] OR subscale*[tiab] OR (multitrait[tiab] AND scaling[tiab] AND (analysis[tiab] OR analyses[tiab])) OR "item discriminant"[tiab] OR "interscale correlation*"[tiab] OR error[tiab] OR errors[tiab] OR "individual variability"[tiab] OR "interval variability"[tiab] OR "rate variability"[tiab] OR (variability[tiab] AND OR values[tiab])) (analysis[tiab] OR (uncertainty[tiab] AND (measurement[tiab] OR measuring[tiab])) OR "standard error measurement"[tiab] OR sensitiv*[tiab] OR responsive*[tiab] OR (limit[tiab] AND detection[tiab]) OR "minimal detectable concentration"[tiab] OR interpretab*[tiab] OR ((minimal[tiab] OR minimally[tiab] OR clinical[tiab] OR clinically[tiab]) AND (important[tiab] OR significant[tiab] OR detectable[tiab]) AND (change[tiab] OR difference[tiab])) OR (small*[tiab] AND (real[tiab] OR detectable[tiab]) AND (change[tiab] OR difference[tiab])) OR "meaningful change"[tiab] OR "ceiling effect"[tiab] OR "floor effect"[tiab] OR "Item response model"[tiab] OR IRT[tiab] OR Rasch[tiab] OR "Differential item

		functioning"[tiab] OR DIF[tiab] OR "computer adaptive testing"[tiab] OR "item
		bank"[tiab] OR "cross-cultural equivalence"[tiab])
6	#6	("addresses"[Publication Type] OR "biography"[Publication Type] OR "case
		reports"[Publication Type] OR "comment"[Publication Type] OR
		"directory"[Publication Type] OR "editorial"[Publication Type] OR
		"festschrift"[Publication Type] OR "interview"[Publication Type] OR
		"lectures"[Publication Type] OR "legal cases"[Publication Type] OR
		"legislation"[Publication Type] OR "letter"[Publication Type] OR
		"news"[Publication Type] OR "newspaper article"[Publication Type] OR
		"patient education handout"[Publication Type] OR "popular works"[Publication
		Type] OR "congresses"[Publication Type] OR "consensus development
		conference"[Publication Type] OR "consensus development conference,
		nih"[Publication Type] OR "practice guideline"[Publication Type]) NOT
		("animals"[MeSH Terms] NOT "humans"[MeSH Terms])
7	#7	#1 AND #2 AND #3 AND #4 AND #5 NOT #6

Note: "*" to include all derivatives of that word or concept.

Table S3. Search strategy for Chinese databases

1	#1	TKA = 护理 OR TKA = 护士 OR TKA = 护生
2	#2	TKA = 健康教育能力 OR TKA = 患者教育能力 OR TKA = 健康教育胜
		任力 OR TKA = 患者教育胜任力
3	#3	SU = 评估 OR SU = 测量 OR SU = 评价 OR SU = 收集 OR SU = 调查
		OR SU = 工具 OR SU = 问卷 OR SU = 量表 OR SU = 仪器 OR SU = 研
		究
4	#4	TKA = 信度 OR TKA = 效度 OR TKA = 反应度 OR TKA = 内部一致性
		OR TKA = 稳定性 OR TKA = 相关系数 OR TKA = 克朗巴赫系数 OR
		TKA = 探索性因子分析 OR TKA = 验证性因子分析 OR TKA = 探索性
		因素分析 OR TKA = 验证性因素分析 OR TKA = 检验 OR TKA = 结果
5	#5	#1 AND #2 AND #3 AND #4

Note: TKA = title/abstract; SU = title/abstract/keywords.

Instrument	Developer(s)/	Construct	Target	Mode of	Recall	(Sub)scale	Response	Range of	Original	Available
name	year	(s)	population	administration	period	(s) (number	options	scores/scoring	language	translations
	developed					of items)				

		Popu	lation		Instrumer	nt administration	l	
Instrument	Ref	N	Age Mean (SD, range) yr	Gender % female	Setting	Country	Language	Response rate
A	1							
	2							
	3							
В	1							

Table S6. Rating the measurement properties of the instruments

Supplemental material

Table So. Rating the measure		Study 1			Study 2			Study 3					OVERALL		
Instrument	RATIN G	RATIN G	RATING	RATIN G	RATIN G	RATING	RATIN G	RATIN G	RATING	OVERAL L RATING	OVERAL L RATING	OVERAL L RATING	QUALITY OF EVIDENCE	QUALITY OF EVIDENCE	QUALITY OF EVIDENCE
2.2.5.	+/-/?	+/-/?	+/-/?	+/-/?	+/-/?	+/-/?	+/-/?	+/-/?	+/-/?	+/-/?	+/-/?	+/-/?	High, moderate, low, very low	High, moderate, low, very low	High, moderate, low, very low
	rater 1	rater 2	consensus	rater 1	rater 2	consensus	rater 1	rater 2	consensus	rater 1	rater 2	consensus	rater 1	rater 2	consensus
Structural validity															
internal consistency															
Cross-cultural validity															
Measurement invariance															
Reliability															
Measurement error															
Criterion validity															
Construct validity															
Responsiveness															

Note: "+" = sufficient; "-" = insufficient; "?" = indeterminate.

Table S6-1. Rating of the content validity of instruments

Table S6-1. Rating o	the content var	idity of mist	ruments					Content Valid	ity					
			Releva	nce ¹			Compre	ehensiveness ¹		C	omprehensibili	ity ¹		CONTENT VALIDITY RATING ²
Instrument (Reference – study type/Rating of reviewers)	1. Are the included items relevant for the construct of interest?	2. Are the included items relevant for the target population of interest?	3. Are the included items relevant for the context of use of interest?	4. Are the response options appropriat e?	5. Is the recall period appropriat e?	RELEVAN CE RATING ²	6. Are all key concept s included?	COMPREH ENSIVENE SS RATING ²	7. Are the PROM instructions understood by the population of interest as intended?	8. Are the PROM items and response options understood by the population of interest as intended?	9. Are the PROM items appropriatel y worded?	10. Do the response options match the question?	COMPREH ENSIBILIT Y RATING ²	
A (Ref 1-instrument development study)														
A (Ref 2 - Content validity study)														
A (Ref 3 - Content validity study)														
Rating of reviewers														
B (Ref 1- instrument development study)														
B (Ref 2 - Content validity study)														
Rating of reviewers														

								1
			1					1
			1					1
			1	I		1		1

Note: 1. Rating for the 10 criteria for relevance, comprehensiveness, comprehensibility can be $+/-/\pm/?$: '+'= sufficient, '-'= insufficient, '±' = inconsistent, '?' = indeterminate.

^{2.} The RELEVANCE, COMPREHENSIVENESS, COMPREHESIBILITY, AND CONTENT VALIDITY rating can be +/-/±/?: '+'= sufficient, '-'= insufficient, '+'= inconsistent, '?'=indeterminate.

Instrument (ref)	Percentage of missing items and percentage of missing total scores	eiling	Scores and change scores available for relevant (sub)groups	Minimal important change (MIC) or minimal important difference (MID)	
Instrument A (ref 1)					
Instrument A (ref 2)					
Instrument A (ref 3)					
Instrument B (ref 1)					
•••••					

Table S8. Information on feasibility of instruments

Feasibility aspects	Instrument A	Instrument B	Instrument C	Instrument D
Patient's comprehensibility				
Clinician's comprehensibility				
Type and ease of				
administration				
Length of the instrument				
Completion time				
Patient's required mental and				
physical ability level				
Ease of standardization				
Ease of score calculation				
Copyright				
Cost of an instrument				
Required equipment				
Availability in different				
settings				
Regulatory agency's requirement for approval				

Table S9 Quality of studies on measurement properties

		measurement properties	Content validity ²									Со
Instrument		Asking patients			Asking experts		Internal consistency	Cross-cultural validity	Reliability	Measurement error	Criterion validity	Converg validit
	Relevance	Comprehensiveness	Comprehensibility	Relevance	Comprehensiveness							valluit
A												
В												
		-1										

Note: 1. Quality: V = very good, A = adequate, D = doubtful, I = inadequate.

2. Given that the criteria and rating systems for evaluating the content validity of instruments are different from those for other measurement properties, the quality results of content validity are not included in this table but separately shown in following Table S8-1.

Table S9-1. Quality¹ of the instrument development

Supplemental material

			•	PROM design	1		TOTAL PROM					
		eneral design requ	irements		Concept elicitation ²	Total PROM design	General design requirements	Comprehensibility	Comprehensiveness	Total CI study	DEVELOPM ENT	
Instrument	Clear construct	Clear origin of construct	Clear target population for which the PROM was developed	Clear context of use	context of developed in		0	CI study performed in sample representing the target population				
A												
В												

Note: 1. Quality: V = very good, A = adequate, D = doubtful, I = inadequate.

^{2.} The concept elicitation will not be further rated if the instrument(s) was not developed in the sample representing the target population.

^{3.} Empty cells indicate that a CI study (or part of it) was not performed.

Table S10. Quality of the evidence for measurement properties of the instruments (Summary of findings)

Instrument	Content validity		Structural validity		Internal consistency		Cross-cultural validity		Reliability		Measurement error		Criterion validity		Hypotheses testing		Responsiveness	
	Overall Rating ¹	Quality of Evidence ³	Overall Rating ²	Quality of evidence ³	Overall rating ²	Quality of evidence ³	Overall rating ²	Quality of evidence ³	Overall rating ²	Quality of evidence ³	Overall rating ²	Quality of evidence ³	Overall rating ²	Quality of evidence ³	Overall rating ²		Overall rating ²	Quality of evidence ³
Instrument A																		
Instrument B																		
Instrument C																		

Note: 1. Overall ratings for the content validity (relevance, comprehensiveness, comprehensibility) can only be $+/-/\pm$: '+'= sufficient, '-'= insufficient, '\percent' = inconsistent.

^{2.} Overall ratings for other measurement properties can be $+/-/\pm/?$: '+'= sufficient, '-'= insufficient, '±'= inconsistent, '?'=indeterminate.

^{3.} Ratings for quality of evidence: High, Moderate, Low, Very low.