

Appendix E

Overall quality of measurement properties per index instrument

Criteria used		
Level	Rating	Criteria
Strong	+++ or ---	Consistent findings in multiple studies of good methodological quality OR in one study of excellent methodological quality
Moderate	++ or --	Consistent findings in multiple studies of fair methodological quality OR in one study of good methodological quality
Limited	+ or -	One study of fair methodological quality
Conflicting	+/-	Conflicting findings
Unknown	?	Only studies of poor methodological quality OR only indeterminate results from multiple studies regardless of methodological quality
not assessed	0	not assessed

	Index Instrument (n=209)	Internal Consistency	Reliability	Measurement Error	Content Validity	Structural Validity	Construct Validity	Criterion Validity	Responsiveness
1.	4-point Ordinal Alliance Scale (4PAS)	+	0	0	0	+	+	0	0
2.	Agnew Relationship Measure	--	0	?	?	+	?	0	0
3.	Alberta Continuity of Services Scale-Mental Health	+/-	0	?	+++	+/-	++	0	0
4.	Ambulatory Care Experiences Survey	?	0	0	0	0	0	0	0
5.	Assertive Community Treatment (TACT) Scale	+	-	0	++	+	+	0	0
6.	Assessment of Chronic Illness Care (ACIC)	+/-	0	0	?	?	?	0	?
7.	Better Jobs Better Care PCC instrument	?	0	0	++	0	++	0	0
8.	California Psychotherapy Alliance Scales (CALPAS)	+/-	?	0	?	+/-	++	0	0
9.	Cancer services integration	+++	0	0	++	+++	?	0	0
10.	Care Continuity Instrument	++	?	0	?	+/-	0	0	?
11.	Care Process Self Evaluation Tool (CPSET)	++	-	0	+++	+/-	?	?	0
12.	Care Transition Measure (CTM)	+/-	0	?	+/-	+/-	+/-	?	0
13.	Caregivers' Satisfaction with Stroke Care Questionnaire: C-SASC	++	0	0	0	?	0	0	0
14.	CARES observation tool (COT)	?	0	0	?	0	0	0	0
15.	CareWell in Hospital Questionnaire	?	+	0	?	0	?	0	?
16.	Caring Assessment Tool (CAT)	+++	?	0	?	+++	-	?	0
17.	Case Management Quality Questionnaire (CMQQ)	+++	0	0	?	?	0	0	0
18.	Client Perception of Coordination Questionnaire (CPCQ)	++	0	0	++	?	++	0	0
19.	Client-Centred Questionnaire	+++	0	0	+++	+++	0	0	0
20.	Client-Centred Rehabilitation Questionnaire	?	+	0	+	?	+	0	0
21.	Clinical Risk Monitoring Instrument	0	0	0	+++	0	0	0	0
22.	Clinician Support for Patient Activation Measure (CS-PAM)	?	0	0	0	?	0	0	0
23.	CollaboRATE	0	--	0	+++	?	0	?	?
24.	Collaboration And Satisfaction About Care Decisions	+	0	0	+++	?	+	0	0
25.	Communication Assessment Instrument	++	0	0	+++	+/-	0	0	0
26.	Components of Primary Care Index (CPCI)	+/-	0	?	?	+/-	+/-	+	0
27.	CONNECT	?	--	0	+/-	0	-	0	0
28.	Consultation and Relational Empathy (CARE) measure	+/-	--	0	+++	+/-	+/-	0	0

	Index Instrument (n=209)	Internal Consistency	Reliability	Measurement Error	Content Validity	Structural Validity	Construct Validity	Criterion Validity	Responsiveness
29.	Consumer Assessment of Behavioral Health Survey (CABHS)	+++	0	0	?	?	0	+++	0
30.	Consumer Assessment of Health Plans Survey (CAHPS)	+/-	+/-	0	+/-	+/-	++	0	0
31.	Consumer Perceptions of Care (CPC)	+++	--	0	+++	---	0	?	0
32.	Consumer Quality Index (CQI)	+/-	---	0	+/-	+/-	+/-	0	0
33.	Continuity of Care - User Measure (CONTINUUM)	---	+	0	?	?	++	0	0
34.	Continuity of Care in Children's Mental Health (C3MH)	+++	++	0	?	?	+/-	?	0
35.	Continuity of Care Measure (CCM)	?	0	0	0	?	?	0	?
36.	Continuity of Care Practices Survey	?	0	0	?	0	++	0	0
37.	Coordination of Handoff Effectiveness Questionnaire (CHEQ)	?	0	0	+++	0	0	0	?
38.	CPSO Peer Assessment	+	0	0	+++	+	?	0	0
39.	Cuestionario Continuidad Asistencial Entre Niveles de Atención (CCAENA)	+++	0	0	?	++	++	0	0
40.	Cultural competence assessment instrument	++	++	0	?	++	++	0	0
41.	DELTA service user assessment	?	0	0	+	?	0	0	0
42.	Diabetes Continuity of Care Scale (DCCS)	?	+	0	?	?	-	0	0
43.	Distrust of the healthcare system (DHS)	+++	0	0	0	0	++	0	0
44.	Doctor-Patient Scale	--	0	0	?	?	?	0	0
45.	Dual Diagnosis Capability in Healthcare Settings (DDCHCS)	?	?	0	0	0	0	0	0
46.	Embedded Patient-Centered Care Scale	?	0	0	+	0	-	0	0
47.	ENDOCARE questionnaire (ECQ)	-	0	0	+	+	0	0	0
48.	EUROPEP	+/-	0	?	?	?	?	0	0
49.	Experienced continuity of care for diabetes mellitus (ECC-DM)	+++	++	?	0	?	0	?	0
50.	Facilitation of Patient Involvement Scale (FPI)	?	?	0	?	0	?	0	0
51.	Family Assessment of Treatment at End of Life	++	0	0	?	?	++	++	0
52.	Family perceived involvement (F-INVOLVE)	+	+	0	++	-	+	0	0
53.	Four Habits Coding Scheme (4HCS)	?	+/-	0	0	?	+	0	0
54.	General Practice Assessment Questionnaire (GPAQ)	+/-	+	0	?	+/-	+	0	0
55.	General Practice Assessment Survey (GPAS)	+/-	?	?	?	+++	+/-	?	0
56.	General practice clinical linkages interviews (GPC-LI)	+	?	?	0	+	?	0	0
57.	General Practice Patient Survey	?	-	0	?	0	0	0	0
58.	Geriatric Care Environment Scale (GCES)	++	0	0	?	+	-	0	0
59.	Giving Youth a Voice questionnaire (GYV)	?	+	0	?	0	+	0	0
60.	Group-Based Medical Mistrust Scale (GBMMS)	+	0	0	0	+	+	0	0
61.	Handoff clinical evaluation exercise (CEX)	?	?	0	+++	0	0	0	0
62.	Handover Performance Tool (HPT)	+	+	0	?	+	?	0	0
63.	Health Care Climate Questionnaire (HCCQ)	?	0	0	?	0	--	0	0
64.	Health Care Communication Questionnaire (HCCQ)	+	0	?	?	?	+	0	0
65.	Health Care relationship (HCR) Trust Scale	+++	--	0	?	+++	0	0	0
66.	Health Care System Distrust Scale	+++	0	0	+++	---	++	--	0
67.	Heart Continuity of Care Questionnaire (HCCQ)	+/-	0	0	?	---	++	+	0

	Index Instrument (n=209)	Internal Consistency	Reliability	Measurement Error	Content Validity	Structural Validity	Construct Validity	Criterion Validity	Responsiveness
68.	Helping Alliance Questionnaire (HAQ)	+/-	0	0	?	+/-	+/-	0	0
69.	Hospital Survey of Patient Safety Culture (HSOPSC)	--	0	0	0	++	0	0	0
70.	Human Service integration Measure	0	0	0	?	?	?	?	0
71.	Hybrid tool from 3 questionnaires	?	0	0	?	+	0	0	0
72.	Index of GP integration (GP questionnaire)	+++	0	0	?	?	?	0	0
73.	Individualized Care Instrument (ICI)	?	0	0	0	?	?	0	0
74.	Individualized Care Inventory	+/-	0	0	0	?	0	0	0
75.	Individualized Care Scale (ICS)	++	-	0	?	+/-	+/-	0	0
76.	Inpatient-Treatment Alliance Scale (ITAS)	+	-	0	?	+	0	0	0
77.	Internal Participation Scale (IPS)	?	0	0	0	?	?	0	0
78.	Interpersonal Processes of Care version (IPC-II)	+/-	0	?	?	?	?	0	0
79.	Jefferson Scale of Physician Empathy	++	0	0	?	++	--	--	0
80.	Jones Synergy Scale	+	0	0	?	+	0	+	0
81.	Kim Alliance Scale	++	0	0	?	?	++	0	0
82.	Learners' Perceptions Survey—Primary Care (LPS-PC)	0	0	0	?	?	0	0	0
83.	Matched-pair instrument	++	0	?	+++	++	0	0	0
84.	Measure of Experienced Continuity of Care (MECC)	?	+	0	?	0	?	0	0
85.	Measure of Patient-Centered Communication (MPCC)	0	-	0	0	?	0	0	0
86.	Measure of Processes of Care (MPOC)	+/-	+/-	0	+/-	+/-	+/-	+/-	0
87.	Measure of Trust in Insurers	++	0	0	?	?	++	0	0
88.	Measuring instrument for individualized care	?	+	0	?	?	++	0	0
89.	Medical Care Questionnaire (MCQ)	+++	0	0	+++	---	++	0	0
90.	Medical Communication Competence Scale	++	0	0	?	?	0	0	0
91.	Medical Home Index (MHI)	?	+	0	+++	?	?	0	0
92.	Mental Health Statistics Improvement Program (MHSIP)	+++	0	0	?	?	0	+++	0
93.	Multicountry Survey Study Responsiveness Questionnaire	---	--	0	+++	+++	++	0	0
94.	Multidimensional Trust in Health Care Systems Scale (MTHCSS)	+	0	0	?	+	-	0	0
95.	National health and health services use questionnaire	?	0	?	0	0	?	?	0
96.	Nijmegen Continuity Questionnaire (NCQ)	+++	++	0	++	+++	+/-	0	0
97.	Nursing Practice Models Questionnaire	-	0	0	?	+	0	0	0
98.	Observing patient involvement scale (OPTION)	++	-	0	?	--	++	0	0
99.	Oncology Patients' Perception of the Quality of Nursing Care	+	0	0	?	+	0	0	0
100.	Outcomes index (measure of person-centered planning)	?	?	0	?	?	0	0	0
101.	OutPatient Experiences Questionnaire (OPEQ)	+++	++	0	?	?	+++	0	0
102.	Pain Care Quality (PainCQ)	++	0	?	+/-	--	--	0	0
103.	Parent's Perceptions of Primary Care measure (P3C)	++	0	0	+++	++	?	0	0
104.	Parents' Perceptions of Continuity Scale (PPCS)	?	0	0	?	0	--	0	0
105.	Patient Activation Measure (PAM)	+/-	?	?	?	?	+++	++	0
106.	Patient Acuity Case management Evaluation (PACE tool)	0	?	0	+++	?	?	0	0
107.	Patient Assessment of Chronic Illness Care (PACIC)	+/-	+/-	?	+/-	+/-	+++	0	?

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108.	Patient Career Diary	--	0	?	+++	?	0	0	0
109.	Patient Continuity of Care Questionnaire (PCCQ)	++	0	0	0	++	++	0	0
110.	Patient Experiences Questionnaire (PEQ)	+/-	--	0	+++	+++	+/-	0	0
111.	Patient Perception of Patient-Centeredness Questionnaire (PPPCQ)	?	?	0	0	+	-	-	?
112.	Patient Perceptions of Integrated Care Survey	-	0	0	+	?	+	0	0
113.	Patient Reactions Assessment	++	0	0	?	?	++	0	0
114.	Patient Responses to Nursing Behaviours (PRNB)	++	0	0	+++	-	?	0	0
115.	Patient trust in community pharmacists (TRUST-Ph)	+++	0	0	+++	----	++	0	0
116.	Patient-centered family-focused care (PCFFC)	+++	0	?	?	+/-	0	0	0
117.	Patient-Centered Medical Home tool (PCMH)	0	0	0	0	?	0	0	?
118.	Patient-Centered Observation Form (PCOF)	?	0	0	0	0	0	0	0
119.	Patient-centered questionnaire (PCQ)	+/-	?	0	+++	+/-	+/-	0	0
120.	Patient-centered score sheet	0	?	0	0	0	0	--	?
121.	Patient-centred care competency (PCC)	+++	?	0	?	----	0	0	0
122.	Patient-centred instrument for assessment of quality of breast cancer care	+	0	0	+	+	0	0	0
123.	Patient-Centredness Multi-Choice Questionnaire x (PMQX)	0	+	0	0	0	?	0	0
124.	Patient-Doctor Depth of Relationship Scale	?	+	0	++	+	+	0	0
125.	Patient-Doctor Relationship Questionnaire	+/-	--	0	?	++	0	?	0
126.	Patient-relevant hierarchy of needs	?	0	0	?	+	0	0	0
127.	Patient-reported Interpersonal Processes of Care	+++	0	0	++	?	++	0	0
128.	Patient's Perception of Continuity (PC)	+	0	0	?	-	0	?	0
129.	Pediatric Patient-Family-Centered Care Benchmarking Survey	+	0	0	+++	+	0	0	0
130.	Pediatric Trust in Physician Scale (Pedi-TiPS)	?	0	0	0	0	++	0	0
131.	Perceived Involvement in Care Scale	+	0	0	0	+	+	0	0
132.	Perceptions of Involvement in Care Scale	-	0	0	0	?	-	0	0
133.	Person-centered Care Assessment Tool (P-CAT)	+++	+++	0	+/-	+/-	+	0	0
134.	Person-centered care of Older People with Cognitive Impairment in Acute Care (POPAC)	++	-	0	?	++	0	0	0
135.	Person-centred Climate Questionnaire (PCCQ)	+++	+/-	0	+/-	+++	0	0	0
136.	Person-Centred Health Care for Older Adults Survey	+++	0	0	?	+++	0	0	0
137.	Person-directed Care (PDC)	++	0	0	+++	++	++	0	0
138.	Pharmacy Service Orientation Measure	?	0	0	0	0	0	0	0
139.	Picker Commonwealth Patient Centered Care Questionnaire	0	?	0	+	0	0	0	0
140.	Postoperative Handover Assessment Tool (PoHAT)	0	+	0	+	0	?	0	0
141.	Prescriptions, Ready to reenter the community, Placement, Assurance of Safety, Realistic Expectations, Empowerment, Directed to appropriate services (PREPARED)	0	0	0	?	++	++	--	0
142.	Primary Care Assessment Survey (PCAS)	+/-	-	?	?	+/-	+/-	0	0
143.	Primary Care Assessment Tool (PCAT)	+/-	+/-	?	?	+/-	+/-	+++	0
144.	Primary Care Behavioral Health Provider Adherence Questionnaire (PPAQ)	?	0	0	?	?	+	+	0

	Index Instrument (n=209)	Internal Consistency	Reliability	Measurement Error	Content Validity	Structural Validity	Construct Validity	Criterion Validity	Responsiveness
145.	Processes Index (measure of person-centered planning)	?	?	0	?	?	0	0	0
146.	Prostate Care Questionnaire for Patients (PCQ-P)	--	--	0	+++	?	--	0	0
147.	Quality Care Questionnaire–End of Life (QCQ–EOL)	++	0	0	?	++	0	0	0
148.	Quality from Patient's Perspective	?	0	0	?	+++	0	0	0
149.	Quality of Care Through the Patients' Eyes (QUOTE)	+++	+/-	0	+/-	+/-	+++	++	0
150.	Quality of Dying and Death (QODD)	+++	0	0	0	---	?	0	0
151.	Quality of End-of-life care and Satisfaction with Treatment (QUEST)	?	-	0	++	0	+	0	0
152.	Quality of end-of-life communication (QOC)	+++	0	0	+++	+++	++	0	0
153.	Quality of Family Experience (QUAL-E FAM)	-	-	0	+++	?	?	0	0
154.	Quality of Psychiatric Care	++	0	0	0	++	++	0	0
155.	Race-based Medical Mistrust	++	0	0	0	?	?	0	0
156.	Relational and management continuity of care Questionnaire	+	0	0	?	?	0	0	0
157.	Relational Communication Scale	?	-	0	0	+/-	?	0	0
158.	Revised Health Care System Distrust Scale	+	0	0	+++	?	-	0	0
159.	Rochester Participatory Decision-Making Scale (RPAD)	0	++	0	0	0	--	0	0
160.	Safety Net Medical Home Scale (SNMHS)	?	0	0	?	?	0	0	0
161.	Scale of Functional Integration	?	0	0	?	?	?	0	0
162.	Scale To Assess Therapeutic Relationships in Community Mental Health Care (STAR)	0	0	0	0	++	--	0	0
163.	Service Quality Questionnaire	+	0	0	+++	?	0	0	0
164.	SERVQUAL	+/-	?	?	?	+/-	++	0	0
165.	Survivor Unmet Needs Survey (SUNS)	+++	+/-	0	+++	+/-	+/-	+++	0
166.	Systematic Culture Inquiry On Patient safety in primary care (SCOPE)	---	0	0	+++	+++	--	0	0
167.	Systematic Monitoring of Male Circumcision Scale-Up	0	0	0	0	--	0	0	0
168.	Team Emergency Assessment Measure (TEAM)	+	-	0	?	+	0	0	0
169.	Team Evaluation and Assessment Measure (TEAM)	?	0	0	++	0	-	0	0
170.	The Human Connection Scale	+	0	0	0	?	-	0	0
171.	Therapy Alliance Scale	+/-	0	0	0	?	+++	0	0
172.	Trust in Nurses Scale	+/-	0	0	++	--	+	0	0
173.	Trust in Oncologist Scale (TiOS)	+++	++	0	+++	+++	0	0	0
174.	Trust in Physicians Scale	+/-	+	0	?	+/-	+/-	0	0
175.	Trust in the Medical Profession	+++	0	0	+++	+++	++	0	0
176.	Tucker Culturally Sensitive Healthcare Inventory (T-CSHCI)	+/-	++	0	+	?	?	0	0
177.	Unnamed 1	0	0	0	?	?	?	0	0
178.	Unnamed 12	?	+	0	++	0	0	0	0
179.	Unnamed 14	+	0	0	?	+	0	0	0
180.	Unnamed 15	?	0	0	+	0	0	0	?
181.	Unnamed 16	0	0	0	0	?	?	0	0
182.	Unnamed 17	?	+	0	?	?	0	?	0
183.	Unnamed 18	?	0	0	0	0	+	0	0

	Index Instrument (n=209)	Internal Consistency	Reliability	Measurement Error	Content Validity	Structural Validity	Construct Validity	Criterion Validity	Responsiveness
184.	Unnamed 19	?	0	0	0	0	+	0	0
185.	Unnamed 20	+	0	0	0	-	-	0	0
186.	Unnamed 21	+	-	0	?	?	?	0	0
187.	Unnamed 22	+	0	0	+++	+	+	0	0
188.	Unnamed 23	+++	0	0	+	++	++	0	0
189.	Unnamed 24	?	0	0	0	?	0	0	0
190.	Unnamed 25	0	0	0	?	0	0	0	0
191.	Unnamed 27	-	0	0	?	-	0	0	0
192.	Unnamed 29	++	++	0	?	++	0	0	0
193.	Unnamed 31	+	?	0	?	?	+	+	0
194.	Unnamed 32	?	0	0	+++	0	?	0	0
195.	Unnamed 33	+	0	0	?	+	-	0	0
196.	Unnamed 34	+	-	0	+++	+	+	0	0
197.	Unnamed 35	++	0	0	+++	--	0	0	0
198.	Unnamed 36	++	--	0	?	++	0	0	0
199.	Unnamed 37	++	0	0	?	++	--	0	0
200.	Unnamed 39	0	+	0	0	0	0	0	0
201.	Unnamed 4	?	?	0	?	?	0	0	0
202.	Unnamed 40	++	0	0	?	++	++	++	0
203.	Unnamed 7	+	0	0	+	?	0	?	0
204.	Unnamed 8	-	+	0	0	+	+	-	0
205.	Vanderbilt Therapeutic Alliance Scale (VTAS-R)	++	++	0	0	0	?	?	0
206.	Verona medical interview classification system (VR-MICS)	0	++	0	0	?	0	0	0
207.	Veterans Affairs Outpatient Community Services	+/-	0	0	0	+/-	0	0	0
208.	Wake Forest Physician Trust Scale	+++	++	0	+/-	+/-	++	0	0
209.	Working Alliance Inventory (WAI)	+/-	?	0	?	+/-	+/-	0	0