

Supplementary Table 3. Detailed analysis of psychometric evidence of six instruments measuring foot self-care, analysed against the criteria proposed by Zwakhalen and colleagues [28].

Instrument	Origin of items (0-2)		Num. of particip. (0-2)		Validity								Reliability				Total score (0–20)				
					Content (0-2)	Criterion (0-2)		Construct I: in relation to other tests (0-2)	Construct II: differentiates (0-2)	Homogeneity (0-2)			Intra-rater (0-2)	test-retest (0-2)	Feasibility (0-2)						
Diabetes foot self-care behavior scale (DFSBS)																					
Diabetes foot self-care behavior scale (DFSBS) [30]	developed and tested in this study, a comprehensive review of the literature to identify diabetic patient foot care guidelines and existing foot self-care behavior scales.	2	295 patients with diabetes and peripheral neuropathy	2	experts rated the adequacy and clarity, content validity index	2	correlation with Chinese version of the Summary of Diabetes Self-care Activity questionnaire	2	Exploratory factor analysis, convergent validity analysis, known groups validity analysis	2	item analysis, item discrimination index	2	Cronbach's alpha 0.73.	2	N/R	0	N/R	0	A pilot study	2	16
Use of DFSBS in Iran [37]	N/R	2	60 patients with diabetic foot ulcers	2	content validity with ten faculty members	2	N/R	0	N/R	0	N/R	0	Cronbach's alpha 0.86.	2	N/R	0	N/R	0	N/R	0	8
Use of DFSCBS in Taiwan [45]	N/R	2	290 patients with diabetes	2	N/R	0	N/R	0	N/R	0	N/R	0	Cronbach's alpha 0.73	2	N/R	0	N/R	0	N/R	0	6
Use of DFSBS in State of Palestine [36]	DFSBS was translated into Arabic	2	413 patients with diabetes	2	content evaluated by three experts in the field	2	N/R	0	N/R	0	N/R	0	Cronbach's Alpha 0.83	2	N/R		N/R	0	A pilot study with 10 patients with diabetes	2	10

[illegible]

the Nottingham Assessment of Functional Footcare, original study [32]	previous literature and foot care recommendations and guidelines	2	128 patients with and without diabetes	2	N/R	0	N/R	0	N/R	0	convergent validity	2	0.53	1	N/R	0	test-retest	2	pilot	2	11
The use of NAFF in United Kingdom [42]	Refer to original study [32]	2	90 patients with diabetes	2	N/R	0	N/R	0	N/R	0	convergent validity	2	0.61	1	N/R	0	test-retest	2	N/R	0	9
The use of NAFF in United Kingdom [52]	Refer to original study [32]	2	223 patients with diabetes	2	N/R	0	N/R	0	N/R	0	N/R	0	N/R	0	N/R	0	N/R	0	N/R	0	4
The use of NAFF in United Kingdom [43]	a modified version of the Nottingham Assessment of Functional Foot-care questionnaire (NAFF)	2	control (n = 35), intervention (n = 35), patients with diabetes	2	panel of three experts for assessed face and content validity	2	N/R	0	N/R	0	N/R	0	Cronbach's alpha 0.891 .	2	N/R	0	N/R	0	N/R	0	8
Diabetic foot self-care questionnaire of the University of Malaga, Spain (DFSQ-UMA)																					
diabetic foot self-care questionnaire of the University of Malaga, Spain (DFSQ-UMA) [33]	developed in this study based on literature	2	209 patients with diabetes	2	expert panel	2	The correlation with HbA1c was significant	2	Exploratory factor analysis	2	Inter-item and item-to-total correlations.	2	Cronbach's alpha 0.89.	2	N/R	0	test-retest reliability	2	cognitive interviews of item clarity	2	18
The use of DFSQ-UMA in Spain [55]	Refer to original study [33]	2	182 patients with diabetes	2	N/R	0	N/R	0	N/R	0	N/R	0	N/R	0	N/R	0	N/R	0	N/R	0	4
Foot Self-Care Behaviour (FSCB) questionnaire																					
The use of FSCB in Australia [56]	Refer to original study [34]	2	119 people with type 2 diabetes at low risk of developin	2	excellent content validity index (CVI)	2	N/R	0	N/R	0	N/R	0	Cronbach alpha 0.96 and 0.68	2	N/R	0	N/R	0	N/R	0	8

The use of FSCB in Australia [57]	a self-report questionnaire derived from a tool developed by Vileikyte and colleagues	2	96 people with diabetes	2	N/R	0	N/R	0	N/R	0	N/R	0	N/R	0	N/R	0	4						
The Foot Self-Care Observation Guide							1	N/R	0	N/R	0	N/R	0	Cronbach's alpha 0.68	1	N/R	0	test-retest	2	pilot test	2	10	
Original study [35]	developed for this study to reflect the content of American Diabetes Association guidelines	2	144	2	A podiatrist reviewed the instrument	0	N/R	0	N/R	0	N/R	0	N/R	0	Cronbach's alpha 0.83	2	N/R	0	N/R	0	N/R	0	6
Gökdeniz & Sahin 2020 [59]	Refer to original study [35]	2	120	2	N/R	0	N/R	0	N/R	0	N/R	0	N/R	0	Cronbach's alpha 0.83	2	N/R	0	N/R	0	N/R	0	6

