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Table 3: Summary of Risk of Bias assessments of PROM development

Reference	Instrument	PROM design					Cognitive interview (CI) study or pilot test (PT)							Total quality of PROM development
		General design requirements					Concept elicitation	Total quality of PROM design	A CI study or other PT was performed	CI study or PT performed in the sample representing the target population	Quality of comprehensibility study	Quality of comprehensiveness study	Total CI or PT study	
		Clear construct	Clear origin of construct	Clear target population for which the PROM was developed	Clear context of use	PROM developed in the sample representing the target population								
Breast cancer screening														
Chamot et al. 2002	Ad hoc instrument	V	D	I	D	I	-	I	V	A	I	D	I	I
Goel et al. 2011	Ad hoc instrument	V	D	V	D	I	-	I	I	-	-	-	I	I
Hickey et al. 2013	Ad hoc instrument	V	D	V	D	I	-	I	I	-	-	-	I	I
Kagawa-Singer et al. 2009	Ad hoc instrument	I	D	I	D	I	-	I	V	A	D	D	D	I
Lee et al. 2017	Revised Breast Cancer knowledge test	I	D	V	D	I	-	I	I	-	-	-	I	I
McCance et al. 1990	Breast Cancer knowledge test	V	D	I	A	I	-	I	V	A	D	D	D	I
Price et al. 1994	Ad hoc instrument	V	V	I	D	A	I	I	V	V	I	D	I	I
Reder et al. 2019	Informed Choice in Mammography Screening Questionnaire (IMQ)	V	D	V	V	V	D	D	V	D	I	D	I	I
Schonberg et al. 2014	Ad hoc instrument	I	D	V	D	I	-	I	V	A	I	D	I	I

Van Agt et al. 2012	Ad hoc instrument	V	D	V	D	I	-	I	I	-	-	-	I	I
Colorectal cancer screening														
Gabel et al. 2019	Ad hoc instrument	V	D	V	D	I	-	I	V	A	D	D	D	I
Green and Kelly et al. 2004	CRC Knowledge, Perception and Screening Survey	V	D	V	D	I	-	I	V	V	I	D	I	I
Peterson et al. 2007	Ad hoc instrument	I	V	V	D	I	-	I	I	-	-	-	I	I
Ramirez-Amill et al. 2017	Ad hoc instrument	V	D	I	D	I	-	I	I	-	-	-	I	I
Sanchez et al. 2015	CRC Knowledge Assessment Survey (KAS)	V	D	I	D	I	-	I	I	-	-	-	I	I
Sepucha et al. 2014	CRC-DQI (DQI knowledge score)	V	D	V	V	A	I	I	V	A	D	D	D	I
Smith et al. 2012	Ad hoc instrument	V	V	I	V	I	-	I	V	A	I	D	I	I
Smith et al. 2015	Ad hoc instrument	V	D	I	D	I	-	I	I	-	-	-	I	I
Steckelberg et al. 2011	Ad hoc instrument	V	D	I	D	I	-	I	V	V	D	D	D	I
Weinrich et al. 1992	Colorectal cancer Knowledge questionnaire	V	D	I	D	I	-	I	I	-	-	-	I	I
Wolf et al. 2005	Ad hoc instrument	I	D	V	D	D	D	I	V	D	I	D	I	I
Cervical cancer screening														
Breitkopf et al. 2005	Ad hoc instrument	V	D	V	D	A	D	D	V	A	I	D	I	I

Haward et al. 2022, Griffin-Mathieu et al. 2022	HPV Testing Knowledge Scale (HTKS)	V	V	V	D	I	-	I	V	V	D	D	D	I
Waller et al. 2013	HPV testing knowledge	V	D	I	V	I	-	I	I	-	-	-	I	I

V= Very good; A=Adequate; D=Doubtful; I=Inadequate; - not investigated