Table 3. Methodological Evaluation of Study Quality

First Author, Year	Research design	Conceptual framework	Sampling	Data collection method and instrument	Analysis method	Threats to validity
Zuckerman, 2014 [30]	Quantitativ e; Cross- sectional; Correlation al; Prospective	○ None	• Convenienc e sampling in a single site	 Onsite survey using investigator -developed questionnai res 	• Descriptiv e frequency statistics; logistic regression	• Self-report and self- selection bias; limited generalizabil ity for non- English speakers
DeMartini, 2013 [26]	Quantitativ e; Cross- sectional; Descriptive ; Prospective	○ None	• Convenienc e sampling from multiple sites	Onsite survey using investigator -developed questionnai res and 4- point Likert scale of digital technology	• Descriptive frequency statistics; Univariate analysis (Chisquare test)	• Self-report and self- selection bias; heterogeneit y between two sites
Dudas, 2013 [27]	Quantitativ e; Cross- sectional; Correlation al; Prospective	○ None	• Convenienc e sampling in a single site	 Onsite survey using investigator -developed questionnai res 	• Descriptive frequency statistics; logistic regression	• Self-report and self-selection bias; questionable reliability between self- and clinician-report; limited generalizabil ity for non-English speaking
Naftel, 2013 [21]	Quantitativ e; Cross- sectional; Descriptive ; Prospective	○ None	• Convenienc e sampling from multiple sites	 Onsite survey using investigator -developed questionnai res 	• Descriptive frequency statistics; Univariate analyses (Chi-	 Self-report and self- selection bias; limited generalizabil ity for non- English speakers

Nordfeldt, 2013 [24]	Qualitative; Cross- sectional; Descriptive ; Prospective	○ None	 Purposive sampling based on the child age and gender 	Structured focus group discussion	square & t tests) • Inductive qualitative content analysis	 Self-report and self- selection bias
AlSaadi, 2012 [20]	Quantitativ e; Cross- sectional; Correlation al; Prospective	○ None	 Random sampling from multiple sites 	 Onsite survey using investigator -developed questionnai res 	• Descriptiv e frequency statistics; logistic regression	• Self-report and self- selection bias; limited generalizabil ity outside of Saudi Arabian
Fagnano, 2012 [19]	Quantitativ e; Cross- sectional; Correlation al; Prospective	○ None	• Convenienc e sampling from a clinical trial	 Onsite survey using a modified Health Information National Trends Survey questionnai re [35] 	• Descriptive frequency statistics; logistic regression	• Self-report and self- selection bias; limited generalizabil ity due to limited recruitment method
Saidinejad, 2012 [32]	Quantitativ e; Cross- sectional; Correlation al; Prospective	○ None	• Convenienc e sampling in a single site	• Onsite survey using a modified Pew and the American Life study of consumers' use of the Internet for healthcare information questionnai re[31]	• Descriptive frequency statistics; univariate analyses (Chisquare & t tests); logistic regression	• Self-report and self- selection bias; limited generalizabil ity for non- English speakers; overpowerin g with large sample size (type 1 error)
Walsh, 2012 [29]	Quantitativ e; Cross- sectional with multiple measures; Correlation	• Theory of planned behavior	• Convenienc e sampling through online approach	• Telephone survey using investigator -developed questionnai	• Descriptive frequency statistics; univariate analysis	• Self-report and self- selection bias; high drop-out rate (52%); limited

	al; Prospective			res (psychomet ric information reported)	(Pearson r test), MANOVA; hierarchical linear	generalizabil ity for non- Internet users
Knapp, 2011 [28]	Quantitativ e; Cross- sectional; Correlation al; Prospective	○ None	• Random sampling in a medical services network program	Telephone survey using investigator -developed questionnai res and eHealth Literacy Scale	Descriptive frequency statistics; logistic regression	• Self-report and self- selection bias; low response rate (58%); overpowerin g with large sample size (type 1 error)
Gundersen, 2011 [22]	Qualitative; Cross- sectional; Descriptive ; Prospective	• Antonovsky' s concepts of sense of coping and coherence	• Convenienc e and purposive sampling	Unstructure d in-depth interview	• Content analysis	 Self-report and self- selection bias; questionable validity and reliability from one rater and coder
Nogueira, 2009 [23]	Quantitativ e; Cross- sectional; Descriptive ; Prospective	○ None	• Convenienc e sampling in a single site	 Onsite survey using investigator -developed questionnai res 	Descriptiv e frequency statistics	• Self-report and self- selection bias; limited generalizabil ity for non- English speakers
Bouche, 2008 [25]	Quantitativ e; Cross- sectional; Correlation al; Prospective	○ None	• Stratified sampling(ty pe and location) from multiple sites	 Postal survey using investigator -developed questionnai res 	• Descriptiv e frequency statistics; logistic regression	• Self-report bias; low response rate (49%)
Porter, 2007 [17]	Mixed methods; Cross- sectional; Descriptive	○ None	• Convenienc e sampling from multiple	Online survey using investigator	• Descriptiv e frequency statistics;	 Self-report and self- selection bias; unclear eligibility of

	; Prospective		sites	-developed questionnai res (reliability tested)	univariate analysis (Chi- square test); content analysis	study participants; limited generalizabil ity for non- Internet users and non-English speakers; heterogeneo us study
Goldman, 2006 [31]	Quantitativ e; Cross- sectional; Descriptive ; Prospective	∘ None	• Convenienc e sampling in a single site (stratified by visit day)	onsite survey using investigator -developed questionnai res (reliability tested)	• Descriptive frequency statistics; univariate analyses (Chisquare & t test)	sites Self-report and self- selection bias; overpowerin g with large sample size (type 1 error); heterogeneo us study participants; limited generalizabil ity for non- English speakers
Massin, 2006 [18]	Quantitativ e; Cross- sectional; Correlation al; Prospective	○ None	• Convenienc e sampling in a single site	 Postal survey using investigator -developed questionnai res 	Descriptive frequency statistics; univariate analysis (Chisquare test); logistic regression	 Self-report Self-report and self-selection bias; overpowerin g with large sample size (type 1 error)
Blackburn, 2005 [33]	Quantitativ e; Cross- sectional; Descriptive ; Prospective	○ None	• Systematic sampling from the Carers UK database	Postal survey using investigator -developed questionnai	• Descriptiv e frequency statistics; univariate analysis	• Self-report bias; low response rate (40%); heterogeneo us primary data sources;

res (reliability tested)	(Chi- square test)	overpowerin g with large sample size (type 1
		error)

Notes: Based on the guidelines of the Agency for Healthcare Research and Quality criteria [16];
●=Fully met the criteria; ePartially met the criteria; and ○=Not met the criteria.