

Supplementary Table 2. Risk of bias assessed by Quality Assessment Tool (QATSDD) (* indicates study was included in original 2016 review)

Note. ^a Percentage = the total score of a study / the full score 42 (14 items x 3 per item)

Study ID (Author, Year)	Amato, 2015[26]*	Audrain-McGovern 2016[27]	Barnes 2017[28]	Berg, 2016[29]*	Bold 2016[30]	Brozek, 2017[31]	Buckell, 2018[32]	Camenga 2017[33]	Chen 2017[34]	Chen 2018[35]	Clarke, 2017[25]	Coleman 2017[36]	Cooper 2016[37]	Czoli, 2016[38]*
Total score	35	22	27	29	26	24	31	26	25	29	31	28	37	31
% ^a	83%	52%	64%	69%	62%	57%	74%	62%	60%	69%	74%	67%	88%	74%
Explicit theoretical framework	0	1	0	0	0	0	0	0	0	0	3	0	2	3
Statement of aims/objectives in main body of report	3	2	3	3	3	3	3	3	3	3	3	3	3	3
Clear description of research setting	3	1	1	3	2	3	3	2	2	3	3	3	3	3
Evidence of sample size considered in terms of analysis	3	0	1	3	1	1	1	1	1	1	0	0	1	0
Representative sample of target group of a reasonable size	3	1	1	2	2	2	3	1	3	3	1	3	2	2
Description of procedure for data collection	3	3	3	3	3	1	3	3	1	3	2	3	3	3
Rationale for choice of data collection tool(s)	3	3	2	2	1	0	2	1	3	2	3	1	3	2
Detailed recruitment data	3	1	3	3	2	0	1	3	1	2	1	3	3	1
Statistical assessment of reliability and validity of measurement tool(s) (Quantitative only)	1	1	1	0	0	2	3	0	0	0	1	0	2	0
Fit between stated research question and method of data collection (Quantitative)	3	3	3	2	3	3	3	3	3	3	3	3	3	2
Fit between stated research question and format and content of data collection tool e.g. interview schedule (Qualitative)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fit between research question and method of analysis	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Good justification for analytical method selected	1	3	3	2	3	3	3	3	2	3	3	3	3	3
Assessment of reliability of analytical process (Qualitative only)	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Evidence of user involvement in design	3	0	0	0	0	1	0	0	0	0	2	0	3	3
Strengths and limitations critically discussed	3	0	3	3	3	2	3	3	3	3	3	3	3	3

Study ID (Author, Year)	Dai 2016[39]	Elkami 2016[40]	Eiter, 2010[41]*	Eiter 2016[42]	Farsalinos, 2013[43]*	Farsalinos, 2014[44]*	Ford, 2016[45]*	Goldenson 2016[46]	Gubner 2018[47]	Harrell 2017a[48]	Harrell 2017b[49]	Kim 2016[50]	Kinouani 2017[51]	Kong, 2014[52]*	Krishnan-Sarin, 2014[53]*
Total score	31	33	20	27	16	19	32	22	28	31	27	28	27	31	26
% ^a	74%	79%	48%	64%	38%	45%	76%	52%	67%	74%	64%	67%	64%	74%	62%
Explicit theoretical framework	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Statement of aims/objectives in main body of report	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Clear description of research setting	3	3	3	3	3	3	3	2	3	3	3	3	3	3	3
Evidence of sample size considered in terms of analysis	0	2	1	3	0	0	3	1	0	1	0	1	0	1	1
Representative sample of target group of a reasonable size	3	1	2	1	1	2	3	1	2	2	2	1	1	3	3
Description of procedure for data collection	3	3	2	2	1	2	3	3	3	3	2	3	3	3	3
Rationale for choice of data collection tool(s)	2	3	1	2	1	1	2	2	2	3	2	3	2	3	0
Detailed recruitment data	3	3	1	1	1	1	1	1	3	3	2	1	3	3	3
Statistical assessment of reliability and validity of measurement tool(s) (Quantitative only)	1	2	0	0	0	0	0	0	0	1	1	1	0	0	0
Fit between stated research question and method of data collection (Quantitative)	3	3	2	3	1	2	3	3	3	3	3	3	3	2	2
Fit between stated research question and format and content of data collection tool e.g. interview schedule (Qualitative)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fit between research question and method of analysis	3	3	2	3	2	2	3	3	3	3	3	3	3	3	3
Good justification for analytical method selected	3	2	1	3	1	1	3	3	3	3	3	3	3	3	3
Assessment of reliability of analytical process (Qualitative only)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Evidence of user involvement in design	0	3	0	0	0	0	2	0	1	0	0	0	0	2	0
Strengths and limitations critically discussed	3	2	2	3	2	2	3	0	2	3	3	3	3	2	2

Study ID (Author, Year)	Lee 2017a[54]	Lee 2017b[55]	Litt 2016[56]	Maglalang 2016[57]	Morean 2018[58]	Nonemaker, 2016[59]*	Patel 2017[60]	Pepper, 2013[61]*	Pepper, 2014[62]*	Pepper 2016[63]	Pesko 2016[64]	Russell 2018[65]	Rutten 2015[66]	Shang 2017[67]
Total score	32	28	27	27	26	24	34	35	34	28	29	24	32	27
% ^a	76%	67%	64%	64%	62%	57%	81%	83%	81%	67%	69%	57%	76%	64%
Explicit theoretical framework	3	0	0	0	0	0	3	3	2	0	0	0	0	0
Statement of aims/objectives in main body of report	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Clear description of research setting	3	3	3	3	3	3	3	3	3	3	3	2	3	1
Evidence of sample size considered in terms of analysis	0	0	0	1	0	0	1	1	1	0	0	1	1	3
Representative sample of target group of a reasonable size	2	3	1	1	1	2	3	2	3	3	2	1	3	3
Description of procedure for data collection	3	3	3	3	3	3	3	3	2	3	3	3	3	2
Rationale for choice of data collection tool(s)	3	3	2	1	1	0	3	2	3	1	2	0	2	3
Detailed recruitment data	3	3	3	3	3	1	3	3	3	3	2	3	3	1
Statistical assessment of reliability and validity of measurement tool(s) (Quantitative only)	0	0	0	0	0	0	0	3	0	0	2	0	0	0
Fit between stated research question and method of data collection (Quantitative)	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Fit between stated research question and format and content of data collection tool e.g. interview schedule (Qualitative)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fit between research question and method of analysis	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Good justification for analytical method selected	3	2	3	3	3	3	3	3	3	3	3	2	3	3
Assessment of reliability of analytical process (Qualitative only)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Evidence of user involvement in design	0	0	0	0	0	0	0	0	2	0	0	0	2	0
Strengths and limitations critically discussed	3	2	3	3	3	3	3	3	3	3	3	3	3	2

Study ID (Author, Year)	Shiffman, 2015[68]*	Shiplo, 2015[69]*	Spears 2018[70]	Tackett, 2015[71]*	Tsai 2018[72]	Vasiljevic, 2016[73]*	Weaver 2018[74]	Yingst, 2015[75]*
Total score	26	27	29	26	22	33	30	21
% ^a	62%	64%	69%	62%	52%	79%	71%	50%
Explicit theoretical framework	0	0	0	0	0	2	0	0
Statement of aims/objectives in main body of report	3	3	3	3	2	3	3	3
Clear description of research setting	3	3	3	3	3	3	3	2
Evidence of sample size considered in terms of analysis	2	3	0	3	1	3	1	0
Representative sample of target group of a reasonable size	1	2	3	1	3	2	3	2
Description of procedure for data collection	3	3	2	2	2	2	3	2
Rationale for choice of data collection tool(s)	2	0	2	2	0	3	2	1
Detailed recruitment data	3	3	3	2	0	1	3	3
Statistical assessment of reliability and validity of measurement tool(s) (Quantitative only)	1	0	1	0	0	3	0	0
Fit between stated research question and method of data collection (Quantitative)	1	2	3	3	3	2	3	3
Fit between stated research question and format and content of data collection tool e.g. interview schedule (Qualitative)	-	-	-	-	-	-	-	-
Fit between research question and method of analysis	3	3	3	3	3	3	3	2
Good justification for analytical method selected	1	2	3	2	2	1	3	1
Assessment of reliability of analytical process (Qualitative only)	-	-	-	-	-	-	-	-
Evidence of user involvement in design	0	0	0	0	0	2	0	0
Strengths and limitations critically discussed	3	3	3	2	3	3	3	2