

Supplemental Table 3. Methodological quality of the included studies.

Critical appraisal ratings of included studies evaluated with the ASHA's levels-of-evidence (ASHA's LOE) scheme (Mullen, 2007). Based on the quality score studies awarded with two to four points were classified as moderate, and studies awarded with five to seven points were classified as strong.

Study	Study Design	Assessor Blinded	Random Sample	Groups/ Participants Comparable	Valid Primary Outcome Measure(s)^a	Significance Reported or Calculable	Precision Reported or Calculable	Total Quality Score
Balen et al., 2009	Cross-sectional study	No	No	No	Reasonable	Yes	Yes	2/7
Bellis et al., 2008	Cross-sectional study	No	No	No	Reasonable	Yes	Yes	2/7
Bellis et al., 2011	Cross-sectional study	No	No	No	Reasonable	Yes	Yes	2/7
Bench & Maule, 1997	Case-control study	No	No	No	Reasonable	Yes	Yes	2/7
Cameron et al., 2006	Cross-sectional study	No	No	No	Reasonable	Yes	Yes	2/7
Dagenais et al., 1997	Case-control study	No	No	No	Reasonable	Yes	Yes	2/7

Study	Study Design	Assessor Blinded	Random Sample	Groups/ Participants Comparable	Valid Primary Outcome Measure(s)^a	Significance Reported or Calculable	Precision Reported or Calculable	Total Quality Score
Dawes et al., 2009	Cross-sectional study	No	No	No	Reasonable	Yes	Yes	2/7
Elliott et al., 2007	Case-control study	No	No	No	No	Yes	Yes	2/7
Iliadou & Bamiou, 2012	Case-control study	No	No	No	No	Yes	Yes	2/7
Lagace et al., 2011	Case-control study	No	No	No	Reasonable	Yes	Yes	2/7
Ludwig et al., 2014	Case-control study	No	No	No	Reasonable	Yes	Yes	2/7
Putter-Katz et al., 2002	Case-control study	No	No	No	No	Yes	Yes	2/7
Rickard et al., 2013	Case-control study	No	No	No	Reasonable	Yes	Yes	2/7
Rocha-Muniz et al., 2014	Cross-sectional study	No	No	No	Reasonable	Yes	Yes	2/7
Yalçinkaya et al., 2009	Case-control study	No	No	No	No	Yes	Yes	2/7

Study	Study Design	Assessor Blinded	Random Sample	Groups/ Participants Comparable	Valid Primary Outcome Measure(s)^a	Significance Reported or Calculable	Precision Reported or Calculable	Total Quality Score
Barry et al., 2015	Case-control study	No	No	No	Yes	Yes	Yes	3/7
Burgueti et al., 2008	Case-control study	No	No	No	Yes	Yes	Yes	3/7
Butler et al., 2011	Case-control study	No	No	No	Yes	Yes	Yes	3/7
Cameron & Dillon, 2008	Cross-sectional study	No	No	No	Yes	Yes	Yes	3/7
Dhamani et al., 2013	Cross-sectional study	No	No	Yes	Reasonable	Yes	Yes	3/7
Farah et al., 2014	Case-control study	No	No	No	Yes	Yes	Yes	3/7
Ferguson et al., 2011	Cross-sectional study	No	No	No	Yes	Yes	Yes	3/7
Ferguson et al., 2014	Cross-sectional study	No	No	No	Yes	Yes	Yes	3/7

Study	Study Design	Assessor Blinded	Random Sample	Groups/ Participants Comparable	Valid Primary Outcome Measure(s)^a	Significance Reported or Calculable	Precision Reported or Calculable	Total Quality Score
Gopal & Pierel, 1999	Case-control study	No	No	No	Yes	Yes	Yes	3/7
Gyldenkærne et al., 2014	Case-control study	No	No	No	Yes	Yes	Yes	3/7
Jirsa & Clontz, 1990	Case-control study	No	No	No	Yes	Yes	Yes	3/7
Kumar & Singh, 2015	Case-control study	No	No	No	Yes	Yes	Yes	3/7
Kreisman et al., 2012	Case-control study	No	No	No	Yes	Yes	Yes	3/7
Liasis et al., 2003	Case-control study	No	No	No	Yes	Yes	Yes	3/7
Maerlender, 2010	Cross-sectional study	No	No	No	Yes	Yes	Yes	3/7
Moossavi et al., 2014	Case-control study	No	No	No	Yes	Yes	Yes	3/7
Muchnik et al., 2004	Case-control study	No	No	No	Yes	Yes	Yes	3/7

Study	Study Design	Assessor Blinded	Random Sample	Groups/ Participants Comparable	Valid Primary Outcome Measure(s)^a	Significance Reported or Calculable	Precision Reported or Calculable	Total Quality Score
Pluta et al., 2014	Case-control study	No	No	No	Yes	Yes	Yes	3/7
Rocha-Muniz et al., 2012	Cross-sectional study	No	No	No	Yes	Yes	Yes	3/7
Roggia & Colares, 2008	Case-control study	No	No	No	Yes	Yes	Yes	3/7
Rosen et al., 2010	Case-control study	No	No	No	Yes	Yes	Yes	3/7
Sanches & Carvalho, 2006	Case-control study	No	No	No	Yes	Yes	Yes	3/7
Schmithorst et al., 2013	Case-control study	No	No	No	Yes	Yes	Yes	3/7
Sharma et al., 2014	Case-control study	No	No	No	Yes	Yes	Yes	3/7
Sharma, Purdy, & Kelly, 2014	Case-control study	No	No	No	Yes	Yes	Yes	3/7
Tomlin et al., 2015	Case-control study	No	No	No	Yes	Yes	Yes	3/7

Study	Study Design	Assessor Blinded	Random Sample	Groups/ Participants Comparable	Valid Primary Outcome Measure(s)^a	Significance Reported or Calculable	Precision Reported or Calculable	Total Quality Score
Vanniasagaram et al., 2004	Case-control study	No	No	No	Yes	Yes	Yes	3/7
Yalçinkaya et al., 2010	Case-control study	No	No	No	Yes	Yes	Yes	3/7
Gopal et al., 2002	Case-control study	Yes	No	No	Yes	Yes	Yes	4/7
James et al., 1994	Case-control study	No	No	Yes	Yes	Yes	Yes	4/7
Jirsa, 2001	Case-control study	Yes	No	No	Yes	Yes	Yes	4/7
Olakunbi et al., 2010	Case-control study	No	No	Yes	Yes	Yes	Yes	4/7
Moore et al., 2010	Cross-sectional study	No	Yes	Yes	Yes	Yes	Yes	5/7

Note. Studies are arranged from low to high quality score.

^aAt the criterion "Valid primary outcome measures," three answer options were possible, namely: *Yes*, *Reasonable*, and *No*. All other criterion had two possible outcomes, *Yes* or *No*. Boldface indicates highest level of quality in each category.