eTable 14 Quality assessment of studies reporting on the incidence and prevalence of psoriasis using the AXIS tool

Study	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15	Q16	Q17	Q18	Q19	Q20	Overall risk
Kilkenny et al., 1998	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	No	Yes	Medium
Plunkett et al., 1999	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	No	Yes	Low
Quirk et al., 1979	No	Unclear	No	Yes	Unclear	Unclear	Unclear	Unclear	Unclear	No	No	No	Unclear	No	No	No	No	No	Unclear	Unclear	High
Fujii et al., 2012	Yes	Yes	No	Yes	Yes	Yes	Unclear	Yes	Yes	No	No	Yes	Unclear	No	No	Yes	No	No	Unclear	Unclear	High
Ferreira et al., 2014	Yes	Yes	No	Yes	Yes	Yes	Unclear	Yes	Yes	No	No	Yes	Unclear	No	Yes	Yes	No	No	Unclear	Unclear	High
Romiti et al., 2017	Yes	Yes	No	Yes	Yes	Yes	No	Yes	No	Yes	No	No	Unclear	No	Unclear	Yes	Yes	No	No	Unclear	Medium
Bechelli et al., 1981	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Unclear	No	No	Yes	No	No	Yes	Yes	Yes	No	No	Yes	Medium
DiBonaventura et al., 2018	Yes	Yes	No	Yes	Yes	Yes	Unclear	Yes	Yes	Yes	Yes	Yes	Unclear	No	Yes	Yes	Yes	Yes	No	Unclear	Medium
Solomon et al., 2010	Yes	Yes	Yes	Yes	Yes	Yes	N/A	Yes	Yes	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Yes	Yes	No	Yes	Low
Gregory et al., 2014	Yes	Yes	N/A	Yes	Yes	Yes	N/A	Yes	Yes	No	No	Yes	N/A	N/A	Yes	Yes	No	No	Unclear	Unclear	Medium
Petrella et al., 2014	Yes	Yes	N/A	Yes	Yes	Yes	N/A	Yes	Yes	No	No	Yes	N/A	N/A	Yes	Yes	Yes	No	Unclear	Unclear	Medium
Eder et al., 2017	Yes	Yes	N/A	Yes	Yes	Yes	N/A	Yes	Yes	No	No	Yes	N/A	N/A	Yes	Yes	Yes	No	Unclear	Unclear	Medium
Eder et al., 2017	Yes	Yes	N/A	Yes	Yes	Yes	N/A	Yes	Yes	No	No	Yes	N/A	N/A	Yes	Yes	Yes	No	Unclear	Unclear	Medium
Eder et al., 2019	Yes	Yes	N/A	Yes	Yes	Yes	N/A	Yes	Yes	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Yes	Yes	No	Unclear	Low
Henan Dermatoses Survey Group, 1982	Yes	Yes	Unclear	Yes	Yes	Unclear	Unclear	Unclear	Unclear	No	No	Yes	Unclear	Unclear	Yes	Unclear	Unclear	Unclear	Unclear	Unclear	Medium
Li et al., 1982	Yes	N/A	N/A	Yes	N/A	N/A	N/A	N/A	N/A	No	N/A	Yes	N/A	N/A	Yes	N/A	N/A	No	No	Unclear	High
Yip et al., 1984	Yes	Yes	No	Yes	Yes	Yes	Unclear	Unclear	Unclear	No	No	No	Unclear	No	Unclear	Yes	Yes	No	No	Unclear	High
Changgeng et al., 1987	Yes	Yes	No	Yes	Yes	Yes	No	Yes	Yes	No	No	Yes	No	No	Yes	Yes	Yes	No	No	Unclear	Low
Tang Zhanli et al., 1994	Yes	Yes	No	Yes	Yes	Unclear	Unclear	Yes	Unclear	No	No	Yes	No	No	Yes	Yes	Unclear	Unclear	No	Unclear	Medium
Ding et al., 2012	Yes	Yes	Yes	Yes	Yes	Yes	Unclear	Yes	Yes	No	Yes	Yes	No	No	Yes	Yes	Yes	No	No	Unclear	Low
Li et al., 2012	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	No	No	Yes	Low
Ren-li et al., 2012	Yes	Yes	No	Yes	Yes	Yes	Unclear	Yes	Yes	No	No	Yes	Unclear	No	Yes	Yes	Unclear	Unclear	No	Unclear	Low
Li et al., 2013	Yes	Yes	No	Yes	Yes	Yes	Unclear	Yes	Yes	No	No	Yes	No	No	Yes	Yes	Unclear	Unclear	No	Yes	Low
Barisic-Drusko et al., 1989	Yes	Yes	No	Yes	Yes	Yes	No	Yes	Yes	No	No	No	Unclear	No	Unclear	Yes	No	No	No	Unclear	High
Lomholt et al., 1964	Yes	Yes	No	Yes	Yes	Yes	No	No	No	No	Yes	Yes	No	No	Yes	Yes	Yes	Yes	No	No	Medium
Brandrup et al., 1981	Yes	Yes	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	No	No	Low
Jensen et al., 2013	Yes	Yes	No	Yes	Unclear	Unclear	No	Yes	Yes	No	Yes	Yes	No	No	Yes	Yes	Yes	Yes	No	Yes	Medium
Mortz et al., 2014	Yes	Yes	No	Yes	Yes	Unclear	No	Yes	Yes	No	Yes	Yes	No	No	Yes	Yes	Yes	Yes	No	Yes	High
Egeberg et al., 2017	Yes	Yes	No	Yes	No	No	No	Yes	Yes	No	Yes	Yes	N/A	N/A	Yes	Yes	Yes	Yes	No	Yes	Low
Blegvad et al., 2017	Yes	Yes	N/A	Yes	Yes	Yes	N/A	Yes	Yes	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Yes	Yes	No	Yes	Low
Egeberg et al., 2019	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	No	N/A	Low
Abdel-Hafez et al., 2003	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	No	No	Yes	Low
Yamamah et al., 2012	No	Yes	No	Yes	Yes	Yes	No	Yes	Yes	Yes	No	Yes	No	No	Yes	Yes	Yes	No	No	No	High
El-Khateeb et al., 2014	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	No	No	Low
Nada et al., 2014	Yes	Yes	No	Yes	Yes	Yes	Unclear	Yes	Yes	No	No	Yes	Unclear	No	No	Yes	Yes	No	No	Unclear	High
Wolkenstein et al., 2003	Yes	Yes	No	Yes	Yes	Yes	No	Yes	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Unclear	Low
Wolkenstein et al., 2009	Yes	Yes	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	No	Unclear	Low
Richard et al., 2018	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	No	N/A	Low
Schlander et al., 2008	Yes	Yes	N/A	Yes	Yes	Yes	N/A	Yes	Yes	No	No	No	N/A	N/A	Unclear	Yes	Yes	No	No	N/A	High
Schafer et al., 2009	Yes	Yes	N/A	Yes	Yes	Yes	N/A	Yes	Yes	No	No	No	N/A	N/A	Unclear	Yes	Yes	No	No	N/A	High
Augustin et al., 2010	Yes	Yes	Yes	Yes	Yes	Yes	N/A	Yes	Yes	Yes	Yes	No	N/A	N/A	Yes	Yes	Yes	Yes	Unclear	No	Low
Augustin et al., 2010	Yes	Yes	N/A	Yes	Yes	Yes	N/A	Yes	Yes	Yes	No	Yes	N/A	N/A	Yes	Yes	Yes	Yes	No	N/A	Low
Schmitt et al., 2010	Yes	Yes	No	Yes	Yes	Yes	Unclear	Yes	Yes	No	No	Yes	No	No	Yes	Yes	Yes	No	No	Unclear	High
Schmitt et al., 2010	Yes	Yes	Yes	Yes	Yes	Yes	N/A	Yes	Yes	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Yes	Yes	No	N/A	Medium
Augustin et al., 2011	Yes	Yes	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	No	No	No	Unclear	Yes	Yes	Yes	No	Unclear	Low
Augustin et al., 2011	Yes	Yes	Yes	Yes	Yes	Yes	N/A	Yes	Yes	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Yes	Yes	No	N/A	Low
Schafer et al., 2011	Yes	Yes	N/A	Yes	Yes	Yes	N/A	Yes	Yes	No	Yes	Yes	N/A	N/A	Yes	Yes	Unclear	Unclear	No	N/A	Low
Kampfe et al., 2012	Yes	Yes	N/A	Yes	Yes	Yes	N/A	Yes	Yes	No	No	Yes	N/A	N/A	Yes	Yes	Yes	No	No	N/A	High

Augustin et al., 2013	Yes	Yes	Yes	Yes	Yes	Yes	N/A	Yes	Yes	No	No	Yes	N/A	N/A	Yes	Yes	Yes	Yes	No	N/A	Low
Matusiewicz et al., 2014	Yes	Yes	Yes	Yes	Yes	Yes	N/A	Yes	Yes	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Yes	Yes	No	N/A	Low
Radtke et al., 2014	Yes	Yes	N/A	Yes	Yes	Yes	N/A	Yes	Yes	No	No	No	N/A	N/A	Yes	Yes	Yes	No	No	Unclear	High
Augustin et al., 2015	Yes	Yes	Yes	Yes	Yes	Yes	N/A	Yes	Yes	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Yes	Yes	No	N/A	Low
Jacobi et al., 2015	Yes	Yes	Yes	Yes	Yes	Yes	N/A	Yes	Yes	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Yes	Yes	No	N/A	Low
Radtke et al., 2015	Yes	Yes	N/A	Yes	Yes	Yes	N/A	Yes	Yes	No	No	No	N/A	N/A	Yes	Yes	Yes	No	No	Unclear	High
Matterne et al., 2016	Yes	Yes	Yes	Yes	Yes	Yes	N/A	Yes	Yes	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Yes	Yes	No	Yes	Low
Jacob et al., 2016	Yes	Yes	N/A	Yes	Yes	Yes	N/A	Yes	Yes	No	No	No	N/A	N/A	No	Yes	Yes	No	No	Unclear	High
Radtke et al., 2017	Yes	Yes	Yes	Yes	Yes	Yes	N/A	Yes	Yes	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Yes	Yes	No	N/A	Low
Drewitz et al., 2018	Yes	Yes	No	Yes	Unclear	Unclear	Unclear	Unclear	Unclear	Yes	No	No	Unclear	No	Unclear	Yes	Yes	No	Unclear	Unclear	High
Biermann et al., 2019	Yes	Yes	N/A	Yes	Yes	Yes	N/A	Yes	Yes	No	No	No	N/A	N/A	Unclear	Yes	Yes	No	Unclear	Unclear	High
Petersen et al., 2019	Yes	Yes	N/A	Yes	Yes	No	N/A	Yes	No	No	No	No	N/A	N/A	Unclear	Yes	No	No	No	No	High
Sewerin et al., 2019	Yes	Yes	N/A	Yes	Yes	Yes	N/A	Yes	Yes	No	No	No	N/A	N/A	Yes	Yes	Yes	Yes	No	Unclear	Medium
Grills et al., 2012	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	No	Yes	Low
Dogra et al., 2003	Yes	Yes	No	Yes	Yes	Yes	Unclear	Yes	N/A	No	No	Yes	Unclear	No	Yes	Yes	Yes	No	No	Unclear	Medium
Al-Rubiay et al., 2005	Yes	Yes	No	Yes	Yes	Yes	No	Unclear	No	No	No	Yes	No	No	Yes	Yes	Yes	Yes	No	Unclear	Medium
Ali et al., 2011	Yes	Yes	No	Yes	Yes	Yes	No	Unclear	No	Yes	Yes	Yes	No	No	Yes	Yes	Yes	No	No	Unclear	Medium
Shapiro et al., 2007	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	No	No	Low
Shalom et al., 2018	Yes	Yes	N/A	Yes	Yes	Yes	N/A	Yes	Yes	Yes	No	Yes	N/A	N/A	Yes	Yes	Yes	Yes	No	Unclear	Low
Schonmann et al., 2019	Yes	Yes	N/A	Yes	Yes	Yes	N/A	Yes	Yes	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Yes	Yes	No	Yes	Low
Naldi et al., 2004	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	No	No	Low
Saraceno et al., 2008	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	No	No	Yes	No	Yes	No	Yes	Yes	Yes	Yes	Unclear	Unclear	Medium
Naldi et al., 2009	Yes	Yes	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	No	Yes	Low
Vena et al., 2010	Yes	Yes	Yes	Yes	Yes	Yes	N/A	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	No	No	Low
Sardu et al., 2012	Yes	Yes	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	No	Unclear	Low
Cantarutti et al., 2015	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Unclear	No	Yes	Yes	Yes	Yes	No	Yes	Low
Pezzolo et al., 2019	Yes	Yes	No	Yes	Yes	Yes	Unclear	Yes	Yes	Yes	Yes	Yes	Unclear	Unclear	Yes	Yes	Yes	Yes	No	Yes	Low
Kubota et al., 2015	Yes	Yes	Yes	Yes	Yes	Yes	N/A	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	No	Yes	Low
Abolfotouh et al., 1996	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	No	No	Unclear	Medium
Al-Saeed et al., 2006	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	No	N/A	Yes	Yes	Yes	No	No	Yes	Medium
Amin et al., 2011	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	No	Yes	Medium
Rahamathulla et al., 2019	Yes	Yes	No	Yes	Yes	Yes	No	Yes	Yes	No	Yes	Yes	No	No	No	Yes	Yes	No	No	Yes	Low
Walker et al., 2008	Yes	Yes	No	Yes	No	No	No	Yes	Yes	No	N/A	Yes	Yes	No	Yes	Yes	Yes	Yes	No	Yes	High
Kavli et al., 1985	No	Yes	No	Yes	Yes	No	No	Yes	No	Yes	No	No	No	No	Unclear	Yes	Yes	No	No	Unclear	High
Braathen et al., 1989	Yes	Yes	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	No	Unclear	Low
Falk et al., 1993	Yes	Yes	Yes	Yes	Yes	Yes	N/A	Yes	Yes	Yes	Yes	Yes	N/A	N/A	No	Yes	Yes	Yes	No	Unclear	Medium
Bo et al., 2008	Yes	Yes	Yes	Yes	Yes	Unclear	No	Yes	Yes	Yes	No	Yes	Yes	No	No	No	Yes	Yes	No	Yes	Medium
Danielsen et al., 2013	Yes	Yes	No	Yes	Yes	Yes	No	No	Yes	Yes	No	Yes	No	No	Yes	No	Yes	No	No	Yes	Medium
Hoff et al., 2015	Yes	Yes	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	No	Yes	Medium
Modalsli et al., 2016	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	No	Yes	Low
Hegvik et al., 2017	Yes	No	No	Yes	Yes	Unclear	No	Yes	Yes	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Yes	Yes	No	Yes	High
Borzecki et al., 2012	No	Yes	Unclear	Yes	Yes	Yes	No	No	No	No	No	Unclear	Unclear	No	Yes	Yes	Yes	No	No	No	High
Borzecki et al., 2018	Yes	Yes	N/A	Yes	Yes	Yes	N/A	Yes	Yes	No	No	Yes	N/A	N/A	Yes	Yes	Yes	Yes	No	Unclear	Medium
Videira et al., 2017	Yes	Yes	N/A	Yes	Yes	Yes	N/A	Yes	Yes	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Yes	Yes	No	Yes	Medium
Lee et al., 2017	Yes	Yes	No	Yes	Yes	Yes	N/A	Yes	Yes	No	Yes	No	N/A	N/A	Unclear	Yes	Yes	Yes	No	No	Low
Oh et al., 2017	Yes	Yes	No	Yes	Yes	Unclear	N/A	Yes	Yes	Yes	No	No	N/A	N/A	Unclear	Yes	Yes	Yes	No	Unclear	Medium
Han et al., 2018	Yes	Yes	N/A	Yes	Yes	Yes	N/A	Yes	Yes	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Yes	Yes	No	Yes	Low
Popescu et al., 1999	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	Low
Boca et al., 2019	Yes	Yes	Yes	Yes	Yes	Yes	N/A	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	No	Yes	Low
Osmanova et al., 1985	Yes	Yes	No	Yes	Yes	Unclear	Unclear	Yes	Yes	No	No	Yes	Unclear	No	Yes	Yes	No	No	No	Unclear	High
Znamenskaya et al., 2012	Yes	Yes	N/A	Yes	Yes	Yes	N/A	Yes	Yes	No	No	Yes	N/A	N/A	Unclear	Yes	Yes	Unclear	No	Unclear	Low

Kubanova et al., 2017	Yes	Yes	N/A	Yes	Yes	Yes	N/A	Yes	Yes	No	No	Yes	N/A	N/A	Unclear	Yes	Yes	Unclear	No	Unclear	Low
Odinets et al., 2017	Yes	Yes	N/A	Yes	Yes	Yes	N/A	Yes	Yes	No	No	Yes	N/A	N/A	Unclear	Yes	Yes	Unclear	No	Unclear	Low
Campion et al., 1983	Yes	Yes	No	Yes	Yes	Yes	No	Yes	No	No	No	No	Yes	No	Unclear	Yes	Yes	Yes	No	Unclear	High
Simpson et al., 2002	Yes	Yes	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	No	No	No	Yes	Yes	Yes	Yes	No	Unclear	Medium
McHattie et al., 2012	Yes	Yes	N/A	Yes	Yes	Yes	N/A	Yes	Yes	No	No	No	N/A	N/A	Unclear	Yes	No	No	No	Unclear	High
Ferrandiz et al., 2001	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	No	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	No	No	Low
Fernandez-Sueiro et al., 2012	Yes	Yes	No	Yes	Yes	Yes	No	Yes	Yes	No	No	Yes	Yes	No	Yes	Yes	Yes	No	No	Unclear	High
Ferrandiz et al., 2014	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	No	Yes	Yes	Unclear	No	Yes	Yes	Yes	Yes	No	Unclear	Low
Siso-Almirall et al., 2018	Yes	Yes	No	Yes	Yes	Yes	N/A	Yes	Yes	No	No	No	N/A	N/A	Yes	Yes	Yes	No	No	Unclear	High
Fernandez-Armenteros et al., 2019	Yes	Yes	N/A	Yes	Yes	Yes	N/A	Yes	Yes	Yes	Yes	Yes	N/A	N/A	No	Yes	Yes	Yes	No	Yes	Low
Perera et al., 2000	No	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	No	Yes	Yes	No	No	Yes	Yes	Yes	No	No	Unclear	Low
Hellgren et al., 1967	Yes	Yes	No	Yes	Yes	Unclear	Yes	Yes	Yes	No	Unclear	Yes	No	Yes	Yes	Yes	Yes	Yes	No	No	Low
Larsson et al., 1980	Yes	Yes	No	Yes	Unclear	Yes	Yes	Yes	Yes	No	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	No	Yes	Low
Lindberg et al., 2014	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	No	Yes	Low
Lofvendahl et al., 2014	Yes	Yes	Yes	Yes	Yes	Yes	N/A	Yes	Yes	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Yes	Yes	No	Yes	Low
Yang et al., 2007	Yes	Yes	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Medium
Chen et al., 2008	Yes	Yes	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	No	No	Medium
Chang et al., 2009	Yes	Yes	No	Yes	Yes	Yes	N/A	Yes	No	Yes	Yes	No	N/A	N/A	Yes	Yes	Yes	Yes	No	Yes	Medium
Tsai et al., 2011	Yes	Yes	No	Yes	Yes	Yes	N/A	Yes	Yes	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Yes	Yes	No	No	Low
Chiang et al., 2012	Yes	Yes	No	Yes	Yes	Yes	N/A	Yes	Yes	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Yes	Yes	No	No	Medium
Wang et al., 2016	Yes	Yes	Yes	Yes	Yes	Yes	N/A	Yes	Yes	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Yes	Yes	No	Yes	Low
Wei et al., 2018	Yes	Yes	Yes	Yes	Yes	Yes	N/A	Yes	Yes	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Yes	Yes	No	Yes	Low
Gibbs et al., 1996	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	No	No	Yes	No	Yes	No	Yes	Yes	Yes	No	No	Unclear	Low
El Fekih et al., 2007	Yes	Yes	No	Yes	Unclear	Unclear	Unclear	Yes	Yes	No	No	No	Unclear	No	Unclear	Yes	Yes	No	No	Unclear	High
Donker et al., 1998	Yes	Yes	No	Yes	Yes	Yes	N/A	No	No	No	No	No	N/A	N/A	No	No	Yes	Unclear	No	Unclear	High
Westert GP et al., 2005	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	No	Yes	Medium
Karreman et al., 2016	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	No	Yes	Low
Dowlatshahi et al., 2017	Yes	Yes	N/A	Yes	Yes	Yes	N/A	Yes	Yes	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Yes	Yes	No	Unclear	Medium
Sanders et al., 2017	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	Yes	Yes	Yes	No	No	Yes	Medium
Cakir et al., 2012	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	No	Yes	Low
Serdaroğlu et al., 2012	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	No	No	No	Yes	No	No	Yes	Yes	Yes	No	No	Unclear	Low
Bas et al., 2016	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	No	No	No	Low
Yayli et al., 2016	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	No	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	No	Yes	Low
Williams et al., 1994	Yes	Yes	Yes	Yes	Yes	Yes	Unclear	Yes	Yes	No	No	No	Unclear	No	Unclear	Yes	Yes	Yes	No	Unclear	Medium
Nevitt et al., 1996	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	No	No	Low
O'Neill et al., 1996	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	Low
Kay et al., 1999	Yes	Yes	No	Yes	Yes	Yes	No	Yes	Unclear	No	No	Yes	No	No	Yes	Yes	No	No	No	No	Medium
Gelfand et al., 2005	Yes	Yes	No	Yes	Yes	Yes	N/A	Yes	Yes	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Yes	Yes	No	Yes	Low
Gillard et al., 2005	Yes	Yes	No	Yes	Yes	Yes	N/A	Yes	Yes	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Yes	Yes	No	Unclear	High
Huerta et al., 2007	Yes	Yes	Yes	Yes	No	No	N/A	Yes	Yes	Yes	No	Yes	N/A	N/A	Yes	Yes	Yes	Yes	No	No	High
Seminara et al., 2011	Yes	Yes	No	Yes	Yes	Yes	N/A	Yes	Yes	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Yes	Yes	No	Yes	Low
Khalid et al., 2013	Yes	Yes	No	Yes	Yes	Yes	N/A	Yes	Yes	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Yes	Yes	No	No	Low
Ogdie et al., 2013	Yes	Yes	No	Yes	Yes	Yes	N/A	Yes	Yes	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Yes	Yes	No	Yes	Medium
Springate et al., 2017	Yes	Yes	No	Yes	Yes	Yes	N/A	Yes	Yes	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Yes	Yes	No	Yes	Low
Tillett et al., 2017	Yes	Yes	N/A	Yes	Yes	Yes	N/A	Yes	Yes	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Yes	No	No	Yes	Medium
Johnson et al., 1978	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	No	No	Yes	No	No	Yes	No	Yes	Yes	No	Yes	Low
Bell et al., 1991	Yes	Yes	No	Yes	Yes	Yes	N/A	Yes	Yes	Yes	No	Yes	N/A	N/A	Unclear	Yes	Yes	Yes	No	No	Medium
Shbeeb et al., 1995	Yes	Yes	No	Yes	Yes	Yes	N/A	Yes	Yes	Yes	No	Yes	N/A	N/A	Yes	Yes	Yes	No	No	No	Low
Koo, 1996	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	No	Unclear	No	No	No	Yes	Yes	Yes	Yes	No	Unclear	Medium

Javitz et al., 2002	Yes	Yes	No	Yes	Yes	Yes	No	Yes	Yes	No	No	Yes	No	No	Yes	No	Yes	Yes	No	No	Medium
Gelfand et al., 2004	Yes	Yes	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	No	Unclear	Low
Stern et al., 2004	Yes	Yes	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	No	Unclear	Low
Gelfand et al., 2005	Yes	Yes	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	No	Unclear	Low
Icen et al., 2009	Yes	Yes	No	Yes	Yes	Yes	N/A	Yes	Yes	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Yes	Yes	No	No	Low
Kurd et al., 2009	Yes	Yes	No	Yes	Yes	Yes	No	Yes	Yes	Yes	No	Yes	No	No	No	No	Yes	Yes	No	Yes	Low
Wu et al., 2009	Yes	Yes	No	No	Yes	Yes	Unclear	Yes	Yes	Yes	Yes	Yes	Unclear	No	No	Yes	Yes	Yes	No	Yes	Medium
Tollefson et al., 2010	Yes	Yes	No	Yes	Yes	Yes	N/A	Yes	Yes	Yes	No	Yes	N/A	N/A	Yes	Yes	Yes	Yes	No	No	Low
Helmick et al., 2014	Yes	Yes	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	No	Yes	Low
Rachakonda et al., 2014	Yes	Yes	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	No	Yes	Low
Swary et al., 2015	Yes	Yes	Yes	Yes	Yes	Unclear	N/A	Yes	Yes	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Yes	Yes	No	Yes	Medium
Mendelson et al., 2017	Yes	Yes	No	Yes	No	Unclear	No	Yes	Yes	No	Yes	Yes	No	No	Yes	Yes	Yes	Yes	No	Yes	Medium
Cooksey et al., 2018	Yes	Yes	N/A	Yes	Yes	Yes	N/A	Yes	Yes	Yes	Yes	Yes	N/A	N/A	No	Yes	Yes	Yes	No	N/A	Medium
Arzensek et al., 1984	Yes	Yes	No	Yes	Yes	Yes	No	Yes	Yes	No	No	No	No	No	Yes	Yes	Yes	No	No	Unclear	Medium
Benchikhi et al., 2012	Yes	Yes	No	No	Unclear	Unclear	Unclear	Unclear	Unclear	No	No	No	Unclear	No	Unclear	Yes	Yes	No	No	Unclear	High
Lillie et al., 2012	Yes	Yes	N/A	Yes	Yes	Yes	N/A	Unclear	Unclear	No	No	No	N/A	N/A	Unclear	Yes	Yes	No	No	Unclear	High
Lebwohl et al., 2014	Yes	Yes	No	Yes	Yes	Yes	No	Yes	Yes	Yes	No	No	Yes	No	Unclear	Yes	Yes	Yes	No	Yes	Medium
Augustin et al., 2017	Yes	Yes	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	No	No	No	Unclear	Yes	Yes	Yes	No	Unclear	Medium
Svensson et al., 2018	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	No	No	Yes	Low
Danielsen et al., 2019	Yes	Yes	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	No	Yes	Medium

AXIS: Appraisal tool of Cross-Sectional Studies:
Q1) Were the aims/objectives of the study clear?
Q2) Was the study design appropriate for the stated aim(s)?
Q3) Was the sample size justified?
Q4) Was the target/reference population clearly defined? (Is it clear who the research was about?)
Q5) Was the sample frame taken from an appropriate population base so that it closely represented the target/reference population under investigation?
Q6) Was the selection process likely to select subjects/participants that were representative of the target/reference population under investigation?
Q7) Were measures undertaken to address and categorise non-responders?
Q8) Were the risk factor and outcome variables measured appropriate to the aims of the study?
Q9) Were the risk factor and outcome variables measured correctly using instruments/measurements that had been trialled, piloted or published previously?
Q10) Is it clear what was used to determined statistical significance and/or precision estimates? (eg, p values, CIs)
Q11) Were the methods (including statistical methods) sufficiently described to enable them to be repeated?
Q12) Were the basic data adequately described?
Q13) Does the response rate raise concerns about non-response bias?
Q14) If appropriate, was information about non-responders described?
Q15) Were the results internally consistent?
Q16) Were the results for the analyses described in the methods, presented?
Q17) Were the authors' discussions and conclusions justified by the results?
Q18) Were the limitations of the study discussed?
Q19) Were there any funding sources or conflicts of interest that may affect the authors' interpretation of the results?
Q20) Was ethical approval or consent of participants attained?