

Supplementary Table 2. Summary of risk of bias

Study ID	Measurement tool selection	Participants' understanding of the measurement tool	Description of health states	Sampling Strategy	Response rate (if follow up involved, please also record the completion rate of follow up)	Statistical analysis
Agh 2011	Low risk of bias	Moderate risk of bias	low risk of bias	Low risk of bias	Low risk of bias	NA/ Low risk of bias
Alcazar 2012	Low risk of bias	Moderate risk of bias	low risk of bias	Moderate risk of bias	Moderate risk of bias	NA/ Low risk of bias
Allen-Ramey 2012	low risk of bias	Moderate risk of bias	low risk of bias	low risk of bias	Moderate risk of bias	NA/ Low risk of bias
Antoniou 2014	low risk of bias	Moderate risk of bias	low risk of bias	low risk of bias	Moderate risk of bias	NA/ Low risk of bias
Arne 2009	low risk of bias	Moderate risk of bias	low risk of bias	low risk of bias	Low risk of bias	NA/ Low risk of bias
Berkius 2013	low risk of bias	Moderate risk of bias	low risk of bias	low risk of bias	low risk of bias	NA/ Low risk of bias
Boland 2014	low risk of bias	Moderate risk of bias	low risk of bias	Moderate risk of bias	Serious risk of bias	NA/ Low risk of bias
Boland 2015	low risk of bias	Moderate risk of bias	low risk of bias	Moderate risk of bias	Moderate risk of bias	NA/ Low risk of bias
Boland 2016	Low risk of bias	Moderate risk of bias	Low risk of bias	Moderate risk of bias	Moderate risk of bias	NA/ Low risk of bias
Borge 2014	Serious risk of bias	Moderate risk of bias	low risk of bias	low risk of bias	Serious risk of bias	NA/ Low risk of bias
Boros 2012	low risk of bias	Moderate risk of bias	low risk of bias	Serious risk of bias	low risk of bias	NA/ Low risk of bias
Bourbeau 2007	low risk of bias	Moderate risk of bias	low risk of bias	Moderate risk of bias	Moderate risk of bias	NA/ Low risk of bias
Braido 2016	Serious risk of bias	Moderate risk of bias	Moderate risk of bias	Low risk of bias	Low risk of bias	NA/ Low risk of bias
Bratas 2010	Serious risk of bias	Moderate risk of bias	low risk of bias	low risk of bias	low risk of bias	NA/ Low risk of bias
Brophy 2008	Serious risk of bias	Moderate risk of bias	Moderate risk of bias	Moderate risk of bias	low risk of bias	NA/ Low risk of bias
Bulcun 2014	Low risk of bias	Moderate risk of bias	low risk of bias	low risk of bias	Moderate risk of bias	Moderate risk of bias
Burns 2016	Low risk of bias	Moderate risk of bias	Low risk of bias	Moderate risk of bias	Low risk of bias	NA/ Low risk of bias
Carlucci 2016	Serious risk of bias	Moderate risk of bias	Low risk of bias	Moderate risk of bias	Low risk of bias	NA/ Low risk of bias
Chakrabarti 2009	Serious risk of bias	Moderate risk of bias	low risk of bias	low risk of bias	low risk of bias	NA/ Low risk of bias
Chapman 1993	Serious risk of bias	Moderate risk of bias	low risk of bias	Serious risk of bias	Moderate risk of bias	NA/ Low risk of bias
Chapman 2011	Serious risk of bias	Moderate risk of bias	low risk of bias	Moderate risk of bias	Moderate risk of bias	NA/ Low risk of bias
Chen 2014	low risk of bias	Moderate risk of bias	low risk of bias	low risk of bias	low risk of bias	NA/ Low risk of bias
Chen 2016	Low risk of bias	Moderate risk of bias	Low risk of bias	Moderate risk of bias	Low risk of bias	NA/ Low risk of bias
Chou 2017	Serious risk of bias	Moderate risk of bias	Moderate risk of bias	Serious risk of bias	Low risk of bias	NA/ Low risk of bias
Chrystyn 2014	low risk of bias	Moderate risk of bias	low risk of bias	Serious risk of bias	Serious risk of bias	NA/ Low risk of bias
Claessens 2000	Serious risk of bias	Moderate risk of bias	Moderate risk of bias	low risk of bias	low risk of bias	NA/ Low risk of bias
Cleland 2007	low risk of bias	Moderate risk of bias	low risk of bias	low risk of bias	Serious risk of bias	NA/ Low risk of bias
Collado-Mateo 2017	low risk of bias	Moderate risk of bias	low risk of bias	low risk of bias	low risk of bias	NA/ Low risk of bias
Cross 2010	low risk of bias	Moderate risk of bias	low risk of bias	low risk of bias	low risk of bias	NA/ Low risk of bias
Dacosta Dibonaventura 2017	low risk of bias	Moderate risk of bias	low risk of bias	low risk of bias	Moderate risk of bias	NA/ Low risk of bias
Dal Negro 2016	Serious risk of bias	Moderate risk of bias	Low risk of bias	Low risk of bias	Moderate risk of bias	NA/ Low risk of bias
Dales 1999	low risk of bias	Moderate risk of bias	low risk of bias	low risk of bias	low risk of bias	NA/ Low risk of bias
Decramer 2001	low risk of bias	Moderate risk of bias	low risk of bias	Moderate risk of bias	Moderate risk of bias	NA/ Low risk of bias
DiBonaventura 2017	low risk of bias	Moderate risk of bias	low risk of bias	low risk of bias	Moderate risk of bias	NA/ Low risk of bias
Ding 2017	Low risk of bias	Moderate risk of bias	Low risk of bias	Serious risk of bias	Serious risk of bias	NA/ Low risk of bias
Doñate-Martínez 2017	Low risk of bias	Moderate risk of bias	Low risk of bias	Low risk of bias	Low risk of bias	NA/ Low risk of bias
Downey 2009	Serious risk of bias	Moderate risk of bias	Moderate risk of bias	Moderate risk of bias	Moderate risk of bias	NA/ Low risk of bias
Downey 2013	Serious risk of bias	Moderate risk of bias	low risk of bias	Moderate risk of bias	low risk of bias	NA/ Low risk of bias
Dowson 2004	low risk of bias	Moderate risk of bias	low risk of bias	low risk of bias	low risk of bias	NA/ Low risk of bias

Eakin 1997	Serious risk of bias	low risk of bias	low risk of bias	Serious risk of bias	low risk of bias	NA/ Low risk of bias
Egan 2012	low risk of bias	Moderate risk of bias	low risk of bias	low risk of bias	low risk of bias	NA/ Low risk of bias
Eskander 2011	low risk of bias	Moderate risk of bias	low risk of bias	low risk of bias	low risk of bias	NA/ Low risk of bias
Farmer 2017	low risk of bias	Moderate risk of bias	low risk of bias	Serious risk of bias	low risk of bias	NA/ Low risk of bias
Ferreira 2014	low risk of bias	Moderate risk of bias	low risk of bias	low risk of bias	Moderate risk of bias	NA/ Low risk of bias
Fishwick 2014	low risk of bias	Moderate risk of bias	low risk of bias	low risk of bias	Moderate risk of bias	NA/ Low risk of bias
Fletcher 2011	low risk of bias	Moderate risk of bias	low risk of bias	low risk of bias	low risk of bias	NA/ Low risk of bias
Fox 1999	Serious risk of bias	Moderate risk of bias	low risk of bias	low risk of bias	low risk of bias	NA/ Low risk of bias
Fried 2002	low risk of bias	Moderate risk of bias	low risk of bias	low risk of bias	low risk of bias	NA/ Low risk of bias
Fried 2007	low risk of bias	Moderate risk of bias	low risk of bias	low risk of bias	low risk of bias	NA/ Low risk of bias
Gaber 2004	Serious risk of bias	Moderate risk of bias	low risk of bias	Moderate risk of bias	Moderate risk of bias	NA/ Low risk of bias
Galaznik 2013	low risk of bias	Moderate risk of bias	low risk of bias	low risk of bias	Moderate risk of bias	NA/ Low risk of bias
García-Gordillo 2012	low risk of bias	Moderate risk of bias	low risk of bias	low risk of bias	low risk of bias	NA/ Low risk of bias
García-Polo 2012	low risk of bias	Moderate risk of bias	low risk of bias	low risk of bias	low risk of bias	NA/ Low risk of bias
Gillespie 2013	low risk of bias	Moderate risk of bias	low risk of bias	Moderate risk of bias	Moderate risk of bias	NA/ Low risk of bias
Goossens 2011	low risk of bias	Moderate risk of bias	low risk of bias	Moderate risk of bias	low risk of bias	NA/ Low risk of bias
Goossens 2014	low risk of bias	Moderate risk of bias	low risk of bias	Moderate risk of bias	low risk of bias	Low risk of bias
Gruenberger 2011	Low risk of bias	Moderate risk of bias	Low risk of bias	Serious risk of bias	Serious risk of bias	NA/ Low risk of bias
Guyatt 1999	low risk of bias	Moderate risk of bias	low risk of bias	low risk of bias	low risk of bias	NA/ Low risk of bias
Gvozdenovic 2007	low risk of bias	Moderate risk of bias	low risk of bias	Moderate risk of bias	Moderate risk of bias	NA/ Low risk of bias
Hanada 2015	Serious risk of bias	Moderate risk of bias	Moderate risk of bias	Moderate risk of bias	Moderate risk of bias	NA/ Low risk of bias
Hansen 1990	Serious risk of bias	Moderate risk of bias	Moderate risk of bias	low risk of bias	Moderate risk of bias	NA/ Low risk of bias
Hansen 1994	low risk of bias	Moderate risk of bias	Moderate risk of bias	low risk of bias	Moderate risk of bias	NA/ Low risk of bias
Harper 1997	low risk of bias	Moderate risk of bias	low risk of bias	Moderate risk of bias	low risk of bias	NA/ Low risk of bias
Haughney 2005	low risk of bias	Moderate risk of bias	low risk of bias	low risk of bias	Moderate risk of bias	low risk of bias
Hawken 2017	low risk of bias	Moderate risk of bias	low risk of bias	Serious risk of bias	Moderate risk of bias	low risk of bias
Hernández 2013	Serious risk of bias	Moderate risk of bias	low risk of bias	low risk of bias	low risk of bias	NA/ Low risk of bias
Heyworth 2009	low risk of bias	Moderate risk of bias	low risk of bias	Moderate risk of bias	Serious risk of bias	NA/ Low risk of bias
Hohmeier 2016	Serious risk of bias	Moderate risk of bias	Moderate risk of bias	Moderate risk of bias	Low risk of bias	NA/ Low risk of bias
Hong 2015	Low risk of bias	Moderate risk of bias	Low risk of bias	Low risk of bias	Moderate risk of bias	NA/ Low risk of bias
Hoogendoorn 2011	low risk of bias	Moderate risk of bias	low risk of bias	Moderate risk of bias	Moderate risk of bias	NA/ Low risk of bias
Hoyle 2016	Low risk of bias	Moderate risk of bias	Low risk of bias	Moderate risk of bias	Low risk of bias	Low risk of bias
Hwang 2011	Serious risk of bias	Moderate risk of bias	Moderate risk of bias	Moderate risk of bias	Moderate risk of bias	NA/ Low risk of bias
Hyland 2016	Serious risk of bias	Moderate risk of bias	Low risk of bias	Moderate risk of bias	Moderate risk of bias	NA/ Low risk of bias
Jakobsen 2015	Low risk of bias	Moderate risk of bias	Low risk of bias	Low risk of bias	Serious risk of bias	NA/ Low risk of bias
Janssen 2011a	low risk of bias	Moderate risk of bias	low risk of bias	Moderate risk of bias	low risk of bias	NA/ Low risk of bias
Janssen 2011c	Serious risk of bias	Moderate risk of bias	Moderate risk of bias	low risk of bias	Moderate risk of bias	NA/ Low risk of bias
Janssen 2014	low risk of bias	Moderate risk of bias	low risk of bias	Serious risk of bias	low risk of bias	NA/ Low risk of bias
Jarvis 2007	Serious risk of bias	Moderate risk of bias	low risk of bias	low risk of bias	Moderate risk of bias	NA/ Low risk of bias
Jassen 2011b	low risk of bias	Moderate risk of bias	low risk of bias	Moderate risk of bias	low risk of bias	NA/ Low risk of bias
Jia 2016	Low risk of bias	Moderate risk of bias	Low risk of bias	Low risk of bias	Moderate risk of bias	NA/ Low risk of bias
Jordan 2014	Serious risk of bias	Moderate risk of bias	low risk of bias	low risk of bias	Moderate risk of bias	NA/ Low risk of bias
Katajisto 2012	low risk of bias	Moderate risk of bias	low risk of bias	Moderate risk of bias	low risk of bias	NA/ Low risk of bias
Katula 2004	Serious risk of bias	Moderate risk of bias	low risk of bias	low risk of bias	low risk of bias	NA/ Low risk of bias
Kawata 2014	low risk of bias	Moderate risk of bias	low risk of bias	Serious risk of bias	low risk of bias	low risk of bias



Norris 2005	Serious risk of bias	Moderate risk of bias	low risk of bias	low risk of bias	low risk of bias	NA/ Low risk of bias
Nyman 2007	low risk of bias	Moderate risk of bias	Moderate risk of bias	Moderate risk of bias	Moderate risk of bias	NA/ Low risk of bias
O'Reilly 2007	low risk of bias	Moderate risk of bias	low risk of bias	low risk of bias	Serious risk of bias	NA/ Low risk of bias
Ohno 2014	Serious risk of bias	Moderate risk of bias	low risk of bias	Moderate risk of bias	low risk of bias	NA/ Low risk of bias
Ojoo 2002	Serious risk of bias	Moderate risk of bias	Moderate risk of bias	Serious risk of bias	low risk of bias	NA/ Low risk of bias
Oliver 1997	Serious risk of bias	Moderate risk of bias	low risk of bias	Moderate risk of bias	Moderate risk of bias	NA/ Low risk of bias
Olszanecka-Glinia	Serious risk of bias	Moderate risk of bias	Moderate risk of bias	low risk of bias	Moderate risk of bias	NA/ Low risk of bias
Osman 2008	low risk of bias	Moderate risk of bias	low risk of bias	Moderate risk of bias	Serious risk of bias	NA/ Low risk of bias
Pallin 2012	low risk of bias	Moderate risk of bias	low risk of bias	low risk of bias	low risk of bias	NA/ Low risk of bias
Park 2015	Low risk of bias	Moderate risk of bias	Low risk of bias	Low risk of bias	Moderate risk of bias	NA/ Low risk of bias
Pascual 2015	Serious risk of bias	Moderate risk of bias	Moderate risk of bias	Moderate risk of bias	Moderate risk of bias	NA/ Low risk of bias
Paterson 2000	low risk of bias	Moderate risk of bias	low risk of bias	low risk of bias	low risk of bias	NA/ Low risk of bias
Patridge 2011	Serious risk of bias	Moderate risk of bias	Moderate risk of bias	low risk of bias	low risk of bias	NA/ Low risk of bias
Persson 2005	Serious risk of bias	Moderate risk of bias	low risk of bias	low risk of bias	low risk of bias	NA/ Low risk of bias
Peters 2014a	low risk of bias	Moderate risk of bias	low risk of bias	Moderate risk of bias	Serious risk of bias	NA/ Low risk of bias
Pickard 2011	low risk of bias	Moderate risk of bias	low risk of bias	Moderate risk of bias	Moderate risk of bias	NA/ Low risk of bias
Pisa 2013	low risk of bias	Moderate risk of bias	low risk of bias	Moderate risk of bias	Moderate risk of bias	low risk of bias
Polati 2012	Serious risk of bias	Moderate risk of bias	low risk of bias	Moderate risk of bias	Moderate risk of bias	NA/ Low risk of bias
Price 2013a	low risk of bias	Moderate risk of bias	low risk of bias	low risk of bias	Moderate risk of bias	NA/ Low risk of bias
Price 2013b	Serious risk of bias	Moderate risk of bias	Moderate risk of bias	Moderate risk of bias	Serious risk of bias	NA/ Low risk of bias
Puente-Maestu 2012	Low risk of bias	Moderate risk of bias	Low risk of bias	Low risk of bias	Moderate risk of bias	NA/ Low risk of bias
Puhan 2004	low risk of bias	Moderate risk of bias	low risk of bias	low risk of bias	low risk of bias	NA/ Low risk of bias
Puhan 2007	low risk of bias	Moderate risk of bias	low risk of bias	Moderate risk of bias	Moderate risk of bias	NA/ Low risk of bias
Punekar 2007	low risk of bias	Moderate risk of bias	low risk of bias	low risk of bias	low risk of bias	NA/ Low risk of bias
Reinke 2011	Serious risk of bias	Moderate risk of bias	low risk of bias	low risk of bias	Serious risk of bias	NA/ Low risk of bias
Reinke 2013	Serious risk of bias	Moderate risk of bias	Moderate risk of bias	Moderate risk of bias	Serious risk of bias	NA/ Low risk of bias
Rhee 2017	Low risk of bias	Moderate risk of bias	Low risk of bias	Low risk of bias	Moderate risk of bias	NA/ Low risk of bias
Riley 2016	Serious risk of bias	Moderate risk of bias	Moderate risk of bias	Moderate risk of bias	Moderate risk of bias	NA/ Low risk of bias
Ringbaek 2008	low risk of bias	Moderate risk of bias	low risk of bias	Moderate risk of bias	low risk of bias	NA/ Low risk of bias
Rinnenburger 2013	Serious risk of bias	Moderate risk of bias	low risk of bias	Moderate risk of bias	Moderate risk of bias	NA/ Low risk of bias
Rocker 2008	Serious risk of bias	Moderate risk of bias	low risk of bias	Moderate risk of bias	Moderate risk of bias	NA/ Low risk of bias
Rocker 2013	Serious risk of bias	Moderate risk of bias	Moderate risk of bias	Moderate risk of bias	low risk of bias	NA/ Low risk of bias
Rodriguez Gonzalez	low risk of bias	Moderate risk of bias	low risk of bias	Moderate risk of bias	Moderate risk of bias	NA/ Low risk of bias
Rutten van Molke	low risk of bias	Moderate risk of bias	low risk of bias	low risk of bias	Moderate risk of bias	NA/ Low risk of bias
Rutten van Molke	low risk of bias	Moderate risk of bias	low risk of bias	Moderate risk of bias	low risk of bias	NA/ Low risk of bias
Sassi-Dambron 1999	low risk of bias	Moderate risk of bias	low risk of bias	Serious risk of bias	Moderate risk of bias	NA/ Low risk of bias
Scharf 2011	low risk of bias	Moderate risk of bias	low risk of bias	Moderate risk of bias	low risk of bias	NA/ Low risk of bias
Schunemann 2005	low risk of bias	low risk of bias	low risk of bias	low risk of bias	low risk of bias	NA/ Low risk of bias
Schunemann 2006	low risk of bias	Serious risk of bias	low risk of bias	low risk of bias	Moderate risk of bias	NA/ Low risk of bias
Seymour 2010	low risk of bias	Moderate risk of bias	low risk of bias	Moderate risk of bias	Moderate risk of bias	NA/ Low risk of bias
Sharafkhaneh 2011	Serious risk of bias	Moderate risk of bias	Moderate risk of bias	low risk of bias	Serious risk of bias	NA/ Low risk of bias
Siler 2014	Serious risk of bias	Moderate risk of bias	Moderate risk of bias	Moderate risk of bias	Moderate risk of bias	NA/ Low risk of bias
Simon 2013	Serious risk of bias	Moderate risk of bias	Moderate risk of bias	Serious risk of bias	Moderate risk of bias	NA/ Low risk of bias
Small 2015	Low risk of bias	Moderate risk of bias	Low risk of bias	Low risk of bias	Moderate risk of bias	NA/ Low risk of bias
Solem 2013	low risk of bias	Moderate risk of bias	low risk of bias	low risk of bias	Moderate risk of bias	NA/ Low risk of bias

Sorensen 2016	Low risk of bias	Moderate risk of bias	Low risk of bias	Moderate risk of bias	Low risk of bias	NA/ Low risk of bias
Spencer 2013	Serious risk of bias	Moderate risk of bias	Moderate risk of bias	Moderate risk of bias	low risk of bias	NA/ Low risk of bias
Stahl 2005	low risk of bias	Moderate risk of bias	low risk of bias	Moderate risk of bias	low risk of bias	NA/ Low risk of bias
Stapleton 2005	Serious risk of bias	Moderate risk of bias	low risk of bias	low risk of bias	Serious risk of bias	NA/ Low risk of bias
Starkie 2011	low risk of bias	Moderate risk of bias	low risk of bias	Moderate risk of bias	Moderate risk of bias	NA/ Low risk of bias
Stavem 1999	low risk of bias	Moderate risk of bias	low risk of bias	low risk of bias	low risk of bias	NA/ Low risk of bias
Stavem 2002a	low risk of bias	low risk of bias	low risk of bias	low risk of bias	Serious risk of bias	NA/ Low risk of bias
Stavem 2002b	low risk of bias	low risk of bias	low risk of bias	low risk of bias	Serious risk of bias	NA/ Low risk of bias
Stein 2009	low risk of bias	Moderate risk of bias	low risk of bias	low risk of bias	Serious risk of bias	NA/ Low risk of bias
Steuten 2006	low risk of bias	Moderate risk of bias	low risk of bias	low risk of bias	low risk of bias	NA/ Low risk of bias
Stoddart 2015	Low risk of bias	Moderate risk of bias	Low risk of bias	Low risk of bias	Moderate risk of bias	NA/ Low risk of bias
Sundh 2015	Low risk of bias	Moderate risk of bias	Low risk of bias	Low risk of bias	Moderate risk of bias	NA/ Low risk of bias
Sutherland 2009	Serious risk of bias	Moderate risk of bias	low risk of bias	Moderate risk of bias	low risk of bias	NA/ Low risk of bias
Svedsater 2013	Serious risk of bias	Moderate risk of bias	low risk of bias	Moderate risk of bias	Moderate risk of bias	NA/ Low risk of bias
Szende 2009	low risk of bias	Moderate risk of bias	low risk of bias	Moderate risk of bias	Moderate risk of bias	NA/ Low risk of bias
Tabak 2014	low risk of bias	Moderate risk of bias	low risk of bias	Moderate risk of bias	Serious risk of bias	NA/ Low risk of bias
Taylor 2012	low risk of bias	Moderate risk of bias	low risk of bias	low risk of bias	Serious risk of bias	NA/ Low risk of bias
Torrance 1999	low risk of bias	Moderate risk of bias	low risk of bias	Moderate risk of bias	Serious risk of bias	NA/ Low risk of bias
Torres-Sánchez 2015	Low risk of bias	Moderate risk of bias	Low risk of bias	Low risk of bias	Moderate risk of bias	NA/ Low risk of bias
Travaline 1995	Serious risk of bias	Moderate risk of bias	low risk of bias	low risk of bias	low risk of bias	NA/ Low risk of bias
Turner 2014	low risk of bias	Moderate risk of bias	low risk of bias	low risk of bias	low risk of bias	NA/ Low risk of bias
Utens 2012	low risk of bias	Moderate risk of bias	low risk of bias	low risk of bias	Serious risk of bias	NA/ Low risk of bias
Utens 2013	Serious risk of bias	Moderate risk of bias	Moderate risk of bias	low risk of bias	Serious risk of bias	NA/ Low risk of bias
Utens 2014	Serious risk of bias	Moderate risk of bias	Moderate risk of bias	low risk of bias	Moderate risk of bias	NA/ Low risk of bias
van Boven 2016	Low risk of bias	Moderate risk of bias	Low risk of bias	Moderate risk of bias	Low risk of bias	NA/ Low risk of bias
van den Bemt 2009	low risk of bias	Moderate risk of bias	low risk of bias	low risk of bias	low risk of bias	NA/ Low risk of bias
van der Palen 2011	Serious risk of bias	Moderate risk of bias	Moderate risk of bias	Moderate risk of bias	Moderate risk of bias	NA/ Low risk of bias
van der Palen 2011	Serious risk of bias	Moderate risk of bias	low risk of bias	Moderate risk of bias	Moderate risk of bias	NA/ Low risk of bias
van der Palen 2011	Serious risk of bias	Moderate risk of bias	Moderate risk of bias	Moderate risk of bias	Moderate risk of bias	NA/ Low risk of bias
van der Valk 2002	low risk of bias	Moderate risk of bias	low risk of bias	Moderate risk of bias	Serious risk of bias	NA/ Low risk of bias
Vestbo 2014	low risk of bias	Moderate risk of bias	low risk of bias	low risk of bias	Serious risk of bias	NA/ Low risk of bias
Villar Balboa 2014	low risk of bias	Moderate risk of bias	low risk of bias	low risk of bias	Low risk of bias	NA/ Low risk of bias
Vogelmeier 2016	Serious risk of bias	Moderate risk of bias	Moderate risk of bias	Moderate risk of bias	Low risk of bias	NA/ Low risk of bias
Walters 2003	low risk of bias	Moderate risk of bias	low risk of bias	Moderate risk of bias	Moderate risk of bias	NA/ Low risk of bias
Wildman 2009	low risk of bias	Moderate risk of bias	low risk of bias	low risk of bias	Serious risk of bias	NA/ Low risk of bias
Wilke 2012	low risk of bias	Moderate risk of bias	low risk of bias	low risk of bias	Moderate risk of bias	NA/ Low risk of bias
Wilson 2005	Serious risk of bias	Moderate risk of bias	low risk of bias	low risk of bias	Serious risk of bias	NA/ Low risk of bias
Wilson 2007	Serious risk of bias	Moderate risk of bias	Moderate risk of bias	Moderate risk of bias	Moderate risk of bias	NA/ Low risk of bias
Wu 2015	Low risk of bias	Moderate risk of bias	Low risk of bias	Moderate risk of bias	Low risk of bias	NA/ Low risk of bias
Yong-Mi 2011	low risk of bias	Moderate risk of bias	low risk of bias	low risk of bias	Moderate risk of bias	NA/ Low risk of bias
Yun Kirby 2016	Serious risk of bias	Moderate risk of bias	Moderate risk of bias	Moderate risk of bias	Low risk of bias	NA/ Low risk of bias
Zanaboni 2017	Low risk of bias	Moderate risk of bias	Low risk of bias	Moderate risk of bias	Low risk of bias	NA/ Low risk of bias
Zanini 2014	low risk of bias	Moderate risk of bias	low risk of bias	low risk of bias	Moderate risk of bias	NA/ Low risk of bias