

## S4 - Quality Appraisal Table

Table 3. Quality appraisal of included studies using Jonna Briggs Institute (JBI) Level of Evidence Checklists

Study Reference	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13
<i>JBI Critical Appraisal Checklist for Analytical Cross-sectional Studies</i>													
Akella et al., 1991[1]	Y	UC	Y	NA	NA	NA	NA	Y					
Aujla et al., 2015[2]	Y	Y	UC	NA	Y	N	NA	Y					
Bacchi et al., 2013[3]	Y	Y	Y	NA	Y	Y	NA	Y					
Bria et al., 2011[4]	Y	Y	Y	NA	Y	N	NA	Y					
Bronner et al., 2016[5]	Y	Y	UC	NA	Y	N	NA	Y					
Buchanan et al., 1992[6]	Y	Y	UC	NA	NA	NA	NA	NA					
Burzynska et al., 2017[7]	Y	Y	UC	NA	Y	NA	NA	NA					
Cain et al., 2015[8]	Y	Y	Y	NA	Y	Y	NA	Y					
Cain et al., 2015[9]	Y	Y	UC	NA	Y	Y	NA	Y					
Cale'-Benzoor et al., 1992[10]	Y	Y	Y	NA	N	NA	NA	NA					
Chatfield et al., 1990[11]	Y	Y	UC	NA	Y	NA	NA	Y					
Cohen et al., 1980[12]	Y	Y	UC	NA	Y	NA	NA	Y					
D'Ottavio et al., 2016[13]	Y	Y	Y	NA	Y	NA	NA	Y					
Dang et al., 2020[14]	N	N	Y	NA	Y	NA	NA	NA					
de-la-Cruz-Torres et al., 2020[15]	Y	Y	UC	NA	Y	UC	NA	Y					
de-la-Cruz-Torres et al., 2020[16]	Y	Y	Y	Y	Y	NA	Y	Y					
Ducher et al., 2011[17]	Y	Y	Y	NA	NA	NA	NA	Y					
Dusek, 2001[18]	UC	Y	UC	NA	N	NA	NA	NA					
Escobar Álvarez et al., 2020[19]	Y	Y	UC	NA	Y	NA	NA	NA					

Study Reference	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13
Fogelholm et al., 1996[20]	Y	Y	Y	NA	N	NA	NA	NA					
Fostervold Mathisen et al., 2022[21]	Y	Y	UC	NA	Y	NA	NA	Y					
Glance et al., 2006[22]	Y	Y	UC	NA	NA	NA	NA	Y					
Gorwa et al., 2019[23]	Y	Y	Y	NA	Y	NA	NA	Y					
Gorwa et al., 2021[24]	Y	Y	UC	NA	Y	NA	NA	Y					
Groer & Fallon, 1993[25]	Y	Y	UC	NA	Y	NA	NA	NA					
Guidetti et al., 2007[26]	Y	Y	Y	NA	Y	NA	NA	Y					
Hafiz et al., 2016[27]	Y	Y	Y	NA	Y	NA	NA	Y					
Hamilton et al., 2006[28]	Y	Y	Y	NA	Y	N	NA	Y					
Hirsch et al., 2003[29]	Y	Y	Y	NA	Y	NA	NA	NA					
Joka et al., 2015[30]	Y	Y	UC	NA	Y	Y	NA	Y					
Junck et al., 2017[31]	Y	UC	UC	NA	Y	N	NA	NA					
Kadel et al., 1992[32]	Y	Y	UC	NA	Y	Y	NA	Y					
Kattenstroth et al., 2011[33]	Y	Y	UC	NA	N	NA	NA	Y					
Kaufmann et al., 2021[34]	Y	Y	UC	NA	Y	NA	NA	NA					
Kauther et al., 2009[35]	N	UC	Y	NA	Y	NA	NA	Y					
Kawalek & Gobet, 2022[36]	Y	Y	Y	NA	Y	NA	NA	Y					
Kilicarslan et al., 2007[37]	Y	Y	Y	NA	Y	NA	NA	NA					
Kish et al., 2003[38]	Y	Y	Y	NA	Y	NA	NA	Y					
Łągowska & Kapczuk, 2016[39]	Y	Y	Y	NA	Y	N	NA	Y					

Study Reference	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13
Lankford et al., 2014[40]	Y	Y	Y	NA	Y	NA	NA	Y					
Li & Yao, 2005[41]	Y	UC	UC	NA	N	NA	NA	NA					
Liiv et al., 2013[42]	Y	Y	Y	NA	Y	N	NA	Y					
Liiv et al., 2014[43]	Y	Y	Y	NA	Y	N	NA	Y					
Longworth et al., 2014[44]	Y	Y	Y	NA	Y	Y	NA	Y					
Lopez Castillo et al., 2015[45]	Y	Y	Y	NA	Y	Y	NA	Y					
Massidda et al., 2011[46]	Y	Y	UC	NA	Y	Y	NA	Y					
Mayers et al., 2003[47]	Y	Y	UC	NA	Y	N	NA	Y					
McGuinness & Doody, 2006[48]	Y	Y	Y	NA	Y	NA	NA	Y					
McMahon et al., 2021[49]	Y	Y	UC	NA	NA	NA	NA	NA					
Miletic et al., 2009[50]	Y	Y	Y	NA	Y	NA	NA	Y					
Miletic et al., 2011[51]	Y	Y	Y	NA	Y	NA	NA	Y					
Miletic, Miletic, & Milavic, 2015[52]	Y	Y	Y	NA	Y	NA	NA	NA					
Miletic et al., 2015[53]	Y	Y	Y	NA	Y	NA	NA	NA					
Nawrocka et al., 2017[54]	Y	Y	Y	NA	Y	NA	NA	NA					
Nunes et al., 2002[55]	Y	Y	UC	NA	Y	Y	NA	Y					
O'Neill et al., 2012[56]	Y	Y	Y	NA	Y	Y	NA	Y					
Oliveira et al., 2010[57]	Y	Y	Y	NA	NA	NA	NA	Y					
Padfield et al., 1993[58]	Y	Y	Y	NA	Y	NA	NA	Y					
Panhale et al., 2020[59]	Y	Y	Y	NA	N	NA	NA	NA					

Study Reference	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13
Pate et al., 2010[60]	Y	UC	Y	NA	Y	Y	NA	Y					
Pedersen & Wilmerding, 1998[61]	Y	Y	UC	NA	Y	NA	NA	Y					
Pekkarinen et al., 1989[62]	Y	Y	UC	NA	NA	NA	NA	NA					
Pellicciari et al., 2016[63]	Y	Y	Y	NA	Y	NA	NA	Y					
Peltonen et al., 1997[64]	Y	Y	N	NA	N	NA	NA	Y					
Premelč et al., 2019[65]	Y	Y	Y	NA	Y	Y	NA	Y					
Redding et al., 2004[66]	Y	Y	Y	NA	Y	NA	NA	Y					
Riding McCabe et al., 2014[67]	Y	Y	Y	NA	Y	N	NA	Y					
Roussel et al., 2013[68]	Y	Y	UC	NA	Y	NA	NA	NA					
Scialom et al., 2006[69]	Y	Y	UC	NA	Y	N	NA	Y					
Shah et al., 2012[70]	Y	Y	UC	NA	Y	Y	NA	NA					
Staal et al., 2018[71]	Y	Y	UC	NA	Y	NA	NA	Y					
Steinberg et al., 2013[72]	Y	Y	Y	NA	Y	Y	NA	Y					
Steinberg et al., 2020[73]	Y	N	Y	NA	Y	Y	NA	Y					
Steinberg et al., 2011[74]	Y	Y	y	NA	Y	Y	NA	Y					
Steinberg et al., 2011[75]	Y	Y	UC	NA	Y	NA	NA	NA					
Stracciolini et al., 2017[76]	Y	UC	Y	NA	Y	NA	NA	NA					

Study Reference	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13
Stracciolini, et al., 2017[77]	Y	UC	Y	NA	Y	N	NA	Y					
Szopa et al., 2022[78]	Y	Y	UC	NA	Y	Y	NA	Y					
Tekin, 2020[79]	Y	Y	UC	NA	Y	NA	NA	Y					
Tjukov et al., 2020[80]	Y	Y	UC	NA	Y	Y	NA	Y					
To et al., 1995[81]	Y	Y	UC	NA	Y	NA	NA	Y					
Tsiouti & Wyon, 2021[82]	Y	Y	Y	NA	Y	NA	NA	Y					
Twitchett et al., 2009[83]	Y	Y	Y	NA	Y	NA	NA	Y					
Vaczi et al., 2016[84]	Y	Y	Y	NA	Y	NA	NA	Y					
Valentino et al., 2001[85]	UC	Y	UC	NA	Y	NA	NA	Y					
Watkins et al., 1989[86]	Y	Y	UC	NA	Y	N	NA	Y					
Weiss et al., 2008[87]	Y	Y	Y	NA	Y	NA	NA	NA					
Wilmerding et al., 2002[88]	UC	UC	UC	NA	Y	NA	NA	NA					
Witkoś & Wróbel, 2019[89]	N	UC	UC	NA	NA	NA	NA	NA					
Wyon et al., 2002[90]	Y	Y	Y	NA	Y	NA	NA	Y					
Wyon et al., 2011[91]	Y	Y	Y	NA	Y	Y	NA	Y					
Wyon et al., 2018[92]	N	N	Y	NA	Y	NA	NA	Y					
Yannakoulia et al., 2004[93]	Y	Y	UC	NA	Y	Y	NA	Y					
Young & Paul, 2002[94]	Y	Y	Y	NA	Y	NA	NA	Y					
Yung et al., 2005[95]	Y	Y	UC	NA	Y	NA	NA	NA					
Zanchini & Malaguti, 2014[96]	Y	Y	Y	NA	Y	N	NA	Y					

*JBI Critical Appraisal Checklist for Cohort Studies*

Study Reference	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13
Alan Galanti et al., 1993[97]	NA	NA	UC	NA	NA	NA	NA	Y	Y	NA	NA		
Allen et al., 2012[98]	NA	NA	Y	Y	NA	NA	NA	Y	Y	NA	NA		
Allen et al., 2013[99]	NA	NA	Y	Y	N	NA	NA	Y	UC	Y	Y		
Baillie et al., 2007[100]	NA	NA	Y	NA	NA	NA	NA	Y	Y	NA	Y		
Bennell, 2001[101]	Y	N	UC	N	NA	NA	NA	Y	Y	UC	NA		
Blanksby & Reidy, 1988[102]	NA	NA	Y	Y	NA	NA	NA	Y	Y	NA	NA		
Boeding et al., 2019[103]	NA	NA	Y	Y	UC	NA	NA	Y	Y	NA	Y		
Bronner & Wood, 2017[104]	NA	NA	Y	Y	NA	NA	NA	Y	Y	Y	Y		
(Bronner et al., 2003[105]	Y	Y	N	Y	NA	NA	NA	Y	UC	UC	NA		
Bronner, 2021[106]	NA	NA	Y	Y	Y	NA	NA	Y	Y	N	Y		
Brown et al., 2020[107]	NA	NA	UC	Y	Y	NA	NA	Y	Y	Y	Y		
Cahalan et al., 2018[108]	Y	Y	Y	Y	NA	NA	NA	Y	Y	Y	Y		
Cahalan et al., 2019[109]	NA	NA	Y	Y	Y	NA	NA	Y	Y	Y	Y		
Chen et al., 2006[110]	NA	NA	Y	NA	NA	NA	NA	Y	Y	NA	NA		
Cohen, Segal, & McArdle, 1982[111]	NA	NA	Y	Y	NA	NA	NA	Y	UC	UC	NA		
Cohen et al., 1982[112]	NA	NA	Y	Y	NA	NA	NA	Y	Y	NA	Y		
Coogan et al., 2020[113]	NA	NA	UC	N	NA	NA	NA	Y	Y	NA	NA		
Coogan et al., 2021[114]	NA	NA	Y	Y	NA	NA	NA	Y	UC	UC	NA		
da Silva et al., 2015[115]	NA	NA	Y	NA	NA	NA	NA	Y	Y	NA	Y		

Study Reference	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13
Dahlström et al., 1996[116]	NA	NA	Y	Y	NA	NA	NA	Y	Y	NA	Y		
Dahlström, 1997[117]	N	Y	Y	Y	NA	NA	NA	Y	Y	NA	Y		
DiPasquale, 2018[118]	Y	Y	Y	Y	NA	NA	NA	Y	Y	N	Y		
Domene & Easton, 2014[119]	NA	NA	Y	Y	Y	NA	NA	Y	Y	NA	Y		
Echegoyen et al., 2010[120]	NA	NA	UC	Y	NA	NA	NA	Y	UC	UC	NA		
Edmonds et al., 2018[121]	NA	NA	Y	NA	NA	NA	NA	Y	Y	NA	Y		
Ekegren et al., 2014[122]	NA	NA	N	Y	N	NA	NA	Y	Y	UC	NA		
Emerenziani et al., 2013[123]	NA	NA	Y	Y	NA	NA	NA	Y	Y	NA	Y		
Fuller et al., 2020[124]	NA	NA	Y	N	N	UC	Y	Y	Y	NA	Y		
Guidetti et al., 2015[125]	NA	NA	Y	Y	Y	NA	NA	Y	Y	NA	Y		
Jeffries et al., 2017[126]	NA	NA	Y	Y	Y	NA	NA	Y	UC	Y	Y		
Jeffries et al., 2020[127]	NA	NA	Y	N	N	UC	Y	Y	Y	NA	Y		
Kenny et al., 2018[128]	N	Y	Y	Y	N	NA	NA	Y	Y	Y	Y		
Koch et al., 2020[129]	Y	Y	Y	Y	NA	NA	NA	Y	Y	NA	Y		
Kozai et al., 2020[130]	Y	Y	Y	Y	Y	NA	NA	Y	Y	NA	Y		
Kujala et al., 1997[131]	UC	UC	UC	N	NA	NA	NA	Y	N	UC	NA		
Łagowska, 2014[132]	NA	NA	UC	NA	NA	NA	NA	Y	Y	Y	Y		
Lee et al., 2017[133]	NA	NA	N	Y	UC	NA	NA	Y	Y	UC	Y		
Luke et al., 2002[134]	NA	NA	UC	N	NA	NA	NA	Y	UC	UC	Y		
Mailuhu et al., 2021[135]	Y	Y	UC	Y	NA	NA	NA	Y	Y	N	NA		

Study Reference	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13
Matthews et al., 2006[136]	Y	Y	Y	Y	Y	NA	NA	Y	UC	UC	Y		
Matthews et al., 2006[137]	Y	Y	UC	N	NA	NA	NA	Y	UC	UC	Y		
Mattiussi et al., 2021[138]	NA	NA	Y	Y	Y	NA	NA	Y	Y	UC	Y		
McBride & Bronner, 2022[139]	Y	Y	Y	Y	Y	NA	NA	Y	Y	Y	Y		
Nicholas et al., 2019[140]	NA	NA	Y	Y	NA	NA	NA	Y	Y	NA	Y		
Noble & Howley, 1979[141]	NA	NA	Y	NA	NA	NA	NA	Y	Y	NA	Y		
O'Neill et al., 2011[142]	NA	NA	Y	N	NA	NA	NA	Y	Y	Y	Y		
Pigeon et al., 1997[143]	N	N	Y	NA	NA	NA	NA	Y	Y	NA	Y		
Pilch et al., 2017[144]	NA	NA	Y	Y	NA	NA	NA	Y	Y	NA	Y		
Rimmer et al., 1994[145]	NA	NA	Y	Y	NA	NA	NA	Y	Y	NA	NA		
Rodrigues-Krause et al., 2014[146]	NA	NA	Y	Y	NA	NA	NA	Y	Y	NA	Y		
Rodrigues-Krause et al., 2018[147]	NA	NA	y	Y	NA	NA	NA	Y	Y	NA	Y		
Salmon et al., 2020[148]	NA	NA	Y	Y	NA	NA	NA	Y	Y	Y	N		
Sanders et al., 2021[149]	NA	NA	Y	NA	NA	NA	NA	Y	Y	NA	Y		
Schantz & Astrand, 1984[150]	N	N	Y	Y	NA	NA	NA	Y	Y	NA	Y		
Shaw et al., 2020[151]	NA	NA	Y	Y	NA	NA	NA	Y	Y	Y	Y		
Smith et al., 1994[152]	NA	NA	Y	Y	NA	NA	NA	Y	Y	NA	NA		



Study Reference	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13
Steinberg et al., 2014[153]	NA	NA	Y	Y	Y	NA	NA	Y	UC	UC	Y		
Steinberg et al., 2018[154]	NA	NA	Y	Y	NA	NA	NA	Y	Y	UC	Y		
Stubbe et al., 2022[155]	NA	NA	Y	Y	NA	NA	NA	Y	Y	NA	NA		
Surgenor & Wyon, 2019[156]	NA	NA	Y	Y	UC	NA	NA	Y	Y	NA	Y		
Swain et al., 2018[157]	N	Y	Y	Y	Y	NA	NA	Y	Y	Y	Y		
To et al., 2000[158]	NA	NA	UC	Y	NA	NA	NA	Y	Y	Y	Y		
Twitchett et al., 2010[159]	NA	NA	Y	Y	NA	NA	NA	Y	Y	NA	Y		
van Winden et al., 2019[160]	NA	NA	N	Y	NA	NA	NA	Y	Y	UC	NA		
van Winden et al., 2020[161]	NA	NA	N	Y	NA	NA	NA	Y	Y	N	NA		
Volkova et al., 2020[162]	NA	NA	Y	NA	NA	NA	NA	Y	Y	Y	Y		
Warren, 1980[163]	Y	N	UC	Y	NA	NA	NA	Y	UC	UC	NA		
Weigert & Erickson, 2007[164]	NA	NA	UC	NA	NA	NA	NA	Y	Y	UC	NA		
Wyon et al., 2004[165]	NA	NA	Y	Y	NA	NA	NA	Y	UC	UC	Y		
Yin et al., 2019[166]	NA	NA	UC	N	NA	NA	NA	Y	Y	Y	NA		
Zajenkowski et al., 2015[167]	Y	Y	Y	Y	NA	NA	NA	Y	Y	NA	Y		
<i>JBI Critical Appraisal Checklist for Studies Reporting Prevalence Data</i>													
Chia, 2017[168]	UC	UC	UC	Y	N	NA	NA	NA	UC				
Cho et al., 2009[169]	UC	UC	UC	Y	Y	NA	NA	Y	UC				
Grochowska-Niedworok et al., 2018[170]	Y	Y	UC	Y	UC	NA	NA	NA	Y				

Study Reference	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13
Mittleman et al., 1992[171]	Y	UC	Y	Y	NA	NA	NA	NA	Y				
Noon et al., 2010[172]	Y	Y	UC	Y	UC	NA	NA	NA	NA				
Pedersen et al., 2001[173]	Y	UC	UC	Y	NA	NA	NA	NA	UC				
Ramel & Moritz, 1994[174]	Y	Y	UC	Y	NA	NA	NA	NA	Y				
Ramkumar et al., 2016[175]	Y	Y	UC	Y	NA	NA	NA	NA	UC				
Seliger et al., 1970[176]	UC	UC	UC	UC	NA	NA	NA	NA	UC				
Soares Campoy et al., 2011[177]	Y	Y	UC	Y	Y	NA	NA	NA	UC				
Vassallo et al., 2018[178]	Y	Y	UC	Y	UC	NA	NA	Y	UC				
Verulava et al., 2021[179]	Y	Y	UC	Y	NA	NA	NA	NA	NA				
Wanke et al., 2020[180]	Y	UC	UC	Y	Y	NA	NA	Y	UC				
Zagorc et al., 1999[181]	Y	UC	UC	Y	NA	NA	NA	NA	NA				
<i>JBI Critical Appraisal Checklist for Case Report Studies</i>													
Nougues et al., 2022[182]	Y	Y	Y	Y	Y	Y	NA	UC					
Rovisco Branquinho & Páscoa Pinheiro, 2022[183]	Y	Y	Y	Y	Y	Y	NA	Y					
Shah et al., 2005[184]	Y	Y	Y	Y	Y	Y	N	Y					
Shybut et al., 2008[185]	Y	Y	Y	Y	Y	Y	NA	Y					
<i>JBI Critical Appraisal Checklist for Quasi-Experimental Studies</i>													

Study Reference	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13
Di Blasio et al., 2009[186]	Y	Y	N	N	N	Y	NA	NA	Y				
Gallotta et al., 2011[187]	Y	Y	Y	N	Y	UC	NA	NA	Y				
Kim et al., 2020[188]	Y	Y	Y	Y	Y	Y	NA	NA	NA				
Klonova & Klonovs, 2010[189]	Y	Y	Y	N	Y	Y	NA	NA	NA				
Łagowska et al., 2014[190]	Y	N	Y	N	Y	UC	NA	NA	Y				
Lavoie & Lebe-Neron, 1982[191]	Y	Y	Y	Y	Y	N	NA	NA	Y				
Mistiaen et al., 2012[192]	Y	Y	Y	N	Y	NA	NA	NA	Y				
Ojofeitimi & Bronner, 2011[193]	Y	Y	Y	N	Y	Y	NA	NA	NA				
Schmitt et al., 2005[194]	Y	Y	Y	Y	Y	Y	NA	NA	Y				
<i>JBI Critical Appraisal Checklist for Case-Control Studies</i>													
Pasulka et al., 2017[195]	Y	N	Y	Y	Y	NA	NA	NA	Y				
<i>JBI Critical Appraisal Checklist for Randomized Controlled Studies</i>													
Ávila-Carvalho et al., 2022[196]	UC	UC	Y	N	N	UC	Y	Y	Y	NA	NA	NA	Y
Butulis et al., 2021[197]	Y	Y	Y	N	N	UC	Y	Y	Y	NA	NA	NA	Y
Cofré-Fernández et al., 2021[198]	Y	Y	Y	UC	UC	Y	Y	Y	Y	NA	NA	NA	Y
Escobar Álvarez et al., 2020[199]	UC	UC	Y	N	UC	UC	Y	Y	Y	NA	NA	Y	UC

Where Y = yes; N = no; UC = unclear; NA = not applicable; shaded squares indicate the question was not included on the study design specific checklist.

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