

Appendix. Risk of bias assessment with the ROBINS-I tool

	Bias due to confounding	Bias in selecting of participants	Bias in classification of interventions	Bias due to deviations from intervention	Bias due to missing data	Bias in measurement of outcomes	Bias in selection of the reported result	Overall risk of bias
Arnal-Burró J. et al. [25]	Yes	Probably No	No	No	No	Yes	No	Moderate
Jacquet C. et al. [26]	No	Probably Yes	No	No	No	No	No	Moderate
Shi J. et al. [27]	No	Probably No	No	No	No	No	No	Moderate
Abdelhameed M.A. et al. [7]	No	Probably No	No	No	No	Probably No	No	Moderate
Savov P. et al. [10]	Yes	Probably No	No	No	No	Probably No	No	Moderate
Huang Y.C. et al. [28]	No	Probably No	No	No	No	Probably No	No	Moderate
Jud L. et al. [29]	Yes	Probably No	No	No	No	No	No	Moderate
Gomez-Palomo J.M. et al. [35]								
Sabatini L. et al. [31]								
Imhoff F.B. et al. [32]								
Grasso F. et al. [33]	No	Probably No	No	No	No	Probably No	No	Moderate
Pioger C. et al. [34]	No	Probably Yes	No	No	No	Probably No	No	Moderate
Gomez-Palomo J.M. et al. [35]								
Fürnstahl P. et al. [36]	No	Probably No	No	No	No	Probably No	No	Moderate
Wang H. et al. [37]	No	Probably No	No	No	No	No	No	Moderate
Yang P. et al. [38]	No	Probably No	No	No	No	No	No	Moderate
Pagkalos J. et al. [39]								
Zaleski M. et al. [40]								
Hsu C.P. et al. [41]								
Pérez-Mananes R. et al. [4]	Yes	Probably Yes	No	No	No	No	No	Moderate
Kim H.J. et al. [5]	No	Yes	No	No	No	No	No	Moderate
Tardy N. et al. [6]	No	Probably No	No	No	No	No	Yes	Moderate
Fayard J.M. et al. [8]	Probably No	Probably No	No	No	No	Probably No	No	Moderate
Predescu V. et al. [9]	Yes	Probably No	No	No	No	No	No	Moderate
Chaouche S. et al. [11]	No	Probably No	No	No	No	No	No	Moderate
Yang J.C. et al. [12]	Yes	Yes	No	No	Probably No	Probably Yes	No	Serious
Munier M. et al. [13]	Probably Yes	Probably No	No	No	No	No	No	Moderate
Jacquet C. et al. [14]	No	Probably No	No	No	No	Probably No	No	Moderate
Fucentese S.F. et al. [15]	Yes	Probably No	No	Yes	No	No	No	Serious
Van Genechten W. et al. [16]	No	No	No	No	No	Probably No	No	Moderate
Zaffagnini S. et al. [17]	No	Probably No	No	No	No	Probably No	No	Moderate
Zhu X. et al. [18]	No	No	No	No	No	Probably No	No	Moderate
Jeong S.H. et al. [19]								
Lau C.K. et al. [20]								
Donnez M. et al. [21]								
Miao Z. et al. [22]								
MacLeod A.R. et al. [23]								
Rosso F. et al. [24]								

Each domain of bias is evaluated with one of the following responses: “yes”, “probably yes”, “probably no”, and “no”, with probable responses having similar implications as “yes” or “no” but are not absolute. The categories of judgement for each study are **low**, **moderate**, **serious**, and **critical**.