

Study	Risk of bias domains							Overall
	D1	D2	D3	D4	D5	D6	D7	
Rastrelli et al, 2021 [46]	⊖	⊕	⊖	⊕	⊕	⊕	⊖	⊖
Ma et al, 2021 [48]	⊕	⊕	⊖	⊕	⊕	⊖	⊕	⊕
Çayan et al, 2020 [49]	⊖	⊕	⊕	⊖	⊕	⊕	⊖	⊕
Saliccia et al, 2020 [50]	⊕	⊖	⊕	⊕	⊕	⊖	⊕	⊕
Ruan et al, 2021 [22]	⊖	⊕	⊕	⊕	⊖	⊖	⊕	⊖
Yeap et al, 2022 [40]	⊕	⊕	⊖	⊕	⊕	⊕	⊕	⊕
Xu et al, 2021 [23]	⊖	⊖	⊕	⊖	⊕	⊖	⊕	⊖
Okçelik, 2021 [71]	⊕	⊕	⊖	⊕	⊖	⊖	⊕	⊕
Temiz et al, 2021 [72]	⊕	⊖	⊕	⊕	⊕	⊕	⊖	⊕
Kadihasanoglu et al, 2021 [51]	⊕	⊕	⊕	⊖	⊕	⊕	⊖	⊕
Salonia et al, 2021 [24]	⊖	⊕	⊕	⊖	⊕	⊕	⊖	⊕
Saliccia et al, 2021 [64]	⊖	⊕	⊕	⊕	⊕	⊖	⊕	⊖
Camici et al, 2021 [52]	⊕	⊕	⊕	⊖	⊕	⊖	⊕	⊕
Dhindsa et al, 2021 [53]	⊖	⊕	⊕	⊖	⊕	⊖	⊕	⊖
Moreno-Perez et al, 2022 [67]	⊕	⊖	⊕	⊕	⊖	⊕	⊕	⊕
Koç and Keseroğlu, 2021 [44]	⊕	⊕	⊕	⊕	⊖	⊖	⊕	⊕
Cinisliloglu et al, 2022 [54]	⊕	⊕	⊕	⊖	⊕	⊕	⊖	⊕
Schroeder et al, 2021 [62]	⊖	⊕	⊖	⊖	⊕	⊖	⊕	⊖
Salonia et al, 2022 [66]	⊖	⊕	⊖	⊕	⊕	⊕	⊕	⊕
Gul et al, 2021 [45]	⊕	⊕	⊕	⊕	⊖	⊖	⊕	⊕
van Zeggeren et al, 2021 [55]	⊖	⊕	⊖	⊕	⊖	⊕	⊖	⊖
Infante et al, 2021 [56]	⊕	⊕	⊖	⊖	⊕	⊖	⊖	⊖
Scropo et al, 2021 [73]	⊖	⊕	⊕	⊕	⊕	⊖	⊕	⊕
Di Stasi et al, 2022 [63]	⊕	⊕	⊕	⊖	⊕	⊖	⊕	⊕
Saad et al, 2022 [68]	⊕	⊖	⊕	⊖	⊕	⊕	⊖	⊖
Zheng et al, 2022 [57]	⊖	⊕	⊖	⊖	⊕	⊖	⊕	⊖
Vena et al, 2022 [58]	⊖	⊕	⊕	⊖	⊕	⊕	⊖	⊕
Huang et al, 2022 [74]	⊖	⊕	⊖	⊖	⊕	⊕	⊕	⊖
Karkin and Alma, 2021 [41]	⊖	⊖	⊖	⊖	⊕	⊕	⊖	⊖
Apaydin et al, 2022 [65]	⊖	⊕	⊕	⊕	⊕	⊕	⊖	⊕
Enikeev et al, 2022 [70]	⊕	⊕	⊖	⊕	⊕	⊖	⊖	⊕
Beltrame et al, 2022 [59]	⊕	⊕	⊖	⊖	⊖	⊕	⊖	⊖
Gonen et al, 2022 [69]	⊖	⊕	⊕	⊕	⊖	⊖	⊕	⊖
Baldassarri et al, 2021 [32]	⊕	⊕	⊖	⊕	⊖	⊖	⊕	⊖
Zhang et al, 2021 [34]	⊖	⊕	⊖	⊕	⊖	⊕	⊕	⊕
Peruzzu et al, 2021 [38]	⊖	⊕	⊖	⊖	⊕	⊕	⊖	⊖
Campos et al, 2021 [35]	⊕	⊖	⊕	⊕	⊕	⊕	⊖	⊖
Lanser et al, 2021 [47]	⊕	⊕	⊖	⊖	⊕	⊖	⊕	⊕
Fallerini et al, 2021 [37]	⊕	⊕	⊖	⊖	⊖	⊖	⊕	⊖
Ilias et al, 2022 [60]	⊕	⊕	⊕	⊖	⊖	⊖	⊕	⊕
Wong et al, 2021 [61]	⊖	⊕	⊖	⊖	⊕	⊕	⊕	⊕
Durcan et al, 2022 [43]	⊕	⊕	⊕	⊖	⊖	⊕	⊕	⊕
Vishvakarma et al, 2022 [33]	⊖	⊖	⊖	⊖	⊕	⊖	⊖	⊖
Welén et al, 2022 [39]	⊕	⊕	⊕	⊖	⊕	⊕	⊖	⊕
Li et al, 2022 [36]	⊖	⊕	⊕	⊖	⊕	⊖	⊖	⊖
Ghosh et al, 2022 [31]	⊖	⊕	⊖	⊕	⊕	⊕	⊖	⊕

Domains:
D1: bias due to confounding
D2: bias arising from measurement of the exposure
D3: bias in selection of participants into the study (or into the analysis)
D4: bias due to post-exposure interventions
D5: bias due to missing data
D6: bias arising from measurement of the outcome
D7: bias in selection of the reported result

Judgement
⊕ Very high
⊖ High
⊖ Some concerns
⊕ Low
⊖ No information

Supplement Fig. 1. Risk Of Bias In Non-randomized Studies - of Exposure (ROBINS-E) assessment for all studies included in the systematic review.