



Supplemental Table 1 Methodological quality of the included studies according to the Newcastle-Ottawa Scale.

Study	Selection (score)	Representativeness of patients cases	Selection of controls	Definition of control	Comparability (score)	Exposure (score)	Same method of ascertainment for participants	Non-response Rate	Total Score
	Adequate definition of patient case				Control for important factor or additional factor	Ascertainment of exposure			
Gao et al [21]	*	*	NA	*	*	*	*	NA	6
Xu et al [35]	*	*	*	*	**	*	*	NA	8
Zidi et al [36]	*	*	*	*	**	*	*	NA	8
Zambra et al [37]	*	*	NA	*	**	*	*	NA	7
Yang et al [22]	*	*	NA	*	**	*	*	NA	7
Silva et al [38]	*	*	NA	*	**	*	*	NA	7
Agnihotri et al [39]	*	*	*	*	**	*	*	NA	8
Wisniewski et al [40]	*	*	*	*	**	*	*	NA	8
Teixeira et al [41]	*	*	*	*	*	*	*	NA	7
Haghi et al [42]	*	*	*	*	*	*	*	NA	7
Garziera et al [43]	*	*	*	*	**	*	*	NA	8
Chen et al [44]	*	*	NA	*	**	*	*	NA	7
Tawfeek et al [45]	*	*	*	*	**	*	*	NA	8
Dardano et al [23]	*	*	NA	*	**	*	*	NA	7
Ramos et al [11]	*	*	NA	*	**	*	*	NA	7
Eskandari-Nasab et al [46]	*	*	*	*	**	*	*	NA	8
Lau et al [24]	*	*	*	*	**	*	*	NA	8

Kim et al [47]	*	*	NA	*	**	*	*	NA	7
Jiang et al [13]	*	*	*	*	**	*	*	NA	8
Jeong et al [48]	*	*	NA	*	**	*	*	NA	7
Ferguson et al [49]	*	*	NA	*	**	*	*	NA	7
Bortolotti et al [50]	*	*	NA	*	**	*	*	NA	7
Castelli et al [20]	*	*	*	*	**	*	*	NA	8
Bielska et al [51]	*	*	NA	*	**	*	*	NA	7
Figueiredo-Feitos a et al [52]	*	*	*	*	**	*	*	NA	8

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Supplemental table 2 The results of Begg's and Egger's tests for the publication bias

Comparison type	Publication bias	
	Begg's test ( <i>P</i> -value)	Egger's tes( <i>P</i> -value)t
Ins/Ins vs. Del/Del	0.168	0.124
Ins/Del vs. Del/Del	0.559	0.760
Ins/Ins vs. Ins/Del + Del/Del	1.000	0.816
Ins/Del + Ins/Ins vs. Del/Del	0.168	0.088
Ins vs. Del	0.591	0.207