

Supplementary Table 4. Risk of Bias of Case-control Studies by the Newcastle-Ottawa-Scale (NOS) Assessment

Study	Size	Diseases	Data type	Is the case definition adequate	Representativeness of the cases	Selection of controls	Definition of controls	Comparability of cases and controls based on the design or analysis	Ascertainment of exposure	Same method of ascertainment for cases and controls	Non-response rate	Total score	Risk level
Aggarwal&Garcia-Telles et al, 2020	16	COVID-19	2x2 table	1	1	0	1	0	0	1	1	5	High
Cao&Tu et al, 2020	102	COVID-19	2x2 table	1	1	0	1	0	0	1	1	5	High
Chen&Sun et al, 2020	660	COVID-19	2x2 table	1	1	0	1	0	0	1	1	5	High
Chen&Tang et al, 2006	401	SARS	Adjusted OR/2x2 table	1	1	0	1	2/0	1	1	1	8/6	Low/Some concerns
Chen&Wu et al, 2020	274	COVID-19	2x2 table	1	1	0	1	0	0	1	1	5	High
Chen&Yu et al, 2020	1859	COVID-19	2x2 table	1	1	0	1	0	0	1	1	5	High
Chen&Zhong et al, 2020	681	COVID-19	2x2 table	1	1	0	1	0	0	1	1	5	High
Deng&Liu et al, 2020	225	COVID-19	2x2 table	1	1	0	1	0	0	1	1	5	High
Feng&Li et al, 2020	114	COVID-19	2x2 table	1	1	0	1	0	0	1	1	5	High
Giacomelli&Ridolfo et al, 2020	233	COVID-19	2x2 table	1	1	0	1	0	0	1	1	5	High
Guan&Ni et al, 2020	1099	COVID-19	2x2 table	1	1	0	1	0	0	1	1	5	High
Krishnan&Patel et al, 2020	152	COVID-19	2x2 table	1	1	0	1	0	0	1	1	5	High
Lee&Kim et al, 2020	98	COVID-19	2x2 table	1	1	0	1	0	0	1	1	5	High
Lew&Kwek et al, 2003	46	SARS	2x2 table	1	1	0	1	0	0	1	1	5	High
Li&Xu(a) et al, 2020	548	COVID-19	Adjusted HR/2x2 table	1	1	0	1	2/0	0	1	1	7/5	Some concerns/High
Li&Xu(b) et al, 2020	74	COVID-19	2x2 table	1	1	0	1	0	0	1	1	5	High
Li&Yang et al, 2020	93	COVID-19	2x2 table	1	1	0	1	0	0	1	1	5	High
Liu&Sun et al, 2020	109	COVID-19	2x2 table	1	1	0	1	0	0	1	1	5	High
Liu&Tao et al, 2020	78	COVID-19	2x2 table	1	1	0	1	0	0	1	1	5	High

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Liu&Zhang et al, 2020	1190	COVID-19	Adjusted OR/2x2 table	1	1	0	1	1/0	0	1	1	6/5	Some concerns/High
Nguyen&Corre et al, 2020	279	COVID-19	2x2 table	1	1	0	1	0	0	1	1	5	High
Poblador-Plou&Carmona-Pirez et al, 2020	4412	COVID-19	Adjusted OR	1	1	0	1	1	0	1	1	6	Some concerns
Rubio-Rivas&Ronda et al, 2020	186	COVID-19	Adjusted HR/2x2 table	1	1	0	1	2/0	1	1	1	8/6	Low/Some concerns
Shang&Du et al, 2020	416	COVID-19	2x2 table	1	1	0	1	0	1	1	1	6	Some concerns
Shi&Zhang et al, 2020	306	COVID-19	2x2 table	1	1	0	1	0	0	1	1	5	High
Tu&Cao et al, 2020	174	COVID-19	2x2 table	1	1	0	1	0	0	1	1	5	High
Wang&Shu et al, 2020	59	COVID-19	2x2 table	1	1	0	1	0	0	1	1	5	High
Wang&Yin et al, 2020	107	COVID-19	2x2 table	1	1	0	1	0	0	1	1	5	High
Wang&Zhang et al, 2020	548	COVID-19	2x2 table	1	1	0	1	0	0	1	1	5	High
Wu&Chen et al, 2020	201	COVID-19	2x2 table	1	1	0	1	0	0	1	1	5	High
Xu&Yang et al, 2020	239	COVID-19	2x2 table	1	1	0	1	0	1	1	1	6	Some concerns
Yan&Yang et al, 2020	193	COVID-19	2x2 table	1	1	0	1	0	0	1	1	5	High
Yang&Sheng et al, 2020	205	COVID-19	2x2 table	1	1	0	1	0	0	1	1	5	High
Yang&Yu et al, 2020	52	COVID-19	2x2 table	1	1	0	1	0	0	1	1	5	High
Yao&Wang et al, 2020	108	COVID-19	2x2 table	1	1	0	1	0	0	1	1	5	High
Zhou&Yu et al, 2020	191	COVID-19	2x2 table	1	1	0	1	0	0	1	1	5	High