

Supplementary Table 5. Risk of Bias of Retrospective Cohort Studies by the Newcastle-Ottawa-Scale (NOS) Assessment

Study	Size	Diseases	Data type	Representativeness of the exposed cohort	Selection of the non-exposed cohort	Ascertainment of exposure	Demonstration that outcome of interest was not present at start of study	Comparability of cohorts based on the design or analysis	Assessment of outcome	Was follow-up long enough for outcomes to occur	Adequacy of follow up of cohorts	Total score	Risk level
Albani&Fusina et al, 2020	1376	COVID-19	Adjusted HR/2x2 table	1	1	1	1	2/0	1	0	1	8/6	Low/Some concerns
Auyeung&S. W. Lee et al, 2005	78	SARS	Adjusted OR/2x2 table	0	0	1	1	2/0	1	0	1	6/4	Some concerns/High
Bartoletti&Marconi et al, 2020	513	COVID-19	Adjusted OR/2x2 table	1	1	1	1	2/0	1	1	1	9/7	Low/Some concerns
Brenner&Ungaro et al, 2020	525	COVID-19	Adjusted OR	1	1	0	1	2	1	0	1	7	Some concerns
Ding&Feng et al, 2020	82	COVID-19	2x2 table	1	1	0	1	0	1	0	1	5	High
Cruz&Ruiz-Antoran et al, 2020	463	COVID-19	Adjusted OR/2x2 table	1	1	1	1	2/0	1	1	1	9/7	Low/Some concerns
Huang&Zhu et al, 2020	309	COVID-19	2x2 table	1	1	1	1	0	1	0	1	6	Some concerns
Ji&Zhang et al, 2020	684	COVID-19	2x2 table	1	1	1	1	0	1	1	1	7	Some concerns
Jia et al, 2006	225	SARS	2x2 table	1	1	0	1	0	1	0	1	5	High
Keller&Kitsis et al, 2020	1806	COVID-19	Adjusted OR/U nadjusted OR	1	1	0	1	2/0	1	0	1	7/5	Some concerns/High
Kevorkian&Rivelin et al, 2020	119	COVID-19	Adjusted OR/2x2 table	1	1	0	1	2/0	1	1	1	8/6	Low/Some concerns
Lau&Cowling et al, 2009	1934	SARS	Adjusted OR/2x2 table	1	1	0	1	2/0	1	0	1	7/5	Some concerns/High
Li&Li et al, 2020	475	COVID-19	2x2 table/2x2 table	1	1	1	1	2/0	1	1	1	9/7	Low/Some concerns
Liu&Li et al, 2020	646	COVID-19	2x2 table	1	1	1	1	2	1	1	1	9	Low
Lu&Chen et al, 2020	244	COVID-19	Adjusted OR/2x2 table	1	1	0	1	2/0	1	1	1	8/6	Low/Some concerns
Ma et al, 2008	4887	SARS	Adjusted HR/2x2 table	1	1	1	1	2/0	1	1	1	9/7	Low/Some concerns
Ma&Qi et al, 2020	72	COVID-19	2x2 table	1	1	1	1	0	1	1	1	7	Some concerns
Ma&Zeng et al, 2020	450	COVID-19	2x2 table	1	1	1	1	0	1	0	1	6	Some concerns
Majmundar&Kansara et al, 2020	205	COVID-19	Adjusted HR/2x2 table	1	1	1	1	2/0	1	1	1	9/7	Low/Some concerns

Study	Size	Diseases	Data type	Representativeness of the exposed cohort	Selection of the non-exposed cohort	Ascertainment of exposure	Demonstration that outcome of interest was not present at start of study	Comparability of cohorts based on the design or analysis	Assessment of outcome	Was follow-up long enough for outcomes to occur	Adequacy of follow up of cohorts	Total score	Risk level
Meng&Dong et al, 2003	70	SARS	2x2 table	1	1	1	1	0	1	0	1	6	Some concerns
Mikulska&Nicolini et al, 2020	196	COVID-19	2x2 table	1	1	1	1	0	1	1	1	7	Some concerns
Peng&Hou et al, 2004	99	SARS	2x2 table	1	1	1	1	0	1	0	1	6	Some concerns
Rodriguez-Bano&Pachon et al, 2020	778	COVID-19	Adjusted HR/2x2 table	1	1	0	1	2/0	1	1	1	8/6	Low/Some concerns
Ruiz-Irastorza&Pijoan et al, 2020	242	COVID-19	Adjusted HR (week-2-glucocorticoids)/Adjusted HR (out-of-week-2-glucocorticoids)	1	1	1/0	1	2	1	1	1	9/8	Low/Some concerns
Salton&Confalonieri et al, 2020	173	COVID-19	Adjusted HR/2x2 table	1	1	1	1	2/0	1	1	1	9/7	Low/Some concerns
Sanz-Herrero&Puchades-Gimeno et al, 2020	72	COVID-19	2x2 table	1	1	1	1	0	1	1	1	7	Some concerns
Wang&Jiang et al, 2020	46	COVID-19	2x2 table	1	1	1	1	0	1	1	1	7	Some concerns
Wang&Li et al, 2004	1291	SARS	2x2 table	1	1	0	1	0	1	1	1	6	Some concerns
Wang&Li et al, 2004	1291	SARS	2x2 table	1	1	0	1	0	1	1	1	6	Some concerns
Wang&Wang et al, 2020	115	COVID-19	Adjusted OR/2x2 table	1	1	1	1	2/0	1	0	1	8/6	Low/Some concerns
Wang&Yang et al, 2020	69	COVID-19	2x2 table	1	1	0	1	0	1	0	1	5	High
Wang&Zhou et al, 2004	680	SARS	2x2 table	1	1	0	1	0	1	0	1	5	High
Wu&Huang et al, 2020	1763	COVID-19	Adjusted HR/2x2 table	1	0	0	1	2/0	1	1	1	7/5	Some concerns/High
Yam&Lau et al, 2007	1287	SARS	Adjusted RR/2x2 table	1	1	1	1	2/0	1	1	1	9/7	Low/Some concerns
Zha&Li et al, 2020	31	COVID-19	2x2 table	1	1	1	1	0	1	0	1	6	Some concerns