

Supplementary Table S4. Studies investigating the association between IL-6 and severe CoVID-19 with odds ratio values.

Study, year	Study design	Crude OR (95% CI)	p value	Adjusted OR (95% CI)	p value	Adjusted for
Bai Y 2021 [42]	Retrospective cohort	1.150 (1.001–1.321)	0.049	–	–	–
Chen X 2020 [46]	Cohort	–	–	1.099 (1.055–1.144)	0.000	CD4+ cells, CD8+ cells, T regs, B cells, NK cells, IL-10
Gao F 2021 [48]	Cohort	1.06 (1.03–1.09)	<0.001	1.04 (1.02–1.09)	0.002	Age, sex, overweight/obesity, type 2 diabetes, and hypertension
Hou H 2020 [33]	Cohort	–	–	1.0000 (0.9916–1.0085)	0.9936	IL-1b, IL-2R, IL-6, IL-8, IL-10, TNF- α , lymphocyte, neutrophil, PCT, IL-2R/lymphocytes, CRP, ferritin
Huang H 2021 [50]	Retrospective cohort	–	–	0.979 (0.917–1.045)	0.52	Age, ferritin, ALB, HGB, lymphocytes, glu, LDH, CRP, ESR
Li T 2020 [53]	Retrospective cohort	–	–	4.32 (2.07–7.13)	0.0016	Age, SOFA score, APACHEII score, platelet, d-dimer, creatinine, consolidation
Liu G 2021 [34]	Cohort	–	–	0.998 (0.996–1)	0.092	IFN- γ , IL-2, IL-4, IL-10, TNF- α
Liu Q 2020 [55]	Cross-sectional	–	–	1.281 (1.026–1.600)	0.029	Age, BMI, blood pressure, smoking history, coexisting disorder, white blood cell count, neutrophil, lymphocyte, NLR, PLR, CRP, SAA
Tian J 2020 [35]	Multicenter, retrospective cohort	1.03 (1.01–1.06)	0.014	1.03 (1.00–1.05)	0.019	Age, sex, comorbidities, tumour stage, cancer type, ECOG performance status, antitumour treatments, IL-2R, PCT, CRP, lymphocyte, lymphocyte count, CD3-CD19+ B-cell count, CD4+ T cells, CD3-CD16+CD56+ natural killer cells, leukocyte count, neutrophils, monocytes, LDH, albumin, albumin-globulin ratio, NT-proBNP, myoglobin, hs-cTnI, platelet count, activated partial thromboplastin time, prothrombin time, D-dimer
Wang M 2021 [37]	Cohort	–	–	1.227 (1.040–1.447)	0.015	Age, sex, duration from illness onset to admission, duration of hospitalization, temperature before admission, temperature at day 15 after admission, hypertension, diabetes, cardiovascular and cerebrovascular diseases, respiratory system diseases, white blood cell count, lymphocyte, alanine aminotransferase, aspartate aminotransferase, creatinine, IFN-g, IL-2, IL-4, IL-6, IL-10, CD3+ T cells, B cells, NK cells, CD4+ T cells, CD8+ T cells, CD4+/CD8+ ratio
Wang Y 2020 [62]	Case-control	1.05 (0.98–1.12)	0.14	–	–	–
Xie M 2021 [38]	Retrospective cohort	1.011 (1.005–1.018)	0.001	–	–	–

Study, year	Study design	Crude OR (95% CI)	p value	Adjusted OR (95% CI)	p value	Adjusted for
Yi P 2020 [18]	Single-center, retrospective cohort	–	–	1.005 (0.995–1.015)	0.307	Age, BMI, T cells, B cells, artificial liver support
Zhao C 2021 [64]	Single-center, retrospective cohort	1.115 (1.074–1.157)	<0.001	–	–	–
Zhu Z 2020 [40]	Single-center, retrospective cohort	1.086 (1.041–1.133)	<0.001	1.090 (1.040–1.147)	<0.001	Hypertension, CRP
Zhu Z 2021 [66]	Single-center, retrospective cohort	1.096 (1.050–1.144)	<0.001	1.097 (1.034–1.165)	0.002	Age, BMI, hypertension, neutrophil%, lymphocyte%, lymphocyte count, platelet count, fibrinogen, CRP, IL-6, IL-10, HDL-C, ApoA1, ALB, AST, and LDH