

Title: Neuropsychological deficits in patients with persistent COVID-19 symptoms: A systematic review and meta-analysis.

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Supplementary material: Risk of bias assessment and search strategy details

Figure S1

Summary of the risk of bias for each included study ^{1,2}.

		Risk of bias domains							
		D1	D2	D3	D4	D5	D6	D7	Overall
Study	Del Brutto et al. 2020	-	+	+	+	+	+	+	+
	Graham et al. 2021	-	+	+	+	+	+	+	+
	Miskowiak et al. 2021	-	-	+	+	+	+	+	-
	Ortelli et al. 2020	-	-	+	+	+	+	+	-
	Triana et al. 2020	-	+	+	+	+	+	+	+
	Woo et al. 2020	-	-	+	+	-	+	+	-
Domains:									
D1: Bias due to confounding.									
D2: Bias due to selection of participants.									
D3: Bias in classification of interventions.									
D4: Bias due to deviations from intended interventions.									
D5: Bias due to missing data.									
D6: Bias in measurement of outcomes.									
D7: Bias in selection of the reported result.									

Table S1.

Search strategy key words used combinations on Pubmed, CENTRAL, Scopus and Web of Science databases.

CONCEPT 1		CONCEPT 2			Number of obtained results (1602)	
(SARS-CoV-2 OR coronavirus OR COVID-19 OR COVID OR severe acute respiratory syndrome 2)	AND	(long-COVID OR post-COVID syndrome OR post-acute COVID-19 syndrome OR long-term symptoms)			1073	
CONCEPT 1	AND	CONCEPT 2		CONCEPT 3	N	
(SARS-CoV-2 OR coronavirus OR COVID-19 OR COVID OR severe acute respiratory syndrome 2)	AND	(long-COVID OR post-COVID syndrome OR post-acute COVID-19 syndrome OR long-term symptoms OR persistent COVID-19)	AND	(neuropsychology OR cognition* OR psychology)	437	
(SARS-CoV-2 OR coronavirus OR COVID-19 OR COVID OR severe acute respiratory syndrome 2)	AND	(long-COVID OR post-COVID syndrome OR post-acute COVID-19 syndrome OR long-term symptoms)	AND	(neuropsychological deficits* OR cognitive deficits* OR cognitive function*)	77	
CONCEPT 1		CONCEPT 2		CONCEPT 3	CONCEPT 4	N
(SARS-CoV-2 OR coronavirus OR COVID-19 OR COVID OR severe acute respiratory syndrome 2)	AND	(long-COVID OR post-COVID syndrome OR post-acute COVID-19 syndrome OR long-term symptoms)	AND	AND (neuropsychological deficits* OR cognitive deficits* OR cognitive function*)	(“Neuropsychological evaluation*” OR “Neuropsychological assessment*” OR “neuropsychological battery*” OR “cognitive evaluation*” OR “cognitive assessment*” OR “cognitive test*” OR “cognitive screening”)	15

References

1. Sterne, J. A. *et al.* ROBINS-I: A tool for assessing risk of bias in non-randomised studies of interventions. *BMJ* **355**, 4–10 (2016).
2. McGuinness, L. & Higgins, J. Risk-of-bias VISualization (robvis): An R package and Shiny web app for visualizing risk-of-bias assessments. 1–7 (2020)
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