

**Title**

COVID-19 Related Burning Eyes Syndrome and Burning Mouth Syndrome: A Systematic Review and Meta-analysis

**Authors**

Laura D Williams<sup>1</sup> (lauradawnwilliams98@gmail.com)

Panagiotis Zis<sup>1,2,3</sup> (takiszis@gmail.com)

**Affiliations**

1. Medical School, University of Sheffield, United Kingdom
2. Medical School, University of Cyprus, Nicosia, Cyprus
3. Second Department of Neurology, School of Medicine, Attikon University Hospital, National and Kapodistrian University of Athens, Athens, Greece

**Corresponding Author**

Panagiotis Zis ([takiszis@gmail.com](mailto:takiszis@gmail.com))

**Key words**

Burning eyes, Burning mouth, COVID, long-COVID

Year	Study	Was the study's target population a close representation of the national population in relation to relevant variables, e.g. age, sex, occupation?	Was the sampling frame a true or close representation of the target population?	Was some form of random selection used to select the sample, OR, was a census undertaken?	Was the likelihood of non-response bias minimal?	Were data collected directly from the subjects (as opposed to a proxy)?	Was an acceptable case definition used in the study?	Was the study instrument that measured the parameter of interest (e.g. prevalence of low back pain) shown to have reliability and validity (if necessary)?	Was the same mode of data collection used for all subjects?	Were the numerator(s) and denominator(s) for the parameter of interest appropriate?	Summary on the overall risk of study bias	Outcome
2022	Muthyam et al, 2022	1	0	1	0	0	0	1	0	1	4	Moderate-Risk
2020	Sinjari et al, 2020	0	0	1	0	0	0	1	0	0	2	Low-Risk
2021	Vallejo-Garcia et al, 2021	0	1	1	0	0	0	0	0	1	3	Low-Risk
2022	Shaikh et al, 2022	1	1	0	0	0	0	0	0	1	3	Low-Risk
2021	Rokohl et al, 2021	0	1	1	1	0	0	0	0	1	4	Moderate- Risk
2020	Meduri et al, 2020	1	1	1	0	0	0	0	0	1	4	Moderate- Risk
2021	Sehgal et al, 2021	0	1	0	0	0	0	0	0	0	1	Low-Risk