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PEER-REVIEW REPORT

Name of journal: World Journal of Experimental Medicine

Manuscript NO: 83089

Title: The role of children in the Bulgarian COVID-19 epidemic – a mathematical model

study

Provenance and peer review: Invited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 05626712 Position: Peer Reviewer Academic degree: MD

Professional title: Academic Editor, Academic Research, Assistant Professor, Attending

Doctor, Research Scientist

Reviewer's Country/Territory: Iran

Author's Country/Territory: Bulgaria

Manuscript submission date: 2023-01-06

Reviewer chosen by: Yu-Lu Chen

Reviewer accepted review: 2023-02-24 14:26

Reviewer performed review: 2023-03-04 13:34

Review time: 7 Days and 23 Hours

	[] Grade A: Excellent [Y] Grade B: Very good [] Grade C:
Scientific quality	Good
	[] Grade D: Fair [] Grade E: Do not publish
Novelty of this manuscript	[] Grade A: Excellent [Y] Grade B: Good [] Grade C: Fair [] Grade D: No novelty



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Creativity or innovation of this manuscript	[] Grade A: Excellent [Y] Grade B: Good [] Grade C: Fair [] Grade D: No creativity or innovation
Scientific significance of the conclusion in this manuscript	[Y] Grade A: Excellent [] Grade B: Good [] Grade C: Fair [] Grade D: No scientific significance
Language quality	[Y] Grade A: Priority publishing [] Grade B: Minor language polishing [] Grade C: A great deal of language polishing [] Grade D: Rejection
Conclusion	[] Accept (High priority) [] Accept (General priority) [Y] Minor revision [] Major revision [] Rejection
Re-review	[Y]Yes []No
Peer-reviewer statements	Peer-Review: [Y] Anonymous [] Onymous Conflicts-of-Interest: [] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

Summary: A model based analysis to explore the role of pediatrics in Covid-19 Comments: 1. The authors used the age range of 0-19 years to represent pandemic. children. However, we know that this age range contains other groups, including infants 2. CORE TIP: " This hypothesis and the other two we outlined as and adolescents. reasons for this age-restricted ...". The information given in the core tip must be clear and informative per se. It is unclear what are two reasons. 3. It has been demonstrated children with pre-existig comorbidities (cardiovascular diseases, cancer renal failure) are at risk for severe covid-19. It is suggested to add a sentence in this regard to the Introduction section and cite the following two papers for cancer: https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7779976/ https://pubmed.ncbi.nlm.nih.gov/32765192/ COVID-19 Children: Fortunately, the course of the disease after the complex treatment (immunomodulatory



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therapy with iv immunoglobulins and corticosteroids, inotropic drugs and anticoagulants) was favorable in all patients." This part is not relevant to the study objective and can be safely omitted. 5. Covid-19 and Children" "The airborne nature of the disease was also disputed [9]." This information is hard to understand. Please explain more. 6. Covid-19 and children: "We use mathematical modeling (time series analysis) to question these claims in the case of Bulgaria and to show the price of the lack of policy in schools." it is suggested the authors express the study objective clearly (instead of "to question these claims"). 7. "The third hypothesis is that the spread among children accelerates with the increasing R0 of different dominating viral variants." What is R0? It requires an explanation.



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Professional title: Surgeon

Reviewer's Country/Territory: Italy

Author's Country/Territory: Bulgaria

Manuscript submission date: 2023-01-06

Reviewer chosen by: Yu-Lu Chen

Reviewer accepted review: 2023-02-24 14:33

Reviewer performed review: 2023-03-05 00:31

Review time: 8 Days and 9 Hours

	[] Grade A: Excellent [Y] Grade B: Very good [] Grade C:
Scientific quality	Good
	[] Grade D: Fair [] Grade E: Do not publish
Novelty of this manuscript	[] Grade A: Excellent [Y] Grade B: Good [] Grade C: Fair [] Grade D: No novelty
Creativity or innovation of this manuscript	[] Grade A: Excellent [Y] Grade B: Good [] Grade C: Fair [] Grade D: No creativity or innovation



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Scientific significance of the [] Grade A: Excellent [Y] Grade B: Good [] Grade C: Fair conclusion in this manuscript [] Grade D: No scientific significance Grade A: Priority publishing Y Grade B: Minor language Language quality polishing [] Grade C: A great deal of language polishing [] Grade D: Rejection [] Accept (High priority) [Y] Accept (General priority) Conclusion [] Minor revision [] Major revision [] Rejection [] Yes [Y] No Re-review Peer-Review: [Y] Anonymous [] Onymous Peer-reviewer statements Conflicts-of-Interest: [] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

Dear Author, thank you for sharing this research. I found it very interesting and well-written. No more change is needed. Best regards