

PEER-REVIEW REPORT

Name of journal: World Journal of Clinical Infectious Diseases

Manuscript NO: 57238

Title: COVID-19 and Dengue Coinfection in Brazil

Reviewer's code: 05384762

Position: Peer Reviewer

Academic degree: PhD

Professional title: Professor

Reviewer's Country/Territory: Germany

Author's Country/Territory: Brazil

Manuscript submission date: 2020-05-29

Reviewer chosen by: AI Technique

Reviewer accepted review: 2020-06-02 12:19

Reviewer performed review: 2020-06-02 12:36

Review time: 1 Hour

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input type="checkbox"/> Grade C: Good <input checked="" type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
Language quality	<input type="checkbox"/> Grade A: Priority publishing <input checked="" type="checkbox"/> Grade B: Minor language polishing <input type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
Conclusion	<input type="checkbox"/> Accept (High priority) <input type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input checked="" type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Re-review	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Peer-reviewer statements	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS

The manuscript reports of a case where a Dengue fever infected individual was also co-infected with SARS-CoV-2. This is not a real surprise and one can think of many other co-infection with SARS-CoV-2 like Zika, malaria, West Nile fever and so on. So the relevance of this submission is unclear. I miss some deeper insight into biology or at least some in depth interpretation or discussion. Could Dengue patients be more susceptibility to SARS-CoV-2 infection, are there immunomodulatory effects in the case of co-infection or some other interesting or unexpected observations?

PEER-REVIEW REPORT

Name of journal: World Journal of Clinical Infectious Diseases

Manuscript NO: 57238

Title: COVID-19 and Dengue Coinfection in Brazil

Reviewer's code: 02720375

Position: Peer Reviewer

Academic degree: PhD

Professional title: Professor

Reviewer's Country/Territory: Italy

Author's Country/Territory: Brazil

Manuscript submission date: 2020-05-29

Reviewer chosen by: Ya-Juan Ma

Reviewer accepted review: 2020-08-10 06:12

Reviewer performed review: 2020-08-10 06:33

Review time: 1 Hour

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input type="checkbox"/> Grade C: Good <input checked="" type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
Language quality	<input type="checkbox"/> Grade A: Priority publishing <input checked="" type="checkbox"/> Grade B: Minor language polishing <input type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
Conclusion	<input type="checkbox"/> Accept (High priority) <input type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input checked="" type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Re-review	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Peer-reviewer statements	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS

This case is quite interesting and adds one more to the short list of other published reports. I would request the authors to provide the readers with a short review of published cases, underlying similarities and differences of the case presented by them with respect to those presented by others (reasons for originality? relevance?). Also I would suggest to provide their view on some aspects which could be relevant to discuss (e.g., false positive serological results for Dengue - see: YanG, LeeCK, LamLTM, et al. Covert COVID-19 and false-positive dengue serology in Singapore. *Lancet Infect Dis.* 2020;20(5):536; possible response to remdesivir, etc.). I would suggest some references (please check if they were already included or considered for discussion in the paper):

1. PMID: 32458742 Nurse infected with Covid-19 from a provisional dengue patient. Prasitsirikul W, Pongpirul K, Pongpirul WA, Panitantum N, Ratnarathon AC, Hemachudha T. *Emerg Microbes Infect.* 2020 Dec;9(1):1354-1355. doi: 10.1080/22221751.2020.1775131. PMID: 32458742
2. PMID: 32762798 Diagnosis of COVID-19 in a Dengue-Endemic Area. Lokida D, Lukman N, Salim G, Butar-Butar DP, Kosasih H, Wulan WN, Naysilla AM, Djajady Y, Sari RA, Arlinda D, Lau CY, Karyana M. *Am J Trop Med Hyg.* 2020 Aug 5. doi: 10.4269/ajtmh.20-0676. Online ahead of print. PMID: 32762798
3. PMID: 32745101 Co-infection of dengue and COVID-19: A case report. Verduyn M, Allou N, Gazaille V, Andre M, Desroche T, Jaffar MC, Traversier N, Levin C, Lagrange-Xelot M, Moiton MP, Hoang S. *PLoS Negl Trop Dis.* 2020 Aug 3;14(8):e0008476. doi: 10.1371/journal.pntd.0008476. eCollection 2020 Aug. PMID: 32745101 No abstract available.
4. PMID: 32745594 Have measures against COVID-19 helped to reduce dengue cases in Brazil? Lorenz C, Dias Bocewicz AC, Corrêa de Azevedo Marques C, Reis Santana LM, Chiaravalloti-Neto F, Alves Gomes AH, Barbosa GL. *Travel Med Infect Dis.* 2020 Jul 31:101827. doi: 10.1016/j.tmaid.2020.101827. Online ahead of print. PMID: 32745594 Free PMC article. No abstract available.
5. PMID:

32729946 Thrombocytopenia in COVID-19 patients in Himachal Pradesh (India) and the absence of dengue false positive tests: Insights for patient management. Bansal N, Bansal Y, Ralta A. J Med Virol. 2020 Jul 30. doi: 10.1002/jmv.26373. Online ahead of print. PMID: 32729946 6. PMID: 32723428 Diagnostic Laboratory Testing and Clinical Preparedness for Dengue Outbreaks during the COVID-19 Pandemic. Waterman SH, Paz-Bailey G, San Martin JL, Gutierrez G, Castellanos LG, Mendez-Rico JA. Am J Trop Med Hyg. 2020 Jul 28. doi: 10.4269/ajtmh.20-0884. Online ahead of print. PMID: 32723428 7. PMID: 32706408 COVID-19 and dengue coepidemics: A double trouble for overburdened health systems in developing countries. Din M, Asghar M, Ali M. J Med Virol. 2020 Jul 24:10.1002/jmv.26348. doi: 10.1002/jmv.26348. Online ahead of print. PMID: 32706408 Free PMC article. No abstract available. 8. PMID: 32657339 COVID-19 and dengue co-infection in a returning traveller. Epelboin L, Blondé R, Nacher M, Combe P, Collet L. J Travel Med. 2020 Jul 13:taaa114. doi: 10.1093/jtm/taaa114. Online ahead of print. PMID: 32657339 9. PMID: 32633829 Coinfection, coepidemics of COVID-19, and dengue in dengue-endemic countries: A serious health concern. Miah MA, Husna A. J Med Virol. 2020 Jul 7:10.1002/jmv.26269. doi: 10.1002/jmv.26269. Online ahead of print. PMID: 32633829 Free PMC article. No abstract available. 10. PMID: 32558962 Dengue and COVID-19, overlapping epidemics? An analysis from Colombia. Cardona-Ospina JA, Arteaga-Livias K, Villamil-Gómez WE, Pérez-Díaz CE, Katterine Bonilla-Aldana D, Mondragon-Cardona Á, Solarte-Portilla M, Martinez E, Millan-Oñate J, López-Medina E, López P, Navarro JC, Perez-Garcia L, Mogollon-Rodriguez E, Rodríguez-Morales AJ, Paniz-Mondolfi A. J Med Virol. 2020 Jun 19:10.1002/jmv.26194. doi: 10.1002/jmv.26194. Online ahead of print. PMID: 32558962 Free PMC article.

PEER-REVIEW REPORT

Name of journal: World Journal of Clinical Infectious Diseases

Manuscript NO: 57238

Title: COVID-19 and Dengue Coinfection in Brazil

Reviewer's code: 03522829

Position: Peer Reviewer

Academic degree: PhD

Professional title: Professor

Reviewer's Country/Territory: Egypt

Author's Country/Territory: Brazil

Manuscript submission date: 2020-05-29

Reviewer chosen by: Ya-Juan Ma

Reviewer accepted review: 2020-08-10 02:13

Reviewer performed review: 2020-08-12 14:38

Review time: 2 Days and 12 Hours

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Very good <input type="checkbox"/> Grade C: Good <input type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
Language quality	<input type="checkbox"/> Grade A: Priority publishing <input checked="" type="checkbox"/> Grade B: Minor language polishing <input type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
Conclusion	<input type="checkbox"/> Accept (High priority) <input type="checkbox"/> Accept (General priority) <input checked="" type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Re-review	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Peer-reviewer statements	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS

The current proposal of that case report is interesting because the healthcare systems in all countries around the world faced incredible challenges with COVID-19 since its discovery. This case sheds light on the possibility of a diagnosis of COVID-19 and Dengue coinfection. However, the current proposal fails to address the following outstanding questions: 1- What is the possible link between COVID-19 and Dengue? 2- What is the possible rationale for increasing the percentage of Dengue infection in Brazil? 3- Is metformin having any possible protective effects in this case against: A- Covid-19? Reference: El-Arabey AA, Abdalla M. Metformin and COVID-19: A novel deal of an old drug. *J Med Virol.* 2020;10.1002/jmv.25958. doi:10.1002/jmv.25958. B- Dengue? Htun HL, Yeo TW, Tam CC, Pang J, Leo YS, Lye DC. Metformin Use and Severe Dengue in Diabetic Adults. *Sci Rep.* 2018;8(1):3344. Published 2018 Feb 20. doi:10.1038/s41598-018-21612-6. Consequently, the authors should refer to the possible theoretical answer for the previous outstanding questions or highlight them as a future directions.

RE-REVIEW REPORT OF REVISED MANUSCRIPT

Name of journal: World Journal of Clinical Infectious Diseases

Manuscript NO: 57238

Title: COVID-19 and Dengue Coinfection in Brazil

Reviewer's code: 05384762

Position: Peer Reviewer

Academic degree: PhD

Professional title: Professor

Reviewer's Country/Territory: Germany

Author's Country/Territory: Brazil

Manuscript submission date: 2020-05-29

Reviewer chosen by: Le Zhang

Reviewer accepted review: 2020-09-09 09:09

Reviewer performed review: 2020-09-09 09:16

Review time: 1 Hour

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Very good <input type="checkbox"/> Grade C: Good <input type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
Language quality	<input type="checkbox"/> Grade A: Priority publishing <input checked="" type="checkbox"/> Grade B: Minor language polishing <input type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
Conclusion	<input checked="" type="checkbox"/> Accept (High priority) <input type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Peer-reviewer statements	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS

I am satisfied with the improvements made and have no further comments.



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