# World Journal of Virology

World J Virol 2021 November 25; 10(6): 288-331





#### **Contents**

Bimonthly Volume 10 Number 6 November 25, 2021

#### **MINIREVIEWS**

- Protein-protein interactions: Methods, databases, and applications in virus-host study 288 Farooq QUA, Shaukat Z, Aiman S, Li CH
- Impact of COVID-19 on liver disease: From the experimental to the clinic perspective 301 Gato S, Lucena-Valera A, Muñoz-Hernández R, Sousa JM, Romero-Gómez M, Ampuero J
- 312 COVID-19 (SARS-CoV-2 infection) in lymphoma patients: A review Bonuomo V, Ferrarini I, Dell'Eva M, Sbisà E, Krampera M, Visco C

#### **LETTER TO THE EDITOR**

- Evaluation of an asymptomatic COVID-19 patient post-surgery with chest radiography: A surgeon's 326 dilemma
  - Govil G, Tomar L, Dhawan P
- Effects of COVID-19 in lymphoid malignancies 329 Özdemir Ö



#### **Contents**

#### Bimonthly Volume 10 Number 6 November 25, 2021

#### **ABOUT COVER**

Editorial Board Member of *World Journal of Virology*, Sajjad Ahmad, PhD, Postdoc, Foundation University Medical College, Foundation University Islamabad, Islamabad 44000, Pakistan. sahmad@bs.qau.edu.pk

#### **AIMS AND SCOPE**

The primary aim of *World Journal of Virology* (*WJV*, *World J Virol*) is to provide scholars and readers from various fields of virology with a platform to publish high-quality basic and clinical research articles and communicate their research findings online.

*WJV* mainly publishes articles reporting research results obtained in the field of virology and covering a wide range of topics including arbovirus infections, viral bronchiolitis, central nervous system viral diseases, coinfection, DNA virus infections, viral encephalitis, viral eye infections, chronic fatigue syndrome, animal viral hepatitis, human viral hepatitis, viral meningitis, opportunistic infections, viral pneumonia, RNA virus infections, sexually transmitted diseases, viral skin diseases, slow virus diseases, tumor virus infections, viremia, and zoonoses.

#### INDEXING/ABSTRACTING

The *WJV* is now abstracted and indexed in PubMed, PubMed Central, China National Knowledge Infrastructure (CNKI), and Superstar Journals Database.

#### **RESPONSIBLE EDITORS FOR THIS ISSUE**

Production Editor: Yan-Xia Xing Production Department Director: Xiang Li; Editorial Office Director: Jin-Lei Wang.

#### NAME OF JOURNAL

World Journal of Virology

#### **ISSN**

ISSN 2220-3249 (online)

#### LAUNCH DATE

February 12, 2012

#### **FREQUENCY**

Bimonthly

#### **EDITORS-IN-CHIEF**

Mahmoud El-Bendary, En-Qiang Chen

#### **EDITORIAL BOARD MEMBERS**

https://www.wjgnet.com/2220-3249/editorialboard.htm

#### **PUBLICATION DATE**

November 25, 2021

#### COPYRIGHT

© 2021 Baishideng Publishing Group Inc

#### **INSTRUCTIONS TO AUTHORS**

https://www.wjgnet.com/bpg/gerinfo/204

#### **GUIDELINES FOR ETHICS DOCUMENTS**

https://www.wjgnet.com/bpg/GerInfo/287

#### **GUIDELINES FOR NON-NATIVE SPEAKERS OF ENGLISH**

https://www.wjgnet.com/bpg/gerinfo/240

#### **PUBLICATION ETHICS**

https://www.wjgnet.com/bpg/GerInfo/288

#### **PUBLICATION MISCONDUCT**

https://www.wjgnet.com/bpg/gerinfo/208

#### ARTICLE PROCESSING CHARGE

https://www.wjgnet.com/bpg/gerinfo/242

#### STEPS FOR SUBMITTING MANUSCRIPTS

https://www.wjgnet.com/bpg/GerInfo/239

#### **ONLINE SUBMISSION**

https://www.f6publishing.com

© 2021 Baishideng Publishing Group Inc. All rights reserved. 7041 Koll Center Parkway, Suite 160, Pleasanton, CA 94566, USA

E-mail: bpgoffice@wjgnet.com https://www.wjgnet.com

Submit a Manuscript: https://www.f6publishing.com

World J Virol 2021 November 25; 10(6): 329-331

DOI: 10.5501/wjv.v10.i6.329 ISSN 2220-3249 (online)

LETTER TO THE EDITOR

## Effects of COVID-19 in lymphoid malignancies

#### Öner Özdemir

ORCID number: Öner Özdemir 0000-0002-5338-9561

Author contributions: Öner Özdemir did all the work

Conflict-of-interest statement: None

Country/Territory of origin: Turkey

Specialty type: Virology

#### Provenance and peer review:

Invited article; Externally peer reviewed.

#### Peer-review report's scientific quality classification

Grade A (Excellent): 0 Grade B (Very good): B Grade C (Good): C Grade D (Fair): D Grade E (Poor): 0

Open-Access: This article is an open-access article that was selected by an in-house editor and fully peer-reviewed by external reviewers. It is distributed in accordance with the Creative Commons Attribution NonCommercial (CC BY-NC 4.0) license, which permits others to distribute, remix, adapt, build upon this work non-commercially, and license their derivative works on different terms, provided the original work is properly cited and the use is non-commercial. See: htt p://creativecommons.org/License s/by-nc/4.0/

Öner Özdemir, Division of Pediatric Allergy and Immunology, Sakarya University Medical Faculty, Adapazarı 54100, Sakarya, Turkey

Corresponding author: Öner Özdemir, MD, Professor, Division of Pediatric Allergy and Immunology, Sakarya University Medical Faculty, Adnan Menderes Cad., Adapazarı 54100, Sakarya, Turkey. ozdemir oner@hotmail.com

#### **Abstract**

I will have a couple of comments on the issues elaborated in the article titled as 'Impact of COVID-19 in patients with lymphoid malignancies'. First, the author did not emphasize and overlook the prolonged persistence of severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) RNA in coronavirus disease 2019 (COVID-19) patients with hematological malignancies. Second, the rise of a chronic lymphoid leukemia clone in COVID-19 was not mentioned by the authors. Third, achieving a complete remission in asymptomatic COVID-19 patients with follicular lymphoma in partial remission after bendamustine-based therapy is not specific to this lymphoma subtype. Fourth, follicular lymphoma does not always undergo complete remission with SARS-CoV-2 infection. Our aim is to help the authors to discuss and clarify these issues a little more in COVID-19 patients with hematological malignancies.

Key Words: COVID-19; Tumor; SARS-CoV-2; Lymphoid malignancy

©The Author(s) 2021. Published by Baishideng Publishing Group Inc. All rights reserved.

Core Tip: I have several comments on the article titled as 'Impact of COVID-19 in patients with lymphoid malignancies'. The author did not emphasize a couple of issues related to the effects of severe acute respiratory syndrome coronavirus 2 infection in various lymphoid malignancies. This letter helps to clarify these issues more in coronavirus disease 2019 (COVID-19) patients with hematological malignancies.

Citation: Özdemir Ö. Effects of COVID-19 in lymphoid malignancies. World J Virol 2021;

**URL:** https://www.wjgnet.com/2220-3249/full/v10/i6/329.htm

**DOI:** https://dx.doi.org/10.5501/wjv.v10.i6.329

Received: June 16, 2021 Peer-review started: June 16, 2021 First decision: July 31, 2021 Revised: August 4, 2021 Accepted: November 14, 2021 Article in press: November 14, 2021

2021

P-Reviewer: Covino M, Ribeiro IB,

Published online: November 25,

Watanabe A S-Editor: Fan JR L-Editor: Wang TQ P-Editor: Fan JR



#### TO THE EDITOR

I have read the original article by Riches[1] entitled 'Impact of COVID-19 in patients with lymphoid malignancies' with great interest[1].

I will have a couple of comments on the issues elaborated in their article.

First, the author did not emphasize and overlook the prolonged persistence of severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) RNA in coronavirus disease 2019 (COVID-19) patients with hematological malignancies. The author just slightly touched upon within a sentence consisting of a couple of words (the persistence of a positive polymerase chain reaction for SARS-CoV-2) under the section of 'Impact of COVID-19 by Lymphoma Subtype'. However, I think that this is a huge and important problem itself and its management needs to be discussed especially in this kind of article. Here, I give some exemplary articles from the recent literature such as in King's College Hospital experience[2], Karataş et al[3]'s, and Perini et al[4]'s

Second, Largeaud et al[5] reported 'major rise of a chronic lymphoid leukemia clone during the course of COVID-19'. This aspect of CLL and COVID-19 disease should also be discussed by the author.

Third, the author discusses achieving a complete remission in asymptomatic COVID-19 patients with follicular lymphoma in partial remission after bendamustinebased therapy. When we look at the literature, this is not just specific to follicular lymphoma, but other hematological malignancies as well, such as in diffuse large Bcell lymphoma and Hodgkin lymphoma after concurrent other and SARS-CoV-2 infections, respectively [6]. Also, just a perfect article titled as 'complete remission of follicular lymphoma after SARS-CoV-2 infection: From the "flare phenomenon" to the "abscopal effect"' is reported by Sollini et al[7]. This issue should also further be

Fourth, follicular lymphoma does not always undergo complete remission with SARS-CoV-2 infection, reported by Tafti et al[8] and Wright et al[9]. Indeed, in some malignancy patients, SARS-CoV-2 infection persisted, and COVID-19 pneumonia and the multimicrobial superinfection developed. Even, convalescent plasma needed to be utilized in the patient[9].

The authors did not emphasize a couple of issues related to the effects of SARS-CoV-2 infection in various lymphoid malignancies. Our aim is to help to clarify these issues a little more in COVID-19 patients with hematological malignancies.

#### REFERENCES

- Riches JC. Impact of COVID-19 in patients with lymphoid malignancies. World J Virol 2021; 10: 97-110 [PMID: 34079692 DOI: 10.5501/wjv.v10.i3.97]
- Shah V, Ko Ko T, Zuckerman M, Vidler J, Sharif S, Mehra V, Gandhi S, Kuhnl A, Yallop D, Avenoso D, Rice C, Sanderson R, Sarma A, Marsh J, de Lavallade H, Krishnamurthy P, Patten P, Benjamin R, Potter V, Ceesay MM, Mufti GJ, Norton S, Pagliuca A, Galloway J, Kulasekararaj AG. Poor outcome and prolonged persistence of SARS-CoV-2 RNA in COVID-19 patients with haematological malignancies; King's College Hospital experience. Br J Haematol 2020; 190: e279-e282 [PMID: 32526039 DOI: 10.1111/bjh.16935]
- Karataş A, İnkaya AÇ, Demiroğlu H, Aksu S, Haziyev T, Çınar OE, Alp A, Uzun Ö, Sayınalp N, Göker H. Prolonged viral shedding in a lymphoma patient with COVID-19 infection receiving convalescent plasma. Transfus Apher Sci 2020; 59: 102871 [PMID: 32694044 DOI: 10.1016/i.transci.2020.1028711
- 4 Perini GF, Fischer T, Gaiolla RD, Rocha TB, Bellesso M, Teixeira LLC, Delamain MT, Scheliga AAS, Ribeiro GN, Neto JV, Baiocchi OCCG, Abdo ANR, Arrais-Rodrigues C, Fogliatto LM, Bigni RS, Schaffel R, Biasoli I, Pereira J, Nabhan SK, Souza CA, Chiattone CS; Associação Brasileira de Hematologia, Hemoterapia e Terapia Celular (ABHH). How to manage lymphoid malignancies during novel 2019 coronavirus (CoVid-19) outbreak: a Brazilian task force recommendation. Hematol Transfus Cell Ther 2020; 42: 103-110 [PMID: 32313873 DOI: 10.1016/j.htct.2020.04.002]
- Largeaud L, Ribes A, Dubois-Galopin F, Mémier V, Rolland Y, Gaudin C, Rousset D, Geeraerts T, Noel-Savina E, Rieu JB, Vergez F. Major rise of a chronic lymphoid leukemia clone during the course of COVID-19. Int J Lab Hematol 2021; 43: e82-e83 [PMID: 33161639 DOI: 10.1111/ijlh.13383]
- Buckner TW, Dunphy C, Fedoriw YD, van Deventer HW, Foster MC, Richards KL, Park SI. Complete spontaneous remission of diffuse large B-cell lymphoma of the maxillary sinus after concurrent infections. Clin Lymphoma Myeloma Leuk 2012; 12: 455-458 [PMID: 23025990 DOI: 10.1016/j.clml.2012.06.007]
- Sollini M, Gelardi F, Carlo-Stella C, Chiti A. Complete remission of follicular lymphoma after SARS-CoV-2 infection: from the "flare phenomenon" to the "abscopal effect". Eur J Nucl Med Mol Imaging 2021; **48**: 2652-2654 [PMID: 33638660 DOI: 10.1007/s00259-021-05275-6]



- 8 Tafti D, Kluckman M, Dearborn MC, Hunninghake J, Clayton S. COVID-19 in Patients With Hematologic-Oncologic Risk Factors: Complications in Three Patients. Cureus 2020; 12: e12064 [PMID: 33489484 DOI: 10.7759/cureus.12064]
- 9 Wright Z, Bersabe A, Eden R, Bradley J, Cap A. Successful Use of COVID-19 Convalescent Plasma in a Patient Recently Treated for Follicular Lymphoma. Clin Lymphoma Myeloma Leuk 2021; 21: 66-68 [PMID: 32682684 DOI: 10.1016/j.clml.2020.06.012]





### Published by Baishideng Publishing Group Inc

7041 Koll Center Parkway, Suite 160, Pleasanton, CA 94566, USA

**Telephone:** +1-925-3991568

E-mail: bpgoffice@wjgnet.com

Help Desk: https://www.f6publishing.com/helpdesk

https://www.wjgnet.com

