

S215 HIGH INCIDENCE OF PROLONGED COVID-19 AMONG PATIENTS WITH LYMPHOMA TREATED WITH B-CELL DEPLETING IMMUNOTHERAPY

Topic: 19. Aggressive Non-Hodgkin lymphoma - Clinical

Keywords: Clinical outcome COVID-19 Lymphoma

Rémy Duléry¹, Sylvain Lamure², Marc Delord³, Roberta Di Blasi¹, Adrien Chauchet⁴, Thomas Hueso⁵, Cédric Rossi⁶, Bernard Drenou⁷, Bénédicte Deau-Fischer¹, Sandra Malak⁸, Pierre Feugier⁹, Nicolas Noël¹⁰, Sylvain Choquet¹, Serge Bologna¹¹, Bertrand Joly¹², Laure Philippe¹³, Catherine Thieblemont¹, Caroline Besson^{14, 15}

- ¹ APHP, Paris, France
- ² CHU Montpellier, Montpellier, France
- ³ CH Versailles, Le Chesnay, France
- ⁴ CH Besançon, Besançon, France
- ⁵ Gustave Roussy, Villejuif, France
- ⁶ chu dijon, Dijon, France
- ⁷ ch-mulhouse, Mulhouse, France
- ⁸ Curie, Saint Cloud, France
- ⁹ CHRU Nancy, Nancy, France
- ¹⁰ APHP, Le Kremlin Bicetre, France
- ¹¹ Centre d'Oncologie de Gentilly, Nancy, France
- ¹² Centre Hospitalier Sud Francilien, Corbeil, France
- ¹³ Centre Hospitalier d'Annecy, Annecy, France
- ¹⁴ UVSQ, Le Chesnay, France
- ¹⁵ CH de Versailles, Le Chesnay, France

Background:

Treatment of B-lineage lymphoma with B-cell depleting immunotherapy causes B-cell aplasia and impairs immune response. Case studies have reported patients treated with anti-CD20 therapy who suffered from persistent Covid-

Aims: We aimed to assess the incidence, risk factors and long-term outcomes of persistent Covid-19 in patients with lymphoma.

Methods:

This retrospective multicentric study was conducted in 16 French hospitals. All adult patients with lymphoma who were admitted for Covid-19 in March and April 2020 were included. Persistent Covid-19 was defined as persisting severe Covid-19 symptoms requiring in-hospital stay for >30 days. Patients who re-experienced severe Covid-19 symptoms after initial improvement, requiring repeated hospitalizations for a total in-hospital length of stay >30 days were added to the persistent Covid-19 cases.

Results:

One hundred eleven patients were included. Thirty days after admission for Covid-19, 24 patients had died, 55 had been definitively discharged from hospital, 31 were still hospitalized and 1 was later rehospitalized for Covid-19 recurrence. The incidence of persistent Covid-19 was 32/111 (29%). Patients with persistent Covid-19 had a median age of 64 years (range, 43-87) and 63% were male. Twenty-two patients (69%) had at least one significant comorbidity. None of the patients with T-cell (n=8) lymphoma or classical Hodgkin's disease (n=8) experienced persistent Covid-19.

In the 32 patients with persistent Covid-19, the median time between first admission and final discharge was 58 days (range, 31-235) and the median duration of Covid-19 symptoms was 83 days (range, 32-237). Eight patients

received corticosteroids and 9 convalescent plasma: all patients recovered from their symptoms, except one. Overall, 9 patients with persistent Covid-19 died (27%).

After a median follow-up of 191 days (range, 3-260), the 6-month overall survival was 69% (95% CI 60-78%) for the whole cohort. In multivariate analysis, administration of anti-CD20 monoclonal antibody within 12 months before admission to hospital for Covid-19 was both associated with decreased overall survival (HR 2.13, 95% CI 1.03-4.44, p = 0.043) and prolonged in-hospital stay (HR 1.97, 95% CI 1.24-3.13, p = 0.004). The two other significant factors associated with decreased overall survival and prolonged in-hospital stay : age \geq 70 years and refractory or relapsed lymphoma.

Image:

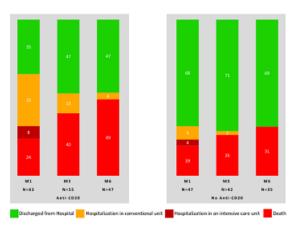


Figure 3. Patients evolution according to B-cell depleting treatment within 12 months before Covid-19

Summary/Conclusion: Patients with B-cell non-Hodgkin lymphoma hospitalized for Covid-19 have a high incidence of prolonged evolution of SARS-CoV-2 infection. Administration of anti-CD20 therapy within the last 12 months is one of the main risk factors for longer in-hospital stay and death of Covid-19. The risk of persistent Covid-19 was also higher in patients older than 70 years or with refractory or relapsed disease. These findings may contribute to guide the management of lymphoma patients during the Covid-19 pandemic.

Copyright Information: (Online) ISSN: 2572-9241

© 2021 the Author(s). Published by Wolters Kluwer Health, Inc. on behalf of the European Hematology Association. This is an open access Abstract Book distributed under the Attribution-NonCommercial-NoDerivs (CC BY-NC-ND) which allows third parties to download the articles and share them with others as long as they credit the author and the Abstract Book, but they cannot change the content in any way or use them commercially

Abstract Book Citations: Authors, Title, HemaSphere, 2021;5:(S2):pages. Abstract Book, DOI: http://dx.doi.org/10.1097/HS9.000000000000566

Disclaimer: Articles published in the journal HemaSphere exclusively reflect the opinions of the authors. The authors are responsible for all content in their abstracts including accuracy of the facts, statements, citing resources, etc.

EHA2021 Virtual
JUNE 9-17 2021
POWERED BY M-ANAGE.COM