



9th EUROPEAN
CONFERENCE on
INFECTIONS in
LEUKAEMIA



► **IN-PERSON CONFERENCE**
From September
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Final
slide set

COVID19: Clinical symptoms and infection control and the prevention management of positive patient (and positive donor in case HCT)

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In red: modifications in comparison to 2021



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COVID-19: clinical symptoms and course of the disease

Typical symptoms in HM patients

UPDATE 2022

- The most common symptoms of COVID-19 in HM patients are similar to the overall population
- With Omicron, cough is the most common symptom (70%), fever around 40% and sore throat around 60%
- Loss of taste/smell is less frequent with Omicron
- Other common symptoms are breathlessness (37-49.3%) and fatigue (20.3-50%)
- Immunosuppressed patients may present atypical symptoms such as diarrhea, vomiting, loss of appetite and confusion
- A severe clinical presentation occurs in about 15-52.4% of cases in HM patients, depending on vaccination status and variant of concern (VOC)
- Critical cases range between 6.9-14% in the most relevant published studies
- The incidence of breakthrough SARS-CoV-2 infections is variable among the published studies, as a consequence of different study designs and circulating VOC. Overall, the estimated incidence of breakthrough SARS-CoV-2 in HM patients ranges between 0.3% and 8%

References. Passamonti, et al. Lancet Haematol 2020; Cattaneo, et al. Cancer 2020; Borah, et al. Blood Cell Molec Dis 2021; Glenthøj, et al. Eur J Haematol 2020; Wood, et al. Blood Adv 2020; Kurderer, et al. Lancet 2020; Lee, et al. Lancet Oncol 2020; Yigenogin, et al. J Med Virol 2021; Regalado-Artamendi, et al. Hemasphere 2021; García Suárez, et al. J Hematol Oncol 2020; Pinana, et al. Exp Hematol Oncol 2020; Sharma, et al. Lancet Haematol 2021; Giesen, et al. Eur J Cancer 2020; Giesen, et al. Eur J Cancer 2021; ElGohary, et al. Hematol Oncol Stem Cell Ther 2020; Ali, et al. Hematol Oncol Stem Cell Ther 2020; Coronavirus disease COVID-19: EBMT recommendations version 15 – February 17, 2021; Ljungman, et al. Leukemia 2021. Vihta medRxiv 2022; Schulze Front Virol 2022; Pagano Blood 2022; Mittelman M, et al. Blood 2022; Maneikis K, et al. Lancet Haematol 2021; Lee LYM, et al. Lancet Oncol 2022; Savini M, et al. Am J Hematol 2022].



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COVID-19: clinical symptoms and course of the disease

UPDATE 2022

Update on «long-COVID» in HM patients

- A comprehensive meta-analysis including 31 studies estimated a post-COVID-19 condition prevalence of 0.43% (95%CI: 0.39-0.46) in the overall population
- Data on cancer patients show that post COVID-19 sequaele affect up to 15% of patients with cancer and adversely influence survival and oncological outcomes and recovery
- Few specific data have been published focusing only on HM patients, showing similar clinical presentation to that observed in the overall population
- Older age, comorbidities, COVID-19 treatment, COVID-19 complications and/or hospitalization occurrence during the acute phase are the main risk factors for long-COVID-19 in cancer patients
- Community-base cohort studies showed that vaccinated people were less likely than unvaccinated people affected by long-COVID. There are not published data about this issue in HM patients
- **The incidence and severity of long-COVID in HM patients deserves further investigation**

References. Chen et al. J Infect Dis 2022; Pinato et al. Lancet Oncol 2021; Chopra et al. Ann Int Med 2020; Huang et al. Lancet 2021; Cortellini et al. Eur J Cancer 2022; Barbui et al. Blood Cancer J 2021; Ayoubkhani et al. BMJ 2022; Antonelli et al. Lancet Infect Dis 2022; Al-Aly et al. Nat Med 2022



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Multisystem inflammatory syndrome in children (MIS-C)

Definitions:

1. World Health Organization (WHO) criteria (MIS-C)
2. Centers for Disease Control and Prevention (CDC) criteria (MIS-C)

MIS-C described and defined but low incidence in pediatric HM

Multisystem inflammatory syndrome in adults (MIS-A)

MIS-A is a rare clinical entity, its long-term sequelae are largely unknown.

MIS-A, reported in 2021-2022, but rare in general population and no description in HM patients yet (Patel et al., 2021; Kunal et al., 2022).



DEFERRAL OF THERAPY

COVID19 symptomatic HCT and HM patients

- For patients planned for allogeneic or autologous HCT or CAR-T and diagnosed with COVID-19, **we recommend** deferral of conditioning therapy due to high propensity for LRTID and high mortality (**All-t**)
- In HM patients with COVID-19, **we suggest** deferral of chemotherapy after **assessment of clinical risk/benefit ratio on the patient individual basis (BIIu)**

Asymptomatic SARS-CoV-2 infection in HCT and HM patients

- In HM patients with asymptomatic SARS-CoV-2 infection and no previous COVID19 disease, **we suggest** the deferral of HCT, CAR-T therapy, therapy with MoAbs, and other non-cellular therapies **after assessment of clinical risk/benefit ratio** on the patient individual basis (**BIIu**)

Asymptomatic SARS-CoV-2 infection, but persistently shedding the virus

- In case of patient who became asymptomatic after a previous COVID19 disease but is persistently shedding the virus, **we suggest** the deferral of HCT, CAR-T therapy, therapy with MoAbs, and other non-cellular therapies **after assessment of clinical risk/benefit ratio on the patient individual basis (BIIu)**



DONOR DEFERRALS and cryopreservation

UPDATE 2022

Donor diagnosed with COVID-19	<ul style="list-style-type: none">• 7 days after clinical recovery (BIII)• For asymptomatic infections, 7 days after the most recent positive test result.
Contact with a person diagnosed with COVID-19	For at least 14 days after last contact (BIII)
Practice good hygiene and socially isolated	Within 14 days of donation (BIII). Unnecessary travel should be avoided.

- If the patient's need for transplant is urgent, the donor is completely well, a test is negative for SARS-CoV-2 and there are no suitable alternative donors, earlier collection may be considered subject to careful risk assessment, **ie. 7 days post-contact if an asymptomatic donor tests negative.**
- Cryopreservation of the graft is an option for PBSC from RD and URD (BIII). **Cryopreservation of allogeneic HPC grafts is a reasonable option that might be implemented after benefit-risk assessment.**

DONOR TESTING: In the absence of symptoms, testing the donor for SARS-CoV-2 at the point of collection, or testing the donation itself, is not mandatory. Local or country policy can be applied.



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