GUSTAVE ROUSSY **CANCER CAMPUS** GRAND PARIS

#36 The SARS-CoV-2 vaccine and enrollment of patients with cancer in Phase I trials: The experience at Institute Gustave Roussy

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BACKGROUND

The outbreak of severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) has been associated with a disruption of all components of cancer care from screening, diagnosis, monitoring surveillance, treatment and clinical trial enrollment ¹⁻³.

The COVID-19 associated morbidity and mortality in patients with cancer range from 5% to 61%, in contrast to the 2–3% observed in the general population ⁴.

Patients with active cancer are therefore a priority population for vaccination. Furthermore, the World Health Organization (WHO) considered cancer patient as priorities for Covid-19 vaccination ⁵.

Guidelines for Covid-19 vaccination for patients enrolled in phase I trials have been proposed by experts⁶. Some experts suggest to avoid starting investigational medicinal product (IMP) until 2 weeks after the second dose of severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) for trial IMPs at risk of cytokine release syndrome. Patients already enrolled in trial should also be vaccinated, but not the days of IMP injection or during

In order to better understand the impact of SARS-CoV-2 vaccination on early phase clinical trials, we collected data of patients treated at the Drug Development Department, at Gustave Roussy.

PATIENTS AND METHODS

We conducted a retrospective chart review, singlecenter study, to observe the relationship between patients enrolled in a Phase I trial at Gustave Roussy and the vaccination of SARS-CoV-2 between the 4th of January and the 1st of June 2021. Patients were contacted by phone if the information was not available in their medical record.



the DLT period ⁷

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RESULTS

178 patients, data was available for 143 patients.





CONCLUSION

These findings demonstrate SARS-CoV-2 vaccine adherence in patients enrolled in phase I oncological trials. Our study illustrates that patients vaccinated up to 21 days after the initiation of their IMP did not experience any additional adverse events. Therefore, we suggest that phase I trials should not delay the SARS-CoV-2 vaccination in this specific population.



Out of the 9 patients, two patients vaccinated with Pfizer-BioNTech developed a pulmonary embolism detected by imaging 48 and 51 days after initiation of the patients' trial IMP. The pulmonary embolisms were not considered to be related to the Pfizer-BioNTech vaccine according to the safety data on the Pfizer-BioNTech vaccine.

Among the 23 patients receiving IMP at risk of CRS, two patients had the SARS-CoV-2 vaccination up to 3 weeks after C1D1. The two patients did not experience any severe infusion related reaction after the vaccination.

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