Apheresis platelets transfusion from a COVID-19 positive donor in a hematopoietic stem cell transplantation patient– case report

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July 1, 2020

Abstract

Coronavirus pandemic is the present concern worldwide. The virus is transmitted via a droplet route; however, transmission through blood products had not been reported. We present a 22-month-old boy with leukemia who developed fever and liver veno-occlusive disease 22 days post allogeneic hematopoietic stem cell transplantation coincidently after receiving apheresis platelets from a donor who tested positive for COVID-19 shortly after donation. The patient's nasal swab and blood PCRs remained negative two weeks after the event. Although this case did not show viral transmission through platelet transfusion, objective donor screening and viral deactivating techniques are practical options to ensure safety.

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