



Modern Blood Banking and Transfusion in Clinical Practice

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Message from the Guest Editor

Blood banking and transfusion practices have evolved considerably over the years. Some of the notable changes are the increasing automatization of compatibility testing and implementation of electronic systems to monitor the transfusion process from the order to the adverse effect records. Use of monoclonal antibodies such as anti-CD38 and anti-CD47 for the treatment of patients with malignancies is challenging for blood banks, since these treatments produce interferences with pre-transfusion compatibility tests delaying blood availability.

Transfusion is one of the most widely used therapies, sometimes involving inappropriate episodes. During the last decade, hemovigilance systems have detected a decline in red blood cell usage that could be explained by incorporation of restrictive strategies based on current scientific evidence, among others. In fact, patient blood management programs are being progressively incorporated into the clinical practice in order to reduce unnecessary blood exposure and improve patient outcome.

The aim of this issue is to gather recent advances in blood banking laboratory and management of patients requiring a blood transfusion.





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