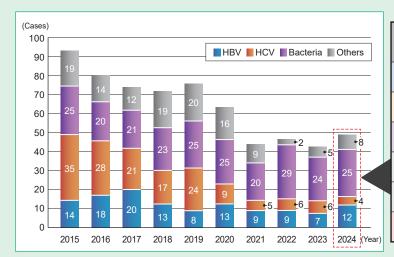


Infectious Cases that were Likely Related to Transfused Blood Components (2024)

JRCS analyzed and evaluated suspected cases of viral and other transfusion-transmitted infections (TTIs) reported by medical institutions to JRC blood centers (voluntary reports), as well as cases subjected to post-donation information-based retrospective studies (lookback studies). In 2024, 1 HBV infection case and 2 bacterial infection cases were confirmed through detection of viral nucleic acid and bacteria in repository samples of the implicated or subsequent blood donations.

Annual number of cases reported to JRC blood centers as suspected transfusion-transmitted infections and breakdown of the reported cases by pathogen in 2024.



Pathogen	Number of reported cases	Number of confirmed cases		
HBV	12	1		
HCV	4	0		
Bacteria	25	2		
HEV	2	0		
CMV	6	0		
Total	49	3		

Summary of case reports: Cases confirmed to be TTIs based on detection of pathogens in relevant items such as repository samples of donated blood (2024)

HBV

Voluntary reports: Cases reported by medical institutions as suspected transfusion-transmitted viral infections

Cas	2000	Blood component (year and month of blood collection)	Primary disease	Age	Sex	Pre-transfusion test		Post-transfusion test		ALT		Patient
	No.					Markers tested	Test results	Positive conversion of markers	Time from transfusion		Time from transfusion	outcome
	1	Ir-RBC-LR (2024.3)	Aortic valve stenosis	70s	М	HBV-DNA HBs-Ag HBs-Ab HBc-Ab	Neg.	HBs-Ag	12 wks	1044	15 wks	Recovering

Bacteria

Voluntary reports: Cases reported by medical institutions as suspected transfusion-transmitted bacterial infections

Case No.	-	(Vear and month of	Primary disease	Age	Sex	Symptoms	Time to onset (from start of administration)	Results of post-transfusion blood culture		Patient
	No.							Blood component	Patient blood	outcome
	1	Ir-PC-LR (2024.3)	Idiopathic thrombocytopenic purpura	30s	F	Headache, loss of consciousness, hypotension, fever	1 hr and 25 minutes	Streptococcus dysgalactiae subsp. equisimilis (Group G hemolytic streptococcus)	Streptococcus dysgalactiae subsp. equisimilis (Group G hemolytic streptococcus)	Recovered
	2	Ir-PC-LR (2024.3)	Diffuse large B-cell lymphoma	70s	F	Chills and shivering, decreased oxygen saturation, fever, hypotension	45 minutes	Serratia marcescens	Serratia marcescens	Recovering

■ Visual inspection of platelet components

All platelet components supplied on or after July 30, 2025 have been subjected to bacterial screening. Although the introduction of bacterial screening is expected to improve safety, bacterial contamination cannot be completely eliminated.

Please check whether there are many or large aggregates in platelet components and whether there is a sudden change in appearance, and continue to monitor the patient after transfusion.

If any symptoms suggestive of bacterial infection are observed, transfusion should be immediately discontinued and appropriate measures should be taken.

Presence of aggregates/clots: Aggregates/clots may occur due to the growth of contaminating bacteria.





Aggregates caused by contamination with Staphylococcus aureus (cases before introduction of bacterial screening)

In case of any suspected adverse reactions or infections related to transfusion of blood components, please notify medical representatives of your local JRC blood center immediately.

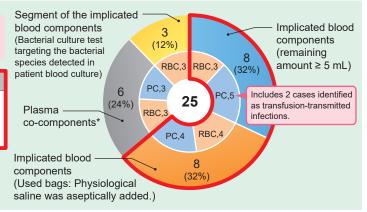
(Reference) Notice: "Appearance of platelet components after introduction of bacterial screening"

■ Specimens for investigation of suspected bacterial infection cases (2024)

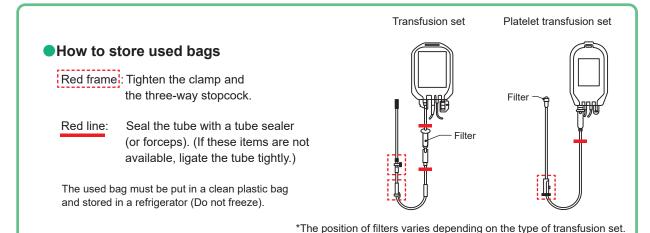
In order to identify the cause, it is important to investigate the implicated blood component bags (including the used bags).

	2022	2023	2024
Percentage of implicated blood components investigated (including used bags)	62%	84%	64%

*In the past, there have been no cases in which bacteria were detected from plasma co-components.



Storage of used bags



For the storage of used bags, refer to the "Guidelines for Lookback Studies of Blood Products."

Japanese Red Cross Society Haemovigilance Information English website

For blood products and transfusion information

Japanese Red Cross Society Haemovigilance Information

https://www.jrc.or.jp/mr/

Search



Transfusion Information 2509-188

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