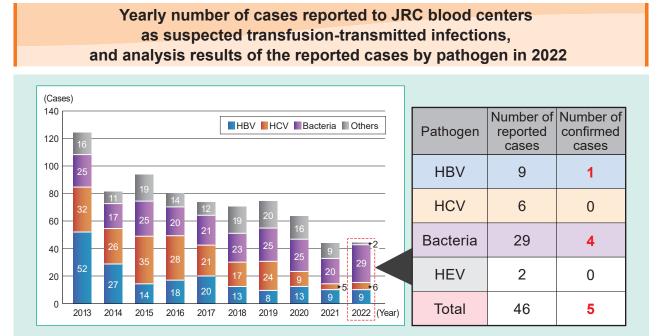


# Infectious Cases That were Likely Related to Transfused Blood Components (2022)

JRCS analyzed and evaluated suspected transfusion-transmitted infections (TTIs) cases voluntarily reported by medical institutions to JRC blood centers as well as cases subjected to post-donation information-based retrospective studies (lookback studies). In 2022, 1 HBV infection case and 4 bacterial infection cases were confirmed through detection of viral nucleic acid and bacteria in repository samples of the implicated or subsequent blood donations.



## Summary of case reports (cases confirmed to be TTIs based on detection of pathogens in relevant items such as repository samples of donated blood) (2022)

### Bacteria

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

Case No.	Blood component (year and month	Primary disease	Age	Sex	Symptoms	Time to onset (from start of	Results of post-transfusion blood culture		Patient	
140.	of blood collection)		0			administration)	Blood component	Patient blood	outcome	
1	Ir-PC-LR (2022.11)*	Malignant tumor	70s	М	Headache, nausea, cough, fever	50 min	Morganella Morganella morganii morganii		Recovered (with sequelae)	
2	Ir-PC-LR (2022.11)*	Emergency surgery for angina pectoris	70s	М	Hypotension, multiple organ failure	Following day	Morganella morganii	Morganella morganii	Death	
3	Ir-PC-LR (2022.11)	Myelodysplastic syndrome	70s	F	Chills, shivering, fever, vomiting, respiratory distress	1 hr	Staphylococcus aureus	Staphylococcus aureus	Recovered	
4	Ir-PC-LR (2022.3)	Myelodysplastic syndrome	50s	F	Chills, shivering, respiratory distress, fever, hypotension	40 min	Escherichia coli	Escherichia coli	Recovered	

\*Separated platelet components prepared from a single blood collection

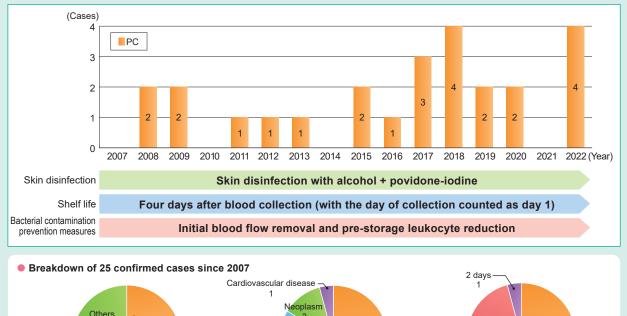
#### HBV

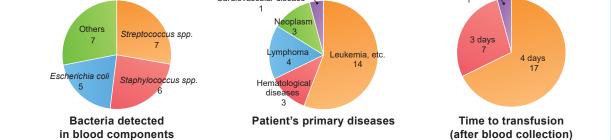
 Post-donation information: A case identified through lookback studies conducted based on reported positive conversion in blood screening test results

Case No.	Blood component				Pre-transfusion test		Post-transfusion test		ALT		Patient	
	lo	(year and month of blood collection)	Primary disease	Age	Sex	Test items	Test results	Positive conversion items	Duration after transfusion	Maximum (IU/L)	Duration after transfusion	outcome
						ILEITIS	TESUIIS	0011401310111101113	แล้ารับริเปก		liansiusion	
	1	Ir-PC-LR (2021.7)*	Aplastic anemia	80s	F	HBs-Ag	Neg.	HBV-DNA HBs-Ag	21 wks	•	<b>♦</b>	Unknown
*The donated blood above was negative for HBV-NAT, but turned positive at the time of the subsequent donation, 4 weeks later.										ative data.		

#### Transfusion-transmitted bacterial infections (confirmed cases by reported year) and safety measures

Although transfusion-transmitted bacterial infections caused by red blood cell components have not been confirmed since the introduction of initial blood flow removal and pre-storage leukocyte reduction, confirmed platelet component-related infections continue to occur. There were 4 such cases in 2022.

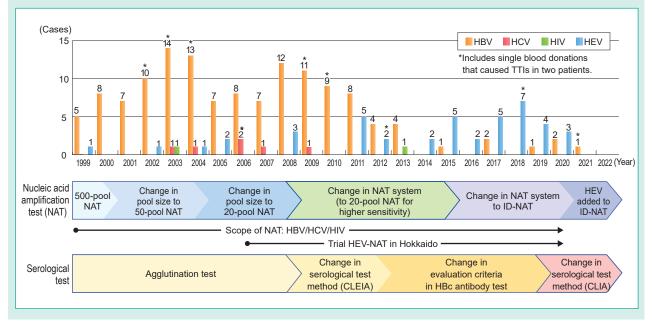




#### Number of blood donations that caused transfusion-transmitted HBV, HCV, HIV, and HEV infections by year of collection, and changes in safety measures

After the introduction of individual donation NAT (ID-NAT), 8 cases of post-transfusion HBV infection have been confirmed, including 1 case in 2022 (involving blood collected in 2021).

No post-transfusion HEV infections have been confirmed since the introduction of HEV-NAT in August 2020.



#### Transfusion Information 2308-180 •

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