

fraser**health**

For ALL suspected blood component/product transfusion reactions:
1. STOP the transfusion. Do NOT infuse the remaining blood component/product in the line.

Disconnect the set from the IV site, and maintain sterility of the blood product and IV set.
Give N/S (or D5W for IVIG infusion) TKVO with new IV set.

2. ASSESS the patient's vital signs and symptoms and stabilize the patient.
3. RECONFIRM unique identifiers on both patient and blood component/product as per facility policy and procedures.
Verify the information is IDENTICAL on the (1) patient's ID band, (2) issue document/tag, and (3) blood component/product label

Call the Transfusion Medicine Service (TMS/Lab) IMMEDIATELY if an error has occurred. Another patient may be at risk.

4. NOTIFY the attending physician or designate of the reaction.

Follow the physician's instructions for the treatment and management of the clinical symptoms.

- Obtain orders for a chest x-ray if the patient exhibits hypoxemia (SpO2 <90% or PaO2 < 60 mm Hg on RA, or PaO2/FIO2 ratio < 300)
- Obtain orders for aerobic and anaerobic blood cultures if criteria are met for suspected bacterial contamination (see Tables 1 & 2).

Call the TMS/Lab IMMEDIATELY if the patient has any of the following:

- new onset red/brown urine, or
- ₀ sudden onset of hypoxemia (SpO2 < 90% or PaO2 < 60 mm Hg on RA, or PaO2/FIO2 ratio ≤ 300), or
- ₀ sudden onset of hypotension (≥ 30 mm Hg drop in systolic BP and a systolic BP below 80 mm Hg), or
- o if you suspect bacterial contamination of the product (see Table 2),

5. INITIATE the transfusion reaction investigation. Order TRX.

- SEND samples and sealed blood component/product to TMS/Lab. (see Table 1).
- PROMPTLY send completed Transfusion Reaction Report to TMS/Lab for all transfusion reactions.

Table 1		Send to			
Clinical Signs & Symptoms (S/S)	Form Sealed Blood Patient Samples Product (order TRXTST if required)		Ongoing Transfusion Care		
IVIG related, mild transient S/S - side effects that resolve with reduced flow rate or medication	No	Νο	None	May restart the transfusion at a slower rate with appropriate medication and	
Urticaria or pruritus with any blood component/product	Yes	No	None	frequent vital signs if ordered by the physician after consultation on the patient's condition.	
IVIG related S/S that are moderate or severe or unresponsive to "Ongoing Transfusion Care"	Yes	No	None		
Suspected bacterial contamination (see Table 2 for S/S)	Yes	Yes (avoid contamination of product)	2 EDTA vials And - First voided post-reaction urine sample for routine urinalysis (may be sent later) And - Patient Blood Cultures are recommended	Do NOT restart the transfusion	
All other unexpected signs or symptoms with any blood component /product	Yes	Yes (avoid contamination of product)	2 EDTA vials And - First voided post-reaction urine sample for routine urinalysis (may be sent later)		

Table 2: SUSPECT Bacterial Contamination of the bloo	d component/product IF patient has signs or sympton	ns A, B, C or D as follows:
A. Fever defined as an oral temperature \ge 38 °C AND \ge 1 °C rise in temperature above the pre-transfusion baseline	OR	OR
PLUS any of the following signs and symptoms:	B. Fever defined as an oral temperature ≥ 39 °C	C. Fever not responding to antipyretics
 Rigors (involuntary shaking) 	AND ≥ 1 °C rise in oral temperature above the	
Nausea or vomiting	pre-transfusion baseline even in the absence	OR
Dyspnea (shortness of breath)	of other signs and symptoms	
 Hypotension (systolic BP drop of ≥ 30 mm Hg below the pre-transfusion baseline) 		D. A high suspicion of sepsis even in the absence of fever
 Tachycardia (HR > 40 bpm above pre-transfusion 		
baseline)		
Shock		

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		EACTION R						
			-					
□ARH □BH □]СGН 🗖 DH							
		□PA	Н □ RCH □ RMH	∎smh				0
Form ID: LBXX10004	8D	Rev: Apr 20, 20	17	Page: 1 of	2			
Diagnosis:					-			5
Indication for Tra	nsfusion:							
Category: 🛛 Her	natology/BMT	Oncology D N	Nedical 🔲 Surgica	al 🛛 🖸 Ob	stetrics/Gyn/Peri	natal 🛛 Traur	ma 🗖 I	Veonatal
	•		dentifier Verification	,	,			
IF NO, contact TM	IS/Lab IMMEDI		Patient ID band • I tient may be at risk.	lssue docun	-	d component/pro MS/Lab notified		
2. Clinical History	(Check all tha	t apply)						
Pre-existing fev			y or evidence of circu			e-compromised		
			fused under REGION			sion medication	(specify):	
Patient currently		ACE inhib		Antibio		4		
History of trans				within 3 mo	, ,	> 3 months)		
History of pregr			,	within 3 mo	nths) 🗳 Yes (>	> 3 months)		
		Transfusion Reacti		<u></u>				
Patient location:		R U Medical ward	d 🔲 Surgical ward					
Date (dd/mmm/yyy	y) Time Tran	sfusion Started	Time Reaction Occurred	Time Tra	nsfusion Stopped	Time Transfusio	n Restarted (Qu	iick Reference Guide)
4. Clinical Signs a	and Symptoms	I						
Pre-transfusion	Temp:	°C (route)	BP:		Pulse:		Respiratory Ra	
Post transfusion	Temp	℃ (route) (Highest)	BP:		Pulse		Respiratory Ra	te:
-	d Symptoms: (Check all that apply.		la nain	г	Dyspnea (sho	rtacco of brog	ath)
 Urticaria (rash) Pruritus (itching)		 Joint/musc Back pain 	he pain		Wheezing		all')
Headache)		Chest pain	n		Hypoxemia: S	PO2	% or
_	8°C AND ⊳1°C ri	se above baseline ter			-	• •	aO2	
Chills (sensation			Dizziness			Room air		
Rigors (involunt	,		Jaundice			Suppleme	ntary 02	L/min
G Flushing	,		Red or bro	wn urine	C	Hypertension		
Skin rash other	than urticaria		🗖 Oliguria		0	Hypotension (SBP drop <u>></u> 3	80mmHg)
Restlessness/a			Diffuse her	-		Tachycardia (HR rise > 40b	pm)
Nausea/vomitin			Facial or to	ongue swell	ing 🛛	Shock		
Other relevant clin								
			formation (Attach sl	heet with a				
5a. Blood Compone	nt/Product Type	Unit or Lot Numb	er		Volume Transfu	ised (mL or # of v	rials)	
- 10								
5b. Filters Equipment	nt Used	Standard blood filter Re-infusion devic			ump 🔲 Blood v etails	warmer 🛛 Rap	oid infusion de	evice
6. Measures and								
6a. Treatment Meas	ures Taken (Che							
Antipyretics		Diuretics →	Leffective	Analge				Sume the second
Antihistamines		Antibiotics		Chest	mentary O2 X-ray		entilation $\rightarrow D$	
Steroids		Vasopressor			A Tay	L B	lood samples	aken
Other: Notifications:				I				
Physician (name):			Date/Time:		TMS/Lab (name):	Date/Time:	
6b. Reported By: (si	gnature)				(
Name (print):				Designati		Date	e/Time:	
Reference Document	BC Provincial Mo	del Document BC TTIS	SS TT1 0002E Ver 2.0 Au	uquet 2011 P	rint Shon # 252728			

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TRANSFUSION REACTION REPORT

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Transfusion Medic	ine Service	/ Laboratory L	Jse Only					
7. Results of Investigation	Pathologist Con	clusion						
7a. History of Previous Tra	Insfusion Reacti	ons					0	
None Unk	known	Yes (within 3 months	s)	months) Type o	f previous reac	tion:	<u> </u>	
7b. Relevant Lab Results a				ent ABO/D:				
Examination	Pre transfusion	Result Post trans	sfusion Result					
						<u>بر</u>		
7c. Pathologist Conclusion	n (based on 2007	PHAC definitions)				~ ~ ~		
Incident: Patient iden	ntification	oduct related 🛛 Equ	ipment related 🛛 Ot	her(specify):				
No transfusion reaction	G FNH	Minor allergic	Severe allergic,	anaphylactict / anap	hylactoid	Anaphylactic shoc	k	
IVIG headache	Aseptic m	eningitis (IVIG related	I)					
Incompatible Transfusion	n 🔲 Intentior	nal 🔲 Unintentional	ABO System A	nti	Other S	vstem Anti-		
Acute hemolytic reaction	Acute hemolytic reaction Delayed hemolytic reaction Cause:							
Delayed serological transfusion reaction Specify new alloantibody(ies) within 28 days of transfusion: Anti								
	Hypotens	sive reaction	PTP 🗖 TA-GV	′нд				
Bacterial contamination Positive culture product Organism (specify):								
	Positive c	culture recipient	Organism (specify)					
🗖 TRALI	D Possible	TRALI → Risk factor	rs:	*				
CBS TRALI criteri	ia met (1+2+3+4:)		CBS TRALI form	sent Date	:		
1 Hypoxemia (defined as any of) SpO ₂ < 90% on Room Air or PaO ₂ < 60 mm Hg on Room Air or PaO ₂ /FIO ₂ < 300								
2 📮 Transfusion wit	hin 6 hours of TR	ALI 3 New	Chest X-Ray findings of	of bilateral infiltrates	4 🖬 No	o evidence of circulator	y overload	
Unknown D Other	(specify):		•					
7d. Relationship, Severity,	and Outcome	1						
Relationship of reaction to tra	ansfusion	Definite	Probable	Possible	Doubtful	Ruled out	Not determined	
Severity (Grade)		1 (non-severe)	2 (severe)	3 (life-threat	ening)	4 (death)	Not determined	
Outcome		Minor or no seque	elae 🛛 🗖 Major o	r long-term sequelae)	Death	Not determined	
Relationship to death	$\sim \sim$	Definite	Probable	Possible	Doubtful	Ruled out	Not determined	
Blood supplier or manufactur	rer notified	□ No □ Yes → Supplier/Manufacturer Contact:				Date/Time:		
Status of investigation	J	 In progress Concluded 	Cannot be conclud	ded \rightarrow Reason (spec	ify)			
8. Pathologist Comments a	Ind Recommend							

This report relates to a transfusion administered at a facility other than the reporting facility. **Transfusion Facility**

Transfusion Service Medical Director Pathologist (or Designate)

Signature: