

Distribution: Transfusion Medicine Manual

Suspected Transfusion Reaction		Timing of	Immediate	Investigation	Suggested Treatment and Further Investigations	Possible
Signs and Symptoms		Symptoms	Actions	Send to Lab		Etiology
Fever > 38°C	38°C to <39°C and <u>NO</u> other symptoms	During transfusion. up to 4 hours post transfusion	1. STOP the Transfusion (do not	Complete Transfusion Reaction Investigation Form	 Consider Acetaminophen Restart Transfusion Cautiously if product still viable with physician approval & order (<4 hours from start of transfusion) 	Febrile non-hemolytic transfusion reaction
And ↑ of at least 1°C from baseline	Less than 39°C but with other symptoms (rigors, hypotension, chills, nausea, vomiting, headache) 39°C or greater	Usually in first 15 mins, may be later Within 24 hours of transfusion	disconnect product) 2. Maintain IV access – Run 0.9% Saline at KVO rate in different IV	 Complete Transfusion Reaction Investigation Form Collect EDTA (pink top):Type and Screen, Direct Antigen Test Return product/unit Hemolysis suspected: Order CBC, electrolytes, creatinine, bilirubin, INR, PTT, Fibrinogen & LDH 	 DO NOT RESTART TRANSFUSION Monitor patient closely consider Acetaminophen if bacterial contamination suspected – start antibiotics immediately; order blood cultures and routine urinalysis Consider Meperidine for shaking/chills Monitor for hypotension, renal failure by measuring urine output/hour and DIC Consult with Transfusion Medicine Physician on call @ AHS 	Febrile non-hemolytic transfusion reaction Bacterial Contamination Acute hemolytic transfusion reaction
Urticaria (hives) Itching or Rash	Less than 2/3 of body and NO other symptoms	During or up to 4 hours post transfusion	tubing 3. CHECK	Complete Transfusion Reaction Investigation Form	 Consider Antihistamine Restart Transfusion Cautiously if product still viable with physician approval & order (<4 hours from start of transfusion) 	Minor Allergic
	2/3 or more of body and NO otherUs ea symptomsAccompanied by other symptoms:Us other symptoms:hypotension, loss of consciousness, circulatory collapse, deathUs	Usually vit early in sta transfusion Co early in m transfusion se re	vital signs or start	 Complete Transfusion Reaction Investigation Form Collect EDTA (pink top): Type and Screen, Direct Antigen Test Return product/unit 	 DO NOT RESTART TRANSFUSION If respiratory difficulty, activate Code Blue/respiratory Mild to moderate reaction with stable V/S: corticosteroids, antihistamines Severe anaphylactoid reaction and/or unstable V/S: Epinephrine, Bolus Normal Saline Continuous monitoring (pulse, BP, resps, O₂ sats) Chest x-ray & urinalysis May require special blood products in future – consult with Transfusion Medicine Physician on call @ AHS 	Severe allergic/ Anaphylactic/ Anaphylactoid
			monitoring if severe reaction			Anaphylactic Shock
Dyspnea (SOB, ↓ O ₂ sats)	Typically with Hypertension Congestive heart failure, orthopenea, cyanosis, tachycardia, jugular venous distension, pulmonary edema, pedal edema, headache	Within several hours of transfusion	 4. RE-CHECK patient ID band vs. blood bank number and blood label 5. NOTIFY physician or ordering clinician 6. NOTIFY the Lab 	 Complete Transfusion Reaction Investigation Form Collect EDTA (pink top) blood sample Return product/unit 	 DO NOT RESTART TRANSFUSION If respiratory difficulty, activate Code Blue/respiratory Continuous monitoring (pulse, BP, resps O2 sats) Give diuretics (Furosemide), O2, place in high Fowler's if condition allows Subsequent transfusions: ↓ infusion rate (1 ml/kg/hr- max 4 hr/bag) Consider preload with diuretic or between transfusions 	TACO (Circulatory overload) Transfusion associated Dyspnea
	Typically with Hypotension	Within 6 hours of transfusion		 Complete Transfusion Reaction Investigation Form Collect EDTA (pink top): Type and Screen, Direct Antigen Test, and Red top sample Return product/unit Hemolysis suspected: Order CBC, electrolytes, creatinine, bilirubin, INR, PTT, Fibrinogen & LDH 	 DO NOT RESTART TRANSFUSION If respiratory difficulty, activate Code Blue/respiratory Continuous monitoring (pulse, BP, resps, O2 sats) O2, possible intubation, ventilation or vasopressors If bacterial contamination suspected → start antibiotics immediately – draw blood cultures Monitor for hypotension, renal failure by measuring urine output/hour and DIC Start IV infusion of Normal Saline prevent renal failure Assess chest X-ray for bilateral pulmonary infiltrates. Consult with Transfusion Medicine Physician on call @ AHS 	TRALI Transfusion related acute lung injury
		Usually first 15 mins but may be later				 Bacterial Contamination Acute hemolytic transfusion reaction Anaphylaxis



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