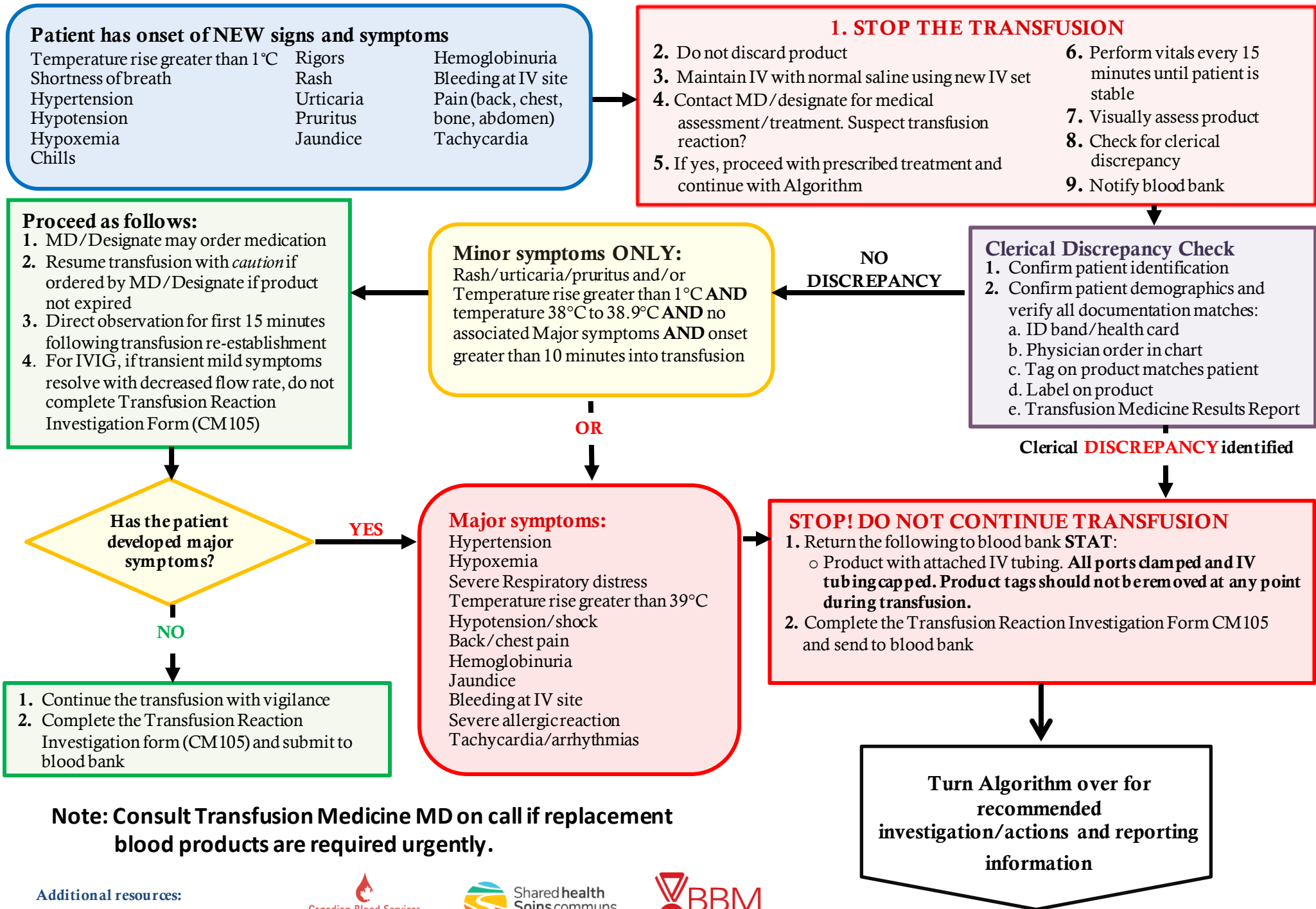


Transfusion Reaction Algorithm



Note: Consult Transfusion Medicine MD on call if replacement blood products are required urgently.

For all Suspected Major Transfusion Reactions

- Return product to blood bank STAT. Ensure tubing attached and all clamps closed.
 - Send a type and screen following usual protocol
- Notify health care provider who ordered blood product of the transfusion reaction
 - Complete the "Transfusion Reaction Investigation Form" CM105 and send to the blood bank

Signs and Symptoms	Recommended Investigation / Actions
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- Temperature rises to greater than 39°C
or
- Temperature rise not responding to antipyretics
or
- Temperature 38°C to 39°C and Chills/Rigors or Hypotension/Shock or Tachycardia or Severe Respiratory distress
or
- Suspicion of sepsis in absence of fever

- Draw Blood Cultures from patient
- If bacterial contamination suspected, antibiotics should strongly be considered
- Monitor patient for signs and symptoms of shock

Required Blood for Blood Cultures- Reference Guide					
Adults			Pediatrics		
Volume	Site	Bottle Type	Weight	Volume	Number of Bottles
10ml	peripheral	aerobic	<4kg	1ml	1 pediatric
10ml	peripheral	anaerobic	4-9kg (20lbs)	2-4ml	1 pediatric
10ml	second peripheral site	aerobic	9-27kg(20-60lbs)	10ml	3 pediatric or 1 adult aerobic
			28kg(61+lbs)	30ml	2 adult aerobic and 1 adult anaerobic



- Rash or urticaria accompanied by any major symptom

- Chest x-ray if dyspneic
- Monitor for shock, epinephrine may be required

- Severe hypertension associated with hypoxemia and severe respiratory distress, signs of fluid overload

- Consider a chest x-ray
- Monitor SpO2
- Patient may require oxygen and diuretics

- Severe hypotension associated with hypoxemia and severe respiratory distress

- Consider hemolytic or DIC (Disseminated intravascular coagulation) work up
- Chest x-ray if dyspneic
- Consider bacterial sepsis or allergic reaction work up

If TRALI (Transfusion Related Acute Lung Injury) is suspected the physician treating the patient must contact the TM physician on call and complete the "TRALI Patient Data Form" https://blood.ca/sites/default/files/TRALI_Patient_Data.pdf