

# BEDSIDE TRANSFUSION REACTION ALGORITHM

PATIENT EXHIBITS SIGNS AND SYMPTOMS OF A TRANSFUSION REACTION

- STOP** the transfusion/infusion immediately – **DO NOT** discard blood component or blood product
- Maintain IV patency with compatible IV fluid in a new primary line
- Assess patient and check vital signs (Q15 min until stable)
- Re-check patient ID, component/product ID and compatibility. **Δ Call TML IMMEDIATELY if an error has occurred; another patient may be at risk!**
- Notify Most Responsible Practitioner (MRP) immediately and obtain management directives
- Notify TML even if transfusion is restarted or completed
- REPORT ALL SUSPECTED TRANSFUSION ADVERSE REACTIONS TO TML.** Complete SK Transfusion Adverse Event Report (SK TAER) form and submit to TML

MRP WILL DETERMINE IF TRANSFUSION / INFUSION SHOULD CONTINUE BASED ON PATIENT'S SYMPTOMS

Minor Symptoms

Serious Symptoms

Clerical Discrepancy or Incompatibility

- Rash/pruritus (urticaria) covering less than 2/3 of body AND
- No other symptoms AND
- Onset greater than 15 minutes into the transfusion

- Temperature  $\geq 38^{\circ}\text{C}$  AND temp rise  $\geq 1^{\circ}\text{C}$  from pre-transfusion baseline AND
- No other symptoms AND
- Onset greater than 15 minutes into the transfusion

- Onset less than or equal to 15 minutes with ANY of the following symptoms:**
- Temperature  $\geq 39^{\circ}\text{C}$  OR temp rise  $> 1^{\circ}\text{C}$  from pre-transfusion baseline with/without other symptoms
  - Shaking chills or severe rigors
  - Rash/pruritus (urticaria) covering greater than 2/3 body or generalized itching
  - Airway or facial swelling
  - Dyspnea/hypoxemia
  - Cough/wheezing
  - Hypotension
  - Hypertension
  - Tachycardia
  - Nausea/vomiting
  - Bleeding from IV site
  - Diffuse bleeding/oozing
  - Jaundice
  - Pain (chest/back, headache, IV site)
  - Dark urine (hemoglobinuria)
  - Oliguria

- DO NOT RESTART THE TRANSFUSION**
- Send to TML:
  - post-transfusion blood samples
  - blood component or blood product, administration set/fluid and transfusion label/tag
- Validate with MRP if the following orders should be completed:
  - urinalysis
  - chest x-ray for severe dyspnea
  - blood and product cultures if bacterial contamination or sepsis is suspected
- Contact Transfusion Medicine Physician (TMP) on call for additional assistance as required

- MRP may order antihistamine
- Resume transfusion cautiously as per MRP order if component/product not expired
- Patient should be directly observed for the first 15 minutes after resuming transfusion

- MRP may order an antipyretic drug
- Resume transfusion cautiously as per MRP order if component/product not expired
- Patient should be directly observed for the first 15 minutes after resuming transfusion

Patient develops recurring or new serious symptoms

**SK Transfusion Transmitted Injuries Surveillance System (TTISS)**