



Saskatchewan
Health Authority

Title: Screening of RBCs and Platelets for Green, Amber, Red and Recovery Phases Affecting Blood Inventory

Role performing Activity: Regina, Southwest and Southeast Integrated Service areas excluding rural facilities previously in the Saskatoon Health Region

WORK STANDARD

Location: Laboratory Services, Regina General Hospital (RGH)

Department/Unit: Transfusion Services, RGH

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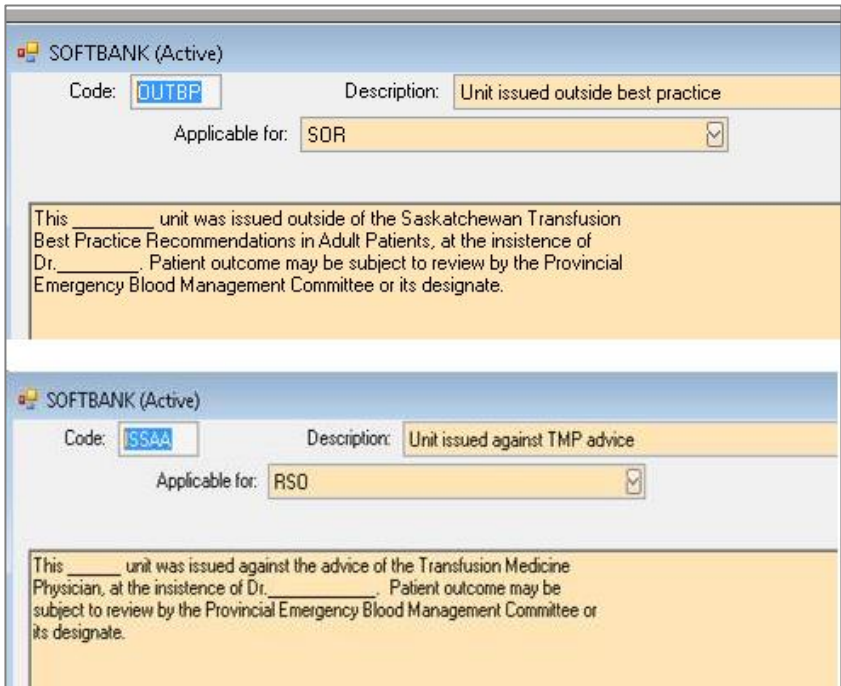
Related Policies/Documentation: Appendixes A, B, C, and D screening forms and algorithms

Work Standard Summary: This Work Standard provides instruction on using the screening forms, by each facility's Transfusions staff or Laboratory staff.

Essential Tasks:

1. Canadian Blood Services will notify all facilities of the inventory availability phase, e.g. Green, Amber, Red or Recovery phase. SHA will give updates and any other restrictions for the use of RBC and platelets. **Please remember to enter your facility's RBC and platelet inventory on the CBC site daily during the CBS advisory.**
2. **If a CLXT is the only staff available:**
 - if unmatched RBC are requested and patient has life threatening bleeding, issue RBCs as requested, call the Transfusion Medicine (TM) physician on call and document for the TM physician to review.
 - follow facility process for collection of group/screen when unmatched RBC are issued.
 - for all other requests call the testing facility whose staff will screen the order

3.	<p>RBC Screening During Blood/Blood Product Shortage:</p> <p>Saskatchewan Laboratories will screen requests for RBCs for inpatient and outpatient infusion using the screening form “Red Cell Screening During Blood/Blood Product Shortage” (see Appendix A). This form should only be completed by the MLT in the Laboratory. Please do not send it to the clinical ward for completion. Appendix B is a flowchart for Adult inpatient RBC screening. Appendix C is a flowchart for Adult RBC outpatient screening.</p> <ol style="list-style-type: none"> Using the screening form, each facility’s Transfusions staff or Lab staff will gather the data required in the first section of the form, from the ward requesting packed red cells. Document the patient information and screening parameters. Use the screening parameters for adult patients listed in the second section with Appendixes B or C to determine if one RBC may be issued. If the request for transfusion is outside of the recommendations, the TM physician on call must be consulted. If a TM physician consultation is required, please notify the ward and give them this instruction: “Because of COVID-19, Canada is current under a green/amber/red phase blood shortage advisory. Saskatchewan Laboratories have been tasked with screening all orders for blood/blood products for alignment with the Saskatchewan Transfusion Best Practice Recommendations. The request for red blood cells is outside of these recommendations. Unless delaying transfusion would be unsafe, please have Dr. (<i>ordering physician</i>) call the TM physician on call via Switchboard (306-766-4444) to discuss this RBC order.” Call the TM physician via Switchboard to give them details of the request and impending call. If you have not heard back from the TM physician within 15 minutes, go ahead and issue the first unit requested. Print your name and sign as the person completing the documentation. Fax a copy of the screening form to Transfusion Services, Laboratory, Regina General Hospital at 306-766-4382.
4.	<p>Platelet Screening During Blood/Blood Product Shortage:</p> <p>Saskatchewan Laboratories will screen requests for platelets for inpatient and outpatient infusion using the screening worksheet “Platelet Screening During Blood/Blood Product Shortage” (see Appendix D).</p> <ol style="list-style-type: none"> Using the screening form, each facility’s Transfusions staff or Lab staff will gather the data required in the first section of the worksheet, from the ward requesting platelets. Document the patient information. All platelet orders must be screened using the parameters listed under Inpatient Triage Parameters except for: <ol style="list-style-type: none"> the patient has life-threatening bleeding ; or the patient has a platelet count of $\leq 10 \times 10^9 /L$. If a TM physician consultation is required, please notify the ward and give them this instruction: “Because of COVID-19, Canada is current under a green/amber/red phase blood shortage advisory. Saskatchewan Laboratories have been tasked with screening all orders for blood/blood products for alignment with the Saskatchewan Transfusion Best Practice Recommendations. The request for platelets is outside of these recommendations. Unless delaying transfusion would be unsafe, please have Dr. (<i>ordering physician</i>) call the TM physician on call via Switchboard (306-766-4444) to discuss this platelets order.” Call the TM physician via Switchboard to give details of the request and impending call. If you have not heard back from the TM physician within 15 minutes, go ahead and issue the first unit requested. Print your name and sign as the person completing the documentation. Fax a copy of the screening form to Transfusion Services, Laboratory, Regina General Hospital at 306-766-4382.

5.	The TM physician on call will review the screening form and they will be kept at the Regina General Hospital facility in the Transfusions laboratory.
6.	<p>Each facility with SoftBank should build canned comments to attach to the blood component when the product is given outside of the Saskatchewan Transfusion Best Practice Recommendations in Adult Patients or against TM physician advice. The comments should read:</p>  <p>Add the comment when directed by the TM physician on call.</p>

Appendix A



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RED CELL SCREENING DURING BLOOD/BLOOD PRODUCT SHORTAGE

To be used by Regina, Southwest and Southeast Integrated Service Areas excluding the former rural Saskatoon Health Region

Patient Name: _____
 Phone Number: _____
 HSN/MRN: _____
 Date of Birth (dd/mm/yyyy): _____
 Gender: Male Female Unknown
 Facility/Ward: _____

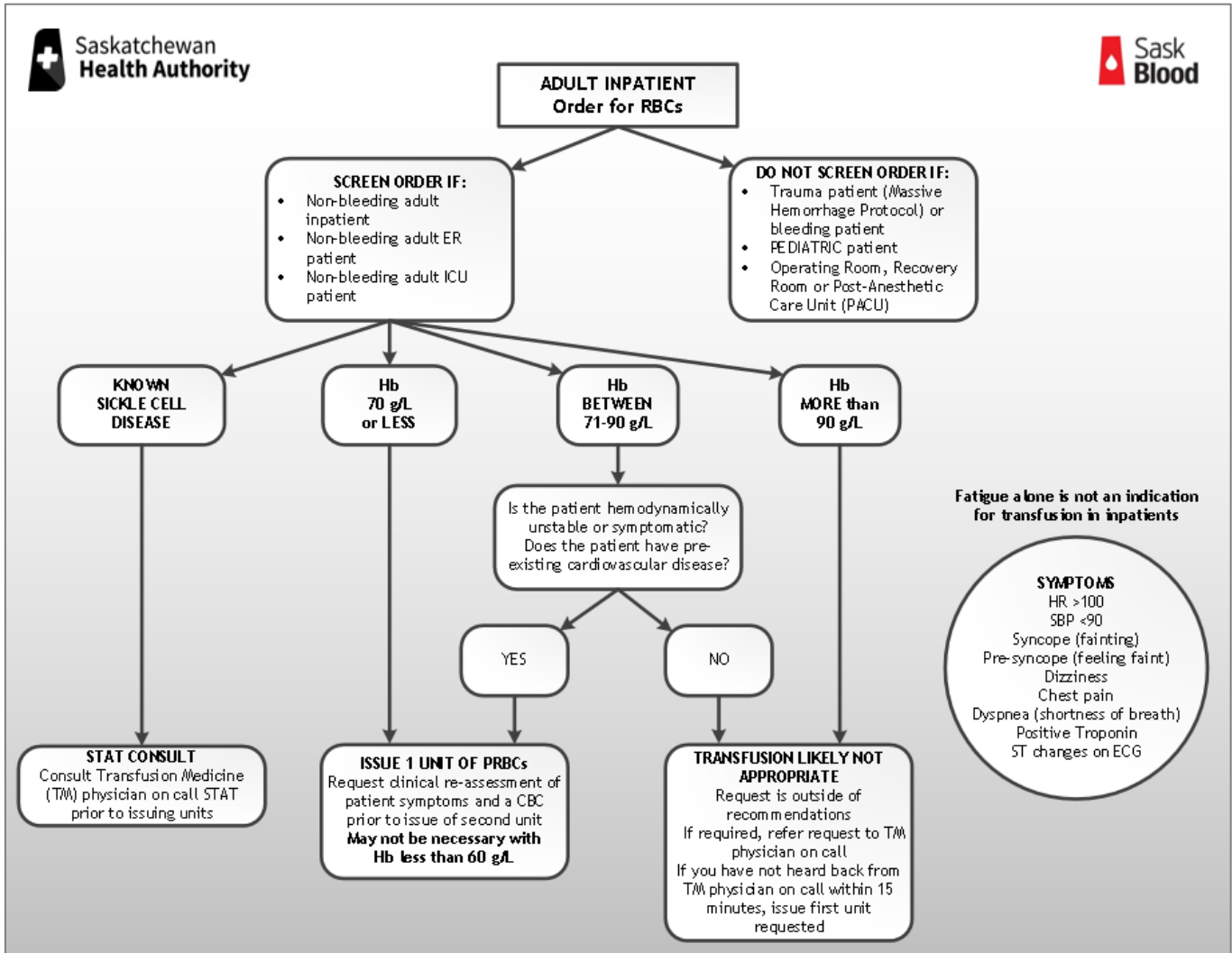
To be Completed by the Transfusion Service/Laboratory		
Phase: <input type="checkbox"/> Green <input type="checkbox"/> Amber <input type="checkbox"/> Red <input type="checkbox"/> Recovery	Blood Group:	# of Units Requested:
Date/Time Units Needed:	Hemoglobin (Hb):	Hb Collection Date/Time:
Has the patient received packed red cells in the previous 24 hrs?: <input type="checkbox"/> Yes <input type="checkbox"/> No	Patient: <input type="checkbox"/> Inpatient <input type="checkbox"/> Outpatient	
Ordering Physician:	Patient Diagnosis:	
Screening Parameters for ADULT Patients		
INPATIENT TRIAGE PARAMETERS – SEE BELOW (and flow chart)		
<ul style="list-style-type: none"> Hemoglobin is 70 g/L OR LESS: Issue one (1) packed red cell unit. Hemoglobin is BETWEEN 71-90 g/L: ASK THE FOLLOWING QUESTIONS: <ol style="list-style-type: none"> Does the patient have life-threatening bleeding? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, issue unit(s) immediately Is the patient hemodynamically unstable or symptomatic? Fatigue alone is not an indication for transfusion in inpatients <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, check symptoms that apply: <input type="checkbox"/> Heart rate >100 (tachycardia) <input type="checkbox"/> Systolic Blood Pressure <90 <input type="checkbox"/> Syncope (fainting) <input type="checkbox"/> Chest pain <input type="checkbox"/> Dizziness <input type="checkbox"/> Dyspnea (shortness of breath) <input type="checkbox"/> Positive Troponin <input type="checkbox"/> ST changes on ECG <input type="checkbox"/> Other/details: _____ Does the patient have pre-existing cardiovascular disease? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, details: _____ If yes to #2 or 3, issue 1 unit PRBC and request clinical re-assessment of patient symptoms and CBC prior to issue of second unit Hemoglobin is GREATER THAN 90 g/L: Transfusion likely not appropriate, consult the Transfusion Medicine (TM) physician on call via RGH Switchboard (306-766-4444). 		
OUTPATIENT TRIAGE PARAMETERS		
<ul style="list-style-type: none"> Hemoglobin is 80 g/L OR LESS: Transfusion of up to 2 packed red cells is likely acceptable. After first unit of packed red cells has been transfused, re-check patient clinical status to ensure the patient is safe to receive the second unit. 		
Triage Documentation Completed by (Printed Name):	Triage Documentation Completed by (Signature):	

****Phone TM physician on call via Switchboard to give details of request and impending call****

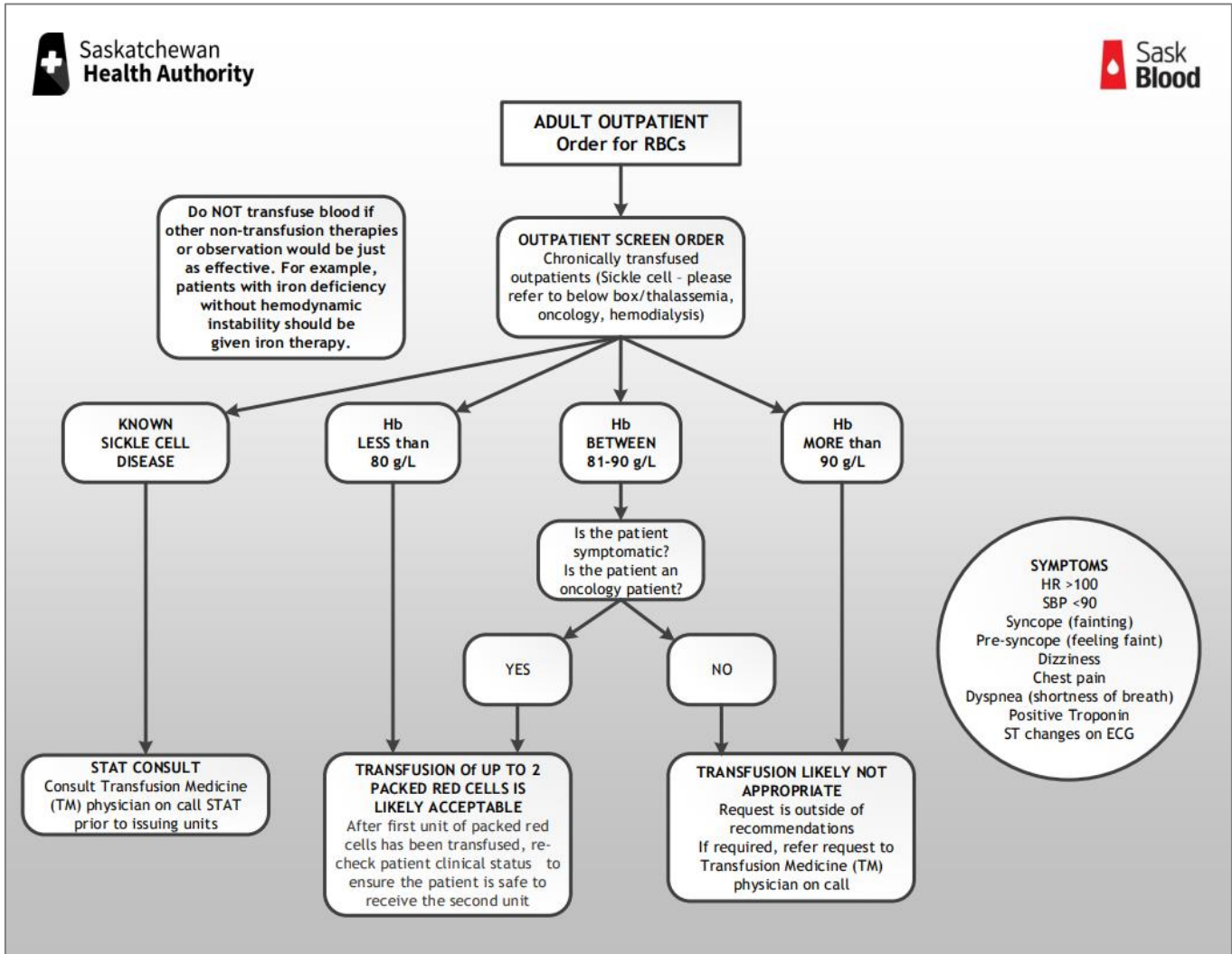
Call Clinical Area: "Because of COVID-19, Canada is current under a green/amber/red phase blood shortage advisory. Saskatchewan Laboratories have been tasked with screening all orders for blood/blood products for alignment with the Saskatchewan Transfusion Best Practice Recommendations. The request for red blood cells is outside of these recommendations. Unless delaying transfusion would be unsafe, please have Dr. (ordering physician) call the TM physician on call via Switchboard (306-766-4444) to discuss this RBC order."

Please fax a copy of this screening form to the Transfusion Services, Laboratory, Regina General Hospital at 306-766-4382.
 Please retain the original with the patient's chart or in local laboratory.

Appendix B



Appendix C



Appendix D



**Saskatchewan
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**PLATELET SCREENING DURING
BLOOD/BLOOD PRODUCT
SHORTAGE**

To be used by Regina, Southwest and Southeast Integrated Service Areas excluding the former rural Saskatoon Health Region

Patient Name: _____
 Phone Number: _____
 HSN/MRN: _____
 Date of Birth (dd/mm/yyyy): _____
 Gender: Male Female Unknown
 Facility/Ward: _____

To be Completed by the Transfusion Service/Laboratory		
Phase: <input type="checkbox"/> Green <input type="checkbox"/> Amber <input type="checkbox"/> Red <input type="checkbox"/> Recovery	Blood Group:	# of Units Requested:
Date/Time Units Needed:	Platelet Count (x 10 ⁹ /L):	CBC Collection Date/Time*:
Has the patient received platelets in the previous 24 hrs?: <input type="checkbox"/> Yes <input type="checkbox"/> No	Patient: <input type="checkbox"/> Inpatient <input type="checkbox"/> Outpatient	
Ordering Physician:	Patient Diagnosis:	
Screening Parameters for ADULT Patients		
If there is an order for a patient with life-threatening bleeding, issue one dose of platelets and contact the Transfusion Medicine (TM) physician on call.		
INPATIENT TRIAGE PARAMETERS		
Requests for transfusion of platelets will be screened by the TM physician on-call in the following situations:		
<ul style="list-style-type: none"> Any order for more than one platelet dose in 24 hours Any order for platelets for a patient with immune thrombocytopenia (ITP) Non-bleeding patients with a count >10 x 10⁹/L Bleeding patients with a count >50 x 10⁹/L 		
OUTPATIENT TRIAGE PARAMETERS		
<ul style="list-style-type: none"> Screen all orders and obtain above data 		
Triage Documentation Completed by (Printed Name):	Triage Documentation Completed by (Signature):	

*A CBC should be collected between 10-60 minutes post-transfusion, if the clinical team plans to infuse a second platelet dose, or if platelet refractoriness is suspected.

Standing orders for platelets should be reviewed by the TM physician on call.

****Phone TM physician on call via Switchboard to give details of request and impending call****

Call Clinical Area: "Because of COVID-19, Canada is current under a green/amber/red phase blood shortage advisory. Saskatchewan Laboratories have been tasked with screening all orders for blood/blood products for alignment with the Saskatchewan Transfusion Best Practice Recommendations. The request for platelets is outside of these recommendations. Unless delaying transfusion would be unsafe, please have Dr. (ordering physician) call the TM physician on call via Switchboard (306-766-4444) to discuss this platelets order."

Please fax a copy of this screening form to the Transfusion Services, Laboratory, Regina General Hospital at 306-766-4382.
 Please retain the original with the patient's chart or in local laboratory.