



# MEMORANDUM

Date: October 25, 2016

To: Chief Nursing Officers/Educators  
Chief Medical Officers

From: Dora Lopes-Carvalho, Transfusion Medicine, Technical Director; DSM

CC: Amin Kabani, CMO, DSM  
Charles Musuka, Transfusion Medicine Medical Director; DSM  
DSM blood banks  
DSM TM Hematopathologists  
Wendy Pepple, Director, Office of Provincial Transplant and  
Transfusion Services, Manitoba Health, Seniors and Active Living  
Debra Lane; RCS Medical Officer, CBS

Subject: **Revision of the Transfusion Reaction Algorithm**

Diagnostic Services Manitoba and Canadian Blood Services in collaboration with Blood Management Service have finalized a Transfusion Reaction Algorithm for the province. The official rollout of the Transfusion Reaction Investigation requisition (CM105) is December 12, 2016.

Education to health care providers will commence after November 2, 2016. There will be a presentation during [Blood Management Day](#) that introduces the revised algorithm, highlights some important changes and outlines the process to distribute material.

Educational resources will be available for health care providers on the Best Blood Manitoba website: [www.bestbloodmanitoba.ca](http://www.bestbloodmanitoba.ca).

A power point presentation that can be used by site educators, examples of the revised requisition and algorithm will be available electronically. Laminated copies of the algorithm will be provided. All sites except WRHA and PMH sites should coordinate and forward requests by site for the quantity of laminated copies required to the DSM Transfusion Medicine office (email contact information below). WRHA and PMH requests have already been received.



Blood Management Service nurse coordinators are offering support to educators and will host three information sessions available by telehealth:

November 15 at 13:00-14:00 Psych Health Theatre Rm236/238 (HSC)  
November 23 at 13:30-14:30 at CCM Lecture Theatre ON2134 (HSC)  
December 1 at 13:00-14:00 in Room N1026 at St Boniface Hospital

Highlights of the scope of changes to the algorithm include:

- Clearer listing of the signs and symptoms of a transfusion reaction and that the symptoms are "new" vs. pre-existing
- Instructions to contact the Transfusion Medicine Hematopathologist on call if replacement blood products are required urgently.
- Febrile symptoms of a transfusion reaction were redefined
- Instructions for transient mild reactions to IVIG were included
- When product must be returned to the blood bank for investigation, the blood set shall be removed and the port clamped
- Major and Minor symptoms are defined
- Formatting of the algorithm has changed to facilitate user friendliness and actions

Highlights of the revisions to the CM105 requisition consist of:

- Addition of fields to indicate –immune compromised patient, pre-transfusion hemoglobin, oxygen saturation, blood culture sent
- Wording changes for signs and symptoms to reflect new algorithm
- Space for 2 health care professionals to sign after the clerical check
- The requisition will be a 2 part form. The Blood Bank will photocopy to keep a copy for their records if required and return the Chart Copy to the ward.

The current version of the Transfusion Reaction Algorithm (see Manitoba Transfusion Medicine Best Practice Resource Manual for Nursing October 2006) and Guide for completing the Transfusion Reaction Investigation Form (CM105) will be obsoleted on Dec 12, 2016 with this initiative.

Please forward questions or concerns to me by email ( [dlopescarvalho@dsmanitoba.ca](mailto:dlopescarvalho@dsmanitoba.ca) ) or phone at 204-237-2707.