

Stem Cell Registry Transplant Centre **Reference Manual**

Section 5 - Requesting Donors for **Extended HLA Typing (eHLA),** **Verification Typing (VT), Reservations,** **IDMs and Miscellaneous Sample**

Revision 1

Legacy Doc Number 60 020

Internal

Revision History

Version	Detail
1 Amdt. 1	CR#18155 High Complexity: Implementation of the cobas 8000 System for TD Serological Testing. Updated the terminology for the HIV testing to be performed. Included reference to the COVID 19 questionnaire on blood.ca.
0	Migration from CDI 2.0 to CDI 3.0
1	StCR-22-000469, Stem Cells Revisions to Registry and Cord Blood Collections documents to comply with updated CSA standards and COVID Screening updates.

OVERVIEW

Canadian transplant centres may request the following at any one time:

Request	Maximum
Extended HLA (eHLA)	20 Canadian Blood Services Stem Cell Registry Donors 20 International Donors
Verification Typing (VT) (also known as Confirmatory Typing)	3 Canadian Blood Services Stem Cell Registry Donors 3 International Donors
Infectious Disease Markers (IDM) only	6 Canadian Blood Services Stem Cell Registry Donors 6 International Donors
Miscellaneous Samples	No maximum Canadian Blood Services Stem Cell Registry Donors No maximum International Donors
Reservations	No maximum Canadian Blood Services Stem Cell Registry Donors No maximum International Donors

These limits may be exceeded on a case-by-case basis in consultation with a Canadian Blood Services Stem Cell Registry (stem cell registry) Search Analyst.

Donors requested for eHLA or IDM only requests will be released once results have been provided to the transplant centre.

INFECTIOUS DISEASE TESTING

Canadian Blood Services laboratories performing Infectious Disease Markers (IDMs) are licensed by Health Canada and use assay test kits approved in Canada for donor screening. Some international registries do not routinely perform IDMs on their donors at the time of verification typing. Therefore, the transplant centre may choose to perform their own IDMs on international donors or initiate a separate IDM request at the time verification typing is requested.

VERIFICATION TYPING

The purpose of verification typing is to ensure that the donor being selected for donation is the same individual whose HLA typing was listed on the search report. Verification typing must be performed at a minimum of HLA-A, B, C, DRB1 DNA based typing at high resolution prior to a hematopoietic stem cell donation.

DONOR RESERVATIONS

Canadian Blood Services Stem Cell Registry donors will be automatically reserved for a patient at verification typing for 60 days after their blood samples have been drawn and 30 days from the date the shipment details are sent for miscellaneous sample requests. Canadian Blood Services Stem Cell Registry donors may be held for an additional three months from the date of the extended reservation request. While most international registries will extend reservations for an additional three months, some may have varying policies.

Extensions to this time period will be considered on a case by case basis if accompanied by a rationale indicating the proposed date of transplant and the patient's medical status.

Reservation requests can be made when a donor requires reservation and the verification typing request has expired. The donor is then reserved for 90 days from the date of the reservation request.

Individual reservation activation may be requested under the following circumstances; otherwise another request type must be made.

- Donor previously completed verification typing and/or donated for the requested patient. Transplant centre must provide copies of the verification typing results.
- Donor previously completed more than 2 verification typings for any patient and the last verification typing was completed within the past 2 years.

MISCELLANEOUS SAMPLES

Samples for miscellaneous and non-routine tests may be requested on a case by case basis.

PROCESS

5.1. Requesting Donor(s) for Activation	5.1.1. Add international donor to Search Results if it does not exist, as per CO-00289 <i>Section 16: Canadian Transplant Centres.</i>				
	5.1.2. Request donor for desired activation type.				
	<table border="1"> <thead> <tr> <th data-bbox="483 548 706 604">If...</th> <th data-bbox="711 548 1464 604">Then...</th> </tr> </thead> <tbody> <tr> <td data-bbox="483 611 706 892"> Extended HLA (eHLA), </td> <td data-bbox="711 611 1464 892"> <ul style="list-style-type: none"> • Activate donor for eHLA • Select all typing to be completed. <p><i>Note¹: Only the services offered by the registry will be available.</i></p> <p><i>Note²: When selected typing requested has previously been performed, the request will automatically complete and existing typing results will be provided.</i></p> </td> </tr> </tbody> </table>	If...	Then...	Extended HLA (eHLA),	<ul style="list-style-type: none"> • Activate donor for eHLA • Select all typing to be completed. <p><i>Note¹: Only the services offered by the registry will be available.</i></p> <p><i>Note²: When selected typing requested has previously been performed, the request will automatically complete and existing typing results will be provided.</i></p>
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IDM only,	<ul style="list-style-type: none"> • Activate donor for 'IDM Only' request • Select desired IDM testing to be completed.
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PROCESS

5.1. Requesting Donor(s) for Activation (continued)	5.1.2. (continued)	
	If...	Then...
	Miscellaneous Samples,	<ul style="list-style-type: none"> • Activate donor for Miscellaneous Sample • Review sample requirements and update as required <p><i>Note: The Canadian Blood Services Stem Cell Registry has a maximum request of 50mls for donors.</i></p> <ul style="list-style-type: none"> • Enter note describing the intended testing to be performed on the samples.
Reservations	<ul style="list-style-type: none"> • Activate <i>Canadian Blood Services Stem Cell Registry</i> donor for Reservation. • Send task requesting international donor reservation as per CO-00289 <i>Section 16: Canadian Transplant Centres.</i> 	
<p><i>Note¹: If unable to access Stem Cells National Systems Solutions (SCNSS), circle the Global Registration Identifier for Donors (GRID) on the Match Results report and indicate the desired activation type to be completed and send the report to the stem cell registry.</i></p>		
<p><i>Note²: Refer to Section 6 for further information on requesting Work-Up of a Canadian or international donor.</i></p>		

PROCESS

5.2. Receive Activation Information and Completed Test Results	5.2.1. Receive test results and information in response to activation request:	
	If...	Then...
	eHLA,	<ul style="list-style-type: none"> Receive eHLA results.
	Verification Typing,	<ul style="list-style-type: none"> Receive shipment details of scheduled samples to be drawn Notify stem cell registry if samples are not received 2 days after expected delivery Receive IDM results, if provided by international registry Receive information on donor parity and history of sensitizing events, if applicable Receive additional donor eligibility information obtained during the donor health screening, if applicable. Inform stem cell registry at least two business days before scheduled sample draw in order to cancel verification typing. <p><i>Note:</i> Stem Cell Registry Medical Conditions Chart (MCC) and Health Screening Questionnaire (HSQ) can be located on https://blood.ca/en/hospital-services/stem-cell-registry-documents</p>
	IDM only,	<ul style="list-style-type: none"> Receive IDM results.
	Miscellaneous Samples,	<ul style="list-style-type: none"> Receive shipment details of scheduled samples to be drawn Notify stem cell registry if samples are not received 2 days after expected delivery.
Reservations,	<ul style="list-style-type: none"> Receive confirmation or denial of the reservation request. 	
<p><i>Note:</i> If unable to access Stem Cells National Systems Solution (SCNSS), contact cbs.stemcellregistry@blood.ca to send applicable test results and information.</p>		
5.2.2. Inform the stem cell registry immediately if transplant centre to store samples received without performing testing.		

PROCESS

<p>5.3. Send Completed Test Results</p>	<p>5.3.1. Report results to stem cell registry immediately or within 60 days of sample collection.</p> <p>5.3.2. Proceed as indicated in table below.</p>												
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<p>Note¹: If unable to access Stem Cells National Systems Solution (SCNSS), complete World Marrow Donor Association “Donor HLA Verification Typing Results” form, or international registry equivalent if applicable. Indicate typing results will not be provided if donor is released prior to completion of the typing.</p>													

ASSOCIATED DOCUMENTS:

CO-00289, *Stem Cells National Systems Solutions User Manual: Section 16 Canadian Transplant Centres*

CO-00239, *Stem Cell Registry Transplant Centre Reference Manual, Section 14 – Postponements & Cancellations*