

Blood Regulations self-assessment tool for registered hospital blood banks

Introduction

Health Canada is pleased to provide you with the “*Blood Regulations* self-assessment tool for registered hospital blood banks” to enable you to assess your establishment’s compliance with the [*Blood Regulations*](#) (the *Regulations*). This tool was specifically developed for hospital blood banks that are required to be registered with Health Canada.



As a registered blood bank, it is strongly recommended that you complete this self-assessment to identify deficiencies that you need to address to become compliant with the *Regulations*. This tool is intended for your own use and not to be submitted to Health Canada. It is not intended to take the place of a Health Canada inspection, nor is it intended to take the place of your internal audit process.

Please note that this tool does not supersede the requirements of the *Regulations* or the *Food and Drugs Act*. In the event of any inconsistency or conflict between the *Regulations* and this tool, the *Regulations* take precedence.

When to use this form

The self-assessment tool can be used prior to an inspection by Health Canada or at any time when an establishment wants to evaluate their compliance with the *Blood Regulations*. It can also be used as a training tool for staff so that they may become familiar with the *Regulations*.

How to complete this form

The questions posed for each of the regulatory sections are typical of what an Inspector would be asking or looking for during an inspection to determine compliance with the *Regulations*. An answer of “No” to any of the questions indicates a practice, procedure, or lack thereof, which may require corrective action on your part to be compliant with the *Regulations*.

This document also makes recommendations taken from the Guidance Document intended to promote compliance with the *Blood Regulations*. These will be found throughout this tool clearly identified as recommendations.

Part 1 of this document addresses those provisions of the *Regulations* applicable to all registered blood banks.

Part 2 of this document addresses additional provisions of the *Regulations* that apply to blood banks that are registered to process autologous blood.

Each section of this document should be read in conjunction with the relevant sections of the [Blood Regulations](#), the [Guidance Document: Blood Regulations](#), as well as sections of the National Standard of Canada [CAN/CSA Z902: Blood and Blood Components](#) (CSA Blood Standard) incorporated in the *Regulations* by reference.

When completing the questions on error and accident investigation and reporting (S. 103-109 of the *Regulations*), it is strongly recommended that you also read the document titled “Investigating and Reporting Errors & Accidents under the *Blood Regulations* – Frequently Asked Questions”, dated June 2022, that was sent to all hospital blood banks via email on June 29, 2022. If you have not received a copy of this document or have any questions about this self-assessment tool or the *Regulations*, please contact the Biological Product Compliance Program at bpcp-pcpb@hc-sc.gc.ca.

NOTE: In this document, “blood” includes whole blood, red blood cells, plasma, platelets, and cryoprecipitate (cryo) for transfusion.

Part 1: Regulations applicable to registered blood bank

NOTE: Unless otherwise stated, each section of the *Regulations* shown in this part apply to both allogeneic and autologous blood.

BLOOD REGULATIONS SECTION	QUESTIONS	RESPONSE
PROHIBITIONS		
4	<p>Is the blood that you distribute or transfuse processed by a licensed establishment in Canada : either Canadian Blood Services or Héma-Québec?</p> <p>If you distribute or transfuse transformed blood (washed, pooled [except pooled cryoprecipitate], or irradiated) received from another establishment, do you verify it was transformed by an establishment registered with Health Canada?</p> <p>If you distribute or transfuse autologous blood, do you ensure it was collected and processed by an establishment registered with Health Canada: either Canadian Blood Services, Héma-Québec or a registered hospital blood bank?</p>	<p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p>
LABELLING		
60, 61	<p>Is the information you add to the labels of blood you transform, aliquot or otherwise modify/manipulate:</p> <ul style="list-style-type: none"> • in English or French? • accurate, presented clearly and legibly? <p>Are the labels made with adhesives and indelible inks that will not permeate the container (e.g., blood bag, syringe)?</p> <p>Are the labels permanently affixed to the container?</p> <p>If tags are used, are they firmly attached to the container?</p> <p>Do you have a written procedure that includes how to label transformed and other modified/manipulated blood? (<i>S. 95</i>)</p>	<p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p>
65	<p>If your establishment divides blood into aliquots for transfusion, do you ensure that the following appears on the label of each aliquot:</p> <ul style="list-style-type: none"> • donation code? • name of the blood component? • a code that identifies the aliquot? • when appropriate, the ABO group and Rh factor? • the expiry date? <p>If you aliquot blood using an open system:</p> <ul style="list-style-type: none"> • Is the expiry date changed according to the storage criteria specified in Table 2 of the CSA Blood Standard? • Are aseptic techniques being used? 	<p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p>

	Do you have a written procedure for aliquoting that defines the appropriate expiration dates for aliquots? (S.95)	<input type="checkbox"/> Y <input type="checkbox"/> N
68	Do you verify that the information that you add to labels is accurate and complete?	<input type="checkbox"/> Y <input type="checkbox"/> N
	Do you have a written procedure for labelling that incorporates all the requirements mentioned above? (S. 95)	<input type="checkbox"/> Y <input type="checkbox"/> N
STORAGE		
69(2)	Do you store blood in accordance with the directions on its label and with any directions that are specified in writing by the establishment that collected it (e.g. in the circular of information or customer letters)?	<input type="checkbox"/> Y <input type="checkbox"/> N
	Do you have a written procedure that describes the action to be taken when you receive blood that does not appear to have been shipped under appropriate conditions (e.g. temperature) or shows evidence of tampering or damage?	<input type="checkbox"/> Y <input type="checkbox"/> N
70	<p>Note: In this section “storage locations” refers to any/all locations in the hospital where blood is stored (e.g. Operating Room (OR), Emergency Room (ER), patient wards, etc.)</p> <p>Do your storage locations have appropriate environmental controls to store blood in accordance with the temperature conditions on the labels of the blood?</p> <p>Are storage locations monitored to ensure those temperature conditions are always maintained?</p> <p>Note: Temperature monitoring probes or devices should be located at points that represent extreme temperature areas, as determined by a temperature mapping study to assess temperature distribution. When conducting temperature mapping studies, consideration should be given to using empty and full loads, as applicable.</p> <p>Do you maintain documentation (temperature/humidity monitoring records, as applicable) to demonstrate that blood was always maintained under appropriate environmental conditions?</p> <p>When blood is returned to the lab:</p> <ul style="list-style-type: none"> Do you segregate the returned units until these units are deemed suitable for transfusion? Do you have a process in place to assess if it is safe to place the blood back into inventory (based on the time it has been out of storage or evidence it continued to be stored at appropriate temperatures)? <p>In the case of blood units removed and returned to satellite refrigerators, is there a process in place to ensure the blood is returned to the storage device within an appropriate timeframe based on the CSA Blood Standard?</p> <p>In the event there are temperature excursions beyond acceptable limits:</p> <ul style="list-style-type: none"> are these events documented? 	<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N

	<ul style="list-style-type: none"> • is there a documented procedure describing when, and what action is to be taken? • are these events investigated when, or if, there is a potential impact on the safety of blood? (<i>see also S. 103-108</i>) <p>In the event stored blood must be relocated (e.g. fridge malfunction, scheduled maintenance of fridges, etc.) do you have designated alternate storage equipment where you can move the blood inventory?</p> <ul style="list-style-type: none"> • Are the environmental controls for this equipment also kept at the appropriate temperature range(s) for the types of blood components that may be relocated there? • Have they undergone regular preventive maintenance? • Is the location of the alternate storage equipment documented, or referenced, in a procedure that also describes when blood inventory is to be relocated? <p>Is the access to blood storage location(s) restricted to designated personnel (e.g., authorized card access, lock and key, etc.)? This also applies to locations outside of the transfusion medicine lab (such as the ER, OR, on a ward, etc.), as well as those locations where alternate storage equipment is located.</p> <p>Recommendations:</p> <ul style="list-style-type: none"> • Parameters such as lighting, humidity and ventilation should be appropriate and controlled to safely store blood and blood components. • If the storage area has an alarm system with audible signals, alarm activation temperatures should be set at temperatures that allow sufficient time for appropriate corrective actions before blood reaches unacceptable temperatures. • Alarm warnings should signal in a location that is continually monitored or staffed and/or alarm notifications should go to designated personnel during and outside of business hours. 	<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N
71, 72	<p>Is blood intended for autologous, designated or directed use segregated from blood intended for other allogeneic use, either by physical segregation (e.g. a labelled shelf or container in fridge) and/or an electronic segregation system?</p> <p>Is blood that is untested, has incomplete testing, or has tested positive for transmissible disease agents or markers, segregated from blood that has been determined safe for distribution or for autologous transfusion?</p> <p>Do you have a written procedure that identifies when and how blood is to be segregated? (<i>S. 95</i>)</p> <p>If electronic segregation is used, has the system’s performance been validated for this purpose?</p>	<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N
DISTRIBUTION		
74	Before you distribute blood for transfusion, do you examine each blood container (e.g., blood bag, syringe) to verify:	

	<ul style="list-style-type: none"> • information on the label is legible (including the labels of shipping containers, when applicable)? • the integrity of the container is intact? • there are no signs of deterioration or contamination of the blood? • that blood components that are to be distributed frozen show no signs of thawing? <p>Do you ensure blood is not distributed if:</p> <ul style="list-style-type: none"> • the donation code is missing or illegible? • any other information required by the <i>Regulations</i> to appear on the label is missing or illegible (unless the missing or illegible information can be retrieved from the establishment's records)? • the container is defective or damaged to the extent that it does not protect the blood from external conditions? • there are signs of deterioration or contamination of the blood? <p>Are all the above steps described in a written procedure? (S. 95)</p> <p>Are all employees conducting this verification adequately trained and aware of the required criteria above? (S.98)</p> <p>Do your records allow for the rapid identification of units and their location and/or final disposition in the event of a recall? [S. 94(1)(f)]</p>	<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N
75	<p>If you ship blood to another establishment, or between different sites of the same establishment, are:</p> <ul style="list-style-type: none"> • shipping containers and blood containers (e.g. blood bags, syringes) examined before shipping to verify their integrity and the legibility of the labels? • shipping containers (e.g. coolers, Styrofoam containers) capable of resisting damage and maintaining the safety of the blood? • shipping containers maintaining the safety of the blood to ensure no tampering occurred (e.g. by use of tamper-evident seals or closures applied to shipping containers) when blood is transported by someone other than an employee of the blood bank? <p>Are the following described in a written procedure:</p> <ul style="list-style-type: none"> • the packing of blood, including the packing configuration and the use of ice packs etc. (if applicable)? • the examination of the blood containers and their labels prior to packing? • the addition of tamper evident seals (if applicable)? (S. 95) 	<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N

76	<p>When shipping blood for transfusion do you ensure that it is being transported in accordance with the criteria specified in Table 2 of the CSA Blood Standard?</p> <p>Have shipping containers been validated for their intended use?</p> <p>Is validation conducted in accordance with a written validation protocol? (<i>S. 95</i>)</p> <p>Have you taken the following into account as part of validation:</p> <ul style="list-style-type: none"> • packaging configurations used for the different blood component types, including the number of units packaged in each container? • worst case scenarios involving time (distance travelled) and temperature conditions (weather, type of conveyance used)? <p>If you are not performing validation, do you have some other means of ensuring the criteria specified under Table 2 of the CSA Blood Standard are maintained during transport (e.g. data logger)?</p>	<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N
<p>TRANSFORMATION <i>Note: Sections 77-80 do not apply to autologous blood. Transformation means washing, pooling and irradiation.</i></p>		
77	<p>Does your establishment transform blood in accordance with written procedures that are considered safe and effective, and that include instructions for:</p> <ul style="list-style-type: none"> • performing transformation in an environment suitable for its purpose (i.e. that prevents blood from becoming contaminated)? • the use of aseptic technique to prevent contamination of ports? • cleaning, disinfection and maintenance of biological safety cabinets or laminar flow hoods that are used when transforming blood, including regular certification/preventive maintenance in accordance with the manufacturer's instructions? • examining components to be transformed to ensure they have no leaks or other irregularities prior to transformation? 	<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N
<p>Washing <i>Note: Plasma reduction and saline exchange are not considered washing under the Blood Regulations. However, these processes are regulated activities and must be conducted safely in accordance with written procedures.</i></p>		
78	<p>Do you wash blood in accordance with sections 7.5.2.3 and 7.5.3 of the CSA Blood Standard?</p> <p>Do you store washed blood in accordance with Table 2 of the CSA Blood Standard?</p> <p>If you wash blood using a closed system, do you store the red cells according to a defined validated period?</p> <p>If washed blood is transferred to a new blood bag is the information from the original label added to the new blood bag, including the donation code, the name of the washed component and any new expiry date and time?</p> <p>If you wash red blood cells that have been frozen with a cryoprotectant, do you ensure they are washed and suspended in a Health Canada approved additive solution?</p>	<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N

	<p>Is the washing process validated and documented?</p> <p>Are all washing procedures, and associated labelling steps, carried out in accordance with written procedures? (S. 95)</p> <p>Are records of washing kept in accordance with S. 121 of the <i>Regulations</i>?</p> <p>Recommendation: Blood banks should follow the quality control specifications in Table 3 of the CSA Blood Standard.</p>	<p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p>
Pooling (including pooling of cryoprecipitate)		
<i>Note: Pooling includes mixing.</i>		
79	<p>If your blood bank pools blood, is it done in accordance with sections 7.11.1 and 7.11.3 of the CSA Blood Standard?</p> <p>Do you ensure that all the information specified in sections 10.8.2 and 10.8.3 of the CSA Blood Standard appears on the label of the pooled components?</p> <p>Is the pooling method, the steps taken to prevent contamination, storage requirements, labelling and label verification, included in a written procedure? (S. 95)</p> <p>Are records of pooling kept in accordance with S. 121 of the <i>Regulations</i>?</p>	<p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p>
Irradiation		
80	<p>If your blood bank irradiates blood, is it done in accordance with sections 7.12.2 to 7.12.6 of the CSA Blood Standard?</p> <p>If you use radiotherapy equipment to irradiate blood, has it been validated for this purpose?</p> <p>Do you monitor and document irradiation dosage measurements?</p> <p>Is your irradiation equipment maintained as required by S. 100 of the <i>Regulations</i>?</p> <p>Do you have a written procedure that describes how irradiation is performed, including the storage and labelling of irradiated components? (S.95)</p> <p>Before you release a new lot of blood irradiator indicators for use, do you verify they are working as intended? (S. 102)</p> <p>Do you store blood irradiator indicators as indicated by the manufacturer?</p> <p>Are records of irradiation kept in accordance with S. 121 of the <i>Regulations</i>?</p>	<p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p>

EXCEPTIONAL DISTRIBUTION		
81	<p><i>An establishment may distribute or transfuse allogeneic blood for transfusion for which the ABO group, Rh factor and transmissible disease or disease agents are not yet available if both of the following conditions are met:</i></p> <ul style="list-style-type: none"> • <i>blood that has been deemed safe for distribution is not immediately available; and</i> • <i>the recipient's physician has requested the use of the blood for the emergency treatment of their patient.</i> <p>Do you have a written procedure in place to handle the release and distribution of blood that you have, or may receive, under exceptional distribution (e.g. granulocytes)?</p> <p>If you release and distribute blood under exceptional distribution, is it only done for a single patient, on a case-by-case basis, and only where the above-mentioned conditions are met?</p> <p>Note: You are required to have a procedure in place even if you have not received blood under exceptional distribution. If you do not accept blood under exceptional distribution as a matter of policy, this must be documented.</p>	<p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p>
82(3), (4)	<p>If blood received under exceptional distribution is transfused at your establishment, is a copy of the notice of exceptional distribution placed on the recipient's file?</p> <p>If the blood is sent to another establishment for transfusion, do you ensure a copy of the notice of exceptional distribution is sent to that establishment?</p>	<p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p>
84(2)	<p>If the blood was sent to another establishment for transfusion, do you send a copy of the test results to that establishment?</p>	<p><input type="checkbox"/> Y <input type="checkbox"/> N</p>
85	<p>If the blood received under exceptional distribution is not transfused into the intended recipient in the emergency, do you have a procedure in place to ensure it is either:</p> <ul style="list-style-type: none"> • not transfused into another recipient and is safely and appropriately disposed of? or, • placed into quarantine (and labelled as such) until full test results are available and the blood is deemed safe to put into general inventory for allogeneic use? 	<p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p>
QUALITY MANAGEMENT SYSTEM		
Organizational structure		

93	<p>Do you have an effective quality management system that:</p> <ul style="list-style-type: none"> • is defined, documented, implemented, and maintained? • includes a document (eg. organizational chart) kept up-to-date that defines the structure of the organization and the personnel responsible for conducting activities that fall under the <i>Regulations</i>? • documents titles and areas of responsibility of all key personnel for all regulated activities? • includes elements that enable the prevention, detection and correction of deficiencies that may compromise the safety of blood? • has a named individual who has responsibility for the system? <p>Do you have a process for reviewing all elements of the quality management system (listed in S. 94) at regular intervals to ensure its continued suitability and effectiveness?</p> <p>Are any deficiencies or areas identified during the review addressed and corrected in a timely manner?</p>	<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N
Requirements		
94	Does your establishment's quality management system (QMS) include all the following elements?	<input type="checkbox"/> Y <input type="checkbox"/> N
Quality assurance unit		
94(1)(a)	<p>Do you have a quality assurance unit that:</p> <ul style="list-style-type: none"> • consists of one or more qualified individuals designated by the individual responsible for the QMS? • has documentation that sets out staffs' quality related responsibilities (e.g. job descriptions)? • is independent of any other functional unit? [S.94(2)] <p>Do you ensure that any individual that conducts the internal audit does not have direct responsibility for the activities being audited, and is this documented in policy or procedure? [S. 94(3)]</p>	<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N
Quality control program		
94(1)(b)	<p>Do you have written procedure(s) for conducting quality testing of washed blood (if applicable), that include the following:</p> <ul style="list-style-type: none"> • a description of the tests performed and the acceptable limits for each test? • the number of samples to test? • the action to be taken when samples' results deviate from acceptable limits? <p>Blood banks should follow the quality control specifications in Table 3 of the CSA Blood Standard.</p>	<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N
Change control system		
94(1)(c)	<p>Do you have a change control system that:</p> <ul style="list-style-type: none"> • includes a documented set of procedures that allows for the identification, evaluation, documentation, review and approval of all changes to processes, supplies, equipment and facilities that may impact the safety of blood? • is capable of identifying those changes that necessitate revalidation/requalification of processes, procedures, equipment or supplies? 	<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N

Process control program		
94(1)(d)	Do you have written procedures for all activities that fall under the <i>Regulations</i> to ensure they are performed consistently and as intended?	<input type="checkbox"/> Y <input type="checkbox"/> N
System for process improvement		
94(1)(e)	<p>Do you have a system for process improvement that includes written procedures for:</p> <ul style="list-style-type: none"> handling the receipt of complaints regarding nonconformities, including their review, investigation, and documentation? the implementation of corrective and preventive actions, as required, including the review of impacted processes and procedures with a view to process improvement? monitoring and evaluation of the effectiveness of the preventive action implemented? <p>Note: Some examples of when corrective and preventive actions must be implemented include but are not limited to the following:</p> <ul style="list-style-type: none"> after the receipt of a complaint or post-donation information; during lookback or traceback investigations; to correct deficiencies identified after an internal audit; to correct deficiencies identified during an inspection by Health Canada; during the investigation of an error or accident or an adverse reaction; and quality control results not meeting pre-established criteria. 	<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N
System for the identification and investigation of errors, accidents, and adverse reactions, including the implementation of corrective actions and the conduct of recalls		
94(1)(f)	<p>Do you have a system for the identification and investigation of errors, accidents, and adverse reactions, including the implementation of corrective actions and the conduct of recalls, which includes:</p> <ul style="list-style-type: none"> procedures for the identification, evaluation, investigation and documentation of errors, accidents, and adverse reactions, including when they should be reported to Health Canada and the decision-making process to determine whether or not an investigation is warranted? (<i>see also S. 103 to 116</i>) a process/procedure whereby units of blood implicated in a recall can be rapidly identified and their location determined? procedures to carry out if involved in a lookback/traceback investigation? procedures for implementing corrective and preventive actions, including how implicated blood is identified, quarantined, and disposed of? clear delineation of responsibilities for identifying implicated blood, initiating recalls, communication to other establishments that received blood etc., so that steps are carried out without delay? 	<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N
Program for the training and competency evaluation of personnel		

94(1)(g)	<p>Do you have a program for the training and competency evaluation of personnel including:</p> <ul style="list-style-type: none"> • initial and on-going training appropriate to their job responsibilities as they relate to regulated activities? • a formal competency evaluation program? • documented operating procedures for carrying out training that also sets out the frequency of training and competency evaluation, and how it is documented? <p><i>(see also S. 98)</i></p>	<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N
Proficiency testing program		
94(1)(h)	<p>In the case of blood banks that collect autologous blood, do you have a proficiency testing program for transmissible disease testing required under the <i>Regulations</i>?</p> <p>Note: If another lab is performing testing on your behalf, you must ensure they have a proficiency testing program.</p>	<input type="checkbox"/> Y <input type="checkbox"/> N
Document control and records management system		
94(1)(i)	<p>Do you have a document control system that:</p> <ul style="list-style-type: none"> • defines, documents, and maintains operating procedures to control all quality documents and information relevant to the regulated activities you conduct? • ensures staff only have access to current versions of documents? • ensures previous versions and obsolete quality documents are removed and archived in accordance with S. 121, 122 and 120 (if your blood bank collects autologous blood) of the <i>Regulations</i>? Refer to <i>Appendices A – C</i>. <p>Do you have a records management system that allows records to be consistently maintained in a manner to preserve their completeness and integrity over time? <i>(refer to sections 117 to 123)</i></p>	<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N
Internal audit system		
94(1)(j)	<p>Do you have an internal audit system that:</p> <ul style="list-style-type: none"> • includes the audit of all regulated activities under the <i>Regulations</i>? • is conducted at regular intervals according to an audit plan (e.g. every 2 years)? • assesses whether procedures are being followed and that activities conducted consistently lead to the expected results and comply with the <i>Regulations</i>? • is performed according to written procedures by trained personnel who do not have direct responsibility for the activities they are auditing, or a qualified external auditor (such as personnel from another department or another establishment)? • In the case of third parties that are contracted to perform regulated activities on your behalf, includes a process to periodically verify they are carrying out those activities according to the <i>Regulations</i>? • includes reporting of all deficiencies or nonconformities and the implementation of corrective and preventive actions? • includes review of audit reports, including findings, corrective and preventive actions, etc., by the individual responsible for the QMS? • includes the monitoring of the preventive actions implemented? • includes retention of records of all audits, findings, and follow-up actions, including evaluations of contracted audits, in accordance with Section 121 of the <i>Regulations</i>? 	<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N

Emergency contingency plans		
94(1)(k)	<p>Do you have emergency contingency plans (in the event processes are interrupted), including:</p> <ul style="list-style-type: none"> • manual processes for issuing blood? • an ability to trace blood if required? • pre-determined alternate storage arrangements for blood to ensure its safety? 	<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N
System that uniquely identifies all critical equipment and supplies		
94(1)(l)	<p>Do you have a system to identify and track critical equipment and critical supplies that also includes the assignment of unique identifiers to critical equipment?</p> <p>Note: "critical", in respect of equipment, supplies and services, means that the equipment, supply or service could, if it does not meet its specifications, compromise human safety or the safety of blood.</p> <p><i>Examples of critical equipment include, but are not limited to:</i></p> <ul style="list-style-type: none"> • cell washers • centrifuges • blood storage equipment • continuous monitoring devices • sealers • thawers • sterile welders <p><i>Examples of critical supplies include:</i></p> <ul style="list-style-type: none"> • blood irradiator indicator labels • blood bags, tubing, transfer sets • filters • blood bag labels • saline for washing blood • sterile welding wafers <p>Note: Further examples can be found in Section 1 of the Blood Guidance Document. Section 1 also includes examples of non-critical equipment and equipment and supplies.</p>	<input type="checkbox"/> Y <input type="checkbox"/> N
Written specifications for all critical equipment, supplies and services		
94(1)(m)	<p>Do you have the following:</p> <ul style="list-style-type: none"> • written specifications for all critical equipment, supplies and services, and associated processes and procedures? • defined processes to ensure that in the event of changes to regulatory requirements or technology, critical equipment, supplies, and services continue to meet requirements? • a system to ensure prompt remedial action when specifications are not met (e.g. timely reporting of product defects to suppliers)? <p><i>Examples of critical services include:</i></p> <ul style="list-style-type: none"> • calibration and maintenance of critical equipment • laboratory testing • quality control 	<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N

	<ul style="list-style-type: none"> • <i>quality management</i> • <i>testing services</i> • <i>training on critical equipment by a vendor</i> 	
Program for the preventive maintenance of critical equipment		
94(1)(n)	<p>Do you have a program for the preventive maintenance of critical equipment to ensure critical equipment consistently functions within their performance specifications, including:</p> <ul style="list-style-type: none"> • a pre-determined schedule of services conducted by qualified personnel to verify that the performance and calibration of the equipment continues to meet its specifications in the manufacturer’s manual? • written procedures that include the method to be used, frequency of calibration and action to take when specifications are not met? • retention of all records and reports of maintenance services, including test results, to demonstrate the equipment is qualified and calibrated, in accordance with S. 120 (if applicable) and 121 of the <i>Regulations</i>? <p><i>(see also S. 100 and 101)</i></p>	<p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p>
Program for process validation		
94(1)(o)	<p>Do you have a program for process validation that includes:</p> <ul style="list-style-type: none"> • documented processes and procedures to demonstrate that a specific process (e.g. transformation, other blood modification processes, storage during transport, etc.) can achieve planned results and pre-determined specifications with a high degree of assurance? • validation plans describing testing methods, equipment and supplies to be used, the validation procedures, acceptance criteria and documentation requirements? • a process for assessing the need for revalidation when changes are made to processes, including the types of changes that might require revalidation, and the extent of revalidation required? <p>Note: In the absence of validation, other documented evidence may be acceptable to demonstrate that specific processes are capable of consistently achieving planned results. See S. 97.</p>	<p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p>
OPERATING PROCEDURES		
95	<p>Do you have written procedures for all regulated activities under the <i>Blood Regulations</i> you conduct?</p> <p>This includes, but may not be limited to: <i>(These are example titles only)</i></p> <ul style="list-style-type: none"> • management of quality documents* • quality control of critical supplies and services • computer system, including management, back-up and authorization of the computer system • document control • record keeping and retention time • equipment calibration and maintenance • management and communication of lab results • error and accident investigation and reporting 	<p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p>

	<ul style="list-style-type: none"> • adverse reaction investigation and reporting • labelling • label controls and verification • storage • maximum storage periods • packaging according to a package scheme • distribution • exceptional distribution • quarantine and release • recall procedure, including action to take when receiving Notices of Component Recalls/Withdrawals • environmental monitoring • training • any other regulated activities, including transformation and other blood manipulation activities, such as preparing blood aliquots, etc.? <p>* management of quality documents includes a set of procedures that set out the steps for the creation, revision, review, approval, release, implementation and archiving of documents that are part of the QMS, including policies, procedures, forms, job-aids, etc.</p>	<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N
96	<p>Are your operating procedures:</p> <ul style="list-style-type: none"> • in a standardized format? • approved by a senior executive officer? • readily accessible, electronically or in hard copy, at all locations where the relevant activities are being conducted? • regularly reviewed at a pre-determined frequency to ensure they are kept up to date (e.g. every 2 years)? • also reviewed, as necessary, outside of the established review frequency when there are regulatory or CSA amendments, changes in processes and changes made because of errors/accidents, or deficiencies identified during internal audits? <p>Are hard copies of current procedures necessary to operate during an emergency (i.e. downtime procedures) available to applicable staff?</p>	<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N
97	<p>Do you have documented evidence that the activities, methods, and operating procedures used in the transformation of blood will consistently lead to expected results, as determined or supported by, one or more of the following:</p> <ul style="list-style-type: none"> • your own validation? • verifying the process outcome each time the process is conducted? • use of methods established in standards developed by recognized professional organizations (e.g. AABB)? • current information available in scientific literature? <p>(See also S. 94(1)(o))</p>	<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N
PERSONNEL, FACILITIES, EQUIPMENT & SUPPLIES		
Personnel		
98	Are staff qualified by education, training, or experience to perform their respective tasks as they relate to blood safety?	<input type="checkbox"/> Y <input type="checkbox"/> N

	<p>Do you have sufficient personnel to conduct all blood safety related activities, based on for instance, the volume or number of activities conducted?</p> <p>Do you have a training program that includes:</p> <ul style="list-style-type: none"> • a procedure(s) for both initial and on-going training of staff? • identification of the required training for each staff member, including which activities they are responsible for conducting, and their associated processes, procedures, and other related quality documents? • a process for both initial and on-going competency assessment of staff, which sets out: <ul style="list-style-type: none"> ○ which activities require competency assessment? ○ the frequency of assessment? ○ how competency will be assessed? ○ who will conduct the assessment? ○ how the results of the assessments are recorded and assessed? and, ○ what steps are taken in the event a staff member fails his/her assessment? <p>Note: The evaluation of personnel competency may involve use of one or more of the following methods, and will be dependent on the type of activity/procedure being assessed as well as the judgement of establishment management as to how it is best assessed:</p> <ul style="list-style-type: none"> ○ direct observation ○ monitoring records that an employee created ○ written tests, including testing of an employee’s knowledge of operating procedures and theory ○ assessment of performance through proficiency testing where an employee conducts routine testing ○ other means of assessment as determined by the establishment <ul style="list-style-type: none"> • training records that include the following: <ul style="list-style-type: none"> ○ when training occurs? ○ what mode of training is being conducted? ○ what procedures and other quality documents were the subject of a training session, including their revision or version number, and their implementation date? ○ which staff were trained during training sessions and who conducted the training? ○ staff competency assessment results, or where there is no assessment or staff are only required to read a new or revised procedure, documentation of their initials or signature acknowledging they have read and understood the procedure/revisions? • a procedure that ensures all staff responsible for an activity, are trained on/have read and understood (as applicable) a new or revised procedure prior to its implementation date or prior to them conducting the activity? 	<p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p>
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	<ul style="list-style-type: none"> where the training does not take place prior to the implementation date, a process to ensure the employee does not conduct the activity prior to the completion of the required training and a rationale for the delay? <p>Does your training program include a process that requires retraining, or an assessment of re-training needs, for staff returning after an extended leave of absence (e.g. maternity leave, illness, etc.)?</p> <p>Is your training program and all associated processes and procedures, including those for competency assessment, documented?</p> <p>Recommendation: All personnel conducting regulated activities should be aware of the requirements in the <i>Blood Regulations</i> and the Blood Guidance Document, as applicable to their job responsibilities.</p>	<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N
Facilities		
99	<p>Is the space used for regulated blood activities of sufficient size and organized, such that:</p> <ul style="list-style-type: none"> staff can properly conduct their tasks? different activities are not crowded in a way that errors or accidents could occur, or that could result in unsanitary conditions? the space can be easily cleaned to maintain sanitary conditions? <p>Regarding the space where activities are conducted, is it controlled at all times so that only authorized persons have access? This includes access to locations where blood storage devices are used to store blood in satellite locations in the hospital (e.g. OR, Intensive Care Unit, etc.).</p> <p>When other hospital staff (e.g. biomedical engineering, housekeeping, etc.), third party vendors or other visitors are required to be in spaces where regulated activities are conducted, is their access controlled and also removed once their work is done?</p> <p>Is there a process to ensure that the staff access to databases and/or restricted areas is removed as required?</p> <p>Are environmental controls in place, and are they monitored, where necessary (e.g. where activities that are affected by temperature and/or humidity are conducted, or where supplies are kept that have specific temperature requirements)?</p>	<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N
Equipment		
100	<p>Have you identified all your critical equipment, including instruments and measuring devices that are critical to ensuring the blood conforms to the <i>Blood Regulations</i> (e.g. scales to weigh blood, thermometers, temperature probes, etc.)?</p> <p>Does your establishment perform validation/qualification of critical equipment upon installation or before first use?</p> <p>Is revalidation/requalification conducted as appropriate (e.g. after significant repairs or changes to the equipment)?</p>	<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N

	<p>Is critical equipment calibrated and maintained according to the manufacturers' instructions?</p> <ul style="list-style-type: none"> Are manuals for critical equipment consulted to verify the preventive maintenance frequency and tasks are consistent with the manufacturer's instructions? <p>Are the instruments used to calibrate and test equipment also calibrated and maintained according to manufacturers' instructions?</p> <p>Do you have a preventive maintenance schedule for all your critical equipment, even where the maintenance is conducted by a third party, either internal or external?</p> <p>Do you receive and review the results of all validation, calibration, and preventive maintenance records for your critical equipment to ensure they continue to operate in accordance with their specifications?</p> <p>Is the computer system used in the conduct of regulated activities validated?</p> <p>Are controls in place to limit access to the computer system data to ensure unauthorized changes or deletions are not made to software or data?</p> <p>Is there a way to track changes made to the electronic data (i.e. audit trails must be enabled and reviewed)?</p> <p>Recommendation: There should be processes and operating procedures to support the maintenance and security of computer systems and their data.</p>	<p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p>
Storage equipment		
101	<p>Does the equipment* you use to store blood, including blood stored in satellite locations such as the OR, allow compliance with the storage requirements of sections 69-72 of the <i>Regulations</i>? For example:</p> <ul style="list-style-type: none"> Is storage equipment validated/qualified prior to use? Is revalidation/requalification performed as appropriate (e.g. after significant repairs or changes)? Are temperature monitoring devices (e.g. temperature probes and thermometers) qualified, calibrated, and maintained according to manufacturers' instructions? Are continuous monitoring measures in place for temperature as well as agitation (platelet incubators)? If temperature monitoring is not continuous, are temperatures manually recorded at regular intervals? <p>*This includes transport containers in which blood could be stored temporarily.</p> <p>Do you have written procedures for the maintenance and calibration of storage equipment, including temperature monitoring devices, that includes:</p> <ul style="list-style-type: none"> the frequency of maintenance and calibration, including alarm checks? 	<p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p>

	<ul style="list-style-type: none"> actions to be taken if maintenance and/or calibration exceeds its due date? tolerances for test specifications? actions to take when test specifications exceed tolerances? alarm set points within critical limits? <p>(See also S. 69-72)</p>	<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N
Supplies		
102	<p>Have you identified the supplies that you use for transformation and other blood manipulation procedures that are considered critical?</p> <p>Have you qualified your critical supplies, to ensure they are suitable for their intended purpose? [S. 94.1(m)]</p> <p>Does your establishment conduct a documented quality check of each incoming shipment of critical supplies to verify they:</p> <ul style="list-style-type: none"> are without damage? are shipped under the correct environmental conditions? are not expired? are consistent with what was ordered and for which qualification was performed? have passed manufacturer's test specifications (e.g. by reviewing Certificates of Analysis)? <p>Are records of the lot numbers of critical supplies used for each transformation and blood manipulation activities recorded and retained?</p> <p>Are critical supplies stored under the storage conditions stated on their label?</p> <p>Do you have a written procedure(s) to monitor and strictly follow expiry dates and that describes all the above? (S.95)</p>	<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N
ERROR & ACCIDENT INVESTIGATION & REPORTING <i>If upon review of sections 103-108, incidents are identified that meet the criteria of a reportable error or accident, they should be reported to Health Canada.</i>		
103 -108	<p>Do relevant staff understand the requirements for error and accident (E/A) investigation, and when they need to be reported to Health Canada?</p> <p>Have staff read the document titled <i>Investigating and Reporting Errors & Accidents under the Blood Regulations – Frequently Asked Questions</i> that was provided to blood banks in June 2022? Health Canada recommends this document become part of staff training.</p> <p>Does your establishment have written procedures that include the requirements set out in sections 103-108? (S.95)</p> <p>Do you maintain records of all E/A investigations, including:</p> <ul style="list-style-type: none"> description of the E/A and the reason the safety may be compromised? 	<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N

	<ul style="list-style-type: none"> • donation codes, and types of blood components implicated? • details of the investigation, including root cause of the E/A? • copies of notices to other establishments, or notices received from other establishments, if applicable? • copy of preliminary, follow-up and final reports to Health Canada, if applicable? • records of disposition of units, if applicable? • records of corrective and preventive actions taken? 	<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N
Error or accident of another establishment		
103	<p>Do you have a procedure to ensure that the following actions immediately take place when you have reasonable grounds to believe the safety of blood may have been compromised during an activity conducted by another establishment:</p> <ul style="list-style-type: none"> • determination of the donation codes of all blood that could be implicated? • identification and quarantine all the implicated blood still in your possession? • notification of the establishment that collected the implicated blood? • notification of the establishment you received the blood from, if different from the establishment that collected it? • notification of all establishments to whom you distributed implicated blood? <p>When sending a notification to an establishment, does the notice include:</p> <ul style="list-style-type: none"> • the donation codes of the implicated blood? • a statement of whether the implicated blood is whole blood or blood components, and the name of the implicated blood components? • the reason you believe the safety of the blood may have been compromised? <p>If you are notified by another establishment to whom you sent blood that they suspect the safety of the blood you sent them has been compromised by an activity conducted by your establishment, do you immediately notify every other establishment to whom you sent implicated blood, and instruct them to quarantine all the implicated blood in their possession?</p> <p>If you notify establishments verbally, do you confirm it in writing as soon as possible afterwards?</p>	<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N
Establishment's own error or accident		
104	<p>When you know or suspect an E/A has occurred during an activity carried out by your own establishment, do you have a written procedure to ensure the following actions are immediately carried out:</p> <ul style="list-style-type: none"> • determination of the donation codes of all blood that could be implicated? • identification and quarantine of all implicated blood still in your possession? • determination as to whether there is sufficient evidence to warrant an investigation of the E/A? • if an investigation is warranted, the notification of every establishment to which you distributed implicated blood? <p>When sending a notification to an establishment, does the notice include:</p> <ul style="list-style-type: none"> • the donation codes of the implicated blood? • a description of the suspected E/A? 	<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N

	<ul style="list-style-type: none"> an explanation of how the safety of the implicated blood may have been compromised? <p>Does the documented investigation include:</p> <ul style="list-style-type: none"> a root cause analysis? consideration of the potential impact of the E/A on the safety of the blood and the recipient? development of appropriate corrective actions? <p>If an establishment to whom you sent blood sends you a notice indicating they have reasonable grounds to believe an E/A occurred during an activity carried out by another establishment (maybe you), do you immediately carry out the same actions listed above?</p> <p>If you receive a notice of a suspected E/A from an establishment to whom you sent blood, and you decide an investigation is not warranted, do you immediately notify that establishment that you will not be conducting an investigation, and your reasons for that decision?</p>	<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N
Requirement to cooperate		
105	<p>Are staff aware that they must cooperate and provide information requested by other establishments in support of E/A investigations those establishments may be conducting?</p> <p>Is this documented in a procedure?</p>	<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N
Investigation results		
106	<p>Following the investigation of an E/A, do you issue a written notice of the results of the investigation to all establishments to whom you distributed implicated blood, including any actions to be taken?</p> <p>Does your establishment have a system in place to verify implicated blood is not distributed or transfused if the result of an E/A investigation confirms the safety of the blood is compromised, or if the results of the investigation are inconclusive? [S. 4(7)(b)]</p> <p>If your establishment is notified of the results of an investigation of an E/A pertaining to implicated blood you have further distributed, do you send a copy of the notice to each of those establishments?</p>	<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N
Reports to the Minister		

107	<p>Do you have a process in place to ensure your establishment reports all errors and accidents to the Biological Product Compliance Program (BPCP) of Health Canada when all the following criteria are met:</p> <ul style="list-style-type: none"> • the E/A is known or suspected to have occurred during a regulated activity your establishment conducted; and • the E/A was identified after the blood was distributed or transfused; and • there is a reasonable probability the E/A could have led to a serious adverse reaction? <p>Do your reports sent to the BPCP include the following information, and are sent within the stated timeframes:</p> <ul style="list-style-type: none"> • a preliminary report, including all relevant information available at the time, within 24 hours of the start of your investigation? • a written update on the progress of the investigation, including any new information and steps taken to mitigate further risks: <ul style="list-style-type: none"> ○ within 15 days after the start of the investigation? and ○ at any time after the preliminary report at the request of the BPCP? • a final report at the conclusion of the investigation that includes: <ul style="list-style-type: none"> ○ the results of the investigation, including the root cause of the E/A? ○ the final disposition of the blood that was the subject of the investigation and the reason for the disposition? and ○ the corrective and preventive actions taken, including any changes made to processes and/or procedures to prevent recurrence of the E/A? <p>If a serious or unexpected adverse reaction is suspected to be caused by an E/A, do you ensure that the adverse reaction is also reported to the Minister (i.e. the Canada Vigilance Program at the Marketed Health Products Directorate (MHPD) of Health Canada) in accordance with section 113 of the <i>Regulations</i>?</p>	<p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p>
Annual report		
108	<p>Do you prepare an annual report that summarizes all the error and accident investigations you conducted in the previous 12 months, identified before and after distribution or transfusion, including those that you have reported to the BPCP?</p> <p>Does the report include a concise, critical analysis of the investigations, including:</p> <ul style="list-style-type: none"> • ensuring errors and accidents that were required to be reported to the BPCP were, and that reporting was done in accordance with the <i>Regulations</i>? • Identifying recurring issues and trends that may require additional corrective and preventive actions? <p>Is the preparation of this annual report described in a written procedure?</p> <p>Note: It is not required to send this annual report to the BPCP unless requested.</p>	<p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p>
<p>ADVERSE RECIPIENT REACTION INVESTIGATION & REPORTING <i>Note: These Regulations apply only if your preliminary investigation of an adverse reaction leads you to suspect the reaction may be the result of the blood's safety being compromised during a regulated activity you</i></p>		

<i>conducted (not a practice of medicine error) or a regulated activity conducted by the supplier or establishment you received the blood from.</i>		
110-116	<p>Have relevant staff read and understood the requirements of adverse reaction investigation, and when adverse reactions are required to be reported to Health Canada?</p> <p>Do you have a procedure(s) for conducting investigations and reporting of unexpected and serious adverse reactions that includes the requirements set out in S. 110-116 of the <i>Regulations</i>? (S. 95)</p> <p>Do you maintain records of all investigations of serious and unexpected adverse reactions, including:</p> <ul style="list-style-type: none"> • description of the reaction that occurred? • donation codes and types of blood component involved? • details of the investigation, including root cause? • copies of notices to other establishments, or notices received from other establishments, if applicable? • copy of preliminary, follow-up and final adverse reaction reports to Health Canada, when applicable? • records of corrective and preventive actions taken? • copies of, or reference numbers, for any error or accident reports associated with adverse reactions? 	<p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p>
Required action		
110	<p>When your establishment has reasonable grounds to believe a recipient of blood has experienced an unexpected or serious adverse reaction, do you do all the following:</p> <ul style="list-style-type: none"> • determine the donation codes of all implicated blood? • identify and quarantine any implicated blood in your possession? • perform a preliminary inquiry into the root cause of the adverse reaction? <p>If your preliminary inquiry suggests the root cause of the adverse reaction is attributable to a regulated activity you carried out, do you:</p> <ul style="list-style-type: none"> • conduct an investigation into the adverse reaction? and, • notify any establishment you distributed implicated blood to? <p>If your preliminary inquiry suggests the root cause of the adverse reaction is attributable to an activity carried out by another establishment, do you immediately notify all the following:</p> <ul style="list-style-type: none"> • the establishment that collected the blood? • the establishment you received the blood from, if different from the establishment that collected it? • any establishment to which you distributed implicated blood? <p>When notifying establishments, does your notice include:</p> <ul style="list-style-type: none"> • a description of the adverse reaction? • an explanation of how the safety of the implicated blood may have been compromised, if known? • the donation codes of all implicated blood? 	<p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p>

	<ul style="list-style-type: none"> • a statement indicating whether the implicated blood is whole blood or blood components, including the names of the implicated blood components? <p>Refer to section 110(2) of the Blood Guidance Document for additional information that should be included in the notice.</p> <p>If your blood bank is notified by another establishment that a serious or unexpected adverse reaction may be attributable to a regulated activity you carried out, do you immediately do the following:</p> <ul style="list-style-type: none"> • quarantine any implicated blood in your possession? • notify every establishment or other person that you distributed implicated blood to? • conduct an investigation into the adverse reaction? <p>If you verbally notify other establishments they have received blood implicated in a serious or unexpected adverse reaction, or that a serious or unexpected adverse reaction may be attributable to an activity they carried out, do you send a written confirmation as soon as possible afterwards?</p>	<p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p>
Requirement to cooperate		
112	<p>Are staff aware that they must cooperate with other establishments that may request information in support of adverse reaction investigations those establishments are conducting?</p> <p>Is this requirement documented in a procedure?</p>	<p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p>
Notice to the Minister		
113	<p>When your establishment conducts an investigation into a serious or unexpected adverse reaction where the root cause is thought to be a result of an activity your establishment carried out, and it is suspected to be associated with the safety of the transfused blood, do you notify the Minister (i.e. the Canada Vigilance Program at the Marketed Health Products Directorate (MHPD) of Health Canada):</p> <ul style="list-style-type: none"> • within 24 hours of becoming aware of the death of a recipient? or, • in the case of any other serious or unexpected adverse reaction, within 15 days after you are made aware of it? <p>If reporting the preliminary notification of a death, do you send a follow-up report to the Canada Vigilance Program without delay containing the additional information?</p> <p>When notification is given to the Canada Vigilance Program verbally, do you send confirmatory written notice as soon as possible afterwards?</p> <p>If a serious or unexpected adverse reaction is suspected to be caused by an error or accident, do you ensure that the error or accident is also reported to the Biological Product Compliance Program of Health Canada in accordance with section 107 of the <i>Regulations</i>?</p>	<p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p>

Results of investigation		
114	<p>When you are conducting an investigation into a serious or unexpected adverse reaction, do you notify, in writing, every establishment you may have distributed implicated blood, of the results of your investigation?</p> <p>Do you inform those establishments of the action to be taken, if any?</p> <p>If your establishment is notified of the results of an investigation by another establishment, do you pass on that notice to establishments that you distributed implicated blood to?</p> <p>Do you retain copies of notices you sent to other establishments?</p>	<p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p>
Final report to the Minister		
115	<p>After completing an investigation of a serious or unexpected adverse reaction, do you send a final report to the Canada Vigilance Program containing the following:</p> <ul style="list-style-type: none"> the results of the investigation, including root cause? the final disposition of the implicated blood and the reasons for the disposition? any corrective actions taken and any recommended changes to relevant processes and procedures as a result of the adverse reaction? 	<p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p>
Annual report		
116	<p>Does your establishment prepare an annual report at the end of each year that summarizes all the final adverse reaction reports that were submitted to the Canada Vigilance Program within the previous 12 months?</p> <p>Does the report include a critical analysis of the investigations that were the subject of those reports?</p> <p>Is the preparation of this annual report described in a written procedure?</p> <p>Recommendation: The annual report should include the following:</p> <ul style="list-style-type: none"> an executive summary a detailed analysis and assessment of any new safety signals an overall summary analysis of the adverse reactions reported in the period that considers blood or blood component use a cumulative analysis of the adverse reactions reported that includes an analysis of trends over time traceback and lookback annual summary statistical reports overall conclusions and opportunities for improvement 	<p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p>
RECORDS		
Record quality		
117	<p>Are all records accurate, complete, legible, indelible, and readily retrievable:</p> <ul style="list-style-type: none"> pens with indelible ink are used for handwritten entries? white-out is not permitted? 	<p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p>

	<ul style="list-style-type: none"> • corrections and entries of information or notations after the original date of the record are clearly crossed out, initialed or signed, and dated to indicate a change has been made to the original entry? • manual transcriptions of test results are independently verified in cases where the transcribed document is the permanent record? • records maintained concurrently with the performance of each step in processing, transformation, manipulation, storage, distribution (including exceptional distribution), investigation of errors/accidents and adverse reactions, so that all steps can be clearly associated with the person that conducted the step, the time/date, and if applicable, the location of the activity? • records associated with the processing, transformation, and manipulation include the lot numbers of the critical supplies used, and the unique identifier of the critical equipment, documented as part of each process? • all records are readily retrievable to enable quick and efficient retrieval of blood traceability information including records of transfusion? • preserved in a manner to ensure their integrity over time? <p>If your establishment keeps electronic records, is the electronic system validated?</p> <p>If original records are scanned and stored electronically to a format other than the original, does your establishment have a written procedure for ensuring the accuracy of the transferred information?</p> <ul style="list-style-type: none"> • Is the accuracy of the transfer verified by someone other than the individual that transferred the information? <p>Where records are stored electronically or digitally, are they easily retrieved?</p> <p>Can a hard copy of the information on electronic or digital media be printed if necessary?</p> <p>Does your establishment use a standardized date format for all records?</p>	<p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p>
Donation code part of all records		
118	<p>Are blood donation codes a component of all records related to the processing, distribution, transformation, and transfusion of blood by your establishment?</p> <p>If a new code is assigned for a pooled unit, is the donation code of all pooled components traceable in the records?</p>	<p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p>
Retention periods – transformation		
121 <i>(does not apply to autologous blood)</i>	<p>Are transformation records, including records for pooling cryo, retained for the periods of time specified in the table to section 121? <i>Refer to Appendix A.</i></p> <p>Are the types of records to be retained, and their associated retention times written in a procedure?</p> <p>Does your procedure specify that the retention period for personnel records begin on the last day on which they were employed by your establishment?</p>	<p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p>

	Does the retention period for all other records begin on the day the record was created?	<input type="checkbox"/> Y <input type="checkbox"/> N
Retention periods – transfusion		
122	Does your establishment maintain the different types of records for the indicated periods of time set out in the table to Section 122? <i>Refer to Appendix B.</i>	<input type="checkbox"/> Y <input type="checkbox"/> N
	Are the types of records to be retained, and their associated retention times, written in a procedure?	<input type="checkbox"/> Y <input type="checkbox"/> N
	Does your procedure specify that the retention period for personnel records begin on the last day on which they were employed by your establishment?	<input type="checkbox"/> Y <input type="checkbox"/> N
	Does the retention period for all other records begin on the day the record was created?	<input type="checkbox"/> Y <input type="checkbox"/> N
Storage of records		
123	Are records: <ul style="list-style-type: none"> • stored under appropriate environmental conditions to ensure their integrity is maintained for the duration of their retention period? • secure against the entry of unauthorized persons? This includes password protection of electronic systems. <p>If third parties are used to copy and/or store records, does your establishment have a signed contract with the party that clearly outlines copy procedures and quality of copies, transport conditions, security conditions, including who has access, retrieval information, storage conditions, and specific requirements for destruction, if applicable?</p>	<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N

Part 2: Additional requirements applicable to blood banks registered to conduct autologous activities

BLOOD REGULATIONS SECTION	QUESTION	RESPONSE
PROCESSING <i>Complete this section if your blood bank collects autologous blood.</i>		
Collection		
46, 47	Do you assign a donor identification code to each donor? Do you assign a unique donation code to each unit of autologous blood at the time of collection? For traceability purposes, is the donation code clearly linked to the donor identification code, so all donations for a given donor, applicable samples and the time and date of collections can be easily determined? Is the donation code a part of all records associated with the donation? (<i>S. 118</i>)	<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N
48	At the time of collection of autologous blood, do you label it in accordance with S. 63 of the <i>Regulations</i> ? Refer to S. 63 below.	<input type="checkbox"/> Y <input type="checkbox"/> N
49	When collecting autologous blood do you: <ul style="list-style-type: none"> • use aseptic methods? • use collection equipment that is licensed by Health Canada under the <i>Medical Devices Regulations</i>? • use containers (e.g. blood bags, syringes) that are licensed under the <i>Medical Devices Regulations</i> and free from defects or damage? and, • record the container lot number in the records and link it to the donation code? Do you ensure containers are only used once?	<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N
50	Do you collect samples of autologous blood for testing at the same time of collection? Is the collection of samples done in a way that avoids contamination of the blood and the samples?	<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N
51	When collecting autologous blood, do you comply with section 12.2.1 of the CSA Blood Standard? When appropriate, do you adjust the volume of the blood and the volume of anti-coagulant based on a donor's weight? Note: When considering the volume of blood to collect from an autologous donor and the volume of anticoagulant needed, you should refer to sections 6.2.4 and 12.1.4 of the CSA Blood Standard.	<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N

Testing		
53	<p>Do you test samples of autologous blood you collect for transmissible diseases and disease agents in accordance with section 12.3.1.2 of the CSA Blood Standard, using the following appropriate and effective tests:</p> <ul style="list-style-type: none"> antibodies to human immunodeficiency virus (HIV) type I and type II (anti-HIV 1 and anti-HIV 2)? hepatitis B surface antigen (HBsAg)? antibodies to hepatitis C virus (anti-HCV)? and, antibodies to human T-lymphotropic virus type 1 and type II (anti-HTLV I and anti-HTLV II)? <p>Notes:</p> <ul style="list-style-type: none"> Nucleic acid testing and syphilis testing of autologous donors is not required. When a registered establishment collects more than one donation from an autologous blood donor over a 42-day period, testing is only required on the first donation for the transmissible disease agents listed. Once a new 42-day period begins, the blood bank must test the donor's first autologous donation for that new period. 	<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N
54	<p>Do you test a sample of autologous blood at the time of donation for the following:</p> <ul style="list-style-type: none"> the ABO group? and, the Rh factor, including weak D testing when appropriate? <p>Do you compare the results of those tests with the last available results for that donor, if any?</p> <p>If a discrepancy is discovered, does your blood bank repeat the testing and quarantine the blood so that it cannot be transfused until the discrepancy is resolved?</p>	<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N
55(a)	<p>When testing autologous blood, do you ensure only test kits licensed under the <i>Medical Devices Regulations</i> are used to test the blood?</p> <p>Do you ensure the test kits are licensed by Health Canada as diagnostic or screening assays?</p> <p>Note: The use of unlicensed test kits, including in-house tests, is prohibited.</p> <p>Do you ensure the test kit manufacturers' instructions are followed, including those for the:</p> <ul style="list-style-type: none"> collection, handling, and storage of specimens? timeframe within which blood samples must be tested, if stated? steps required for testing? and, interpretation of test results? <p>Do the procedures for transmissible disease testing (whether yours or a third-party) conform with the manufacturers' instructions? (S. 95)</p>	<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N
56(2)	Do you inform an autologous donor's physician of any abnormal test results as a result of testing performed for transmissible disease agents described in section 12.3.6.1 of the CSA Blood Standard?	<input type="checkbox"/> Y <input type="checkbox"/> N
Blood component preparation		

58	If you prepare autologous blood components, do you prepare them in accordance with sections 7.1.3, 7.2, 7.3.1, 7.3.2, 7.5.1.1 (without regard to the reference to Table 3), 7.5.1.2 and 7.5.1.5, paragraphs 7.5.2.1(a) to (c) and 7.5.2.2 of the CSA Blood Standard?	<input type="checkbox"/> Y <input type="checkbox"/> N
LABELLING		
63	Do you collect autologous blood into a container (e.g. blood bag) that has a label on it that has been permanently marked with a donation code at the time of collection?	<input type="checkbox"/> Y <input type="checkbox"/> N
	Do you ensure that the label is not missing or illegible before the blood is distributed?	<input type="checkbox"/> Y <input type="checkbox"/> N
64	Do you ensure that the following information appears on the label of the autologous blood you collect: <ul style="list-style-type: none"> • the name of your establishment? • your civic address? • your registration number? • the donation code? • the name of the component, or whole blood, as applicable? • ABO group and Rh factor? • approximate volume of the whole blood collected, except in the case of apheresis? • approximate volume of the container's contents? • the name of any anticoagulant or additive in the container? • recommended storage temperature? • expiry date? • a warning that the blood could transmit infectious agents? • a symbol or words to indicate the blood is a biohazard, if the blood has tested positive for any of the transmissible disease or disease agents listed in section 12.3.1.2 of the CSA Blood Standard? • the statement "For Autologous Use Only"? • if the blood has not been tested for the transmissible diseases (in the case of a collection after a prior collection within a 42-day period), an indication to that effect such as the statement "Untested for HIV, HBV, HCV, HTLV I/II", as appropriate? <p>Do you verify all of the above-mentioned information, as applicable, is on the label and that it is correct, prior to distribution of the blood?</p>	<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Y <input type="checkbox"/> N
STORAGE		
69(1)(b)	If you collect autologous blood, do you adhere to the requirements for storage temperature and expiration criteria as specified in Table 2 of the CSA Blood Standard?	<input type="checkbox"/> Y <input type="checkbox"/> N
DISTRIBUTION		
73(2)	Prior to distributing blood that you have collected for autologous transfusion, do you ensure it has been processed in accordance with these <i>Regulations</i> and is therefore determined safe for transfusion?	<input type="checkbox"/> Y <input type="checkbox"/> N
ADVERSE REACTION INVESTIGATION & REPORTING		
Adverse donor reactions		
109	Do you have a written procedure that incorporates the requirements to notify the Biologic and Radiopharmaceutical Drugs Directorate (BRDD) of Health Canada when you	

	<p>have reasonable grounds to believe that a donor of autologous blood has experienced a serious adverse reaction, either during a donation, or within 72 hours after a donation?</p> <p>Is the notification made within the following timeframes:</p> <ul style="list-style-type: none"> • within 24 hours after learning of the death of a donor? or, • in the case of any other serious adverse reaction, within 15 days after you are made aware of it? <p>Does your procedure require that the following be included in the notice:</p> <ul style="list-style-type: none"> • a description of the adverse reaction? • any actions that were taken to address the reaction? • the outcome? <p>Does your procedure also require a confirmatory written notice be sent to the BRDD as soon as possible if the notice was originally given to the BRDD verbally?</p>	<p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p>
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Adverse recipient reactions

This section applies to blood banks that collect and transfuse the same autologous blood.

111	<p>If you have reasonable grounds to believe that the recipient of autologous blood has experienced an unexpected or serious adverse reaction, do you have written procedures in place to ensure that you:</p> <ul style="list-style-type: none"> • immediately quarantine any other blood you may have from that autologous donor that is in your possession? • investigate the cause of the adverse reaction, including the possibility that it may have been the result of an error or accident? 	<p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p>
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RECORDS

Retention periods – autologous blood

120	<p>Do you retain the different types of records related to autologous blood for the periods of time specified in the table to section 120? <i>Refer to Appendix C.</i></p> <p>Does your procedure specify that the retention period for personnel records begin on the last day on which they were employed by your establishment?</p> <p>Does the retention period for all other records begin on the day the record was created?</p>	<p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p>
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Appendix A – Table to Section 121 of the *Regulations*

Records and Retention Periods – Transformation		
Item	Records	Retention Period
1	Donation code	10 years
2	Records of washing, pooling and irradiation of blood	10 years
3	Lot number and name of manufacturer of critical supplies for each transformation	1 year
4	Complaints and their investigation	5 years
5	Internal audit reports	5 years
6	Quality control testing	5 years
7	Maintenance, validation, qualification and calibration of critical equipment	3 years
8	Critical supplies, including their qualification	3 years
9	Every version of the operating procedures that was implemented	10 years
10	Personnel qualifications, training and competency evaluation	10 years
11	Investigations and reports of errors and accidents	10 years
12	Investigations and reports of adverse reactions	10 years

Appendix B – Table to Section 122 of the *Regulations*

Records and Retention Periods – Transfusion		
Item	Records	Retention Period
1	Donation code – allogeneic blood	50 years
2	Donation code – autologous blood	10 years
3	Shipping documents	1 year
4	Blood storage temperature monitoring	5 years
5	Distribution	50 years
6	Exceptional distribution	50 years
7	Record of transfusion or disposition of allogeneic blood, including identification of recipient	50 years
8	Record of transfusion or disposition of autologous blood	10 years
9	Complaints and their investigation	5 years
10	Every version of the operating procedures that was implemented	10 years
11	Personnel qualifications, training and competency evaluation	10 years
12	Investigations and reports of errors and accidents	10 years
13	Investigations and reports of adverse reactions	10 years

Appendix C – Table to Section 120 of the *Regulations*

Records and Retention Periods – Autologous blood		
Item	Records	Retention Period
1	Donor identification code	10 years
2	Donation code	10 years
3	Collection – donor record	5 years
4	Lot number and name of manufacturer of container and other critical supplies for donation	1 year
5	Test results for transmissible disease testing, ABO group and Rh factor	10 years
6	Blood component preparation	10 years
7	Blood storage temperature monitoring	5 years
8	Destruction or other disposition of blood	10 years
9	Distribution	10 years
10	Shipping documents	1 years
11	Complaints and their investigation	5 years
12	Internal audit reports	5 years
13	Quality control testing	5 years
14	Maintenance, validation, qualification and calibration of critical equipment	3 years
15	Critical supplies, including their qualification	3 years
16	Proficiency testing	5 years
17	Every version of the operating procedures that was implemented	10 years
18	Personnel qualifications, training and competency evaluation	10 years
19	Investigations and reports of errors and accidents	10 years
20	Investigations and reports of adverse reactions	10 years

Appendix D – References

[Food and Drugs Act](#)

<https://laws-lois.justice.gc.ca/eng/acts/f-27/>

[Blood Regulations](#)

<https://laws-lois.justice.gc.ca/eng/regulations/SOR-2013-178/index.html>

[Guidance Document: Blood Regulations](#)

<https://www.canada.ca/en/health-canada/services/drugs-health-products/biologics-radiopharmaceuticals-genetic-therapies/applications-submissions/guidance-documents/blood-regulations/guidance-document-blood-regulations.html>

CSA Group National Standard of Canada: [CAN/CSA-Z902: Blood and Blood Components](#)

<https://www.csagroup.org/store/product/CAN-CSA-Z902%3A20/>

View Access to the CSA Blood Standard is available by registering with the CSA Communities website.

[Pre-inspection package for blood establishments \(FRM-0414\)](#)

<https://www.canada.ca/en/health-canada/services/drugs-health-products/compliance-enforcement/information-health-product/blood-donor/pre-inspection-package-for-blood-establishments-0414-summary.html> (*document available upon request*)

Investigating and Reporting Errors & Accidents under the Blood Regulations – Frequently Asked Questions, June 2022. (*document available upon request*)