5.1.7.1 Final Inspection
The perioperative program shall have a process to ensure that finished perioperative blood components are acceptable before issue or delivery. Standards 5.4.2.1 and 7.2.1 apply.

5.1.8 Handling, Storage, and Transportation
The perioperative program shall have a process to ensure that perioperative blood components are handled, stored, and transported in a manner that prevents damage, limits deterioration, and meets requirements contained in Reference Standards 5.1.8A, Handling, Storage, and Expiration of Perioperative Autologous Red Cell Blood Components, and 5.1.8B, Handling, Storage, and Expiration of Perioperative Autologous Non-Red-Cell Blood Components for Reinfusion. Standard 1.3.1 applies.

5.1.8.1 The perioperative program shall have a process for the collection, handling, labeling, and storage of perioperative blood components known to contain infectious agents.

5.2 Consents, Approvals, and Notifications

The perioperative program medical director shall participate in the development of policies, processes, and procedures regarding recipient consent for collection and use of perioperative blood components.

5.2.1 At a minimum, elements of consent shall include all of the following:

1) A description of the risks, benefits, and treatment alternatives.
2) The opportunity to ask and receive answers to questions.
3) The right to accept or refuse treatment.

5.2.2 The medical director shall participate in the development of policies, processes, and procedures regarding the collection and administration of perioperative blood components, including patient selection and preparation of the patient for surgery.

5.2.3 There shall be an order from a licensed healthcare provider for collection, preparation, and administration/reinfusion of a perioperative blood component. There shall be a process to define the communication and recording of orders.

5.3 Perioperative Collection

The perioperative program shall define collection parameters that include, at a minimum, the following:

1) Clinical applications of the various perioperative methods (including contraindications).
2) Vacuum requirements.
3) Anticoagulant solutions.
4) Circuit configuration.
5) Filtration.
6) Wash volumes, if applicable.
7) Pump speeds, if applicable.
8) Centrifugation speeds, if applicable.
9) Flow rates and system pressures within the circuitry, if ultrafiltration is utilized for recovery of an autologous product off of cardiopulmonary bypass.
10) Minimum blood volume collected for processing.

5.3.1 For blood collection by venipuncture, the site shall be prepared so as to minimize the risk of bacterial contamination of the component.

5.3.2 For blood collection through a central or peripheral line, the line placement site shall be prepared so as to minimize the risk of bacterial contamination of the component.

5.3.2.1 As soon as possible after line placement, blood shall be drawn through a port using aseptic technique.

5.3.3 Ratio of Blood to Anticoagulant-Preservative Solution
The volume of blood to be collected shall be proportional to the amount of anticoagulant-preservative solution in the collection container. There shall be adequate mixing of blood and anticoagulant during collection.

5.4 Conditions of Administration

5.4.1 Patient Identification
Perioperative blood components shall be administered only to the patient who donated them. There shall be positive identification of the patient and the component.

5.4.1.1 There shall be positive identification of the patient by the transfusionist and one other individual (or an electronic identification system) using two independent identifiers, eg, patient name and identification number, whenever the component is separated from the patient or if administration occurs outside of the operating suite or clinical procedure area.

5.4.2 Inspection of Perioperative Blood Components Before Administration
Perioperative blood components shall be inspected immediately before administration.

5.4.2.1 Component inspection criteria shall include evaluation or verification of the following elements: