AUTOLOGOUS BLOOD

I. PRINCIPLE

Autologous blood donation is the process by which donors predeposit their own blood to be used for a planned surgery or other anticipated need.

II. CLINICAL SIGNIFICANCE

Red Cross will fax an Autologous Authorization and Notification Form (UPPK BB 0365.01) to the lab when a patient presents at the Red Cross for their first donation. When the patient's Autologous Authorization and Notification Form is received from the Red Cross, send a copy to surgery along with a green "Autologous" armband. It is the policy of the Heart of Illinois Region Red Cross to transfuse autologous units only to the donor. These units may not be released for homologous use.

III. SPECIMEN

It is the policy of the Heart of Illinois Regional Red Cross that blood can be stored in a liquid state if it will be used within 42 days of collection. If it is collected more than 42 days before the anticipated use, it must be glycerolized and stored as frozen packed cells (up to three years). Frozen packed cells must be thawed and deglycerolized prior to use, and once thawed, the blood has a 24-hour outdate.

IV. PROCEDURE:

   A. Bringing Autologous Units into Sunquest:

      1. Open Blood Product Entry (BPE) and scan all four barcodes on the unit as you would with any other unit.

      2. The "Assignees" tab will be available for selection. Enter the Medical Record Number of the patient to be receiving the unit. (If the MRN of the patient is unknown, you may enter the unit under a patient name, but it will have to be updated once the MRN is known.)

      3. Hit "Add" once the MRN is entered. If there is additional ID information needed, enter it in ID information. The patient ID and name should now be displayed in a list in the Assignees tab.

      4. Once you've assigned the unit and are finished with entering any Ag/Ab/Attributes, hit "Add". It should pop up in the Unit Summary List.

      5. Confirm ABO and Rh type of each unit, record reactions and interpretations in Blood Product Testing (BPT), and attach a pink label with date and your initials on unit

      6. If entered into the system correctly, the unit will be locked to that patient and nobody else can have it allocated to them.
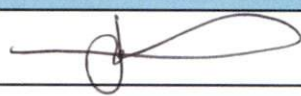
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7. Once you open the correct patient's type and screen in Blood Order Processing (BOP), it will pop up in the Allocation tab. Then you can select it or scan it in like we do for all other products.

B. Testing on patients who have autologous units:

1. Perform a type and screen on the patient. Enter results the same as any other type and screen.

2. Indicate in the "Note" (XMC) line of the order that autologous units are available.

3. Autologous units require an immediate spin crossmatch to be performed. Enter results the same as any other crossmatch.

4. If blood type of unit is different than patient's blood type or antibody screen is positive, notify the pathologist.

5. After all information is entered in computer, hit the "SAVE" button in the bottom right hand corner of the screen and your unit tag(s) will print for you to   attach to the unit(s) with the following information:

   a. Patient's name, date of birth, and MRN, and location
   b. Patient's ABO and Rh type
   c. Patient's Blood Bank armband number
   d. Unit number
   e. Unit ABO and Rh type, and volume
   f. Preparation (packed cells)
   g. Date of testing
   h. Autologous comment
   i. Crossmatch interpretation
   j. Tech employee number that performed the testing

C. After patient testing is completed:

1. Send a copy of the Autologous Authorization and Notification form from ARC to surgery, along with a green "Autologous" armband.

2. Place blood in a sealed Ziploc bag on the second shelf of the blood bank (labeled crossmatched blood) in the back area designated "autologous blood."

3. Place a green card with the patient's name and date of surgery on shelf in blood bank refrigerator, corresponding to blood type of patient.

4. Fill out blood bank record sheet (using green ink) including the following information:

   a. Date.
   b. Patient's name, MRN, floor
   c. Results of all reactions (if testing performed during a computer downtime).
   d. Patient's ABO and Rh type.
   e. Your initials.

5. Blood should be held until the expiration date of the unit. Units not transfused are discarded into approved biohazard bags located in washroom.
6. Note on the general lab message board in the main lab that the patient has autologous blood available.

V. REFERENCES

A. The Transfusion Service Customer Handbook, American Red Cross, ARC Version: 2.3, Doc No: ARC-DOC-009329, 10/30/2018.
B. AABB Technical Manual, 19th Edition, Bethesda, Maryland, 2017.
C. AABB Circular of Information, Bethesda, Maryland, 173011, 10/2017.

POLICY CREATION :		Date
Author:	Sharrol Brisbin, MT (ASCP)	03/01/1996
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REVISION HISTORY (began tracking 2011)			
Rev	Description of Change	Author	Effective Date
11/25/18	Update of Sunquest info	Jenny Turner	11/25/18

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Reviewed by

Lead	Date	Coordinator/ Manager	Date	Medical Director	Date
Jennifer Turner	11-25-18				