

	Delayed Crossmatch OP-306-17	Type:	Tier 2
		Original Effective Date:	February 2011
		Current (Revised) Date:	January 2019
		Contact:	Blood Bank
Approval Signature:		Date Approved:	
Name and Title: Gregory Pomper, MD Medical Director			

1) General Policy Statement

It is the policy of Wake Forest Baptist Medical Center to extend the expiration date of the blood specimen drawn as an outpatient scheduled for surgical procedures/transfusions in the most safe and efficient manner possible and to identify patient antibodies and incompatibilities that can cause delay or cancellation of the surgery/transfusion.

- a) **Scope:** All WFBMC employees, faculty and staff are responsible for complying with this policy
- b) Responsible Department/Party/Parties:
 - i. Policy Owner: Blood Bank Director
 - ii. Procedure: Outpatient Phlebotomy Blood Bank, Nursing Department, Physicians
 - iii. Supervision: Outpatient Phlebotomy
 - iv. Implementation: Outpatient Phlebotomy Manager

2) Definitions: For purposes of this Policy, the following terms and definitions apply:

- a) **WFBMC:** Wake Forest Baptist Medical Center and all affiliated organizations including Wake Forest University Health Sciences (WFUHS), North Carolina Baptist Hospital (NCBH), all on-site subsidiaries as well as those off-site governed by WFBMC policies and procedures.
- b) **Policy:** As defined in the Policy on Creating and Amending Policy, a statement of principle that is developed for the purpose of guiding decisions and activities related to governance, administration, or management of care, treatment, services or other activities of WFBMC. A policy may help to ensure compliance with applicable laws and regulations, promote one or more of the missions of WFBMC, contain guidelines for governance, and set parameters within which faculty, staff, students, visitors and others are expected to operate.
- c) **BBID #** - Blood Bank Identification Number on label
- d) **BBID Band** – Blood Bank Identification Band

e) *Non-operative limb* – attach the Blood Bank Identification Band to the patient securely on a limb that is NOT undergoing any surgical procedure.

f) *Day of need* – Referring to the day transfusion is anticipated (e.g. day of surgery)

3) Delayed Crossmatch Policy Guidelines:

A. Patients who are qualified for Delayed Crossmatch Policy can have their blood specimen drawn on pre-admission with an expiration date up to and including 30 days if they meet the conditions below.

1- Conditions to qualify for delayed Crossmatch:

- Antibody screen negative and no history of clinically significant antibodies
- Direct coombs negative
- No history of blood transfusions within 3 months of surgery
- No pregnancy or termination of pregnancy within 3 months of surgery
- The form, Request for Delayed Crossmatch, is completed and all parties signed the form.
- Blood specimen labeled according to the blood specimen labeling policies at WFBMC.
- On day of surgery, the Request for Delayed Crossmatch is completed for “day of surgery” and submitted to Blood Bank before surgery.
- On day of need (surgery day) the BBID band and labels are securely attached to patient and the BBID band has not changed since the preadmission blood specimen was drawn and labeled.

B. For patients that qualify:

- 1- The patient on day of surgery does not need to have another blood specimen drawn for type and screen.
- 2- When specimen is collected the day before or within 30 days of the date of need, a BBID band will be assigned to the patient.

- a) A patient label should be affixed to the assigned BBID band to identify it as belonging to that patient
- b) A BBID label will also be affixed to the registration ID band.
- c) **The BBID band will be securely stapled to the patient’s folder for storage until the date of need.**

DO NOT GIVE THE BBID BAND TO THE PARENT / GUARDIAN/ PATIENT

C. For patients that are disqualified (pregnant or transfused with blood within 3 months, clinically significant antibodies identified) **must** have a blood specimen collected again on day of need and testing will be repeated.

- 1- The pre admission blood specimen is only in date for 3 days not up to 30 days.
- 2- It is important to proceed to have the patient drawn for Type and Screen even if you know that the patient will be disqualified. By testing the blood specimen, additional antibodies may be detected that are new.
- 3- All patients that have clinically significant antibodies detected will automatically have 2 blood units (or number of units ordered by provider) antigen negative reserved for surgery.
- 4- The Blood Bank will notify the pre-operative area by phone or email (PAC@wakehealth.edu). The old BBID band and Request for Delayed Crossmatch

must be removed from folder because the patient does not qualify to extend the original blood specimen.

- 5- A new blood specimen must be collected with new BBID band and sent to the Blood Bank for testing on DAY OF SURGERY.
 - 6- When specimen is collected on Day of Need, a BBID band will be securely attached to the wrist of the patient on the non-operative limb.
 - A patient label should be affixed to the assigned BBID band to identify it as belonging to that patient
 - A BBID label will also be affixed to the registration ID band.
- D. When an order is placed for delayed crossmatch, the “Request for Delayed Crossmatch” form must be completed before a sample is drawn (Any part incomplete will result in cancellation of Delayed crossmatch.)
1. The form has two sections to be completed
 - i. The first section is completed when the original sample is drawn.
 - ii. The second section is completed on Day of need.
 2. The Blood Bank will receive a copy of the completed form accompanied by the patient’s specimen on Preadmission (PAC), and will then receive another copy of the day of need.
- E. Orders placed pre-operatively for components / units will then be made available on day of need.
- F. When the patient’s surgery is rescheduled, the pre-operative area will be responsible for informing the Blood Bank of the new date to guarantee blood units available for that day. Rescheduled or cancelled procedures on day of need can be easily sent by email to the Blood Bank: [Blood Bank Orders dl@wakehealth.edu](mailto:Blood_Bank_Orders_dl@wakehealth.edu).
- G. All patients’ folders with requests for Delayed Crossmatch will be routed to Surgical Services according to PAC and PREOP procedures to assure the folders will be available when patient arrives on day of surgery.
- H. White extender bands are used to reattach a cut off band because of swelling etc.
- I. Type and Screen or Crossmatch orders for patients having surgery at Davie Medical Center
- 1- Patients are processed for Delayed Crossmatch similarly as a patient at WFBMC for surgery.
 - 2- For patients going to Davie Medical Center for surgery,
Refer to blood bank procedure (R): Delayed XM process for Surgeries at DMC and WFBMC.
- J. Follow specimen collection policy Number OP-306-13

4) Review/Revision/Implementation

- a) **Review Cycle:** This policy shall be reviewed by Blood Bank Leadership annually from the effective date.
- b) **Office of Record:** After authorization, the Legal Department shall house this policy in a policy database and shall be the office of record for this policy.

5) Related Policies

Administration of Blood and Blood Components – Located in Blood Bank specimen collection-policy OP-306-13

6) References

Zhengtong Pei and Arpad Szallasi. Prevention of surgical delays by pre-admission type and screen in patients with scheduled surgical procedures: improved efficiency – Blood Transfusion. 2015 Apr; 13(2):310-312.

7) Governing Law or Regulations

8) Attachments:

BB.FORMS.1120.2: Request for Delayed Crossmatch

9) Revision Date:

7/15, 6/17

Document Change Control									
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Revised Date	By	MD Date	By	MD Date	By	Review Date	By	Effective Date	By
Validate Date	By	Revisions:							
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Validate Date	By	Revisions:							
Locations				Out of Use: Date:		By			
				Reason					

Biennial Reviews: Record date/initials

Date	Initials	Date	Initials	Date	Initials	Date	Initials