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# Beaumont

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## Platelet Studies (Platelet aggregation and Platelet Function Analysis)-RO

Document Type: Guideline

### I. PURPOSE AND OBJECTIVE:

- A. To verify the proper workflow for appropriate delivery of platelet study specimens to the coagulation lab.
- B. Aggregation study is performed by Phlebotomists/ STAT lab personnel/ (Outreach) Courier personnel/ Customer Service personnel/ Coagulation staff.

### II. ACRONYMS:

- A. Laboratory Information System (LIS)
- B. Platelet Function Analysis (PFA)
- C. Platelet Aggregation (PLT AGG)

### III. PROCEDURE:

#### A. Materials:

- 1. PLT AGG/ PFA specimens and related paperwork
- 2. Red specimen bag indicating specimen was "received" by STAT lab personnel

#### B. Expected performance:

- 1. It is expected that following this workflow will verify a smooth process for appropriate delivery of platelet study (PLT AGG and PFA) specimens to the coagulation lab.

#### C. Special Handling:

- 1. Outpatient platelet aggregation studies are performed Monday, Tuesday, Wednesday and Friday.
- 2. Outpatient Lumi aggregations are performed on Thursday.
- 3. All outpatient requests must be handled by the Appointment Center. These specimens are picked up from the Rose Cancer Center by the coagulation staff.
- 4. Inpatient PLT AGG specimens should not be collected before 0700 and must be received before noon Monday through Friday. PFA available Sunday – Saturday, 24 hours a day.

5. It is critical that the centrifuge settings (i.e. speed, time, temp) are visually verified before the centrifugation process begins.

**D. PLT AGG and PFA specimens must NOT be sent through the pneumatic system.**

1. For inpatients, specimens must be delivered to the STAT lab.
2. The STAT Lab will notify Customer Service (248-551-1155) and put in a 1 hour STAT request for pickup from Client 9420 (3<sup>rd</sup> floor STAT lab) with delivery to Client 9317 (RO Clin Path), Coagulation lab.
3. SA-SU: Arrangements must be worked out between STAT lab and coagulation personnel for pick up of (PFA) specimens from STAT lab

**E. STAT Lab Personnel Responsibilities:**

1. Notify Customer Services personnel (248-551-1155) that there is a 1 hour STAT request for pickup from Client 9420 (3<sup>rd</sup> floor STAT lab) with delivery to Client 9317 (RO Clinical Pathology), Coagulation lab.
2. "Receive" orders and add comment indicating what time Customer Service was notified.
3. Place specimens and Platelet Studies (PLT AGG and PFA) Specimens form in red specimen bag for pickup.

**F. Customer Service Responsibilities:**

1. Notify (Outreach) Courier personnel that there is a 1 hour STAT request for pickup from Client 9420 (3<sup>rd</sup> floor STAT lab) with delivery to Client 9317 (RO Clin Path), Coagulation lab.

**G. Outreach Courier Responsibilities:**

1. Within 1 hour of notification, pick up platelet study specimens from Client 9420 (3<sup>rd</sup> floor STAT lab) and deliver to Client 9317 (RO Clin Path), Coagulation lab.
2. Verify Platelet Studies (PLT AGG and PFA) Specimens form stays with specimen.

**H. Coagulation Staff Responsibilities:**

1. Upon receipt of specimens, perform platelet aggregation/ PFA analysis, consulting the script/ requisition. Verify that correct tests are ordered in the LIS.
2. Document in the aggregation software the platelet rich plasma and adjusted citrate platelet counts in the comment section of the platelet aggregation tracings.
3. Enter specimen collection time into platelet aggregation software.
4. Perform PFA tests and attach printouts to platelet aggregation tracings.
5. Enter results in LIS.
6. Submit patient script/ requisition (to pathologist) which states the diagnosis and type of platelet aggregation requested.
7. Verify controls are performed and submitted per protocol.

**I. Quality Control (QC):**

1. A normal control must be run every week to verify the QC of the procedure.
2. When running the normal control, verify the control falls within the established normal ranges. If not, run another control before proceeding with patients. If control still does not fall within the established normal ranges, notify coag management.

3. Verify that all platelet rich plasma counts are 200,000 bill/L + 20,000.

**J. Interpretation:**

1. Platelet aggregation interpretations are performed by the hematopathologist.

## Attachments

No Attachments

## Approval Signatures

Step Description	Approver	Date
CP Chief Medical Director	Peter Millward: Chief, Pathology Service Line	5/13/2021
Coagulation Medical Director Designee	Marc Smith: System Med Dir, Coagulation	5/13/2021
Policy and Forms Steering Committee Approval (if needed)	Gail Juleff: Project Mgr Policy	5/11/2021
Policy and Forms Steering Committee Approval (if needed)	Tamara Sabih: Medical Technologist Lead	5/11/2021
System Manager	Rebecca Bacarella: Mgr Laboratory	5/11/2021
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## Applicability

Royal Oak