Coagulation Rotation

Location: Mayo D242
Duration: One month [advanced CP rotation]
Rotation Directors: Nicole Zantek, MD – phone: 612-626-3768 (pager 899-5418)
Other Faculty: Andrew Johnson, MD (pager 612-899-3832), Shanna Morgan, MD (pager 651-629-4823), Gary Bachowski, MD (pager 651-532-0041)

General Description:
The goal of training during this advanced rotation in coagulation is to expand on the understanding of topics from the introductory rotation during the initial Transfusion Medicine rotation, so that the trainee may gain proficiency in interpreting laboratory test results and appropriate test selection.

Goals and Objectives:
Upon completion of this rotation, the resident will be able to:

- Interpret platelet function studies including PFA-100, platelet aggregation, and platelet secretion studies (PC, MK)
- Interpret von Willebrand disease testing panels (PC, MK)
- Interpret lupus anticoagulant testing panels (PC, MK)
- Demonstrate understanding of causes of abnormal screening coagulation tests (thrombin time, prothrombin time, partial thromboplastin time, and fibrinogen) (PC, MK)
- Interpret results of Bethesda assays (PC, MK)
- Understand the clinical scoring for diagnosing heparin induced thrombocytopenia (HIT) and the role of laboratory testing for HIT (PC, MK)
- Understand causes for discordance between methods for monitoring heparin and other anticoagulants (PC, MK)
- Recognize preanalytical factors which impact hemostasis testing (PC, MK)
- Understand basic principles of laboratory management (PBLI, SBP)
- Demonstrate professional conduct (Prof)
- Create accurate and complete laboratory interpretation reports (CS, PC, MK)

Assigned Reading:
- Practical-Haemostasis.com A practical guide to laboratory hemostasis at [www.practical-haemostasis.com](http://www.practical-haemostasis.com)

Optional Reading:
- Journal articles

Khor B and Van Cott EM. Laboratory tests for protein C deficiency. Am J Hematol 2010;85:440-442


Van Cott EM, Laposata M, and Prins MH. Laboratory evaluation of hypercoagulability with venous or arterial thrombosis. Arch Pathol Lab Med 2002;126:1281-1295

Books:

- Kitchen CS, Alving BM, and Kessler CM. Consultative Hemostasis and Thrombosis. ©2002 W.B. Saunders Co., USA
- Laposata M. Coagulation disorders: Quality in laboratory diagnosis ©2011 Demos Medical Publishing
- Kottke-Marchant K. An algorithmic approach to hemostasis testing. ©2008 College of American Pathologists (CAP)

Call Duties: Resident will take call after office hours for 1 week of the month on the Transfusion Medicine service

During the rotation, the trainee is expected to join the following conferences:

- **Wednesday Coagulation Lectures: 10:15 AM-12:00 NOON (weekly) – Mayo D235**
- **Center for Bleeding and Clotting Disorders meeting: 9:00-10:30 AM (weekly) – Mayo B549**
- **Clinical Pathology Conference: Tues 12:00-1:00 PM (weekly) – Mayo D175**
- **Transfusion Medicine Lecture Series: Tues 1:00-2:00 PM (weekly) – Mayo D242**
- **Pathology Resident Didactic Series: Wed 7:00-8:00 AM & 9:15-10:15 AM (weekly) – Mayo D175**
- **Lab Medicine/Pathology Grand Rounds: Wed 8:00-9:00 AM (weekly) – 450 MCRB**
- **Immunohematology Conference: Wed 3:00-4:00 PM (bi-monthly) – Mayo D235**
- **Transfusion Medicine Breakfast Meeting: Thurs 8:30-10:00 AM (weekly) – 8th floor Hospital**
- **Anatomic Pathology Consensus Conference: 2:00-3:00 PM (daily) – Mayo C456**

During the rotation, the trainee is also expected to attend clinical laboratory related meetings (times and locations vary) to gain a greater understanding of laboratory management.

Other Requirements:

- CP case logs should be emailed to the rotation director throughout the rotation to meet program requirements. Dr. Zantek will review all cases during the rotations and email feedback to residents. Resident is responsible to upload to the case log repository (available through the resident intranet). Cases may represent a variety of formats including
a single patient case; mini review of a topic; presentation at CP conference, Transfusion Medicine Breakfast Meeting, or other venue; and other formats to be approved before submission. At least one log entry is required per week of rotation.

- Observe at least one half day in the Special Coagulation laboratory.

**Assessment methods:**
Resident performance on this rotation will be assessed by:

- Beginning of rotation (pre test) and end of rotation (post test) multiple choice question exam
- Formative feedback provided by attending physician(s)
- Performance evaluation completed by attending physician(s) at the end of the rotation