CLINICAL PATHOLOGY TRAINING PROGRAM
BLOOD BANK ROTATION

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Blood Bank:  Roosevelt- X 23 7240
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Donor Room (Beth Israel):  Judith Jones, RN  X 202826
BLOOD BANK CP ROTATION

COURSE OUTLINE

I. OBJECTIVE:

To understand basic concepts in blood banking, immunohematology, and transfusion medicine.

II. During the rotation the resident will be involved with:

1. Reading assignments and discussions with the medical director and supervisors
2. Technical benchwork (blood-group typing, antibody screening and identification, antibody elution and titering)
3. Evaluation for outpatient transfusions and blood donations
4. Inpatient consults for therapeutic apheresis and red cell exchange transfusion
5. Blood component approvals (platelets, plasma, cryoprecipitate)
6. Quality assurance projects and audits
7. Journal/antibody club presentations

III. After completion of the rotation, the resident should:

1. Understand basic concepts in immunohematology
2. Be able to perform ABO/Rh group and type testing
3. Be able to perform and interpret antibody workups
4. Be able to perform compatibility testing
5. Be able to evaluate and interpret transfusion reaction workups
6. Understand component therapy
COURSE OUTLINE

7. Know risks/complications of transfusion including transmissible disease risks

8. Be familiar with the important blood-group antigens

9. Know deferral criteria for blood donation

10. Know indications for therapeutic apheresis

11. Be familiar with blood bank regulatory and quality issues

12. Be familiar with current issues and concerns in blood banking/transfusion medicine

IV. Competency-Based Goals and Objectives by Education Level

LEVEL 1 = Training Program Level (TPL)-1

Medical Knowledge
The resident will understand the basic concepts of appropriate transfusion component therapy based on recommended guidelines in the literature.

LEVEL 2 = TPL-2-3: First month of blood bank rotation

Patient Care
The resident will be able to:
1. Handle basic telephone consultations regarding transfusion of blood products under indirect supervision
2. Interpret basic transfusion reactions
3. Handle consultation for therapeutic apheresis under direct supervision
4. Interpret basic antibody panels

Medical Knowledge
The resident will gain further knowledge in concepts of blood products and component therapy, immuno-hematology, and transfusion medicine.

Professionalism
The resident will act in a professional manner at all times, arrive to the rotation in a timely manner, attend all required meetings and conferences, and complete all assignments.
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**Interpersonal & Communication Skills**
The resident will communicate to blood bank staff clearly and timely and will respond to pages. The resident will communicate important information as it relates to patient care to the blood bank medical director in a timely manner.

**Practice-Based Learning and Improvement**
The resident will utilize learning resources, such as textbooks and educational websites, appropriately. The resident will demonstrate sufficient reading to learn the material and present during one-one discussions with the blood bank medical director.

**Systems-Based Practice**
The resident will be able to communicate important information regarding transfusion recommendations to clinical residents and attendings. The resident will be able to review patient charts and the laboratory information system for pertinent information regarding transfusions. The resident will engage in quality improvement projects such as the blood administration audit. The resident will attend the Transfusion Committee Meeting as scheduled.

**LEVEL 3 = TPL-2-3: Second month of blood bank rotation**

**Patient Care**
The resident will gain further confidence in handling all level 2 skills plus further develop proficiency in the following:
1. Interpretation of more complex transfusion reactions
2. The handling of therapeutic apheresis consultations
3. Interpretation of more complex antibody problems
4. Ability to perform basic blood bank tests using practice samples: type & screen, crossmatching, antibody panels

**Medical Knowledge**
The resident will gain further knowledge in concepts of blood banking and transfusion medicine, including blood donor collections, regulatory and quality assurance issues, and stem cell collection.

**Professionalism**
The resident will act in a professional manner at all times, arrive to the rotation in a timely manner, attend all required meetings and conferences, and complete all assignments.

**Interpersonal & Communication Skills**
The resident will communicate to blood bank staff clearly and timely and will respond to pages. The resident will communicate important information as it relates to patient care to the blood bank medical director in a timely manner.

**Practice-Based Learning and Improvement**
The resident will utilize learning resources, such as textbooks and educational websites, appropriately. The resident will demonstrate sufficient reading to learn the material and present during one-one discussions with the blood bank medical director. The resident will present a topic of interest relating to blood bank/transfusion medicine to the blood bank staff as part of continuing educational activity.
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Systems-Based Practice
The resident will be able to communicate important information regarding transfusion recommendations to clinical residents and attendings. The resident will be able to review patient charts and the laboratory information system for pertinent information regarding transfusions. The resident will be able to work in a team when handling therapeutic apheresis cases. The resident will engage in quality improvement projects such as the blood administration audit. The resident will attend the Transfusion Committee Meeting as scheduled.

LEVEL 4 = TPL-3-4: Third month of blood bank rotation

Patient Care
The resident will gain further confidence in handling all level 2 and 3 skills plus further develop proficiency in problem-solving patient care issues.

Medical Knowledge
The resident will gain further knowledge in concepts of blood banking and transfusion medicine.

Professionalism
The resident will act in a professional manner at all times, arrive to the rotation in a timely manner, attend all required meetings and conferences, and complete all assignments.

Interpersonal & Communication Skills
The resident will communicate to blood bank staff clearly and timely and will respond to pages. The resident will communicate important information as it relates to patient care to the blood bank medical director in a timely manner.

Practice-Based Learning and Improvement
The resident will utilize learning resources, such as textbooks and educational websites, appropriately. The resident will demonstrate sufficient reading to learn the material and present during one-one discussions with the blood bank medical director.

Systems-Based Practice
The resident will be able to communicate important information regarding transfusion recommendations to clinical residents and attendings. The resident will be able to review patient charts and the laboratory information system for pertinent information regarding transfusions. The resident will be able to work in a team when handling therapeutic apheresis cases. The resident will engage in quality improvement projects such as the blood administration audit. The resident will attend the Transfusion Committee Meeting as scheduled.
V. Available reading material:


2. Standards for Blood Banks and Transfusion Services, current edition, American Association of Blood Banks


5. Various journals and newsletters including: Transfusion, Immuno-hematology, Transfusion Medicine Reviews, Journal of Clinical Apheresis, ABC Newsletter