Intro to Lab Rotation

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1. Rotation Description
    a. The Intro to Lab rotation provides a comprehensive overview to the testing procedures utilized in Clinical Chemistry, Hematology, and Microbiology. Laboratory Management is also reviewed.
2. Goals and Objectives
    a. **Patient Care:**
        - Interpret laboratory test results within the clinical context.
        - Develop a diagnosis or differential diagnosis, based on laboratory results and clinical information.
    b. **Medical Knowledge:**
        - Understand fundamental analytical principles and processes used in clinical laboratory testing.
        - Understand the practical and theoretical basis for laboratory test selection and interpretation.
    c. **Practice-Based Learning and Improvement:**
        - Obtain the ability to find, evaluate and assimilate evidence from scientific studies into the practice of laboratory medicine.
        - Apply statistical and study design principles in evaluation of evidence.
    d. **Interpersonal and Communication Skills:**
        - Become familiar with the faculty and staff in the clinical labs.
        - Begin to understand how to provide effective clinical consultations to other physicians and hospital staff.
        - Demonstrate the ability to work with others as part of a health care team.
    e. **Professionalism:**
        - Demonstrate respect, compassion and integrity.
        - Learn and understanding of ethical and privacy issues affecting the clinical laboratory.
        - Commitment to excellence and ongoing professional development.
    f. **Systems-based Practice:**
        - Understand the role of the laboratory in the health care system, and the importance of reliable, cost-effective and timely laboratory results in clinical decision-making.

- Understanding of CLIA, CAP and JCAHO requirements for clinical laboratories.

3. Duties and Responsibilities (Schedule will be provided before the start of each rotation)
    a. Bench Rotations (9:15-12): Specimen collection, automated chemistry, urinalysis, electrophoresis, bacteriology, mycology, parasitology, AFB, rapid diagnostic tests, POCT
    b. Resident bench questions: Residents are assigned one unique question/bench and will share their answers with their colleagues during afternoon seminars (Questions will be provided prior to rotation)
    c. Resident report: Residents develop a “show and tell” case presentation once/week
    d. Talk on topic developed in conjunction with faculty – discuss possibly ideas at start of rotation
    e. Path review educational sessions with resident on CP Core
    f. End of rotation exit exams: Peripheral smear review, microbiology, hematology/chemistry
4. Didactic Curriculum (2 – 3 hours per day)
    a. Hematology, Microbiology, Chemistry, Coagulation, Toxicology, Metabolic disorders, laboratory management