Location: D235 Mayo  
Duration: One month  
Rotation Director: Anthony Killeen, MD, PhD. – phone: 612-624-5443  
Other Faculty: Claudia Cohn MD, Amy Karger MD, PhD Mahmoud Khalifa, MD, PhD, Klint Kjeldahl, Jo Norton

General Description:  
The format of this rotation is one month of lectures with reading required to be done prior to class. Class Times: Mon, Tue, Thurs, Fri: 8 am to 10 a.m.; Wed after Grand Rounds but TBD (one day only)

Goals and Objectives:  
Upon completion of this rotation, the resident will be able to understand the basics of laboratory management principles including financial management, personnel management, laboratory laws and regulation. There is also an overview of HER technology, AP digital imaging, and the future of pathology informatics.

Objectives: At the end of the course, residents are expected to have a basic understanding of the following topics covered in lectures.

Introduction to Management Principles  
Scope of Pathology Informatics (PI)  
PIER & PI Materials

Competencies & Interfaces with Involved Pathologist  
Competencies in Pathology & Clinical Informatics

Introduction to Computer Hardware, Software  
Ethics for Pathology and Laboratory Medicine

Financial Management of the Pathology Practice  
Networking & Internet

Personnel Management  
Computer Databases

Equipment, Supplies and Space  
EHR & HIT Ecosystem

Quality Management in Laboratory Medicine  
Evaluating AP Computer Systems

Quality Assurance in Anatomic Pathology  
Financial Management of the Laboratory

Digital Imaging in Anatomic Pathology

Management of Laboratory Information Systems (LIS)

Laboratory Operations

Laboratory Laws and Regulations
Data Standards & Interchange
Video and Telemicroscopy
Telepathology
Communications and Emotional Intelligence
Case Coding
Natural Language Processing
The Pathology Position
HIPAA and Laboratory Regulation
Legal Affairs for Pathologist
Future with Pathology Informatics

Required Reading:

Other on-line materials will be drawn from: CAP/APC/API Pathology Informatics Essentials for Residents (PIER); and CAP Resource Guides for: Clinical Informatics, Digital Pathology, and Precision Medicine.

Assessment methods:
Resident performance on this rotation will be assessed by:
Class participation and two (2) final essays. One will be on a topic in Laboratory Management and the second will focus on the recommendations of a selected Adopter from the CAP Resource Guide for Clinical Informatics.