Pathology Informatics Curriculum Content: Canvas Learning Management System Content

Survey
- Likert scale scores of 4 (agree) and 5 (strongly agree) were combined
  - Response Rate: 100% (7/7)
  - Rotation useful and educational: 100%
  - Primary goal of covering core topics met: 100%
  - Visits to laboratories to see informatics in action useful: 100%
  - Rotation effectively prepared me for in-service and board examinations: 100%

Positives
- Great background in informatics.
- Effective.
- Great opportunity to gain knowledge in a wide array of informatics-related topics as well as learning about lab management.
- Great rotation. Love pre-test and post-test to assess knowledgebase.

Opportunities for Improvement
- A little more about digital pathology and AI in pathology and barriers to greater implementation would be useful.
- Additional hands-on experience in digital pathology and whole slide imaging.
- Additional site visits would be beneficial – chemistry, microbiology, AP labs.

Focus of Curriculum

Hematology Laboratory & Middleware

Blood Bank: Best of Breed Non-Epic Software

Pathology Informatics Curriculum Construct
- Several consensus groups have recommended the construct of a pathology informatics curriculum
  - For Pathology Residents
  - For Informatics Fellows
- Vetted informatics resources are also available from PIER and from the Association of Pathology Informatics
  - PowerPoint templates for lectures
  - Cursored lists of articles and books

Conclusions
- Informatics tools are essential for the function of the anatomic and clinical pathology laboratories.
- Given the primacy of informatics in pathology practice and informatics assessment on resident in-service and board examinations, it is critical that residents acquire a working knowledge of basic informatics tools.
- Residents felt that the rotation met PIER content objectives and was effective at communicating key pathology informatics concepts; giving a lecture was felt to be an effective educational activity.
- Designing and implementing an informatics-specific curriculum for pathology resident physicians can positively impact their informatics knowledge, as evidenced by the results of pre-test and post-test rotation examinations as well as scores on nationally administered in-service training examinations.
- Future Goals: Involvement in validation, interfacing, and use of new anatomic pathology virtual slide and cytology imaging devices and software; visits to additional informatics implementations in clinical pathology (microbiology, chemistry) and anatomic pathology.

References
- Association of Pathology Informatics. Pathology Informatics Essentials for Residents. https://www.apcprods.org/mhs