The Clinical Scholars in Informatics (CSI): A novel Internal Medicine (IM) resident-driven applied informatics pathway

Ajay Dharod MD, Hal Atkinson MD, Gary Rosenthal MD

NEEDS AND OBJECTIVE

• In the changing landscape of healthcare, applied informatics shapes clinical workflows and decision making.
• It is important to train physicians leaders in applied informatics allowing for novel locally-relevant workflows targeted to improve healthcare effectiveness, efficiency, equity, and patient engagement.

Journal Club Monthly Topics

- Journal Club 1 - July - C3I, Informatics Journal
- Journal Club 2 - August - Workflow Design Guides
- Journal Club 3 - September - Change Management, Evaluation of IS
- Journal Club 4 - October - Data Standards, Network, Workflow, Sharing, Publishing
- Journal Club 5 - November - IT Systems, Support and Maintenance
- Journal Club 6 - November - Coding/SQL, Personhood, R-structure
- Journal Club 7 - February - Clearing (Tax Troubleshooting)
- Journal Club 8 - March - Regulatory Issues - HIPAA, RACA, HITECH, TC
- Journal Club 9 - April - Security & Privacy
- Journal Club 10 - May - Information System Lifecycle

DISCUSSION, REFLECTION, LESSONS LEARNED

- CSI translates a resident derived project (system pain points) into reality - provides tangible example of LHS in action to residents
- One resident plans to continue informatics

CSI Year

2017-2018
- Resident 1
  - Focus: Strategy
  - Project Title: "Improving Read Documentation of Health Through the Delivery of Community Resources"
  - Phase: Evaluation
  - Metrics: Wake Forest Health Care (Internal Medicine)

2018-2019
- Resident 2
  - Focus: Internal Medicine
  - Project Title: "Implementing Predictive Modeling to Increase Adherence to Care Planning for Acute Respiratory Disease Patients"
  - Phase: Implementation
  - Metrics: Wake Forest Chief Resident, 2020

2019-2020
- Resident 3
  - Focus: Graduate
  - Project Title: "Adressing Concerns such as Organizational Issues through Support of Community Resources"
  - Phase: Development
  - Metrics: Wake Forest Resident, 2021

2020-2021
- Resident 4
  - Focus: Internal Medicine
  - Project Title: "Improving Oncology CRF Reporting"
  - Phase: Implementation
  - Metrics: Wake Forest Medical Faculty

IMPACT

- Future opportunities for research, quality/safety, Electronic Health Record (EHR) workflows
- Projects nearing completion (year 2) presented nationally, with draft publications in progress.
- Residency recruitment tool
- 5 applications received for 2019-2021 cycle
- 4 applications received for the 2020 – 2022 cycle
- Internal development of faculty informatics expertise
- Benefit to Health System: implementation of a locally relevant applied clinical informatics project with robust evaluation

FUTURE DIRECTIONS

- We plan to continue to evaluate the impact of these projects and draft and disseminate CSI resident-driven innovations.
- Expanding CSI to additional Wake Forest Residency Programs based on level of interest (ED, Pediatrics)
- Dissemination and scaling of successful projects through the Health System: Collaboration with Wake Forest Center for Biomedical Informatics (CBMI), Wake Forest Center for Healthcare Innovation (CHI), Department of Implementation Science

Online Resource URL:

Clinical Scholars in Informatics Curriculum