

Emergency Medicine Health Informatics fellowship

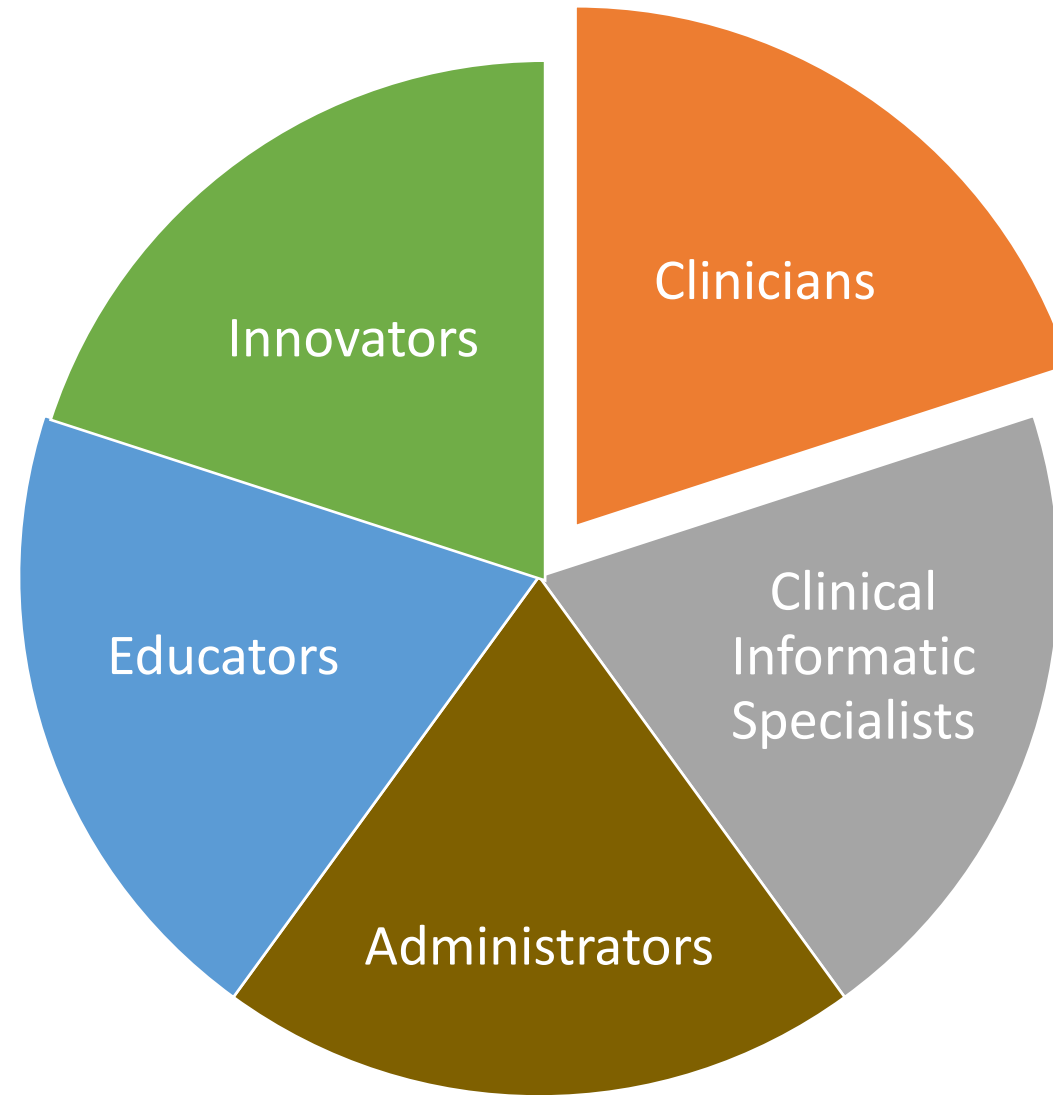
A 2-year journey

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Outline

- Who we are
- Why we created it
- What we created
- How is it structured + overall content
- Outcomes for this year
- Future direction

Who we are



Bridging the sociotechnical system

- Interfacing
 - Humans and Computers
 - Clinical and Administrative functions/workflows
- Integrating IT within the clinical workflow

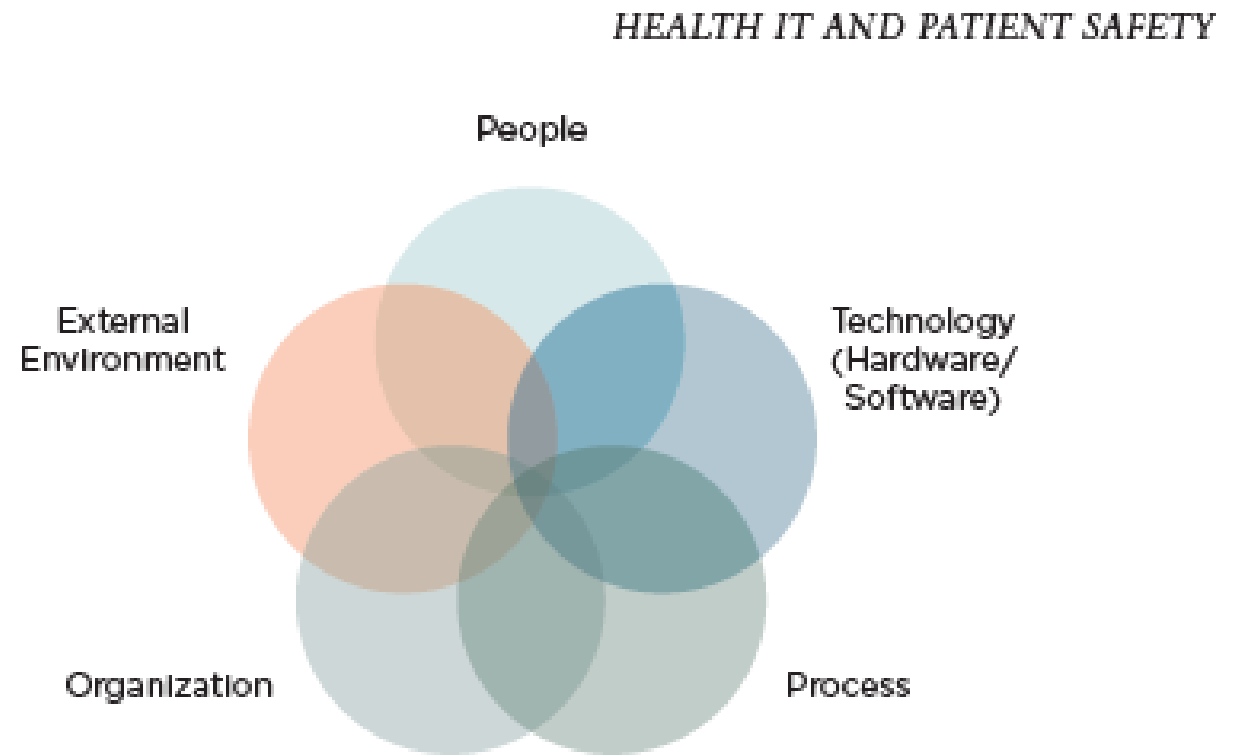


FIGURE 3-1

Sociotechnical system underlying health IT-related adverse events.

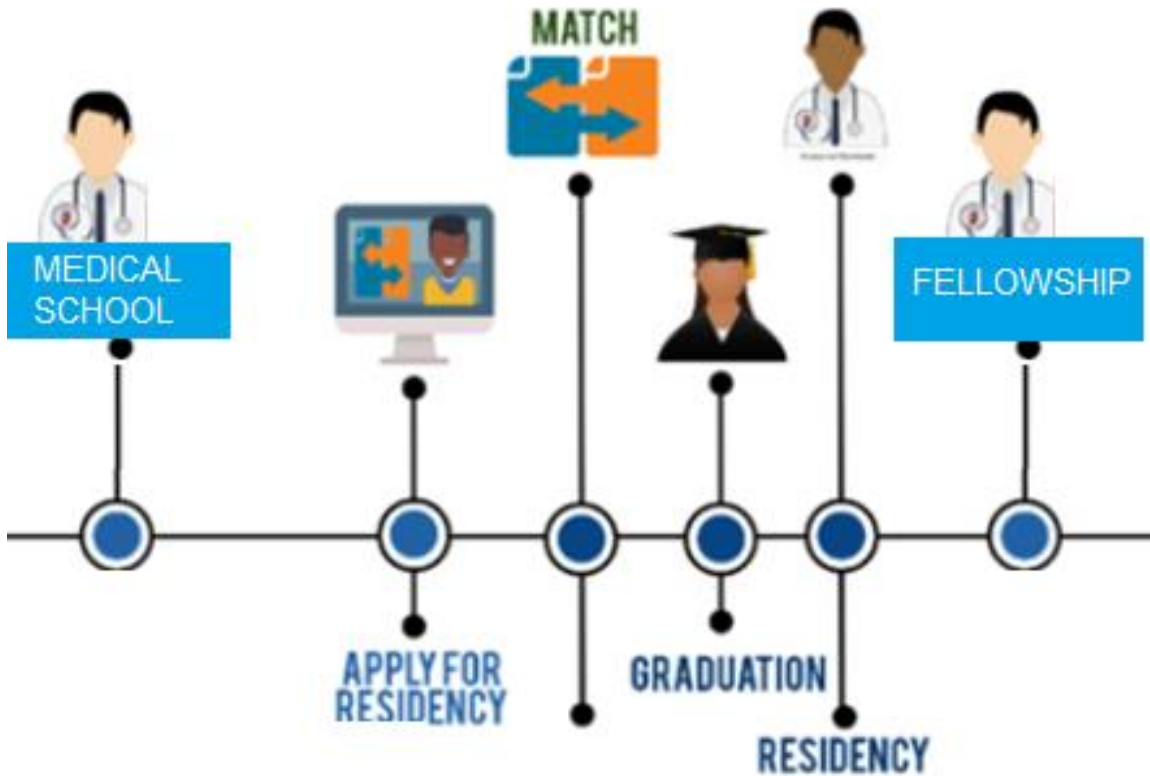
Why an EM HI fellowship

Fast-paced / high stress
/ limited resource
clinical environment

Health IT has the
potential to improve
clinical workflow,
productivity, efficiency,
and patient safety

There exist a
technology gap
amongst clinicians

Change management
plays a critical role in
the success of health IT
projects



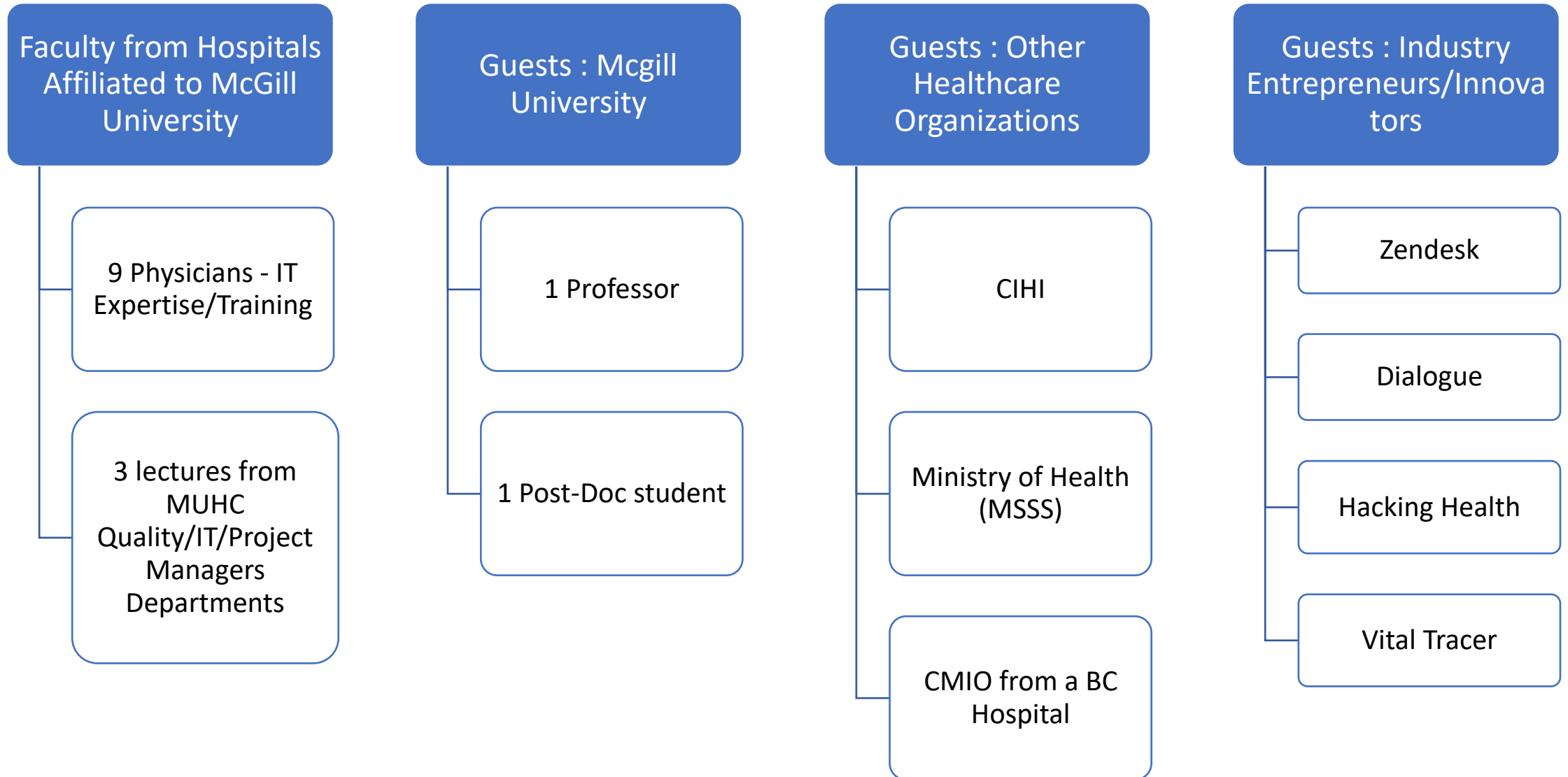
What we have created

- For graduates of Emergency Medicine Royal College residency program
 - Fellowship in Emergency Medicine Health Informatics
- For EM residents
 - 1-2 month elective rotation
 - 6 month area of interest rotation
- For faculty / clinicians attending
 - Royal College CPD accredited bi-monthly half-day rounds

Structure of the fellowship

- 11 periods of clinical rotation
- 2 periods of 4-week elective
- 20 seminar lectures and small group discussion sessions
- Participation in ED leadership HI group
- Research or HI project
- 2 academic presentations at EM rounds.
- 1 or 2 university-level courses

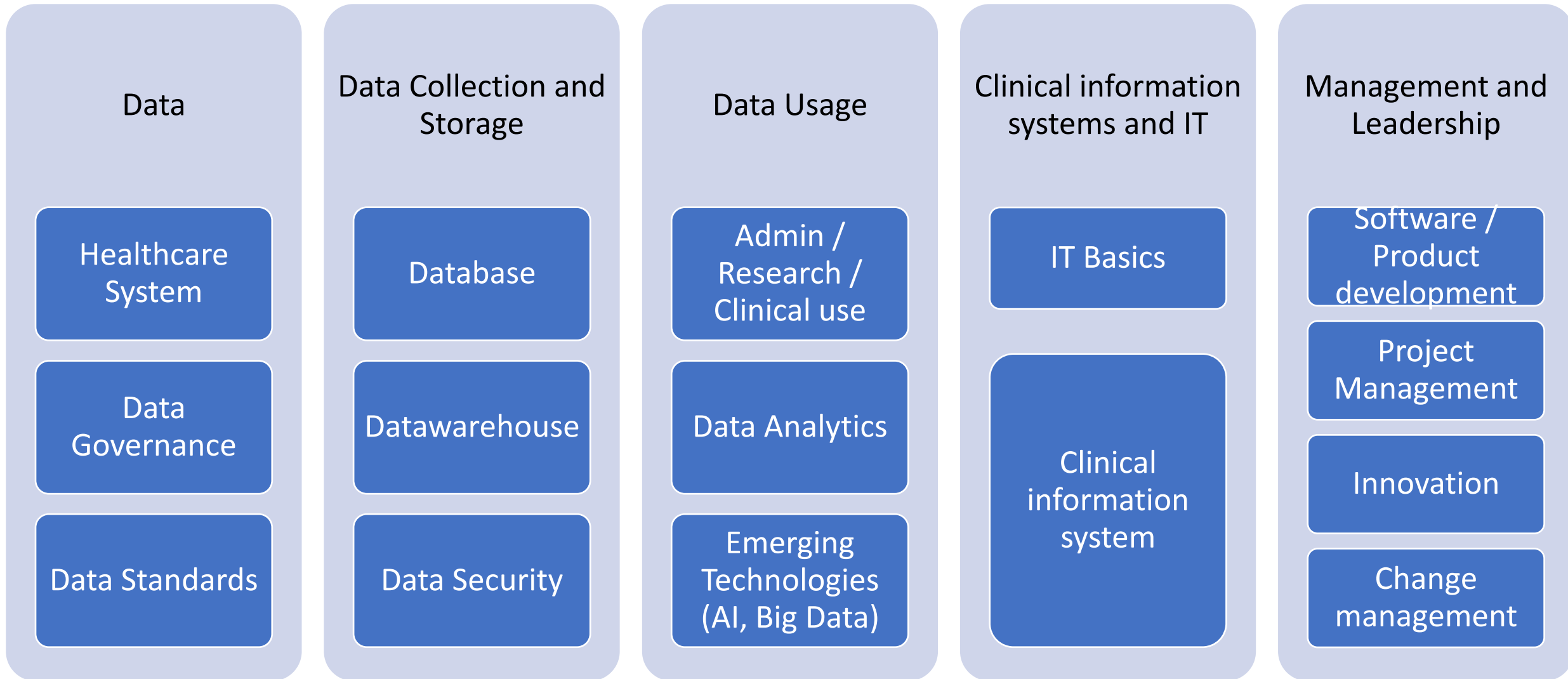
Faculty + Guest lecturers



Format of academic half-day

- 3 hours bi-monthly
- Online sessions via MS Teams
- Online curriculum / files via MS Teams
- Content : 20-30min presentation / 20min discussion
 - Core lecture
 - Case study 1
 - Case study 2
 - Journal Club

EMHI Fellowship curriculum



CPD Accredited by Royal College

- Self-approval process
 - Step 1: Review the CPD accreditation standards
 - Step 2: Complete the self-approval checklist and the self-approval form
 - Step 3: Have the chair of the planning committee complete and sign the self-approval form
 - Step 4: Submit both the self-approval checklist and the self-approval form to rounds@royalcollege.ca
- Housekeeping
 - Strict conflict of interest disclosure
 - Attendance records
 - Evaluation of each session

Outcomes

- 1 Fellow
- 3 Site Projects
 - Triage re-orientation : System analysis
 - Triage CTAS 3 outcome prediction: Machine learning approach to patient prioritization
 - ED wait times analysis for MD schedule optimization : Power BI Analytics
- 1 Capstone Project
 - ED Physician Performance Analytics
- 2 month elective
 - With the Datawarehouse team on mapping multiple clinical databases into a common data model for secondary use of data.

Future Plans

- Further collaboration with Inforoute / CIHI
- Expansion to Pediatrics / Internal Medicine
- Continued Education Health Informatics certificate for attending physicians



Question ?