Background

The tens of billions of dollars now being invested in electronic health records (EHRs), e-health applications and other types of health information technology (HIT) is transforming the way medical care is provided in the U.S. and globally. To date, the main focus of this digitalization has been on the clinician-patient interaction. But this new HIT infrastructure also presents unique opportunities to improve the effectiveness, efficiency and equity of health care systems more broadly.

CPHIT (pronounced “see-fit”) focuses on the application of EHRs, mobile health (m-health) and other HIT tools targeted at communities and populations. The locus of CPHIT’s activities is the U.S. and other high-income nations.

The entities most likely to be involved in implementing population-focused e-health technology include:

- Health insurance plans and employers
- Accountable care organizations (ACOs)
- Integrated delivery systems (IDSs)
- Government agencies
- IT / e-health companies
- Consumer groups
- Accreditation/ regulatory bodies

CPHIT’s R&D Focus Includes

- Population-based health status, risk and quality measurement tools created from EHRs and other HIT systems
- Approaches for linking EHRs, e-health and m-health applications in support of population health
- Computer science methodologies to advance the application of non-structured data and “big data” to population health interventions
- Technical, organizational and standard-setting innovations in support of interoperable HIT networks focused on population / public health
- Methods and strategies for integrating administrative and EHR data for population interventions
- EHR-based tools to support health management and quality improvement for populations
- Legal, ethical and policy frameworks pertaining to the secondary use of EHRs for public health programs and research

Collaboration

CPHIT is housed at the Johns Hopkins Bloomberg School of Public Health. It is a cross-campus initiative involving close collaboration with other Johns Hopkins units including:

- Whiting School of Engineering
- School of Medicine
- School of Nursing
- Applied Physics Laboratory (APL)
- The Johns Hopkins Health System

CPHIT also collaborates with numerous wired delivery systems and government agencies across the U.S. and around the globe.

Advisory Board

CPHIT is developing an advisory group drawn from public and private stakeholder organizations. These advisors will play an active role in helping to set the Center’s R&D priorities, and in disseminating findings and products.

Industry Partners Program

CPHIT has initiated a comprehensive Industry Partners program to work closely with industry. Please contact us for further information on this and other collaboration opportunities.

Center Leadership

Jonathan Weiner, DrPH, Director
Hadi Kharrazi, MD, PhD, Assistant Director
David Chin, MD, Senior Advisor
Elyse Lasser, MS, Center Coordinator

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