The Johns Hopkins Center for Population Health Information Technology (CPHIT) seeks to improve the health and well-being of populations by advancing the state-of-the-art of Health IT across public and private health organizations and systems.

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 US 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 US 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 applications, social and community data 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
• The Johns Hopkins Health System

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

The R&D group of the widely used Johns Hopkins ACG Case Mix/Predictive Modeling system® is housed within CPHIT. (See www.acg.jhsph.edu) Numerous EHR and big data based “e-ACG” R&D efforts are underway.

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.

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