CPHIT Collaboration Opportunities

The mission of The Johns Hopkins University (JHU) Center for Population Health IT (CPHIT) is 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.

As part of CPHIT's multi-faceted agenda, our intent is to develop an ongoing collaboration with Health IT, e-health and m-health corporations, delivery and payer organizations, government agencies, and other public health and health care organizations.

The goals of these partnerships are to identify priorities, learn best practices, work together on cutting-edge research and development efforts, and to disseminate tools, methods, products and findings around the nation and globe. Accordingly, the Johns Hopkins Center for Population Health IT is seeking collaborations with industry, government and other external organizations that can further CPHIT's mission and provide value to each partner and their customers and stakeholders.

In this document we identify a portfolio of options and opportunities that fall within CPHIT's mission and priority areas. We offer a range of activities in different content areas, as well as possibilities for involvement and exchange of professionals and academics between our organizations. These "shovel ready" projects could commence quickly. Some are shorter term (i.e. less than a year); others would be longer term. We are seeking financial and other support from the collaborating organizations and/or assistance in the identification of third party funding. While we actively are seeking supporters for the activities outlined below, we welcome discussions of other types of collaboration consistent with CPHIT's mission.

**Short-Term Partnership Opportunities**

**Publication/Dissemination**—Examples of sponsored white paper/publications/conference topics include:

- Population Health IT: Boundaries, Opportunities, and Challenges
- The Frontiers of Population HIT: A National Roadmap for Research and Development Over the Next Decade
- Population HIT: The Virtual Glue of ‘Accountable’ Care
- Predictive Modeling for Population Health: Moving from a Claims-based Model to EMR-based Model
- Finding the Missing Elements: Mapping Current Population Health Frameworks and Existing HIT Policies
Guidelines to Develop Community-wide HIT-based Population Risk Measures: Recommendations from an Expert Panel

Using Natural Language Processing to Harvest Unstructured EHR Data for Population Health Analysis: Barriers and Opportunities

Effective Approaches for Linking EHR Systems with Consumer-based Data: Pragmatic Applications in Population Health Management

Promises and Perils of Predictive Modeling in Population Health: The Roles of Advanced Population HIT and New Sources of Data

The Role of Population HIT in Health Delivery Systems: A Survey of Select ACOs

A Conceptual Legal/Ethical/Policy Framework to Support the Secondary Use of EHR Data for Population Health

Training / Educational

Opportunities for company scientists to do fellowships/ sabbaticals at JHU

Opportunities for staff to apply for JHSPH’s Population Health Informatics (PHI) certificate

Opportunities for industry researchers to join publications (scientific and editorial) in the PHI research community

Informatics Talent

Sponsorship of fellows and doctoral students to work in areas related to company (including potential internships on site and targeted research)

Access to undergraduate and master’s students for placements

Sponsorship of CPHIT’s annual PHI scientific conference and have exclusive access to the pool of participants/experts

Ad-hoc consultation, as needed (e.g., focused one day faculty brainstorming on issues relevant to organization visitation day)

Medium-Term Partnership Opportunities

Focused Consultations

Provide strategic advice for PHI solutions that can address near future demand/mandates, based on the latest developments in policy and research

Evaluate and analyze new population health initiatives/solutions/frameworks, based on the scientific methods developed by CPHIT

Perform unbiased evaluation of a proposed industry product and provide structured feedback on the population HIT aspects of it
• Develop a strategic plan to co-develop a population HIT solution
• Facilitate roll-out of a solution within the JHMI eco-system and evaluate and analyze its deployment
• Mutually develop and submit new suggestions for population HIT standards to ONC and other relevant governmental entities

Specific R&D Mini-Projects *(The following are illustrative examples)*

- Create EMR-based predictive models and risk identifiers / stratifiers in the ambulatory/population context
- Develop and evaluate new computational models (including NLP / text mining) in the context of population/community applications
- Distinguish existing and generate customized EMR-based population metrics based on proposed conceptual population HIT frameworks
- Define and expand various population HIT readiness-indexes based on various population health data sources
- Develop methodologies to integrate consumer (e.g., m-health), provider (e.g., EMR), and public (e.g., surveillance) data for population health applications

Long-Term Partnership Opportunities

- Participate in major grant proposals that originate from a joint collaboration
- Provide access to the latest CPHIT research developments through pre-publications and special briefings
- Create a mutual framework to preferentially share, license, or purchase an IP developed by CPHIT
- Develop a long-term collaborative framework

*For further information or to explore collaboration with CPHIT, please contact:*

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View more information on CPHIT at: [www.jhsph.edu/cphit](http://www.jhsph.edu/cphit)  
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