JOHNS HOPKINS
BLOOMBERG SCHOOL of PUBLIC HEALTH

CENTER FOR POPULATION HEALTH INFORMATION TECHNOLOGY

CPHIT Fall 2023 Newsletter

See the latest presentations, publications, and news from our center!

Welcome to the New Academic Year!

Featured Publication

[Assessing Patient and Community-Level Social Factors; The Synergistic Effect of Social Needs and Social Determinants of Health on Healthcare Utilization at a Multilevel Academic Healthcare System](#)

Using EHR data from 1.3M Johns Hopkins Health System patients, a CPHIT team undertook an analysis exploring the synergistic effects of patient level social needs and community-level SDOH measures. This research examined how patient-level and community-level social factors interact with each other and impact healthcare utilization.

Check out the publication linked above!

Dr. Jonathan Weiner will present "Annual CPHIT Update" on 10/31/23 at noon (Eastern Time). The talk is entitled:

The Center for Population Health Information Technology (CPHIT): Mission, Current R&D Portfolio, and Future Directions

Dr. Weiner, CPHIT Founder and Co-Director, will resent the center's current portfolio and will offer a summary of finding from recent studies/projects, and ideas for cross-center projects and future joint grants.

This session will take place as Part of the Center for Health Service's Outcomes and Research (CHSOR's) weekly seminar. This session will be live in-person and on Zoom. Please email ltansky@jhu.edu for more information.

Meet CPHIT's Newest Team Members!

Bayan Hijazi, PhD, Research Data Analyst at CPHIT

Bayan's research expertise is in medication utilization, medication adherence, evaluating patient and/or pharmacist behavior, mental health issues, and healthcare data analysis. Her work at CPHIT has included data analysis for the measures of Social Amenability, updating ACG pharmacy measures using EHR and claims data, and performing a concordance analysis to evaluate the consistency of recoded observation between sources of data within EHR and claims data from the Johns Hopkins Health System.

Talan Zhang, MS MPH, Senior Biostatistician at CPHIT

Talan boasts 25+ years of statistical analysis expertise, spanning experimental design, categorical data analysis, longitudinal data analysis, survival analysis, natural language processing, and deep learning. She presently concentrates on developing composite scores for social determinant factors and data processing within the ACG system at CPHIT.

New Norwegian Paper in BMJ Open Compares ACG scores to self-reported outcomes

[Association between Johns Hopkins Adjusted Clinical Groups risk scores and self-reported outcome measures: an observational study among individuals with complex or long-term conditions in Norway](#)

A recent publication in the prestigious *British Medical Journal – Open,* by a Norwegian research team investigated the association between Johns Hopkins Adjusted Clinical Groups (ACG) risk scores and self-reported outcome measures (SROMs) among individuals with complex or long-term conditions.

Free-access publication with extensive supplementary material at link above!

CPHIT is Presenting at the American Medical Informatics Association (AMIA) 2023 Annual Symposium in New Orleans

Monday 11/13 Chintan Pandya MD, PhD: **Latent Class Analysis of Social Needs in Medicaid populations and its impact on risk adjustment models**

Monday 11/13 Priyanka Sood, DrPH student & Hadi Kharrazi MD, PhD: **Assessing Potential Racial Disparities using EHR and Claims data across common type 2 diabetes phenotype definitions**

Monday 11/13 Hadi Kharrazi MD, PhD: **Conceptualization and development of the Maryland suicide data data warehouse to improve mortality prediction**

Tuesday 11/14 Star Liu, Phd student & Hadi Kharrazi MD, PhD poster session:
Evaluating the variations in healthcare utilization predictions across common phenotypes of type 2 diabetes using EHR and Claims data.

Check the AMIA program schedule for more details

(See you there, or contact us if you wish to learn more about this research in progress.)

In case you missed it:

Jonathan Weiner's Controversial Grand Rounds on Ai and Population Health Analytics

Available on YouTube. Relevant Now More Thant Ever!

https://www.youtube.com/watch?v=rDij3K3N1Hk

Also see Dr. Weiner's related Ai perspectives featured in The Bloomberg School's newly released magazine

https://magazine.jhsph.edu/2023/ais-balance-power

See the full list of CPHIT's latest publications here