### Enhancing Patient Care: Hospital-EHR Collaborations in Pharmacogenomics

Cyrine-Eliana Haidar, Pharm.D., St. Jude Children's Research Hospital Phil Empey, Pharm.D., University of Pittsburgh Medical Center

Implementers faced with the same problems but had to come up with solutions for their EHR

Solution

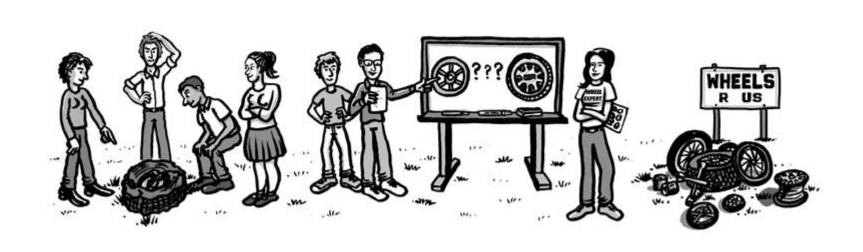
problem





Create a forum
where
implementers
can discuss
similar problems
and come up with
solutions
together

# Need for two-way communication between healthcare institutions and electronic health record (EHR) vendors



### Pharmacogenomics Brain Trust

Create robust and standardized support for pharmacogenomics in Epic and across organizations

### Tasked Goals of the Pharmacogenomic Brain Trust

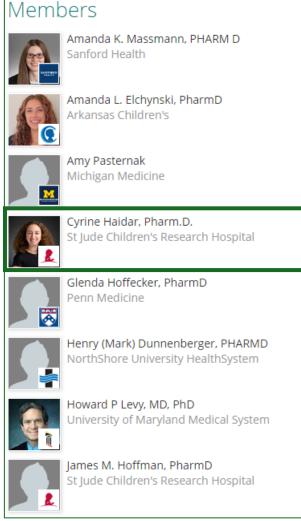
- Drawing from the expertise of implementers and Epic experiences, the Brain Trustees will:
  - Review foundation system build
  - Improve implementation strategies
  - Share how they have successfully used Epic in their precision medicine programs

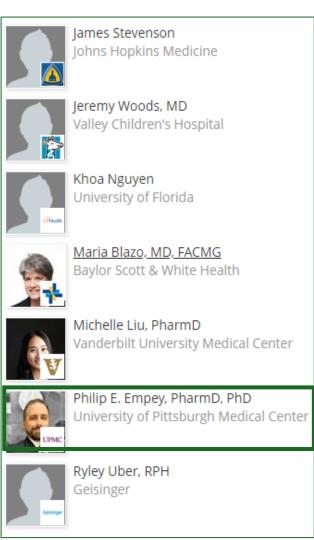
#### Pharmacogenomic Brain Trust Meeting Format

- Monthly one-hour meetings starting October 2022
- Rotation of topics
  - Foundation system and documentation
    - Epic staff seeking input from users
  - Current developments
    - Both Epic and users
  - Community implementation
    - Epic institutions discussing and sharing unique pharmacogenomic implementation aspects at their site

## Pharmacogenomics Brain Trust Clinician Representation\*

Co-leaders of the Pharmacogenomics Brain Trust





## Pharmacogenomics EHR Member Brain Trust Representation

Epic staff



Brian Davis Epic



Elizabeth Sweet Epic



Vikas Biliyar Epic



Lindsay Lin Epic

#### Pharmacogenomic Foundation System Build

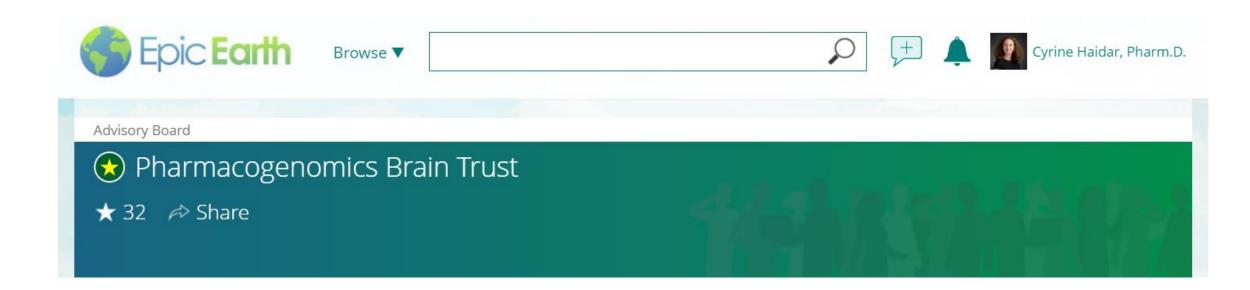
- Incorporation of CPIC level A guidelines
  - Genomic Indicators
  - Genotype to Phenotype Mappings
  - Pre-test alerts
  - Post-test alerts and in-line notifications

## Key Successes to Date

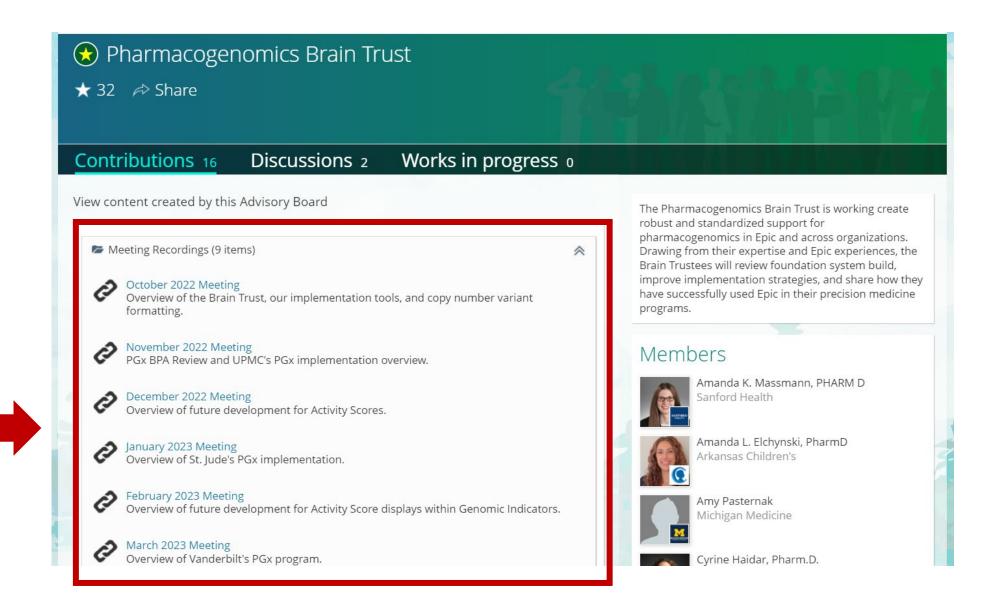
### Key Successes to Date

- Genomics indicators will not be shared from one institution to another
  - Variant results will be shared
- Integration of activity score into a discrete format within the EHR
- Review of Pharmacogenomic Workbook template for Epic Foundation System builds
- Standardization of malignant hyperthermia notification workflow within the EHR for anesthesia and pharmacogenomics
- Feedback on design and development ideas

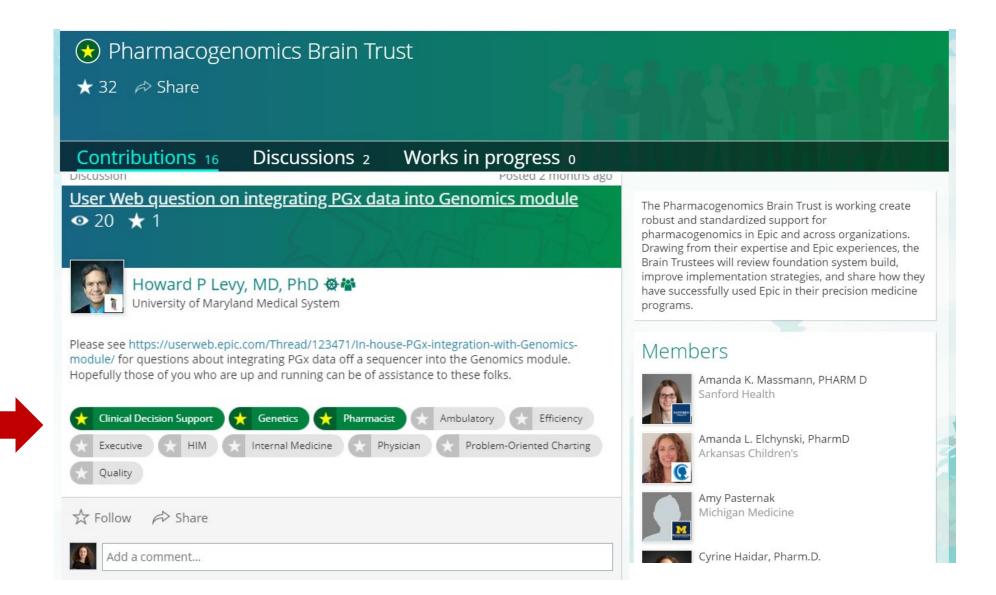
## Pharmacogenomics Brain Trust Accessible Through Epic Earth



### Recordings of Previous Meetings Accessible for Review



#### Post Questions on the Discussion Board



## This group could potentially be replicated for all EHR systems

- Start a pharmacogenomics specialty group for institutions using the same EHR as you
- Contact your EHR vendor representatives, or information services at your institution

## Interested in joining the Pharmacogenomics Brain Trust?

- Prerequisites:
  - EHR vendor: Epic
  - Installed the genomics module
- Contact:
  - Cyrine Haidar: <a href="mailto:cyrine.Haidar@stjude.org">cyrine.Haidar@stjude.org</a>
  - Philip Empey: <a href="mailto:pempey@pitt.edu">pempey@pitt.edu</a>



## Questions