Essentia Demonstration Project: Integration of PGx in a Large Rural Health System

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Leveraging current PGx initiatives

- PGx testing of oncology patients
- PGx testing of patients with depression and anxiety (DFMC)
- PGx Pharmacy Fellowship with the College of Pharmacy and Essentia
78% of prescribers SUPPORT OFFERING PHARMACOGENOMIC TESTING AND INTERPRETATION THOUGH ESSENTIA HEALTH MTM PHARMACY SERVICES

72% of pharmacists support offering pharmacogenomic testing and interpretation through Essentia Health Pharmacy Services.

Olander, M., et al. (Manuscript in preparation)
Overarching Goal

• Build the tools and framework for institutional implementation of PGx, including:
  – PGx Education
  – Test ordering
  – Transferring genetic information into the EHR
  – Expert clinical pharmacist interpretation of results
  – Clinical decision support
  – Test feasibility
Project flow

GROUPS

TASKS

NEEDS

Define

Educate

Develop

Test

Education
Expert
Economics
Ethical/Legal

Tech/CDS
Essentia IT
Experts

Who
What
When
How

Create modules and protocols for providers, pharmacists, nurses

Develop CDS tools for selected drug/gene pairs
Deliverables

• Identification of barriers and facilitators to implementation
• Infrastructure build for implementation
• Clinical flow
• Clinical decision support architecture
• Disseminate results through presentations and publications
• Share experience with other sites implementing PGx services
• Progress and final report
# Timeline

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<th>2019</th>
<th>2020</th>
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<tbody>
<tr>
<td></td>
<td>Jan – Mar</td>
<td>Apr – Jun</td>
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<tr>
<td>Start-up Activity</td>
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<tr>
<td>Education</td>
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<td>Legal/Ethical</td>
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<td>Operations (billing, orders)</td>
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<td>IT/Infrastructure</td>
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<td>Develop CDS</td>
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<td>Information management</td>
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<td>Pilot Implementation</td>
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Project Team

- **Team leads:**
  - Steve Waring, DVM, PhD
  - Jacob Brown, PharmD, MS
  - David Stenehjem, PharmD, BCOP

- **Team Members:**
  - Dianne Witten, RPh, MS
  - David Sperl, PharmD
  - Paul Shillo, RPh, BCOP
  - Bret Friday, MD, PhD
  - Danielle MacDonald, PharmD
  - Ann Yapel, PharmD
  - Joe Bianco, MD
  - Mike Whitcomb, MD (CMIO)
  - Deneice Kramer, MBA, MA, CCRP (HRPP)
  - Kayla Walton (Coordinator)
  - Nick Cameron (Analyst)
  - Theresa Ekblad (Systems Analyst)
  - Brian Olson (Application Analyst)
  - Zach Rivers, PharmD (PhD student)
  - Tiana Luczak, PharmD (PGx Fellow)