Accelerating the Learning Health System with Process Interoperability
**Power of Community**

*InterOp.Community* is an emerging collaboration to advance the healthcare interoperability agenda via the use of open platforms and open-source software.

**Professional societies, vendors, healthcare and government orgs**

Promote open standards to share, adopt and allow patient centric pathways to operate across traditional health IT boundaries.

**It takes 17 years for best practices to move into clinical workflows**

As a patient, provider or payer, is that fast enough for you? If not then join our community and help accelerate our shared velocity towards the learning health.
The Experts

Ben Cushing
Federal Health & Science
Lead
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Mary Kratz
Executive Vice President
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Amit Trivedi
Director, Informatics & HIT Standards
HIMSS
Healthcare systems in which knowledge generation processes are embedded in daily practice to produce *continual improvement* in care.

US Institute of Medicine
Healthcare Interoperability is much more than data...

The patient journey is a goal directed activity
Enabling the Learning Health System

**Care with Boundaries**

Clinical Practice Guidelines are stuck on paper

**Care without Boundaries**

CPGs are automated across clinical workflows
Barriers to the LHS
MELD.Interop.Community

- Open-source healthcare sandbox called ‘MELD’
- Free sandbox open to the world based on MELD Source Code
- Populated with synthetic FHIR® data
- Used for:
  - Research solutions
  - Educate & Training venues
  - Test tools & Standards Development
  - Collaborate on Use Case Demonstration
  - Create a Reference Implementation
Another key part of what Communities of Practice do is sponsor the creation of personas and synthetic data called “DATA PACKS”
Meet Alani

1. **Stage 4 Breast Cancer**
   Alani is post-op for a partial mastectomy. Her metastatic brain lesions require high dose steroids to manage the cerebral swelling. She has been given a 22% chance of living past 5 years.

2. **High Sepsis Risk**
   Due to the recent surgery, high dose steroids and history of Staphylococcus infections, she is has a high baseline risk for developing life threatening sepsis. A hospital during the Covid 19 pandemic is not a safe environment for her recovery.

3. **Rural Native Hawaiian**
   Strong community support but 153 miles from her surgical team.

**Alanie’s Goal**
Get home as fast as possible to be with her community.
Population health risk surveillance & mitigation

- Open Standards
- Best practices & process
- Patient centric across all boundaries
- Modular
- Scalable
- Secure
AI as Clinical Decision Support in provider workflows

- AI supporting Providers in areas of cognitive weakness
  - Listening for new data
  - Harmonizing data
  - Near real time risk calculation
- Reduces Noise & Frees Providers to focus on Patient care
Thank you!