### **Health Information Exchange (HIE) Overview**

### Presented to the



March 16, 2022

Rick Rubin, CEO OneHealthPort

Created in 2002, by and for the local healthcare community, OneHealthPort solves information exchange and workflow problems shared across healthcare organizations

Collaborative, open to all, transparent and neutral

Public/Private Partnership built on role as WA State Lead Organization for HIE and Admin Simp

Filling the gaps, leveraging Shared Capabilities

A utility model, private operation with public oversight "Run it like a business but in the public interest"

"Health Information Exchange (HIE)"

**Noun** – An organization created to enable health information exchange

**Verb** – Health information being exchanged by many different parties regardless of organization type

Interoperability – ability to exchange information without "special effort" – it is a continuum, not a point in time





Value-based purchasing, population health, consumer convenience, digital health services, provider burnout, regulatory compliance, etc., add powerful incentives for improved information exchange and access





- HITECH (Health Information Technology for Economics and Child Health)
- HIPAA
- 42 CFR (Substance Abuse Data)
- 21<sup>st</sup> Century Cures Act
- Information Blocking
- TEFCA (Trusted Exchange Framework and Common Agreement)
- State laws

Impact?

# Cybersecurity

6374335005341472769515681881392044140800+21

307229070517590607172703007150500

400845245440005209174510560902002161047

7 4 2 4 6 1 2 9 6 1 7 1 3 9 1 2 1 3 1 4 6 7 6 2 9 1 6 9 1 6 2 0 1 8 5 8 9 5 8 9 1 7 8 5 7 9 2 2 2 0 4 2 7 1 1 1 1

# Risk

## Interoperability



So we are now interoperable with the world.

But my bigger point is — we invented interoperability and we got it out to everyone. Somehow there is this [perception that] "we don't interoperate."

### Judy Faulkner, Epic CEO quoted in MedCity News 03/10/22

That's just not true. These systems were not designed as platforms that easily connect with others whether that is another EHR or new features that startups would have to access. As much as we have had some level of transformation in tools to support providers and patients, we are not in a place of true interoperability.

Senior Exec and user of both Epic and Cerner quoted in MedCity News 03/10/22

# Quantitating and assessing interoperability between electronic health records

Elmer V Bernstam ➡, Jeremy L Warner, John C Krauss, Edward Ambinder, Wendy S Rubinstein, George Komatsoulis, Robert S Miller, James L Chen

Journal of the American Medical Informatics Association, ocab289,

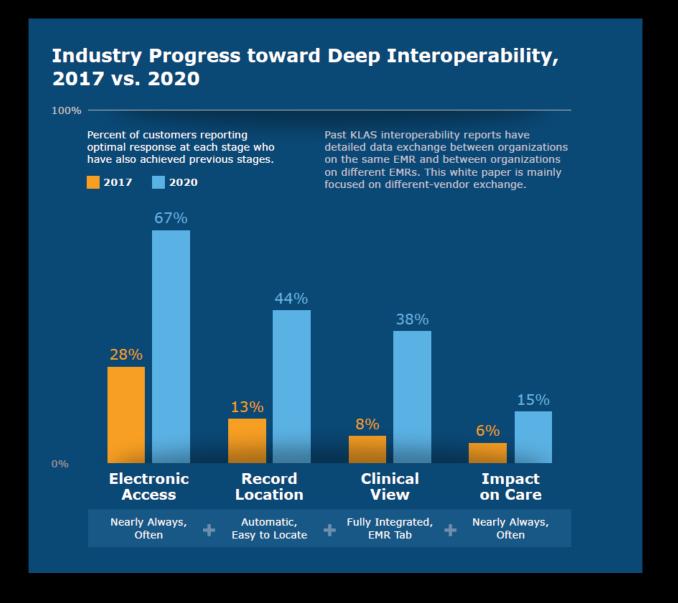
https://doi.org/10.1093/jamia/ocab289

Published: 07 January 2022 Article history ▼

by Vince Kuraitis, JD and Ian McNicoll, MD

A recent study of EHR interoperability found that **68% of data was "understood" when exchanged across different sites using the same vendor**, but only **22% was "understood" when exchanged across different EHR vendors.** 

"Deep interoperability is progressing with many organizations poised for significant progress in coming years"



Trends in EHR Interoperability – CHIME and KLAS 2021

### **HIE Networks**

In WA, OneHealthPort
HIE does about 10
million transactions
per month

All state/local HIEs together do about 1.5\_billion transactions per month



National Networks are a growing force, eHealth Exchange does about 1 billion transactions/month

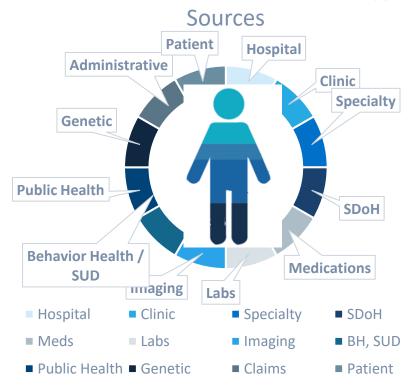
This vs. This

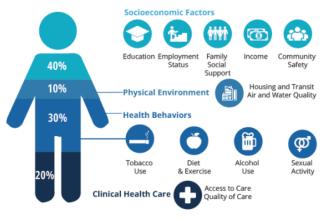




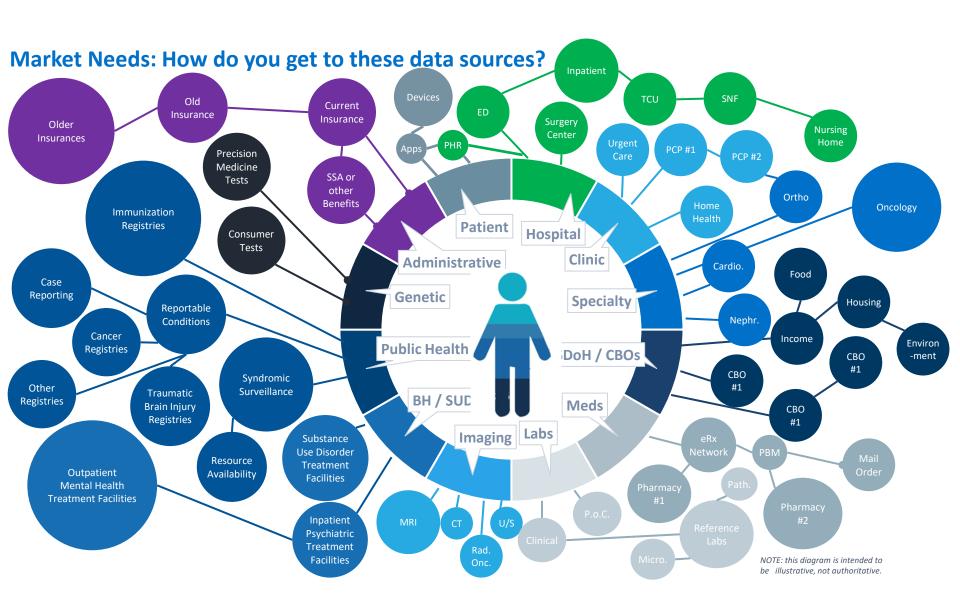
#### Market Needs: What are the various sources for the data?

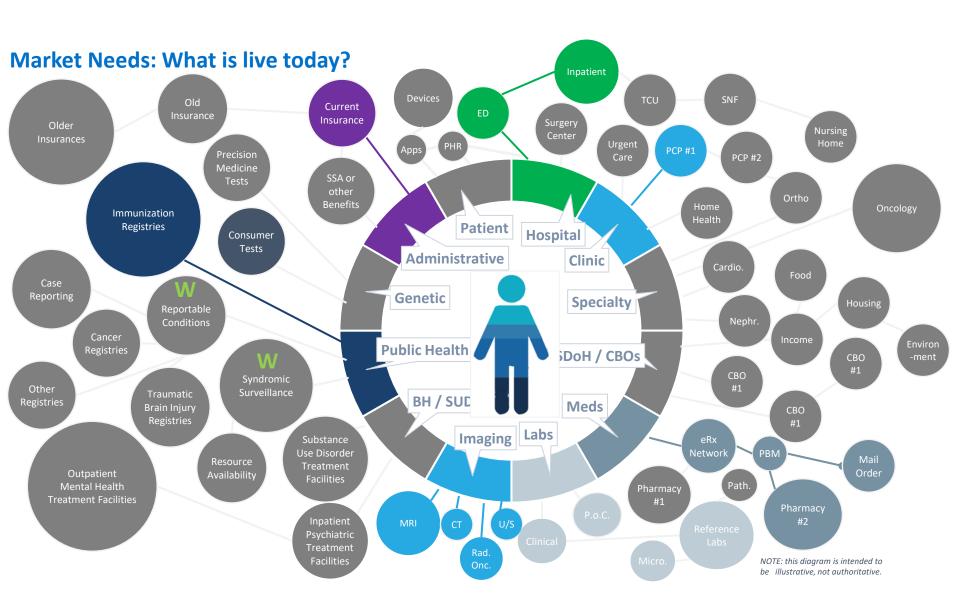
### A Person's Electronic Record: Data Types &





Hood, CM, Gennuso, KP, Swain, GR, & Catlin, BB. (2015). County health rankings: Relationships between determinant factors and health outcomes. American Journal of Preventive Medicine.





# So What?

- 1. Made **great** progress on HIE and great challenges still lie ahead
- 2. In WA, HIE is real for certain narrow, but important use cases
- 3. Going forward:
  - Promulgate standards, don't buy proprietary tools
  - Try to have fewer, rather than more connection points
  - Seek commonality around policy, identity management, consent
  - Expand beyond medical treatment use cases
  - Balance market incentives and regulation

### Question, Comments, Discussion

Thanks very much