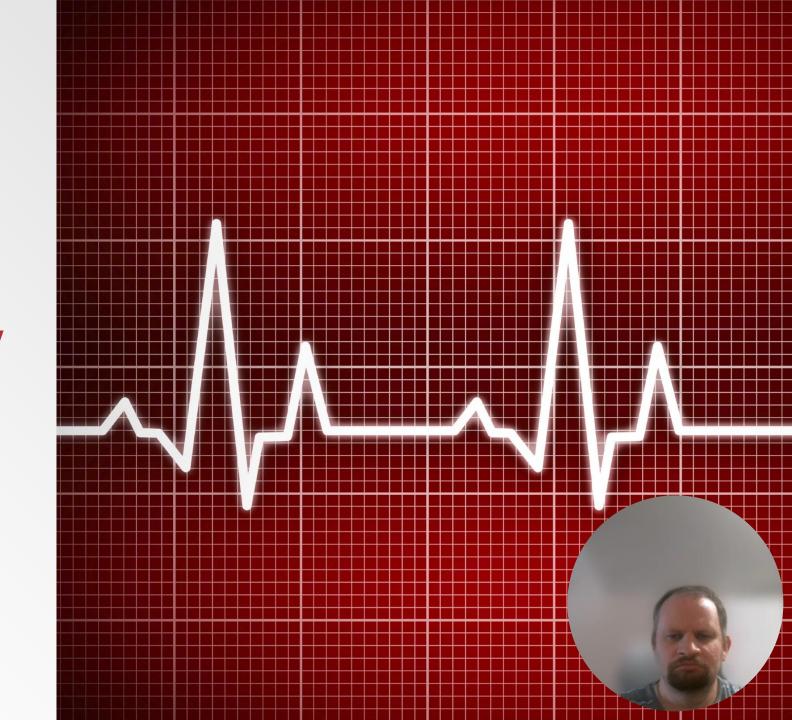
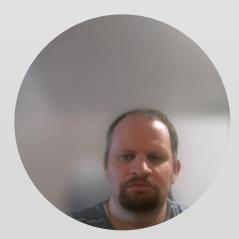
Interoperability Technology in Healthcare



Interoperability Tech and Healthcare Defined

- Exchange and Integration of healthcare data
- Secure access, sharing and use of HI
- Exchange Standards: HL7, FHIR, CDAs, CCDAs, ICD Codes
- Methods of Exchange
- Semantic Interoperability
- TEFCA and QHINS





HL7 FHIR Standard

- Restful APIs
- Sandbox Environments
 - Mock Scenario Testing
 - App Development
 - Innovation
- Benefits of Sandboxes
 - Prototyping and Testing
 - Education and Training
 - Standard Compliance
 - Collab



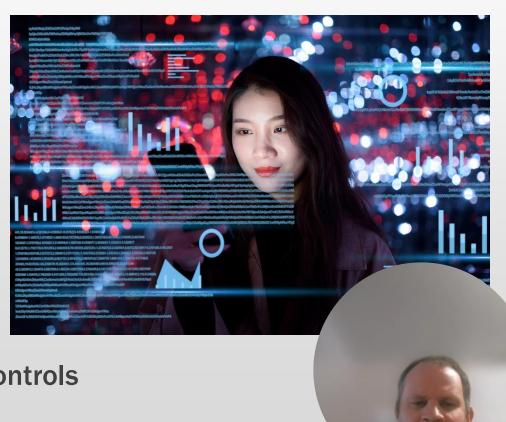




Trends of Interoperability in Healthcare

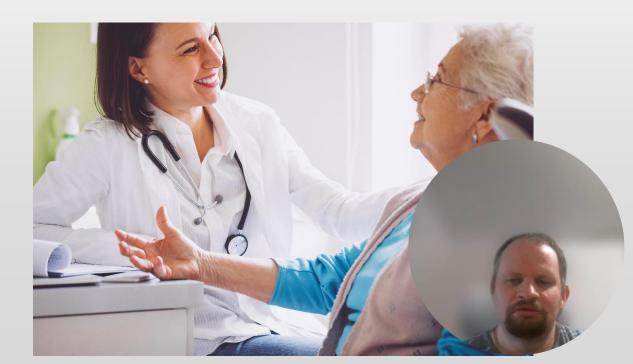
- 21st Century Cures Act and Patient Access to APIs
- Data integration and aggregation
- IoMT
 - IEEE 11073 and IHE
- Clinical Decision Support
 - Point of Care

- Secure Data Exchange and Privacy
 - Messaging Protocols, encryption, and access controls



Interoperability Opportunities in Healthcare

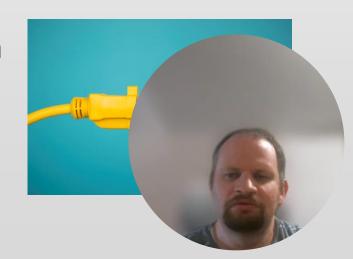
- Improved care coordination
- Enhanced Patient Engagement
- Aggregation and Analysis of Large Datasets



Interoperability Threats in Healthcare

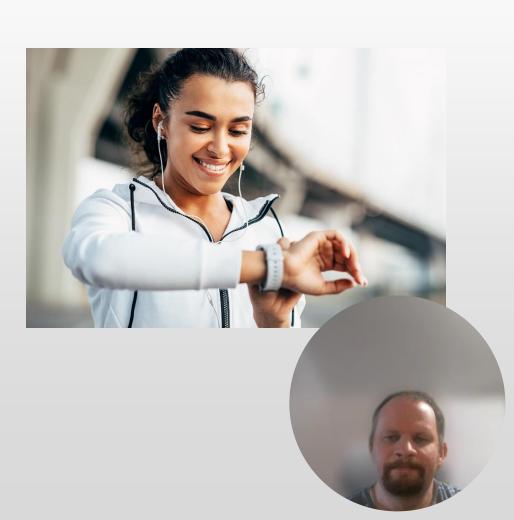
- Data Privacy and Security
- Information exchange between disparate systems
- Technical Barriers
 - Incompatible Data Standards
 - Differing System Interfaces
 - Variations in Data Capturing Practices
- Resistance to Change, Awareness, Stakeholder Buy-in





Cotiviti's Explorations

- QHINs
- Access of COBs to patients
 - Easy to understand
 - Patient Empowerment
 - Patient Centered Dashboard Design
- IoMT Technology
 - Fraud Waste and Abuse of Devices, Rx, etc.



Block Chain Technology

- Originally used for bitcoin
- A perspective technology for IoMT Tracking
 - Secure
 - Collaborative

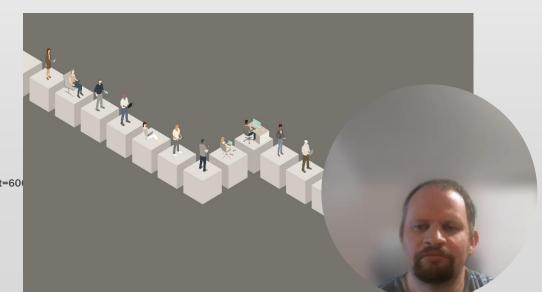
Way to monitor against claims to determine proper use of medical

devices

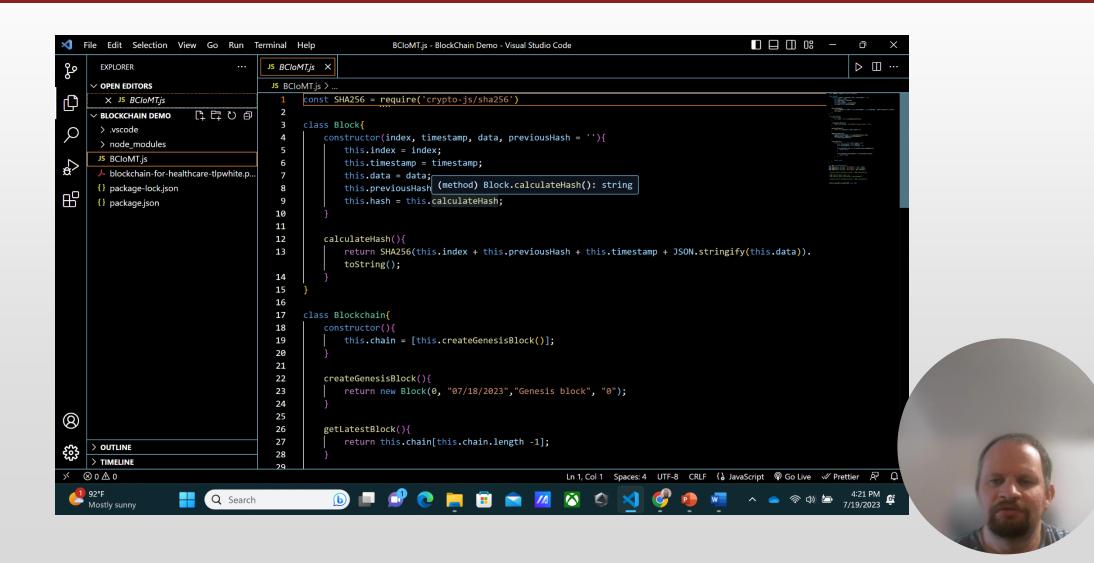
• ie. CGM, BP

https://www.youtube.com/watch?v=SSo_ElwHSd4

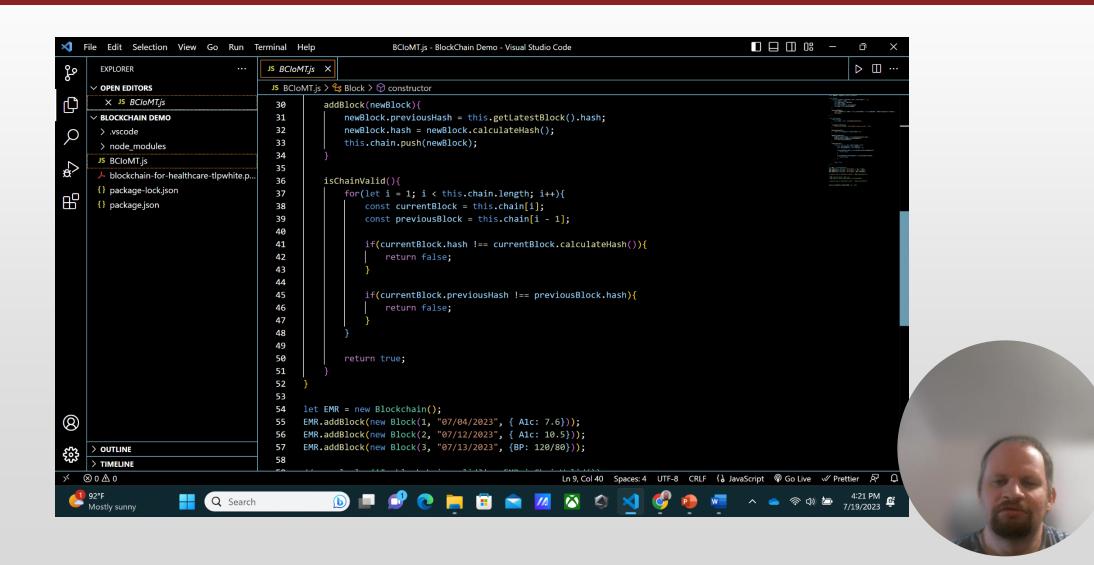
https://www.youtube.com/watch?v=zVqczFZr124&list=PLU5Yn2kbD2-__keY75aBKkH5FmRRn_fE9&index=1&t=60



Block Chain Demo Code



Block Chain Demo Code



Block Chain Demo Code

