Next Generation Data Commons

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The last generation...

Data Extraction
- Millennium Data
- Third Party Billing (When Available)

Health Facts® Aggregation and Normalization
- Data Cleansing
- Data Standardization
- Concept Normalization

De-identification
- De-identification per HIPAA standards and also applying safe harbor methodology

Data Marts
Large but static…

- 73 Million Patients
- 768 Contributing Facilities
- 75 Contributing Systems
- 5.1 Billion Lab Results
- 6.3 Billion Clinical Events

Key Conditions
- 19 Million Hypertension Encounters
- 6 Million Atrial Fibrillation Encounters
- 4 Million Asthma Encounters

West
- 177
Midwest
- 176
Northeast
- 146
South
- 269

73 Million Patients
5.1 Billion Lab Results
6.3 Billion Clinical Events

768 Contributing Facilities
75 Contributing Systems

4 Million Asthma Encounters
19 Million Hypertension Encounters
6 Million Atrial Fibrillation Encounters
"Pop Health Management" as an informatics lever

Connect the continuum

Empower people, care teams, and organizations

Facilitate knowledge-driven care and continuous learning

... to move from reactive care to proactive health.
Aggregate and normalize

Create and apply intelligence

Act and measure
HealtheDatalab ecosystem

Anonymization or De-identification

Physical storage

Role-based access control

User tools
"Commons" Architecture

Incorporating data beyond a single organization

- Scale for significance
- Rare disease
- Comparative research and best practices
- Disease and clinical trial networks
- Cross-organizational grants and initiatives
Social Responsibility, Privacy and Data Protections

Data Liquidity
- Interoperability
- Open standards
- API access
- Permissive business models

Secure
- Physical, network, software
- Business agreements
- NIST, FedRAMP, CMS-R

Consumer Control
- Personal health records
- Proactive opt-in
- Consumer access controls
- Minimize consumer burden