Building a Fully Integrated Longitudinal Patient Record:

How Payers are Leveraging the "Data Lake" Concept to Meet Interoperability Requirements and Advance Their Strategic Goals

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We are a network of health care professionals addressing the challenges posed by the emerging landscape of value-based care and government health care reform.

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The data generated in the healthcare industry increases by 48 percent every year. The amount produced in 2020 alone could exceed 2.3 zettabytes, or 2.3 trillion gigabytes. That's the amount of data it would take to watch 262 million years straight of HD movies. This tsunami of data, along with industry inefficiencies, make healthcare ripe for digital innovation that will enable stakeholders to transform the rich amounts of disparate and siloed patient data into insightful and actionable data across the continuum."

Healthcare Data Lake Design – How did we get here?

Payers have historically operated in in a loose, disparate patch work of different operating systems that typically did not speak to each other – a patient-centered, holistic view of the patient is not common and yet greatly needed given the current cost, regulatory and analytic demands.

Operating Processes

 Siloes across payers are still pervasive with different data models/ taxonomies, data inputs and governance

Patient-Level Analysis /Insights

 Creating patient profiles that link different payer segments (member services, care mgmt, Quality, etc.) is very cumbersome and fraught with error

Technology Considerations

- Typically data access tools are inconsistently applied
- Data center, data storage approaches are typically not very scalable, extensible
- Overhead to manage data, permissions, operations is high



Healthcare Data Lake Design – Breaking it down

A holistic approach that includes engaging the right stakeholders across the payer landscape from "data in" to "data consumption" – ensuring the solution is patient-centric, scalable, extensible and secure.



THE RISE ASSOCIATION Creating a cohesive member experience starts with cohesive, comprehensive data powering technologies that improve health plan accessibility, responsiveness and personalization.

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Why a Data Lake?

Common Clinical Data Challenges

- × Dependence on claims data, which is limited and lagged
- Data is siloed within teams or systems without a single, comprehensive source of truth
- Novel sources of data require new skills and technologies to curate and integrate
- Existing data platforms designed for administrative data; may require extensive retrofitting or new build
- × Applications exist across wide range of business functions where decision making is often siloed

Desired Future State

- Integration of traditional and novel data sets to create comprehensive, accurate, timely view of the member
- Consistent data set feeds all downstream applications and analytics
- Meets regulatory/audit requirements for use across business functions (HEDIS, risk adjustment, UM)
- Accelerate value realization to support investment
- ✓ Flexible foundation that can adapt in dynamic environment

Multiple Business Applications for the Data Lake

Care Management



- Create a "single source of truth" data source to define program qualification for array of care management programs
- Develop reports to identify highest value CM/DM programs for member enrollment
- 3
- Provide case managers and call center staff with integrated Rx data to facilitate targeted member outreach



- Provide care gap data to care management team for inclusion in discussions with members and QIP development
- 5 Equip care managers with access to real-time clinical data to proactively intervene to prevent avoidable ED visits, hospitalizations, etc.
- 6 Identify members most likely to actively engage in care management plans to support targeted outreach

7

Furnish care managers with real-time notifications of inpatient admissions or POC transitions to improve care transitions

Quality & Risk Management



Evaluate clinical data to ensure formulary design is supporting, not hindering, improvements in HEDIS, STARS, and member outcomes



- Pull diagnosis codes and charts directly from EMR to identify gaps to improve efficiency and risk score accuracy
- Leverage clinical data to identify populations or diagnoses that may be underreported for risk and quality programs

Pharmacy

- 8 Reduce prior authorization volume by sourcing critical provider information from CCDs
- 9 Monitor physician prescribing patterns to identify positive prescribing approaches and red flags
- 10 Monitor opioid prescribing patterns to identify potential patient safety issues and FWA detection
- 11 Evaluate prescribed Rx versus filled to monitor outcomes and inform formulary decisions

Provider Network



Extract provider data to enhance current performance benchmarking and develop new clinical outcomes measures



Evaluate provider data to determine network performance gaps



- Leverage performance gap data to inform networking decisions (identify providers to include/exclude from networks)
- 18
- Track PCP referral patterns to identify referrals to high-value or low-value specialists



Integrate meaningful clinical outcomes into provider report cards



Monitor provider treatment patterns to ensure they are following evidence-based protocols



Evaluate member care-seeking patterns for us in benefit design, network, and quality initiatives

Healthcare Data Lake Design – Approach for Success

Inovalon and BSC worked with BSC subject matter experts to understand how BSC teams' currently use data, the value of having access to clinical data and other data resources, and innovative uses of new data that could transform BSC's business and clinical operations.



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Step 1

A total of 72 Use Cases were identified across 10 business operating units

• A full list of all original Use Cases can be found in the Appendix of this report

Step 2

A subset of 21 Use Cases were highlighted based on the length of time needed to implement and impact on BSC business goals

• Slides 6 and 7 describe the Use Cases prioritized using the speed-to-value construct

Step 3

Inovalon prioritized a list of 12 Use Cases based on the value to the business and ability to implement the functionality by the end of Q1 2020

• These Use Cases are described in slides 8 - 20

Healthcare Data Lake Design – Approach for Success



Key Considerations

- Quick-impact opportunities exist in the quality/risk adjustment and pharmacy activities
- Care management activities have universally high value but will take longer to implement due to (1) reliance on clinical data from more sources; (2) desire for more real-time functionality which will take time to build; and (3) need to integrate data into clinical workflows
- A staged approach for implementation may be considered for some use cases

CMS Interoperability Rule: How will Payers approach the 2021 mandates?

□Top-down, mandated "Use Cases"

- More than just a technology play how are Payers approaching this holistically
- How can a healthcare data lake be leveraged to meet the requirements?
- What technical and SME expertise is required (i.e. FHIR)?
- How does this model be leveraged to improve Payer-Consumer engagement?
- How can the 3rd party, provider and payer authentication and data exchange approach be further leveraged by a Payer?



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We don't have to engage in grand, heroic actions to participate in the process of change. Small acts, when multiplied by millions of people, can transform the world.

HOWARD ZINN

from You Can't Be Neutral On a Moving Train

Questions?

Presented By:



Thank you

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