AYASDI Care

Ayasdi Care™ for Clinical Pathways. Practice evidence-based medicine while enhancing provider efficiency.

The Problem

Care providers today are faced with the challenge of creating effective clinical pathways that are in tune with their current patient population. The process of creating a clinical pathway requires the consensus of many physicians on a pathway that has been constructed using results of studies done in various environments on a variety of patients.
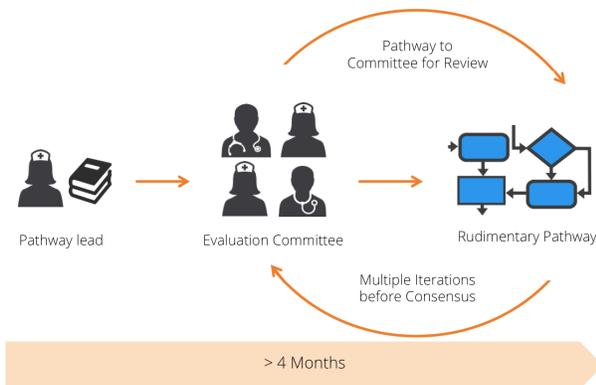
The Solution

Ayasdi Care provides a data-driven solution to creating and modeling clinical pathways. This application allows physicians to quickly create clinical pathways based on their own patients' EMR data, and utilizes their own medical knowledge to enhance these pathways.
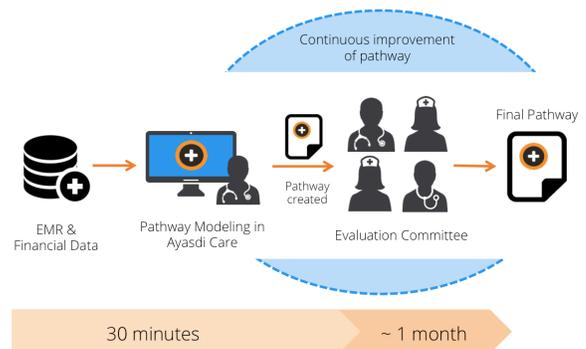
The Ayasdi Impact

- 5% direct variable cost savings per clinical pathway

- 2x reduction in time to create clinical pathways

- 20% higher annual clinical pathway adoption

The Traditional Method

Pathway to Committee for Review

Pathway lead

Evaluation Committee

Rudimentary Pathway

Multiple Iterations before Consensus

> 4 Months

The Ayasdi Method

Continuous improvement of pathway

Final Pathway

Pathway created

EMR & Financial Data

Pathway Modeling in Ayasdi Care

Evaluation Committee

30 minutes   ~ 1 month

Improve Patient Outcomes

BETTER PATIENT OUTCOMES

Outcome-based medicine requires clinicians to keep a closer eye on the subtleties in patient care that make a difference. Ayasdi's topological framework extracts subtle signals from complex EHR data to create a clinical pathway that takes all variables into account when predicting an outcome.

YOUR PATIENTS, YOUR DATA

Clinical pathway creation today relies on combing through peer-reviewed studies to ascertain which components should be added into the pathway. Ayasdi Care ingests all of the patient and financial data from your provider ecosystem to deliver a completely data-driven pathway.

> "Ayasdi is the opposite of hypothesis. It approaches the problem backwards by first finding the most important things I should be working on."
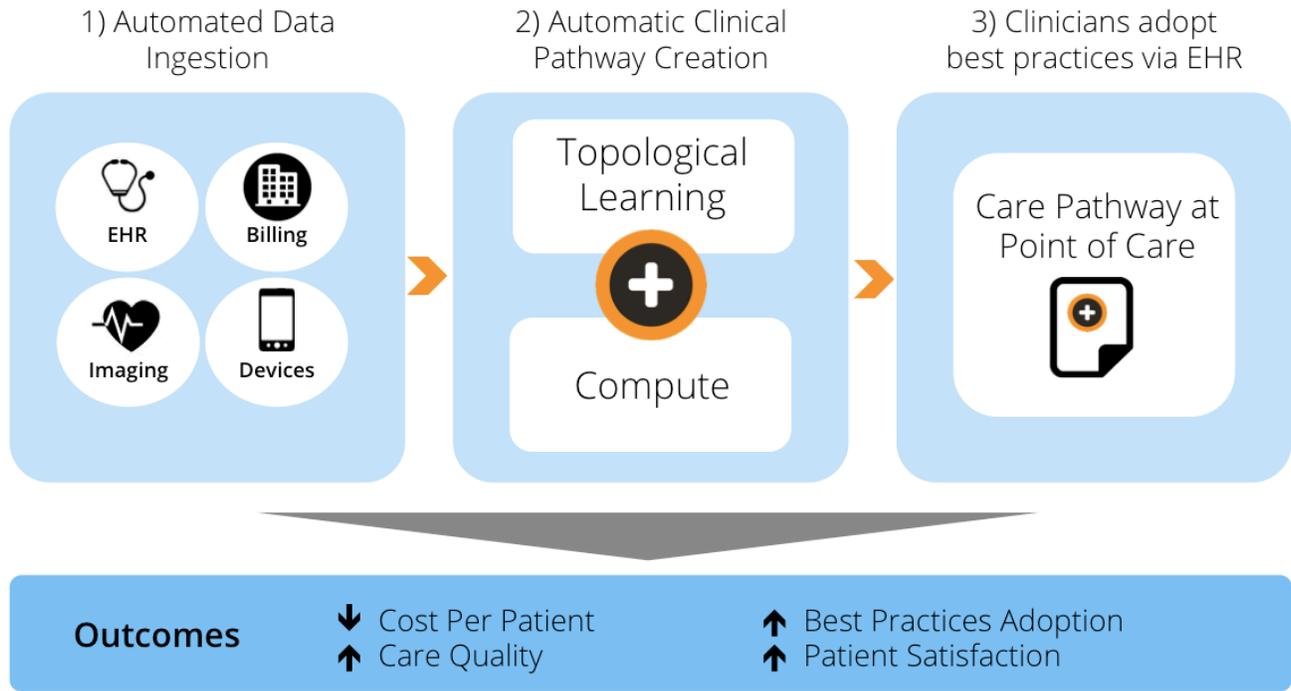>
> – SVP Operations
> Ayasdi Care Customer

IMPROVE PATIENT SATISFACTION

Ayasdi Care makes it possible to treat more patients with a more personalized model. Incorporating several modalities from EHR data allows physicians to create pathways that are more in tune with their patients, making them feel engaged and more likely to continue to visit the same physician again.

Increase Operational Efficiency

INCREASED OPERATIONAL EFFICIENCY

Clinical pathways can take 4-6 months to create and evaluate with a committee of physicians. Ayasdi Care's fast, automatic method of pathway creation takes human bias out of the equation, allowing physicians to interactively amend the pathway after the recommendation is generated.

REDUCE READMISSION RATES

High patient readmission rates not only reflect badly on a provider's balance sheet, but they have a negative impact on patient satisfaction. Ayasdi Care can help to reduce readmission rates by identifying subtleties in patient data that inform a more detailed and patient-centric clinical pathway.

> "Ayasdi within minutes identified a key peri-operative step that led patients to ambulate earlier after surgery & return home sooner"
>
> - MD from Ayasdi Care Customer

REDUCE COST, ENHANCE QUALITY

Ayasdi Care takes both cost and outcome into account when creating a clinical pathway. The interactive modeling capabilities allow CMOs and CMIOs to predict outcomes by taking into account the altering price of care. This ensures that the provider is delivering the highest quality care for the smallest cost to the hospital.

AYASDI Care

Leverage Data to Achieve Breakthroughs

1) Automated Data Ingestion

EHR Billing
Imaging Devices

2) Automatic Clinical Pathway Creation

Topological Learning

+

Compute

3) Clinicians adopt best practices via EHR

Care Pathway at Point of Care

Outcomes

↓ Cost Per Patient
↑ Care Quality

↑ Best Practices Adoption
↑ Patient Satisfaction

Ayasdi Care is highly applicable to a variety of use cases across the hospital provider system, from Care to Cost. Our core engine's ability to ingest and analyze various kinds of data makes it ideal for analyzing highly complex EMR and financial data as well, as other variables associated with quality care within a hospital.

INCREASE CARE QUALITY	REDUCE COST PER PATIENT
Population Health	Clinical Profitability
Clinical Pathways	Denials Reduction
Patient Risk Scoring	Device Pathways
Drug Pathways	Readmission Reduction

⊕ AYASDI Care

Key Features and Functions

FEATURE	FUNCTION	BENEFIT
PATHWAY CREATION		
Automated Patient Segmentation	Ability to group patients with respect to the desired outcome.	TDA creates natural groupings of patients in your data
Consensus Clinical Pathway Creation	Advanced algorithms derive the recommended pathway with treatment that leads to the best outcome.	Algorithmic approach to clinical pathway creation eliminates human bias, and allows for a completely data-driven approach.
Data Ingestion	Combine EMR and financial data to feed into the application.	The combination of clinical and financial data allows the physician to have a full view of the patient
ANALYTICS		
What If? Modeling	Interactive predictive modeling allows physician to adjust pathway items, such as medications, to view the impact on the patient outcome.	Remove and add certain pathway components to quickly identify activities that may affect the patient outcome.
Statistical Interrogation	Quickly identify defining features of a patient and care in the data.	Quickly identify individuals in the patient group who may have had unique care components that contributed to a positive or negative outcome.
USER EXPERIENCE		
Longitudinal Visualization	View the entire course of patient treatment and drill down to desired events.	Easily compare patients at a global and granular level and identify outliers easily.
Event Pattern Identification	Visualize patterns of provided care: lab orders, medications, nursing interactions, etc.	Quickly identify the timing and frequency of care activities to determine best practices.
Filtering	Filter your results by patient outcomes and patient medical history.	Utilize your own domain knowledge to interactively model different pathway options.

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