HIMSS GEORGIA Chapter

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Applying Patient-centered Predictions to Reduce Readmissions

Case Study

Learning Objectives

By the end of this session you will be able to:

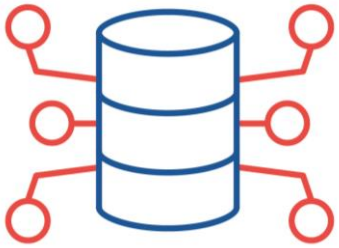
- Describe patient-centered predictive analytics and differentiate between common predictive approaches
- Evaluate their own organizational readiness to adopt patient-centered predictive analytic solutions
- Discuss how patient-centered predictive analytics can fit into current workflows
- Define expected value targets for patient-centered predictive analytic solutions

Patient-centered Predictive Analytics: A Working Definition

Patient-centered Predictive Analytics are:

- Designed to deliver patient-level predictions that support clinical action
- Enabled to deliver intervention predictions to drive engagement and more effectively reduce risk
- Able to follow the patient across the care continuum

Approaches to Enabling Predictions



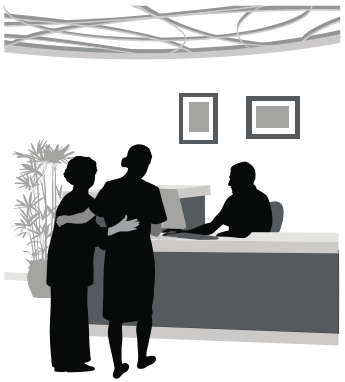
Data Platform	Machine-learning
Data warehouse/lake infrastructure that can take in disparate data and make it available for predictive use cases	Machine learning, advanced predictive software solutions that rely on complex models to predict patient level risk

Applying Predictive Technologies

Community/ Outpatient

Hospital

Post Acute



- Predict ED and IP visits
- Predict rising risk individuals while they are in the community setting
- Predict HAC/Is
- Predict other adverse events

- Predict 30/60/90 day readmissions
- Predict best post acute environment
- Predict optimal length of stay

Case Study – Health First

The goal:

Reduce All-Cause 30 day readmission rate by 10% in <u>one year</u>

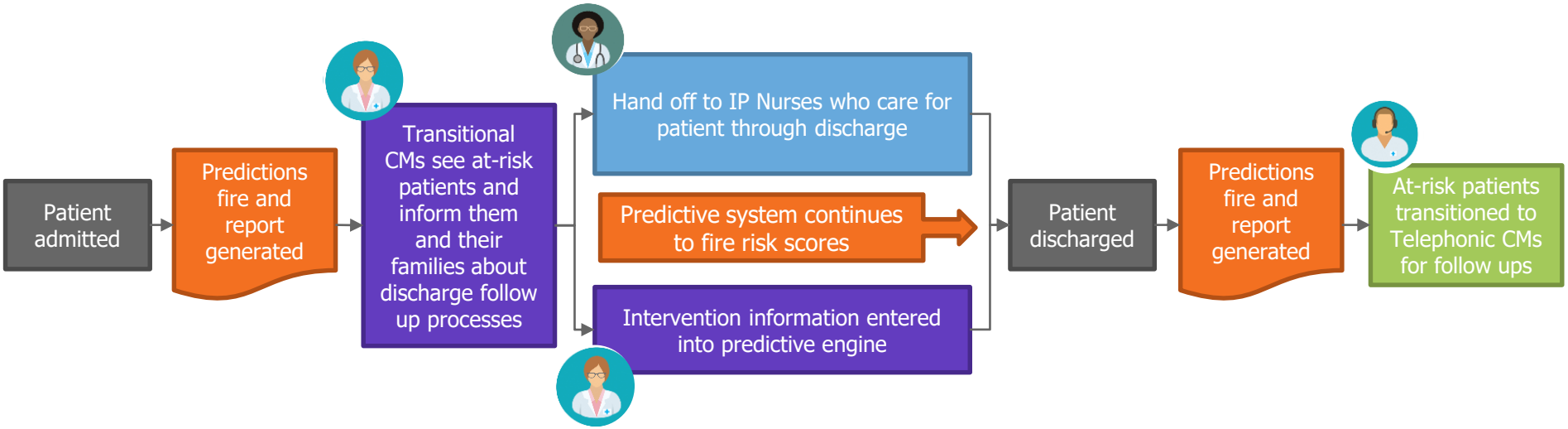
Predictive Analytics in The Workflow

Three groups using our readmission predictions:

Transitional Case Managers

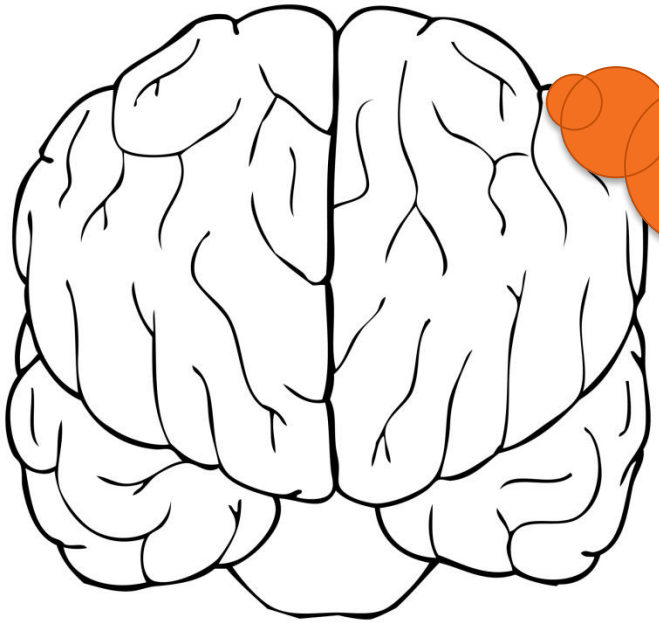
Inpatient Nurses

Telephonic Case Managers



Getting People Engaged

Caregiver adoption is critical to our success. Our solution had to:



- **Easily fit into the clinical workflow**
- **Demonstrate immediate accuracy and effectiveness**
- **Be proven and hold up to scrutiny**
- **Be easy to use and understand**
- **Be accepted by fellow caregivers**

The Hard Dollar Results

In only three months, we:

Avoided more than **$895,000** in costs

Saved more than **443 LOS** days

The Potential Impact

Improved Health & Better Outcomes

- Better Resource Allocation
- Increased Engagement
- Better Intervention Effectiveness
- Decreased Waste
- Increased Patient Satisfaction
- Increased Caregiver Satisfaction

Applying Patient-centered Predictions to Reduce Readmissions

Q&A

Todd E. Schlesinger
Todd.schlesinger@Jvion.com
404-915-5457
www.Jvion.com
#predictwhatmatters