

# Work Smarter to Prevent Readmissions – Point of Care is Key

Using Crimson Real Time to Prevent Readmissions

# **Road Map**



### **Readmission Prevention Challenge**

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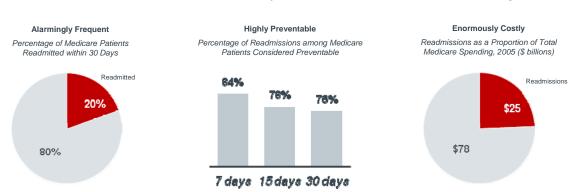
Case Study: Robert Wood Johnson University Hospital Hamilton

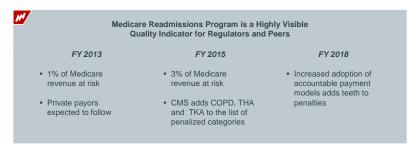
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Conclusion

#### An Obvious Place to Focus

#### Data Show Readmissions Are Frequent, Preventable, and Costly

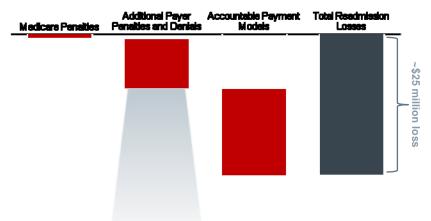




#### Medicare Financial Penalties to Increase Five-Fold from 2013 to 2015 Penalties for Subpar 250 Bed Hospital (\$ thousands) \$1.021K \$598K \$875 \$281K \$572 \$281 **FY13 FY14** FY16 HRRP Madicald Commercial Impact of Penalties **Already Widespread** Hospitals that will 66% face some penalty Total expected **\$280** losses by US hospitals next year million

#### Ultimately, All Reimbursements Attributable to Readmissions Will Be at Risk

Worst Case Future State for a Subpar 250 Bed Hospital



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#### The Ominous Memo in Your Inbox

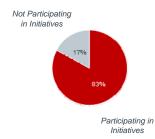
Quote from CFO at Hospital in Ohio

"To be honest, the memo notifying us that our payments for readmissions could be denied by one of our private payers came as a surprise. While Medicare has been relatively slow with its penalty program, private payers can act quickly and unilaterally. The discussion about our changing financial dynamics was certainly a challenging one to have with our board."

# Reasons to Act Go Beyond Payment Penalties

#### The Real End Game is Improved Quality of Care and Financial Outcomes

# The Majority of Institutions Have Already Taken Action

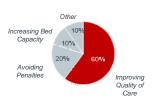


#### **New Care Delivery Models**

- Value Based Purchasing Program
- Medicare Shared Savings Program
- Medicare Bundled Payments for Care Improvement Initiative
- · Accountable Care

#### Care Quality

Primary Motivation to Act



#### Transparency

Increasing Scrutiny from Public Sources

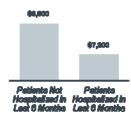
#### The New Hork Times

THE WALL STREET JOURNAL.



# **Capacity Constraints** and Improved Margins

Average DRG Payment



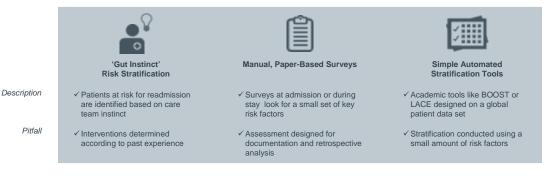
2013 The Advisory Board Cor

# **Key Obstacles Blocking Success**

#### Current Approaches Full of Flaws



#### And Current Solutions Are Insufficient



\$2013 The Advisory Board Comp

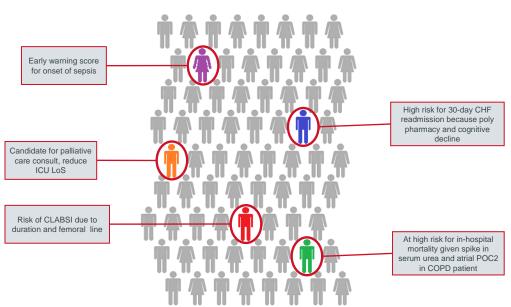
#### Out of Industry Insight Key to Long Term Success

Today, across Many Industries, Predictive Modeling Is Integral to Success



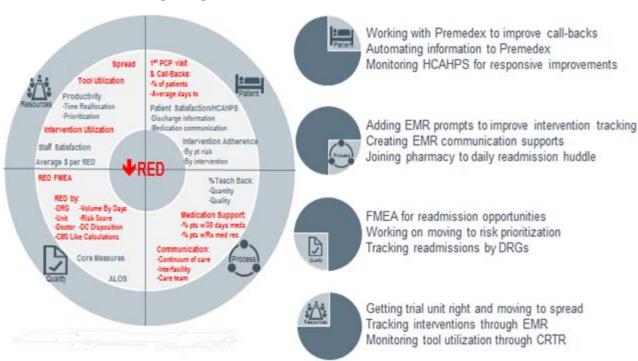
Scaling across patients & outcomes to identify salient risks & interventions

Proactive, Simultaneous Identification of 'Who and Why'



# **Targeting Readmissions Key Metrics**

#### **RWJUHH** is Targeting Crucial Metrics to Drive Success



# **Road Map**



The Readmission Prevention Challenge



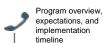
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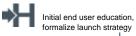
Conclusion

## **RWJUHH Innovation Partner Project Overview**

#### **Delivery Process**



Web-based demonstration, UAT preparation





Intervention planning and implementation, results tracking and reporting

Welcome Call Interventions Workshop

Live Site User Acceptance Testing Pilot Launch Full Launch Performance Improvement



Goal setting, process mapping, readmissions meeting



Data integrity review



Official release of CRTR and integration into care team workflow



#### **Summary of Progress to Date**

- √ Readmissions application live in production since February 2013, expansion occurred July 2013
- √ 41 users have been trained and granted access to the application
- Pilot launched on TeleNorth to explore workflow integration
- ✓ Models validated and heavily utilized by champions on the pilot units

#### **Model Validation (May-June)**

Risk Band	Total Patients	Readmitted Patients	Readmission Rate		
High	85	26	30.59%		
Medium	127	21	16.54%		
Low	212	21	9.91%		
Care teams target 40% of readmissions focusing on 20% of pts					

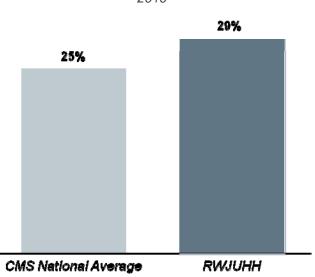
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# Multiple Factors Driving Readmission Reduction

Using the Readmission Diagnostic as a Starting Point

#### **Avoid Medicare Readmissions Penalty**

Heart Failure 30-Day Readmission Rate 2010





# Deliver on Patient Care Mission

Care coordination provides better care, improves patient experience



# Capitalize on Grant Opportunities

Robert Wood Johnson Foundation grant provided additional incentives to address readmissions



#### Mitigate Negative Margin Impact

Already tight operating margins at further risk if readmissions not reduced



# A Team Makes All The Difference

#### **RWJUHH Readmissions Team**



#### Daily Unit Rounds Team



# **Labor Intensive, Limited Impact**

#### Process Workflow Evaluation Reveals Opportunities for Improvement

Before: A Labor-Intensive Risk Identification Process with Limited Impact

Typical Process Prior to Implementing Crimson Real Time



Patient targeted for follow-up based on judgment of nursing and case management: time delay between admission<sub>i</sub>and identification



Case Manager follows up with home health: fragmented data complicate coordination at care transition

Admission

**Manual Chart Review and Prioritization** 

Limited Interventions

Discharge



Case Manager researches patient using information available, faces time constraints and incomplete and siloed information



Multidisciplinary rounds: often do not include all relevant specialties, miss high risk patients



# **Evaluating Our Current Work Against Best Practice**

#### Readmission Intervention Summary

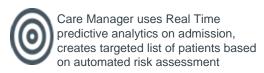
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	NEXT STEPS		Grading Key*
l	lead with why upon admission		A - 80-100%
2	focus on teachbacks		B - 60-79%
3	know high risk readmissions		C - 40-59%
1	ensure PCP appointments are scheduled (and happen)		D - 20-39%

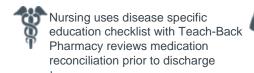
Risk Level	Suggested Intervention	Start Grade		Stakeholder
		Mar 2013*	2013	
Low Risk	Provide disease education	D		nurse
	2. Complete medication reconciliation	A - B+		nurse
Medium	Initiate social work assessment for pyschosocial	D-F		admitting nurse, social
Risk	and financial factors			worker
IVISK	2. Provide disease education with Teach Back	D		nurse
	3. Complete medication reconciliation with	F		pharmacy director and
	pharmacist			Admin
	4. Schedule PCP appointment within 7 days	F		unit secretary
	5. Complete follow up phone call within 48 hours of	F		3rd party vendor
	discharge			
High Risk	Initiate social work assessment for pyschosocial	D-F		admitting nurse, social
Ü	and financial factors			worker
	2. Provide disease education with Teach Back for	D		nurse
	patient and care giver			
	3. Complete med reconciliation with pharmacist	F		pharmacy director and
				Admin
	4. Provide prescription prior to discharge if possible	A		physician, nurse
	5. Consider home care	В		case management
	6. Schedule PCP appointment within 3 days of	F		unit secretary
	discharge			
	7. Call PCP office notifying of high risk IP admission	F		
	8. Schedule outpatient follow up testing	F		n/a
	9. Complete follow up phone call within 24 hours of	F		3rd party vendor
	discharge			

# Implementing Data-Driven Readmission Prevention

#### Intervention Workshop Facilitates Best Practice Adoption

#### **New Process Supported by Crimson Real Time Readmissions**





Warm handoff to home health or transitional care nurse

Admission Case Finding

Targeted Proactive Patient Care for High-Risk Patients

Discharge



Prioritized list of high-risk patients used for interdisciplinary rounds: pharmacy included in rounding



Care team, including PCP, notified of patient readmission risk score in EMR



Unit secretary schedules follow up appointment



Follow up calls in 48 hours after discharge



# Interventions Key to Reducing Readmissions

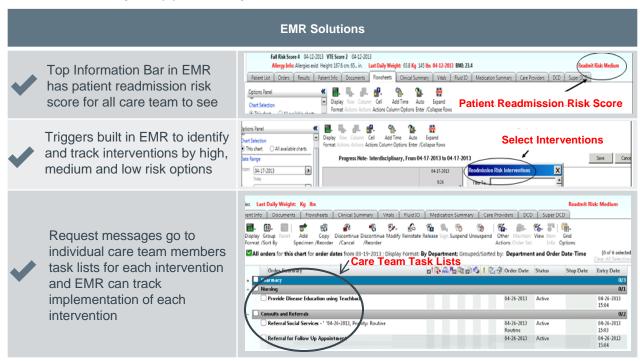
Moving the Grade to Success

Risk Level	Suggested Intervention	Start Grade Mar 2013*	Grade	Grade
			April 2013	May 2013
Low Risk	1. Provide disease education	D	D (Heart Failure A)	С
	2. Complete medication reconciliation	A	A	Α
Medium Risk	Initiate social work assessment for pyschosocial and financial factors	D-F	A	А
NISK	2. Provide disease education with Teach Back	D	С	Α
	Complete medication reconciliation with pharmacist	F	F	С
	4. Schedule PCP appointment within 7 days	F	A	Α
	5. Complete follow up phone call within 48 hours of discharge	F	F	А
High Risk	Initiate social work assessment for pyschosocial and financial factors	D-F	A	Α
	Provide disease education with Teach Back for patient and care giver	D	D (Heart Failure A)	С
	3. Complete med reconciliation with pharmacist	F	F	С
	4. Provide prescription prior to discharge if possible	А	Α	Α
	5. Consider home care	В	А	Α
	6. Schedule PCP appointment within 5 days of discharge (suggested 3 days)	F	А	Α
	7. Place readmission risk assessment score in the SCM header (Call PCP office notifying of high risk IP admission)	F	А	А
	8. Schedule outpatient follow up testing - on hold	HOLD	HOLD	HOLD
	Complete follow up phone call within 48 hours of discharge (suggested 24 hours)	F	F	Α



# **Building the Infrastructure of Accountability**

Accountability Supported by Crimson Real Time Readmissions and EMR

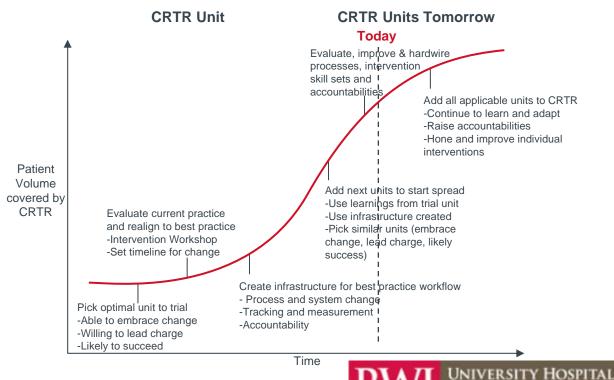




Hamilton

# Lessons Learned and Getting to Spread

#### Reducing Barriers to Change



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# Transition Nursing Services Improve Care for Cardiac Patients<sup>1</sup>

Case Study: Robert Wood Johnson University Hospital Hamilton

#### About the Organization

- · 250-bed hospital in Hamilton, NJ
- · Crimson member since 2010

#### Challenge

- Hospital team recognizes performance gaps for AMI and Heart Failure patients
- Care transition gaps and disconnects recognized as major drivers of longer stays and high readmission rates

#### Solution

- Registered Nurse is hired as dedicated transition coach for AMI and Heart Failure cases
- Transition coach works with patients and families to promote compliance with post-discharge care, with focus on four pillars of care:
  - ✓ Medication management
  - √ Warning signs and symptoms
  - ✓ Personal health record
  - √ Follow-up with PCP

#### Impact

- Over 30% reduction in readmission rate for cardiac patients
- LOS reduction of over 500 annual inpatient days, amounting to \$251k in cost avoidance annually<sup>2</sup>

#### From Discharge Instruction to Patient Education: Four Pillars for Better Care



#### **Medication Management**

- Medication reconciliation
   Promoting patient
- Promoting patient compliance



#### Warning Signs and Symptoms

 Educating patients and families to recognize symptoms and react accordingly



#### Personal Health Records

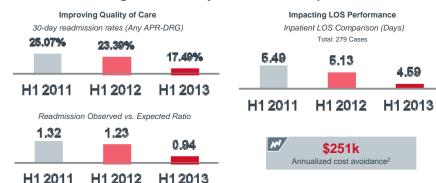
 Educating patients to track and document their symptoms and overall health



#### Follow-Up with Primary Care Physician

- Improve post-discharge follow-up care with PCP
- Promote long-term care plan and improved compliance

#### **Significant Quality and Utilization Impact**



AMI and Heart Failure cases, MS-DRG 280-285, 291-293
 Based on estimated cost of \$500 per inpatient day

RWJUHH data in Crimson, Jan 2011 - June 2013



# **Road Map**



The Readmission Prevention Challenge



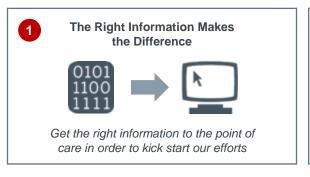
Member Case Study: Robert Wood Johnson University Hospital Hamilton

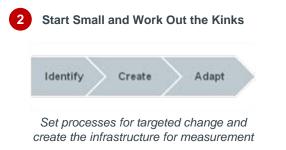


#### Conclusion

# **Key Takeaways from Our Partnership**

#### Moving from Data to Insight









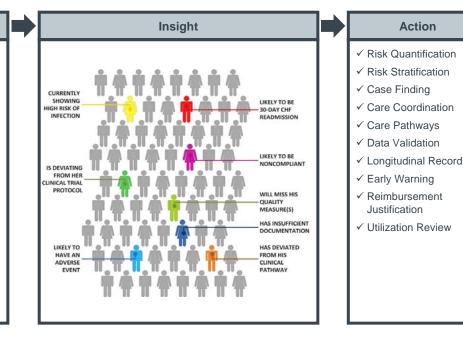
# **Real-Time Tools Support Broader Capabilities**

Real-Time Automated Chart Review and Analytics Transforms Data into Targeted Actions

# EMRs including inpatient, outpatient, and home care Ancillary systems,

Data

- Ancillary systems, including laboratory, pharmacy, and radiology information systems
- Admission / discharge / transfer ("ADT") systems
- Billing and revenue cycle data
- Nonstandard data such as surveys, free text documents, etc.
- An EMR is not required, in full nor partial form. However, access to clinical and operational data is required for higher accuracy



# **Achieving Clinical Cost Reduction**

#### **Delivering "Population Management" Inside the Four Walls**

#### **Automate**



- ✓ Automate chart review for the simultaneous identification of risks across all patients
- ✓ Aggregate data from multiple sources and care settings to ensure a holistic view of patients

#### Predict



- ✓ Pull forward complete patient story, comprehensive patient and "subpopulation" summaries
- ✓ Distill the most salient components of risk for various outcomes

#### Intervene



- ✓ Target specific patients with appropriate interventions to prevent negative outcomes
- ✓ Optimize resource allocation and avoid preventable cost escalation

#### An Invitation to Participate in an Executive Briefing

Explore Methods to Lower Average Cost per Case while Improving Outcomes

- Prioritize patients by risk for various outcomes in real time
- Trigger appropriate intervention based on the granular assessment of dominant risk factors, including psychosocial risks
- Contribute to and draw from an expanding catalog of best practice interventions & outcomes
- Access a growing, comprehensive library of outcome predictions (e.g. Early Warning Sepsis, Readmissions, Complex Case ID etc.)
- Utilize customized workflow support to ensure follow through
- · Leverage "single source documentation" through EMR and/or case mgmt. system integration
  - Demonstrate effectiveness through results tracking

To learn more about Dynamic Clinical Intelligence, please contact CrimsonRealTime@advisory.com

#### **Presenters**



Crimson Real Time



Barbara S. Harvath Senior Director harvathb@advisory.com

#### **ABCo in Numbers**

- √ 3,600+ healthcare organization memberships
- √ 2,200+ healthcare professionals employed
- √ 165,000+ healthcare leaders served by our Research and Insights
- √ \$500+ million realized value per year from our Performance Technologies
- √ 1,300+ engagements completed from our Consulting and Management
- 6,200+ employee-led improvement projects with our Talent Development

# RWI UNIVERSITY HOSPITAL HAMILTON



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#### **RWJUHH** in Brief

- ✓ 287-bed teaching hospital located in Hamilton Township, NJ
- ✓ Part of the Robert Wood Johnson Health Network
- Cancer Institute of New Jersey Hamilton, a cancer center on the hospital's campus
- Malcolm Baldridge National Quality awardee
  - ✓ Outstanding survey by The Joint Commission
  - ✓ Specialty accreditation by The Joint Commission for knee and hip replacement, stroke and diabetes programs

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