

INTEGRATING EMR SOLUTIONS FOR ENHANCED CARE COORDINATION |

A PATIENT'S JOURNEY

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Faculty/Presenter Disclosure

- Faculty: Dr. Chris Hobson, Chief Medical Officer, Orion Health
- Relationships with commercial interests:
 - Grants/Research Support: Nil
 - Speakers Bureau/Honoraria: Nil
 - Consulting Fees: Nil
 - Other: Employee of Orion Health, a commercial EHR software vendor
- No Commercial Support
- Potential for conflict(s) of interest:
 - Dr. Chris Hobson has received salary from Orion Health, a commercial software vendor. Their products have not been discussed in this presentation
- Mitigating Potential Bias
- Orion Health Products are not discussed

Agenda | Care Coordination and EMRs

- John Cardinal | A Care Coordination Story
- Patient-Centric View of Healthcare
- Current State
- Best EMR integration approaches
- Puture Directions



John Cardinal 68 year old male | A Care Coordination Story

- Problems
 - Type 2 Diabetes, date of onset 4/4/2015
 - Hypertension since 2010
 - Acute Myocardial Infarction 10/03/2016
 - Rheumatoid Arthritis, Chronic pain, drug dependency
 - Multiple medications including oxycodone, and frequent encounters with the health system across Toronto.
 - Struggles to comply with medical advice
- Recently seen by colleague with increasing shortness of breath, chest pain and admitted to over -using oxycodone.
 - Admitted for management of unstable angina and developing CHF -NYHA 3
- Review post discharge in the community
 - What is the plan? What about the oxycodone?
 - How do I best coordinate management for the patient and of his team?



Imagine Better Care Coordination

- For care to be better coordinated, it needs to:
 - Be integrated and centered on the patient
 - Provide an up-to-date, shared clinical record and an up-to-date shared care plan
 - Provide real-time alerts and notifications whenever important events happen
 - Enable rapid, reliable communications among care team



Care Coordination Interventions for John Cardinal

- Randomized controlled trials aimed at transitional care interventions (TCI) identified issues that typically face John and his physician:
 - lack of understanding of any treatment plan
 - non-adherence to medical therapy, especially medications
 - unawareness of CHF symptom exacerbation
 - irregular follow-up
- Lack of coordination and communication between hospitalists and primary care physicians (PCPs)
 - PCPs too often do not receive discharge summaries
 - Difficult for PCPs to plan appropriate follow-up after hospital discharge
- High-intensity TCIs reduced readmission risk regardless of the duration of follow-up
- * Reference Ann Fam Med, 2015 Nov; 13(6): 562–571. Department of Family Medicine, McGill University, 5858 ch. de la Côte-des-Neiges, Suite/Bureau 300, Montreal, (Québec) H3S 1Z1 Canada



John Cardinal's Journey Refer to Community Hospital Discharge Provide Patient Care **Planning** Transition to Step Down Care Discharge to Community Coordinator Community Refer to Primary Acute Hospital Hospital Care Team Transition to acute care referrals for specialist care Transition to Community **Patient** Multi Provide patient Provide Care and PCP and PCT care in home settings disciplinary Manage Care Plan Care Team Recommended Software Capabilities Care Coordinator Secure **Shared Care** Referral Patient Lists Coordinate Messaging Plan Tracking **Patient Care** Patient e-Notifications **HRM** Monitoring

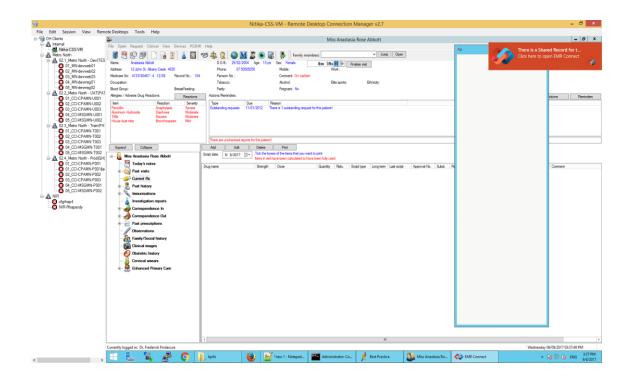


Helping with John's Care Transitions | HRM and e-Notifications

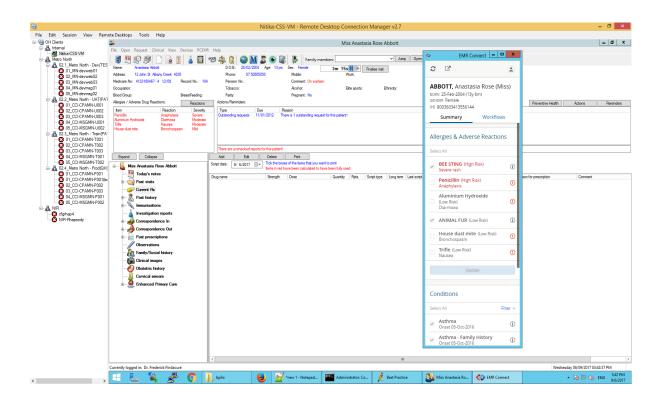
- Tools like HRM (Health Report Manager) and e-Notifications are key
 - HRM delivers documents and imaging reports directly into receiving physician's EMR
 - e-Notifications delivers important patient event notices in the same way
 - Timeliness is vital
- As a near real-time electronic message sent through HRM to primary care providers, e-notifications notifies when patients are admitted or discharged from ED and in-patient settings
- Coordination is improved across the highly critical boundary between primary and secondary care.
- No need for physician or nurse to leave the EMR Hence minimal disruption to workflow
- Care plan is partially automated



But wait, there is more information...



An integrated view of John's information





Future Proofing

- Integration of community systems and the EMR
 - Automation of shared care plans especially follow up tasks
 - More seamless end user experience
- Patient engagement
 - Patient Generated Data is important in motivating patients to engage
 - Devices and IoT
 - Remote patient monitoring
 - Dementia and care of children with chronic disease
- Expect funding to emphasis quality measures and population-based funding
- Robust technology that meets clear needs



John's Journey to Better Care Coordination

- Technology can provide improved mechanisms to efficiently coordinate care so it is:
 - timely
 - appropriate, and
 - contributes to patient satisfaction
- Everyone agrees care transitions are critical point in the system
 - Referrals
 - Discharges
 - e-Notifications
- Team-based care requires "EMR +++"
 - Care plans
 - Patient generated data
 - Coordination tools
 - Integrated with larger ecosystem in multiple ways





QUESTIONS?

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