Improving Safety & Efficiency with Access to Patient Information Across Transitions of Care

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Dr. Debra Hutchinson, Senior Consultant, Stakeholder Engagement June 3, 2015





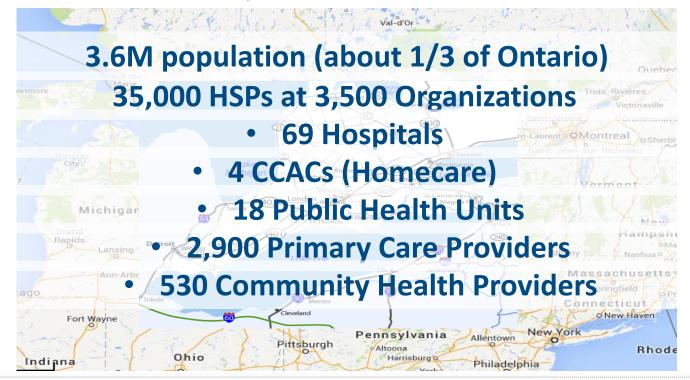
ClinicalConnect Today

- Web-based portal that federates data securely and in real-time from multiple data sources:
 - 61 hospitals (up from 36 hospitals last year)
 - 4 Community Care Access Centres
 - Oncology Centres
 - 2 Provincial Data Repositories (Ontario Laboratories Information System and Diagnostic Imaging Repository)
 - Nursing Assessment Repository
- Available to HSPs in SW Ontario
- Accessible on desktop and mobile devices





CONNECTING SOUTH WEST ONTARIO







The Regional Clinical Viewer

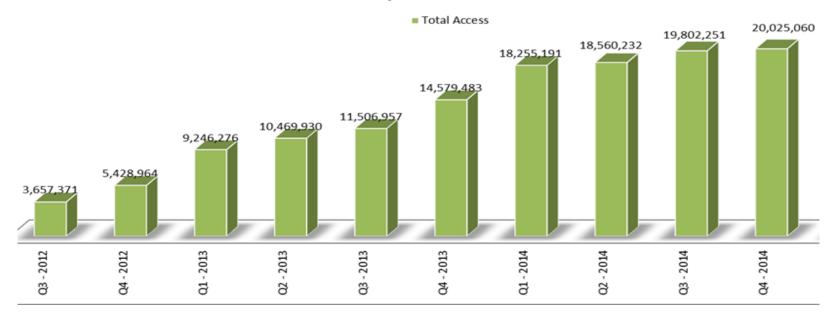
- ClinicalConnect (funded by eHealth Ontario) is the Regional Clinical Viewer for the connecting South West Ontario (cSWO) Program
- Hamilton Health Sciences is the solution provider deploying ClinicalConnect across the four South West Local Health Integration Networks
- The cSWO Program, also funded by eHealth Ontario, is foundational to eHealth Ontario's commitment to integrate electronic health information for all Ontarians





Usage Data

Quarterly Total Access Counts







Usage on Mobile Devices

- 75% of HSPs are less likely to order a duplicate test given easier access to current results
- 70% felt more confident in care decisions with information at their fingertips
- 80% agree mobile devices provide faster access to vital patient info, facilitating quicker consultations, diagnostic testing, interventions and transitions





Change Management Pathway

Governance & Leadership

Stakeholder Engagement

Communications

Workflow Analysis

Training & Education

Monitoring & Evaluation





Expansion Into All Healthcare Sectors

- Attribute increase in usage to:
 - Senior Leadership buy-in and support
 - Communication to all levels / Champions
 - Aggressive change management & adoption
 - Training / Follow-up to increase regular usage
 - New data integrations bring new interest
 - Contextual launch from host
 - Mobile access
 - Continuous improvement to enhance clinical value





Not Standing Still

- ClinicalConnect becoming 'one-stop-data-shop'
 - Context-aware clinical references
 - Alerts to advise providers that new data is available from other source systems
- Leveraging Province's federated authentication system
- Evolving auditing/reporting standards
- Springboard for connecting/supporting many "eSolutions" / Patient Interaction & Experience





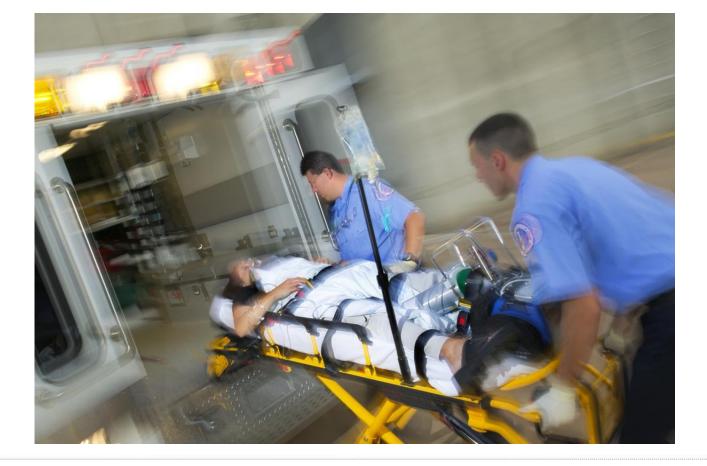
Dr. Rafi Setrak
Site Chief, Emergency Medicine
St. Catharines Site, Niagara Health System





























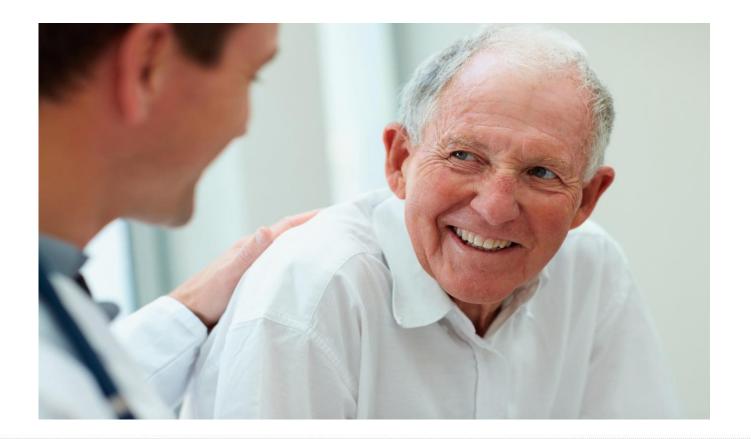














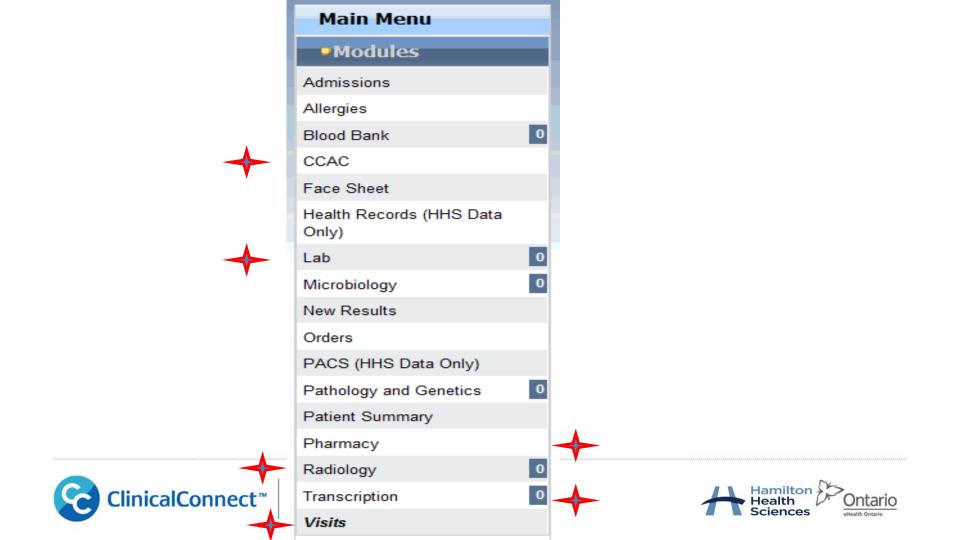


Replay scenario with ClinicalConnect









Preferences						
i i						Displaying 1-17 of 17 to
Account Number	Encounter Date	Discharge Date	Type/Status	Reason For Visit	Principal Diagnosis	Facility ₹
EA000002/14	02/02/2014 12:00	12/02/2014 20:47	IN/DIS IN	MI AND COPD		West Haldimand General
5065271						SW-CCAC
AA000036/14	05/05/2014 09:27	05/05/2014 15:37	IN/DIS IN	FRACTURED HIP		Stratford Gen Hosp
3986255713						OLIS
FB000005/14	01/10/2014 11:00		REF/PRE REF	RIGHT HIP FRACTURE FOLLOW UP	A	Juravinski Hospital
HA000008/14	01/03/2014 16:00	08/03/2014 11:00	IN/DIS IN	ADMISSION FOR RIGHT HIP SURGERY		Juravinski Hospital
HA000009/14	14/01/2014 08:00	24/01/2014 12:00	IN/DIS IN	PNEUMONIA AND CHF		Juravinski Hospital
HE000003/14	01/03/2014 12:00	01/03/2014 16:00	ER/DIS IN	FALL RIGHT HIP INJURY		Juravinski Hospital
1037645						HNHB-CCAC
GA000010/14	16/04/2014 10:53		IN/ADM IN	CLINICAL CONNECT TRAINING ONLY		General
AC000077/09	10/02/2010 11:15	31/12/2010 08:00	IN/DIS IN	TESTING		Cambridge Memorial
AC000126/12	01/12/2012 10:00	13/01/2014 11:41	IN/DIS IN	SICK		Cambridge Memorial
ER000001/12	18/04/2012 14:15		ER/REG ER	ABD PAIN		Cambridge Memorial
ER000013/12	11/06/2012 15:13		ER/REG ER	VOMITING		Cambridge Memorial
ER000042/09	10/02/2010 13:38		ER/REG ER	u TESTING CLINICAL CONNECT		Cambridge Memorial
ER0000030/13	29/10/2013 11:23		ER/REG ER	CONGESTIVE HEART FAILURE		Brantford General Hospital
GI000014/14	05/05/2014 08:30		IN/ADM IN	SOB		Bluewater Health

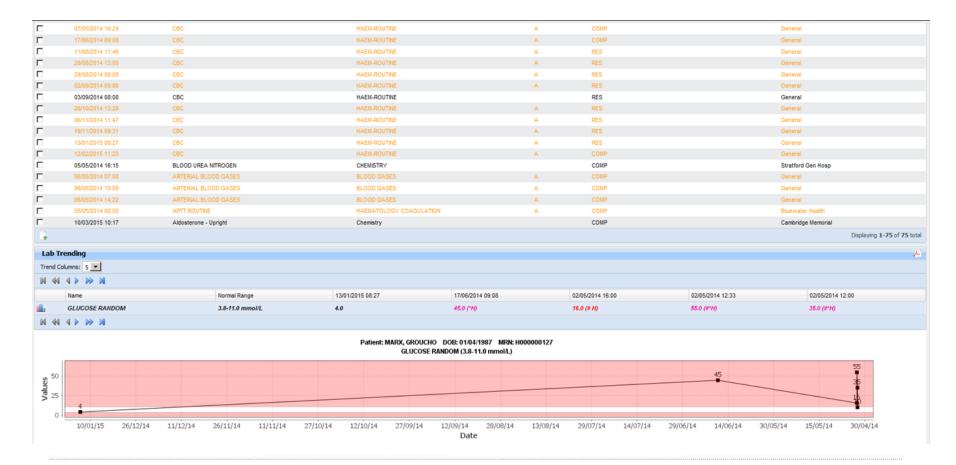




Trend Columns: 4										
Name	Normal Range	28/10/2014 13:31	17/06/2014 09:10	06/05/2014 14:24	03/05/2014 09:00					
LEUKOCYTES	4.5-13.5 x10 9/L	12.0	51.0 (*H)	16.8 (H)	55.0 (*H)					
ERYTHROCYTES	4.0-5.2 x10 12/L	5.00	4.00	4.52	4.00					
HEMOGLOBIN	115-155 g/L	125	145	102 (L)	135					
HEMATOCRIT	0.350-0.450	0.400	0.450	0.450	0.400					
III MEAN CELL VOLUME	77-95 fL	80.0	90.0	85.0	90.0					
MEAN CELL HEMOGLOBIN	25-33 pg	27.0	30.0	30.0	30.0					
IL MEAN CELL HEMOGLOBIN	CONC 310-360 g/L	350	345	320	333					
🚹 RED CELL DISTRIB'N WIDTH	11.5-15.0 %	13.0	12.0	12.0	12.0					
■ PLATELET CT	150-400 x10 9/L	500 (H)	1006 (H)	150	1056 (# H)					
III MEAN PLT VOLUME	7.4-10.4 fL	8.0	11.0 (H)	8.0	12.0 (H)					
ABSOLUTE NEUTROPHILS	1.8-8.0 x10 9/L	5.0	7.0		9.0 (H)					
ABSOLUTE LYMPHS	1.5-6.5 x10 9/L	5.0	10.0 (H)		6.0					
ABSOLUTE MONOS	0.2-0.5 x10 9/L	0.4	0.3		0.5					
ABSOLUTE EOSINOPHILS	0.1-0.3 x10 9/L	0.2	0.1		0.3					
ABSOLUTE BASOPHILS	0.0-0.2 x10 9/L	0.0	0.0		0.2					

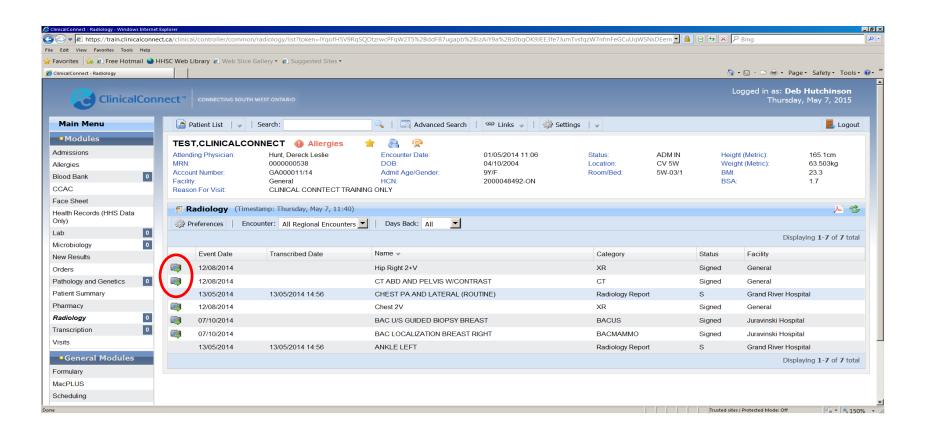
















Date of Admission: March 1, 2014 Date of Discharge: 8/03/14

Most Responsible Diagnosis: Fracture Right Hip Replacement

Other Diagnoses Affecting Length of Stay: COPD, Pneumonia, CHF

Other Diagnoses Not Affecting Length of Stay: Recent MI

Complications of Treatment Arising After Admission: Infection

Operations/Procedures: Fracture Right Hip Replacement

Discharge Medications: Heparin S.C, Tylenol #3, Ventilon, Atrovent

Summary of Visit: major investigation, treatment outcomes: Patient had a fall with a fracture right femur and had surgical procedure to replace total right hip

Discharge Plan: *

Clinical Course: This 67 year old underwent an uncomplicated total Right Hip Replacement . This patient had Pneumonia and recovery and was found to be safe for discharge . They will have their staples removed on post-operative day 14 and return to see me in my Fracture Clinic in approximately 6 weeks.

CCAC was consulted for follow up as well.

Dornalee Europe, MD., FRCP Assistant Professor McMaster University Medical Centre Mentor

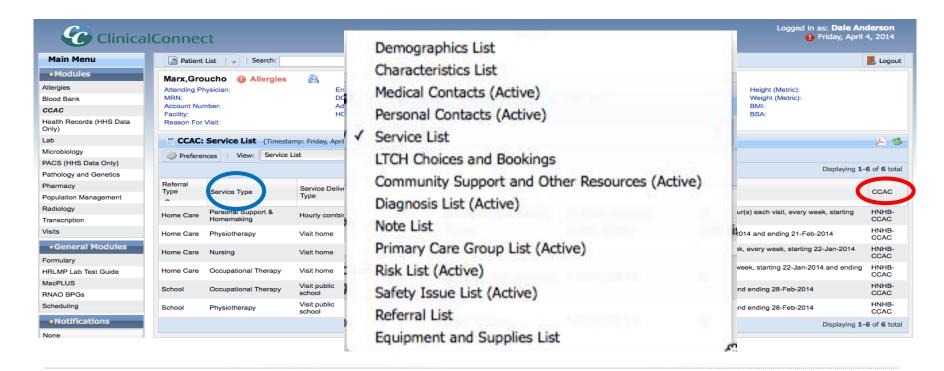
EUROPE:DEU:HR / 06/05/14 / 0605-0004

CC: HEALTH RECORDS, Cicero, Leslie; Europe, Dornalee





CCAC data







Key Benefits of ClinicalConnect

- ✓ Access transcriptions, labs, radiology reports and CCAC information for a more complete patient picture
- ✓ Reduce repeat tests and speed treatment by referencing regional investigations in seconds
- ✓ Less exposure to diagnostic imaging radiation
- ✓ Fewer medical errors since information is electronic





Benefits of ClinicalConnect

- ✓ Reduced cost
 - ✓ Financial, emotional & physical
- ✓ Screen patients from any regional hospital for Infectious Diseases so appropriate precautions can be taken to protect patients and staff.



Benefits...

- ✓ Accurate and concise electronic information to reduce miscommunication
- ✓ Improves patient transition across continuum of care
- ✓ Less reliance on patient and family recall
- ✓ Improve patient safety/quality patient experience
- ✓ Reduce readmissions













Thank You

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