Canadian - Health Outcomes for Better Information and Care (C-HOBIC)

Briefing for IHTSDO Nursing SIG

October 7, 2013

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Agenda

- 1. Introduction to C-HOBIC
 - C-HOBIC Dataset
- 2. C-HOBIC Phase 1
- Objectives
- Mapping
- Implementation
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- 3. C-HOBIC Phase 2
- C-HOBIC Synoptic Report on Transitions
- 4. C-HOBIC and the Discharge Abstract Database

Introduction to C-HOBIC

C-HOBIC

- National initiative to advance the C-HOBIC dataset in Canada
- Funding contributions by Canada Health Infoway and the participating provincial jurisdictions
- Sponsored by the Canadian Nurses Association

Underlying Principles of C-HOBIC

- Emphasis on data for which there is empirical evidence that nursing impacts patient care (outcomes).
- Focus on consistent collection of data electronically at the point of care – to provide *real-time feedback* of information that clinicians can use in planning for and evaluating care
- Avoid duplication Integrate C-HOBIC data capture with existing assessments
- Maximize electronic capture through existing systems work to build these questions into assessments
- Provide access to information for nurses, healthcare managers, researchers and ministry planners

C-HOBIC Dataset

 A set of standardized evidence-based clinical outcomes collected systematically across the health care system

Acute Care and Home Care Measures

- Functional Status: ADL* & Bladder Continence* (IADL* for home care)
- Symptom management: Pain, Fatigue*, Dyspnea*, Nausea
- Safety Outcomes: Falls*, Pressure Ulcers*
- Therapeutic Self-care
- Collected on admission & discharge
- * interRAl measures

Long-term Care and Complex Continuing Care Measures

- Functional Status: ADL* & Bladder Continence*
- Symptom management: Pain*, Fatigue*, Dyspnea*, Nausea
- Safety Outcomes: Falls*, Pressure Ulcers*
- Collected on admission, & quarterly/client condition changes
- * interRAI measures

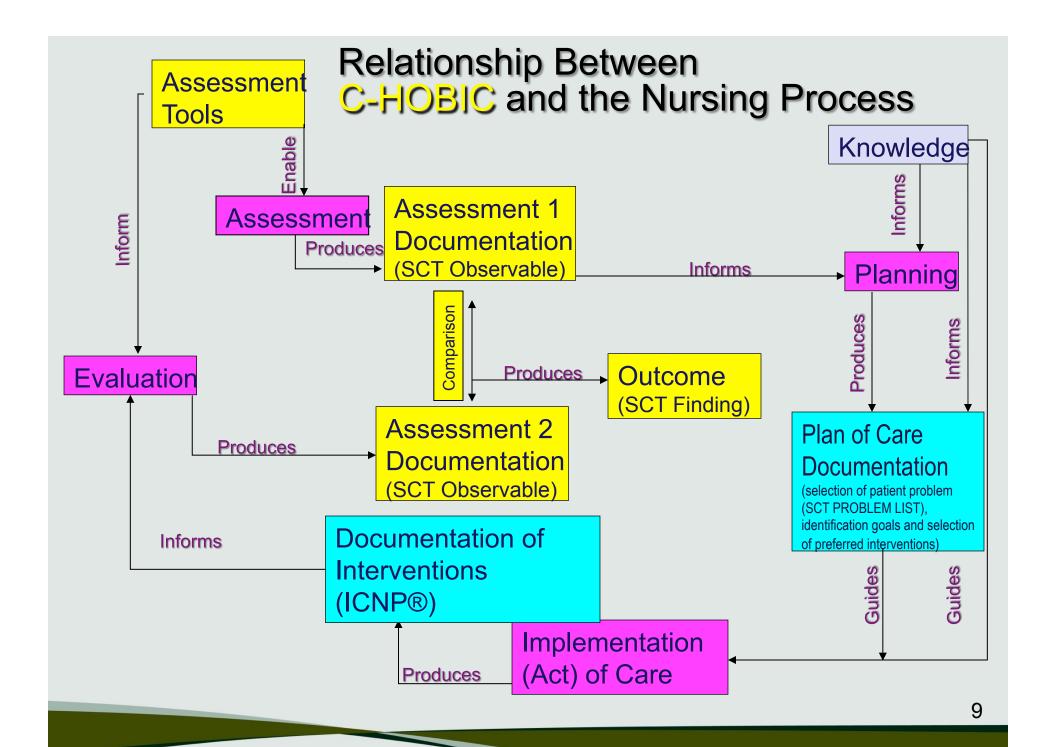
C-HOBIC MEASURES

Category	Sector			
	AC	CCC	LTC	HC
Functional Status (ADL & IADL)				
- Bathing	√	1	V	
- Personal Hygiene	√	√ √	V	
-Walking		$\sqrt{}$	V	$\sqrt{}$
- Toilet Transfer	1	√ √	V	$\sqrt{}$
- Toilet Use	1 1	√ √	V	
- Bed Mobility	1 1	√ √	V	$\sqrt{}$
- Locomotion on unit	1	1	V	$\sqrt{}$
- Locomotion off unit	√	√ √		$\sqrt{}$
- Locomotion in home				$\sqrt{}$
- Locomotion outside of home				$\sqrt{}$
- Dressing				
- Eating	√ √		V	
- Bladder Continence			V	$\sqrt{}$
- Meal preparation				
- Ordinary Housework				
- Managing IADLs				$\sqrt{}$
Symptoms				
Pain - Frequency			V	$\sqrt{}$
Pain - Intensity				$\sqrt{}$
Fatigue	1 1	√ √		
Dyspnea	√ √	√ √	V	V
Nausea	√ √	√	V	
Safety				
Falls	√ √	√ √	V	V
Pressure Ulcer	√ √	√ √	V	$\sqrt{}$

C-HOBIC MEASURES continued

Readiness for Discharge captured in <u>Acute Care and Home Care</u>

- Knowledge of current medications
- Ability to take medications as prescribed
- Recognition of changes in body (symptoms) related to health
- Carry out treatments to manage symptoms
- Ability to do everyday things like bathing, shopping
- Ability to carry out the treatments or activities as taught
- Someone to call if help is needed
- Knowledge of whom to contact in case of a medical emergency



C-HOBIC Phase 1 (2007-2009)

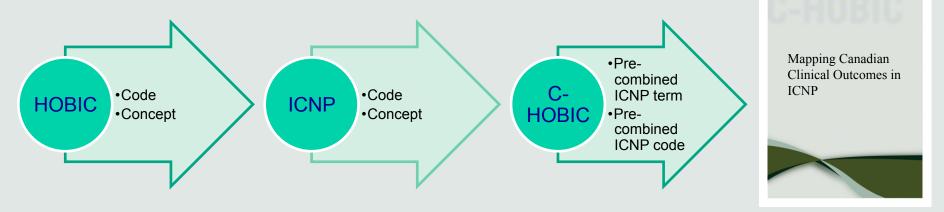
C-HOBIC Phase 1- Objectives

- Standardize the language concepts used by HOBIC to the standardized clinical reference terminology of nursing, the International Classification for Nursing Practice (ICNP®)
- Capture nursing-sensitive, patient-centred, clinical outcomes data across 4 sectors (acute care, complex continuing care, long-term care and home care) sectors of the health system
- Store the captured and standardized data in relevant secure jurisdictional data repositories/databases in preparation for entry into provincial databases/electronic health records

Phase 1: C-HOBIC Dataset

Phase 1: C-HOBIC Dataset – Mapping concepts to standardized clinical terminology (ICNP® V 1)

Conceptual and semantic equivalency



- Consensus meeting
 - Review and validate expert mapping
- Draft report
 - Review and validation
- Final report

Phase 1 C-HOBIC Dataset - Mapping Maintenance (update to ICNP® Version 2)

• With the release of ICNP® version 2 the C-HOBIC concepts were mapped to ICNP Version 2

• Mapping validated by international ICNP® experts and C-

HOBIC team

• Release of International Catalogue on March 6, 2012



C-HOBIC Dataset

- C-HOBIC Dataset formally endorsed by the Canadian Nurses Association
- C-HOBIC Dataset formerly endorsed by the Canadian Nursing Informatics Association
- On January 11, 2012 the C-HOBIC Dataset was approved as a Canada Approved Standard (CAS)
- On April 25, 2012 HOBIC Dataset received Ontario Health Informatics Standards Council (OHISC) approval

C-HOBIC Data Set - Mapping to SNOMED-CT 2012-2013

- Draft document prepared in advance by the UK SNOMED-CT team
- 16 nursing terminology experts assembled in Montreal on June 22nd 2012 - 4 from the International Health Terminology Data Standards Organization (IHTSDO) Nursing SIG, 5 from the International Council of Nurses ICNP® Programme and 7 experts from Canada – first draft of C-HOBIC to SNOMED CT mapping
- Validation of second draft completed May 2013
- Final document to be completed Fall 2013 for submission to SNOMED CT Nursing SIG and Content Committee

C-HOBIC Phase 1 - Lessons Learned

- Lack of devices at the bedside for clinicians to enter information – entering information on paper
- Current clinical information systems do not provide outcomes feedback information to clinicians in 'real time'
- Need nursing leadership to support nurses in incorporating this information into nursing practice
- Information is focused on one sector and does not follow the patient across the system

C-HOBIC Phase 2 (2012-2014)

C-HOBIC Phase 2 Objectives

- Increase clinicians' access to information that is of value to their practice
- Provide access to information across the continuum of care to support quality patient care
- Ultimately increase the productivity of clinicians through the provision of evidence-based standardized clinical outcomes information at the point of care

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CHOBIC Transition Summary

St-Boniface

CHOBIC, test2 MRN: 01501036 05-Feb-1955 Female

SBGH-A7SO-A7027-02 Attending MD: Galimova, Lena Visit: 8001918 DSC

PHIN: 252452345 Reg: 545234524

Language - Rajasthani Interpreter - No

This report provides a summary (i.e. a synoptic report) of the patient's C-HOBIC scores on admission and discharge.

The scores have been normalized to provide a quick visual snapshot.

-HOBIC Scale Name		Admission	Discharge	
ADL Activities of Daily Livit Summary ability to bath, trans 0- independent 3- extensive assistance		feed.	1.24	Incomplete
Bladder Continence - Highe 0 - Continent 3 - Frequently incontinent	r score reflects increasing i 1 - Control with catheter 4 - Incontinent	ncontinence 2 - Infrequently incontinent	3.00	1.00
Pain - Higher score reflects g 0 - No Pain 3 - Severe	reater intensity of pain 1 - Mild 4 - Worst Possible	2 - Moderate	Incomplete	1.33
Fatigue - Higher score reflec 0 - None 1 - Minimal, diminished energ 2 - Moderate, due to diminish 3 - Severe, due to diminished 4 - Unable to commence any	ly but completes normal da led energy unable to finish i l energy- unable to start no	normal day-to-day activities rmal day-to-day activies	4.00	3.00
Dyspnea - Higher score refle 0 - Absence of dyspnea 1 - Absence at rest but prese 2 - Absent at rest but present 3 - Present at rest	nt when performed modera	te activities	1.33	2.67
2 - Moderate nausea: interfer 3 - Severe nausea: interferes	experienced but does not i es somewhat with eating a daily with eating and/or ac	interfere with eating and/or activities and/or activities most days	Incomplete	2.00
Falls 0 - No falls in the last 90 days 2 - One fall in last 30 days		in last 30 days but fell 31-90 days ago more falls in last 30 days	1.33	0.00
Pressure Ulcers 0 - No pressure ulcer 2 - Partial loss of skin layers 4 - Breaks in skin exposing m	3 - Deep c	ea of persistent skin redness raters in skin ged	2.00	2.00
perform everyday activities ar	ledge and ability to take the nd ability to contact someor	eir medications, manage their symptoms and	Incomplete	Incomplete

Confidential Patient Information

Report Requested By: Fradkov, Marianna (Analyst)

Printed From: SBGH-zNonpatient - EPRCIS

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End of Report

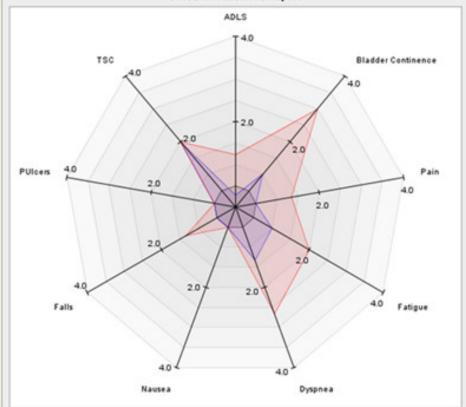
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C-HOBIC Transition Synoptic Report (TSR): **OPTION 1**

	Transitions Report					
	Scale Name Admission		Discharge			
A.	ADL - Activities of Daily Living	1.2	0.3			
В.	Bladder Continence	3	1			
C.	Pain Scale	1.3	0			
D.	Fatique	2	1			
	Dyspnea	2.7	1.3			
F.	Nausea	0	0			
G.	Falls	1.3	0			
H.	Pressure Ulcers	<u>0</u>	0			
L	Therapeutic self-care scale - revised	2	2			

All scale values are normalised (out of 4)

C-HOBIC Transitions Report



- Admission - Discharge

C-HOBIC
Transition
Synoptic
Report (TSR):
OPTION 2

C-HOBIC Dataset and the Canadian Institute for Health Information

C-HOBIC Dataset in the D.A.D.

- Agreement and support for the value of these data being included in the D.A.D
- Support from interRAI for including C-HOBIC DATA in the D.A.D.
- Model with funding requirements developed

The Model: C-HOBIC Dataset in the D.A.D.

- April 2014 2 pilots sites to identify the resources required to submit the C-HOBIC Data to the D.A.D.
- April 2015 other sites that are collecting C-HOBIC Data allowed to submit data to the D.A.D.
- C-HOBIC Dataset part of D.A.D. core submission and available on CIHI portal to support Health System Use

The Vision for C-HOBIC Data

Clinicians

- Improve communication within the team
- Enhance satisfaction by demonstrating measureable results
- Identify how clinical practice leads to improved outcomes
- Shift clinicians from task focused care to 'outcomes focused care'
- Clinical Accountability

Healthcare Executives

- Standardized information for comparative analysis within organizations and health industry benchmarking
- Information to evaluate operational decisions and resource allocation
- Information to identify areas for quality improvement
- Information to support accreditation surveys
- Information to support continuity of care across the continuum

Health Care System

- Information to support results driven patient focused care
- Public reporting measurable results
- Standardized information for electronic health records

Health System Use

- More timely information and better data to address research questions to inform clinical program management, health system management

Patients

- Facilitate communication
- Identify safety risks
- Inform proactive care
- -Determine discharge readiness

Questions Comments

C-HOBIC webpage

http://www2.cna-aiic.ca/c-hobic/about/default_e.aspx