Towards a National Strategy for the Adoption of Nursing Data Standards
Objectives

• Provide an overview of the activities thus far to advance the adoption of nursing data standards in Canada
• Discuss the action plans arising from the 2017 National Symposium
• Provide an opportunity for conference attendees to contribute to the conversation
The Vision

Standardized Data – Collected Once, Used for Many Purposes

- **National**
  - Comparative disease incidence, prevalence, & trends, resource utilization
  - Data Collected, Abstracted, Aggregated, Analyzed
  - Health Policy
  - Legislation
  - Research

- **Regional/Jurisdictional**
  - Disease incidence & prevalence, outcomes, cost of care, resource utilization
  - Data Collected, Abstracted, Aggregated, Analyzed
  - Health Policy
  - Legislation
  - Health System Performance
  - Funding
  - Public Reporting
  - Research

- **Organization/Sector**
  - Case volumes, outcomes, cost of care, resource utilization
  - Data Collected, Abstracted, Aggregated, Analyzed
  - Safety & Quality
  - Resource Management
  - Funding
  - Accreditation
  - Public Reporting
  - Research

- **Individual/CMG**
  - Assessments, interventions, outcomes, provider, hours of care, adverse events, cost of care
  - Data Collected, Abstracted, Aggregated, Analyzed
  - Safety & Quality
  - Accountability
  - Outcomes
  - Evidence

(Nagle & White, 2015)
"If we cannot name it… we cannot control it, finance it, teach it, research it or put it into public policy"

(Clark and Lang, 1992, p. 109)

Imagine having standardized clinical information across the continuum of care...

Capability to analyze health service outcomes on the basis of:

• Diagnoses
• Age
• Region/Sector
• Cost of care
• Skill mix, staff ratios, interdisciplinary team mix

Information to inform:

• Health Care Policy
• Allocation of Resources
• Delivery of Services
• Quality of Care
THE VALUE OF CLINICAL DATA STANDARDS FOR NURSING
Nursing Data Standards Milestones...

• 1992, Edmonton, Alberta meeting
  Focused on building consensus about what to standardize
  • Service location
  • Service provider (registry)
  • Client/Patient Unique identifier
  • Client Status
  • Nursing Interventions
  • Nursing Outcomes
  • Nursing Intensity
• Health Information: Nursing Components (HI:NC)
• interRAI (HC, MH, LTC), NACRS
• Health Outcomes for Better Information and Care (HOBIC) - ON
• C-HOBIC – CANADA (ON, MB, SK), Synoptic reporting
• C-HOBIC mapping to ICNP and SNOMED-CT
• ICNP-C-HOBIC catalogue
• Addition of concepts to SNOMED CT
• National Nursing Quality Report (NNQR-C)
April 2016 & 2017 – National Symposium focused on action plans to advance the nursing national data standards effort
Many thanks to our sponsors for making these events possible!
Symposium Objectives:

Continue the development of a national strategy to promote the adoption of a core set of standardized nursing data. More specifically, to identify:

• short-term objectives and action plans to promote adoption in clinical administration and practice, nursing education and research, and policy domains.

• the stakeholders, accountability and sponsorship for actions to advance this work in Canada.
The adoption of national data standards will:

• Allow for consistent monitoring of outcomes across the continuum of care, thereby facilitating safe, quality care and continuity of care;

• Enable national, peer-group comparability, providing both macro and micro insights to guide decision-making and inform funding requirements and health human resource planning;

• Improve population health by enabling individuals to use consistently named, defined, and measured clinical outcomes data to understand and manage illness and improve their health.
The Value of Nursing-Sensitive Data Standards

- Creates visibility for nursing;
- Supports professional accountability;
- Informs opportunities for quality improvement and the delivery of safer care;
- Advances consistency in and alignment between nursing education and practice;
- Accelerates research capabilities, particularly practice-based research;
- Informs health human resource planning;
- Strengthens local, jurisdictional, and national decision-making.
Dissemination since 2016 Symposium

Presentations:
- eHealth 2016
- Nursing Leadership Network 2017
- Ontario Nursing Informatics Group March 2017

Publications:
- Article in Canadian Nurse Journal November 2016
- Feature article in Canadian Nurse Journal May 2017
- Article in Canadian Health Technology April & May 2017
- Blog on Canada Health Infoway webpage
- E-proceedings from 2016 symposium on CIHI and Infoway webpage

- Webpage on CNA website focused on nursing informatics
- Whiteboard animation – Value of Clinical Data Standards
Our Big Five...

1. Clinical Practice
2. Clinical Administration
3. Research
4. Education
5. Policy
Clinical Practice Working Group

• Identify what we want out of the EHR & for what purpose
• Map clinical standards from Primary Care to Acute care to Home care/Long-term Care & Mental Health and identify gaps i.e., newborn, maternal child, pediatrics
• Provide on-line Community of Practice where clinicians and others can go to find standards information and champions
• Undertake a demonstration initiative – demonstrate value of data standards
• Advocate to vendors:
  • System functionality that aggregates information
  • Systems that are not big box – so that organizations do not have to spend time/resources removing fields
  • Support interprofessional documentation
Administration Working Group

• Establish a nursing management minimum data set (based on the NNQR) and bring to the next level (cross sector, etc.) ensuring a core set of structure, process and outcome measures. These should replace versus add to existing reporting requirements
  • Critically evaluate what standards add value and what can be let go
  • Measures need to support nurses professional accountability and the delivery of safe, efficient care
  • Ensure that direct care nurses are no longer seen as the default source of data collection
  • Establish guiding principles (e.g., keep it simple, document once - leverage many times, ensure relevance to clinical care)
  • Identify opportunities to use plain language to enable the sharable EHR amongst professions, patients, and organizations

• Refine case studies to demonstrate the value of data standards and include resources such as the whiteboard animation, bibliography etc.

• Continue the work of developing informatics competencies for nurse leaders
Research Working Group

• Secure funding for a research planning meeting
• Collaborate with Practice, Admin and Education groups on assessment, development and evaluation efforts
• Establish a research cluster to answer the following question(s):
  • What is the current capacity of standardized terminologies to represent clinical practice?
  • What is the Canadian capacity for conducting nursing informatics research?
  • Who are the individuals involved and what are their self-identified research interests?
  • Who are the graduate students and what is the focus of their research?
Policy Working Group

• Engage key nursing stakeholders in advancing the National Nursing Data Standards, specifically regulators and unions.
• Develop a Briefing Note that articulates the issue, background, assessment and recommendation to use for regulators, union and others.
• Update to Provincial Nursing Advisory Task Force regarding NNDS
• Work to address gap in unique national identifier for providers (all categories of nurse providers) to allow for attribution of care to appropriate provider
  • Follow up with the CCRNR, CCPNR and CFNU Presidents regarding unique identifier
  • Discuss the need for unique nursing provider identifier with the Provincial Nursing Advisory Task Force
• Create a working group leveraging the Canada Health Infoway resources
• Accreditation Canada to recruit patient representation to the group
**Education Working Group**

• **Expectations/requirements & foundations**
  - Conduct School of Nursing and Nursing Faculty informatics survey
  - Identify accreditation requirement for integration of data standards in nursing curricula
  - Identify opportunities to integrate data standards into curricular blueprints & competencies

• **Tools**
  - Leverage Digital Health Faculty Peer Leader initiative
  - Develop case studies for teaching data standards
  - Utilize simulation labs, clinical documentation tools for integration of data standards

• **Advancement**
  - Identify opportunities for CASN faculty development and education in clinical data standards
Next Steps

• Establish working group forums on Infoway’s Infocentral platform to work on Action Plans
  • Clinical Practice
  • Administration
  • Education
  • Policy
  • Research

• Finalize eProceedings

• Follow-up publications

• Presentation at ehealth 2017

• Planning for 2018 NNDS Symposium