

Standards 101

Health Information Exchange Standards Virtual Mini-Conference

Day-2 May19

Linda Parisien, SNOMED CT Manager Canada Health Infoway

About Me



SNOMED CT Manager, National Release Centre, Canada Health Infoway

Background:

- Health Records Administrator
- Certified Terminology Standards Specialists (CTSS)
- Doing a Master of Industrial Engineering Health Systems Engineering option
- Teaching Terminology standards, tooling and interoperability at University of Sherbrooke
- ICD-10-CA and CCI implementation in Quebec
- Translation coordination of SNOMED CT Canadian Edition
- Local, Regional, Provincial and pan-Canadian implementation experience
- Represent Canada on a number of International Work groups and Committees





Plan

- Who we are
- · What services we offer
- The Health Terminologies Standards
- What it means in practice
- What is on the horizon
- How to get involved



About Infoway and The Health Standards Team



About Infoway



- Established in 2001
- Independent, not-for-profit corporation
- Equally accountable to 14 federal, provincial and territorial governments through the Members of the Corporation (f/p/t Deputy Ministers of Health)
- Independent Board of Directors appointed by the Members



Infoway's Mandate



- National leadership role in accelerating collective digital health efforts
- Ensuring a pan-Canadian vision, strategy, architecture and plan
- Ensuring national standards and common understandings about privacy and security



Who We Are

WE MOBILIZE CANADA'S HEALTH CARE STAKEHOLDERS TOWARDS A REIMAGINED FUTURE.



Vision

Healthier Canadians through innovative digital health solutions

Mission

Infoway will bring a pan-Canadian focus to: improving the patient experience, improving the health of populations, and unlocking value for the health system





Infoway Focus

- PrescribelT excellence and adoption
- Pan-Canadian interoperability across all F/P/T health systems
 - o Availability of health data in a common format
 - o Secure exchange of data in health care settings
 - o Access to Canadians' health data in a digital, movable form











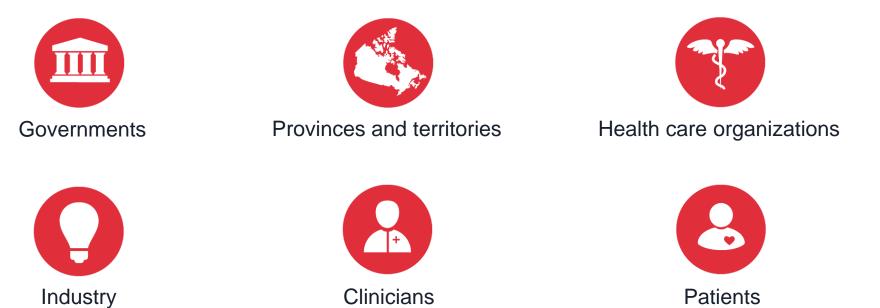








Our Partners and Collaborators



Patients



Benefits from Infoway's Digital Health Investments

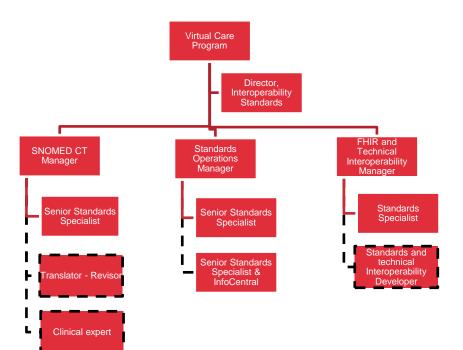


connected health information (e.g., diagnostic imaging, drug and laboratory information systems), point-of-care systems (e.g., electronic medical records, telehealth) and virtual care (e.g., video and secure messages). An increase of **\$7.4 billion** in the past year.





About the Health Standards Team





The Standards Services We Provide



Standards at Infoway







Direct Services to Canadians

Standards Content Development



Licensing and Distribution



SDO Affiliates, Secretariat Support, Ballots, for HL7 Canada, DICOM, IHE Canada, ISO/TC215





Standards Content Development

InfoRMS

Request Management Solution

Infoway Request Management System (InfoRMS) is Infoway's Request for Change (RFC) tool for SNOMED CT, pCLOCD/LOINC[®] and pan-Canadian Subsets. Not sure if you have access to InfoRMS? <u>Manage your InfoRMS Access</u> in your user profile.

termSpace

Collaborative Terminology Authoring

My Inbox > There are -- tasks in the inbox.

The inbox contains tasks assigned to you and to your groups. All your authoring actions can start from the inbox



SNOMED CT Authoring tools >

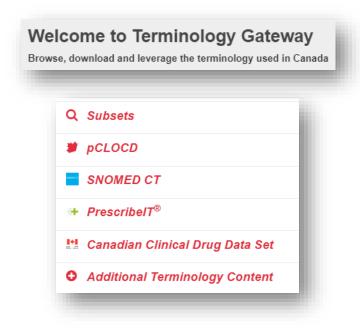
Direct access to authoring tooling. The authoring tools allows you to browse the terminology and perform unstructured edits. All changes will originate new review tasks.



epter 37 da	mber : ays lef	30, 2022 CA E 1	tition SNOMED CT Release Notes attion SNOMED CT Release 30/SED CT
1-20	00 of 4	05	
P	т	Кеу	Summary
	C,	SCT-12726	Industry (qualifier value)
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			Canada Public Health Terminology Dashboard
		O SR-21	
		O SR-21	COMPLETED Add Disease caused by SARS-CoV-2 concept to VaccinePreventableDiseaseCode subse
		O SR-21	4 COMPLETED Add Antigen of SARS-CoV-2 concept to AntigenCode Subset
		1 – 3 of 3	
		Filter Resul	s: COVID-19 pCLOCD RFC
		T Key	Status Summary
		+ PCL-3	350 COMPLETE SARS coronavirus 2 nucleocapsid protein Ab.IgG
		Filter Resul	s: COVID-19 SNOMED CT CA RFC
		Filter Result	Status Summary



Licensing and Distribution







Services to the Communities of Practice

Education & Training



Webinars

Collaboration Groups, Community of Practice

Communications, promotion and social media







InfoCentral: A Collaboration Hub

Working Groups



Communities



SNOMED CT CA/ SNOMED CT

Infoway's Standards Resources for COVID-19 contains regularly updated information on terminology changes in support of the Coronavirus outbreak.

SNOMED CT is the largest and most comprehensive clinical reference terminology in the world



The SNOMED CT Canadian Edition* contains content that is specific to Canadian use contexts and is maintained by Canada Health Infoway. It is released in March and September of each year.

The International Release of SNOMED CT contains international content and is maintained by SNOMED International released on January 31 and July 31 of each year.

Ownload Latest Releases



pCLOCD/ LOINC

COVID-19 Surveillance: Single source for all SARS-CoV-2/COVID-19 LOINC content, includes both released and pre-release terms. Content is updated as new terms are created and pre-released.

Infoway's Standards Resources for COVID-19 contains regularly updated information on terminology changes in support of the Coronavirus outbreak.

LOINC[®] is the largest reference terminology used for Laboratory and Clinical observations in Canada today. The pan-Canadian LOINC Observation Code Database (pCLOCD) is a Canadian constraint of the larger LOINC terminology and includes example pan-Canadian names for jurisdictional lab viewers and recommended units of measure for use in Canada.



pCLOCD releases contains codes that are specific to use in Canada and is maintained by Canada Health Infoway. It is released on March 31 and September 30 of each year.



19

Education

- SNOMED International, Regenstrief Institute, HL7 International
- Infoway ongoing Webinars
- University of Victoria
- <u>CHIMA and CTSS credential</u>
- Training and refresher on :
 - Tooling and Standards
 - Requests for Change and Implementation questions

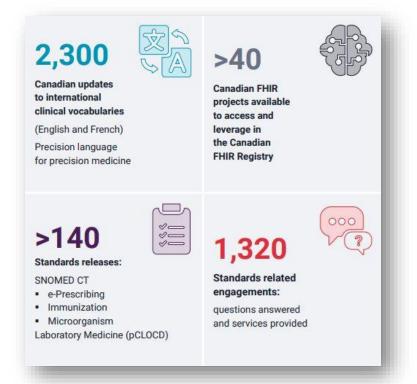








Some 2021-2022 Canadian Interoperability Metrics





Health Terminology Standards

Pan-Canadian constraint of Laboratory LOINC



- Infoway: Canada's National Release Centre for pCLOCD (pan-Canadian LOINC Observation Code Database)
- Largest laboratory terminology in the world
- US English and Canadian French
- Recommended units of measure (UCUM)
- Release dates: January 31 and July 31 each year



pan-Canadian LOINC Observation Code Database Metrics







Canadian Edition of SNOMED CT



- Infoway: Canada's National Release Centre for SNOMED CT
- Largest clinical reference terminology in the world
- US English and Canadian French
- Release dates: Sept 30 and March 31 each year (Canadian and International content)

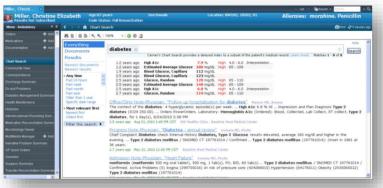


Canadian Edition of SNOMED CT Metrics

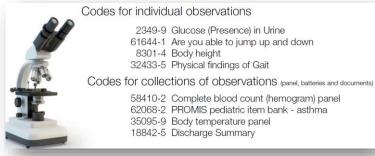




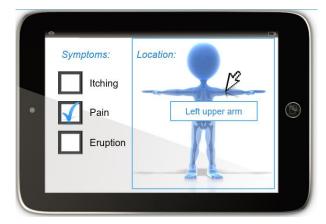
For Data Capture



HTTPS://CONFLUENCE.IHTSDOTOOLS.ORG/DISPLAY/DOCANLYT/12.2.7+CERNER, FIGURE 12.2.7-2: USER INTERFACE OF CERNER'S CHART SEARCH/SEMANTIC TOOL



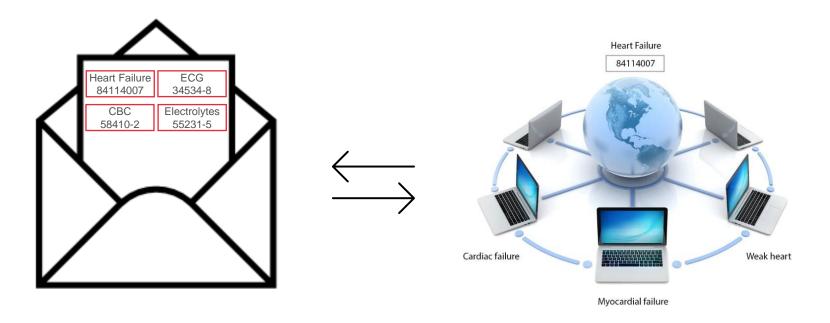
CANADA HEALTH INFOWAY, STANDARDS WEBINAR SERIES, INTRODUCTION TO LOINC & PCLOCD, 2019



SNOMED INTERNATIONAL, SNOMED CT DATA ENTRY, 2016



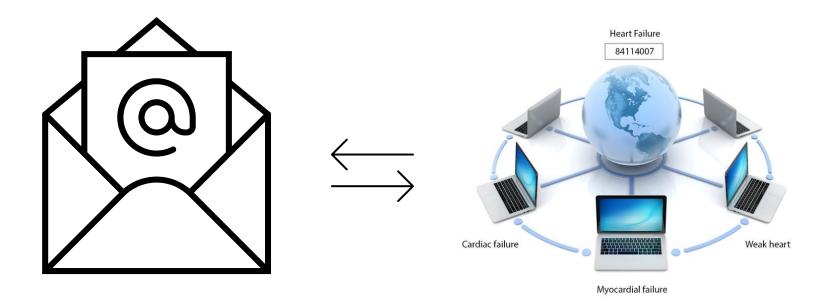
For Sharing Information





HL7 Standards: Digital Information Exchange

FHIR (Fast Healthcare Interoperability Resources)

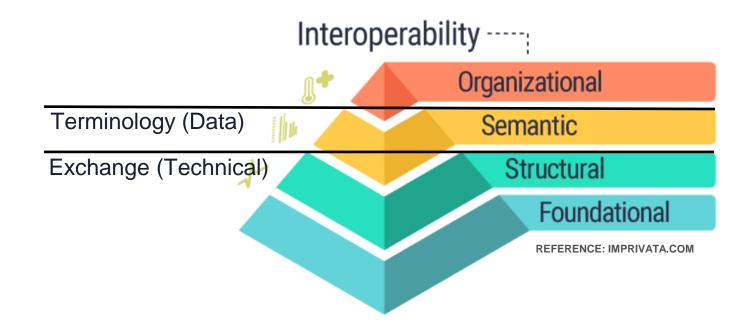


📥 Canada Health Infoway

What This Means In Practice



Standards Type In Interoperability





Lack of Interoperability

Poor communication

Inefficiencies

Duplicated efforts

Delays





Data Driven by Clinical Requirements











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Maturity Level

REFERENCE: HTTPS://CONFLUENCE.IHTSDOTOOLS.ORG/ DISPLAY/IMP/IMPLEMENTATION+MATURITY

nplementation I	
npiementation	
Level 5	Advanced Use
00	SNOMED CT is recorded directly in the health records, and used as an ontology. Support for expressions, expression constraints (ECL) and the Machine Readable Concept Model (MRCM) may be provided.
Level 4	Semantic Network
\bigotimes	SNOMED CT is recorded directly in the health record, and used as a semantic network of relationships with simple ECL queries. All defining relationships may be traversed to support various system functions.
Level 3	Hierarchy
- .	SNOMED CT is recorded directly in the health record, and used as a hierarchy of codes to support various system functions.
Level 2	Simple Code System
≣	SNOMED CT is recorded directly in the health records, and used as a flat list of codes. Support for translated terms or multiple synonyms may also be provided.
Level 1	Mapping to SNOMED CT
₽	SNOMED CT is not recorded directly in the health record. SNOMED CT is used indirectly by mapping to SNOMED CT.
Level 0	Plans to Use SNOMED CT
=	SNOMED CT is not yet used within the health record, but there are plans to do so. Clinical information is currently stored as free text or using local or vendor specific code systems.



The Journey







PrescribelT[®] is Canada's national, not-for-profit e-prescribing service that provides safer and more effective medication management

- Electronic transmission of prescriptions electronically from EMR to the patient's pharmacy of choice
- Create Rx, Renew Rx, Rx Status (dispensed, cancelled etc)
- It is secure: it protects the patients' personal information from being sold or used for commercial activities





Fewer lost/damaged prescriptions



Decreased risk of privacy breaches due to fax transmission issues or unsecured email Improved medication safety



Increased convenience and saved time and travel



Canadian Clinical Drug Data Set



- Canada Health Infoway partnered with Health Canada to create a computable and human readable drug data set that is now owned and managed by Health Canada.
- Allows systems to exchange drug data using common drug identifiers
- Supported by knowledge base vendors and clinical systems connected to PrescribeIT®
 - Making prescribing safer for patients
 - Making clinical workflows more efficient

https://infocentral.infoway-inforoute.ca/en/standards/canadian/ccdd



Patient Summary-CA Specifications



What is it?

- The Pan-Canadian Patient Summary Interoperability Specification is an implementable, testable specification, based on the IHE International Patient Summary specification and HL7 IPS IG
- Defines building blocks (both: data model and interoperability) to create and share conditionindependent and specialty-agnostic patient summaries





Content Data Model



Purpose

- Defines the Patient Summary-CA content data model and provides the required Implementation Guidance
- This section of the specification defines each data element, cardinality, data type, constraints, and code system references - all of the details needed for two systems to be semantically interoperable with each other

Standards

- SNOMED CT CA Edition
- LOINC pCLOCD
- panCanadian Valuesets
- Others





Canadian Implementations

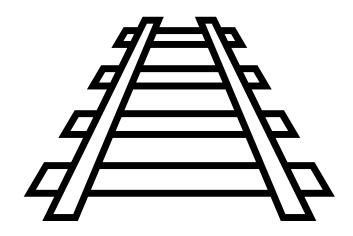


Canada Health Infoway



What is on the Horizon

Virtual Care in Canada



- Strengthening Data and Information
- Health Standards Governance
- Partnerships
- Systems Integration and Collaboration
- Improve interoperability





How to Get Involved



How To Get Engaged And Stay Tuned



Canada Health Infoway InfoCentral



Digital Health Dispatch | Le Babillard de la santé numérique

STANDARDS NEWS

March 2022 Canadian Edition of SNOMED CT is Now Available

The <u>March 2022 Canadian Edition</u> (CA Edition) is harmonized with the SNOMED International February 2022 monthly release. Content includes COVID-19 vaccine related concepts, updated immunization concepts, new French translations, and new concepts requested by Canadian stakeholders to support diverse implementation projects across the country.



Quick links

- InfoCentral: https://infocentral.infoway-inforoute.ca/en/
- PrescribeIT: <u>https://www.prescribeit.ca/</u>
- Virtual Care: <u>https://www.infoway-inforoute.ca/en/digital-health-initiatives/virtual-care</u>
- Organ Donation and Transplantation: <u>https://www.infoway-inforoute.ca/en/digital-health-initiatives/organ-donation-transplantation-data-management</u>
- Health Terminologies Community: <u>https://infocentral.infoway-</u> inforoute.ca/en/collaboration/communities/health-terminologies



Questions?



Thank you!

Standards@Infoway-inforoute.ca

VISIT OUR WEBSITE infoway-inforoute.ca LET'S CONNECT ON LINKEDIN

linkedin.com/company/canada-health-infoway/

VISIT OUR SURVEY WEBSITE insights.infoway-inforoute.ca/ LET'S CONNECT ON TWITTER @infoway