

SNOMED Clinical Terms



- Most comprehensive multilingual clinical terminology
- Supports high quality clinical content in health records
- Increasing number of tools and implementations around the world
 - Used in more than 90 countries
 - Online SNOMED CT Browser <https://browser.ihtsdotools.org/>
 - Examples of deployments <http://snomedinaction.org/>

SNOMED International

A 3D white character is shown as a doctor in a white coat and blue pants, holding a tablet and a stethoscope. The character is standing on a white surface. The background is white. The SNOMED International logo is in the top right corner.

SNOMED International

Broad Scope of Content






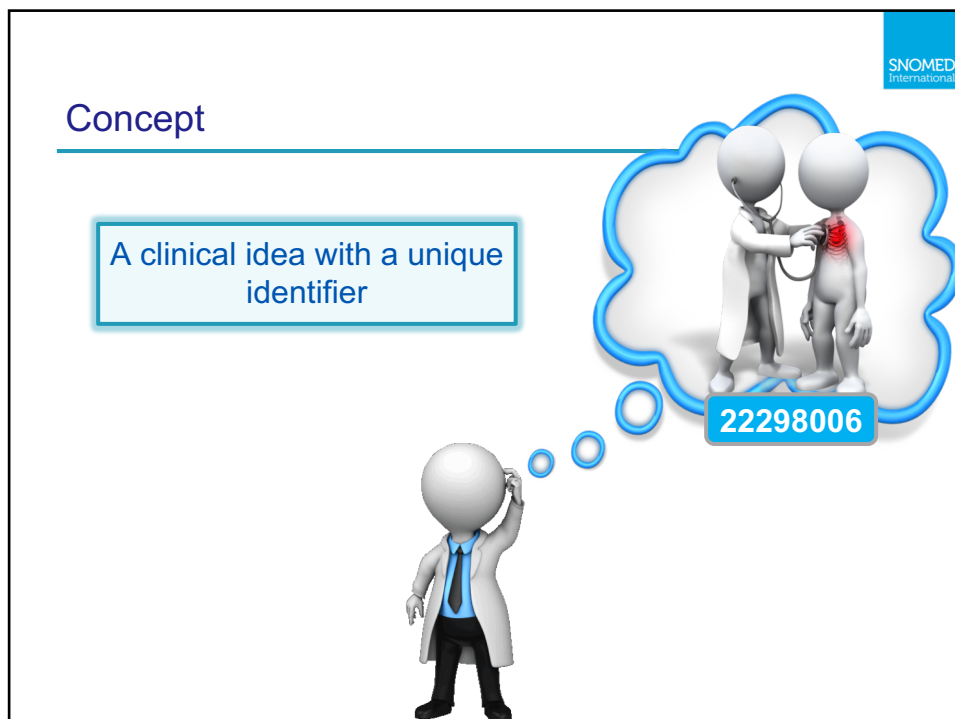
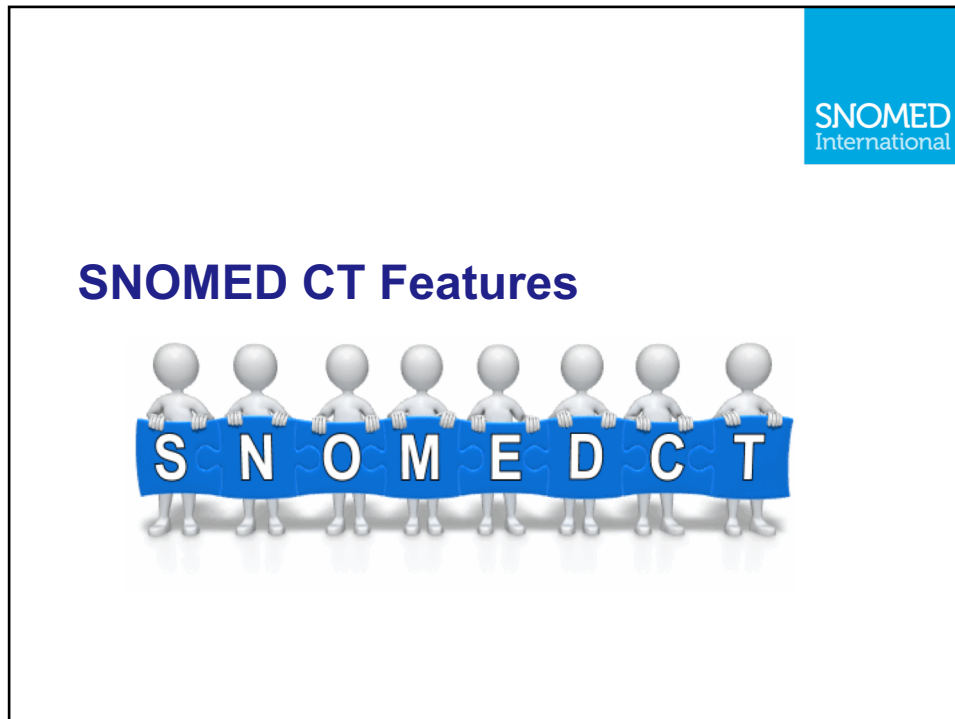
Updated to changes in medical knowledge

SNOMED International


SNOMED CT - History

- First released in 2002
 - By the College of American Pathologists (CAP)
 - Original Content from
 - Earlier versions of SNOMED (CAP)
 - Read Codes (UK NHS)
- Design based on
 - Identified user requirements
 - Practical experience
 - Scientific principles established in peer reviewed publications
- Acquired by IHTSDO (SNOMED International) for the public good in 2007

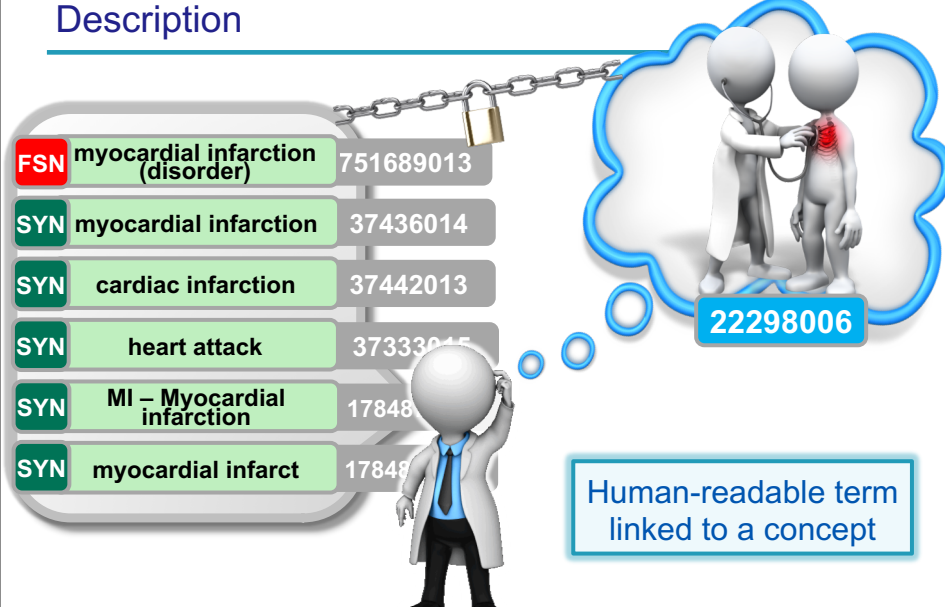





Description




FSN	myocardial infarction (disorder)	751689013
SYN	myocardial infarction	37436014
SYN	cardiac infarction	37442013
SYN	heart attack	37333015
SYN	MI – Myocardial infarction	17848
SYN	myocardial infarct	17848

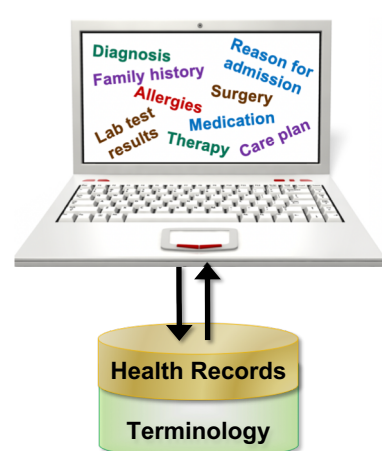


22298006

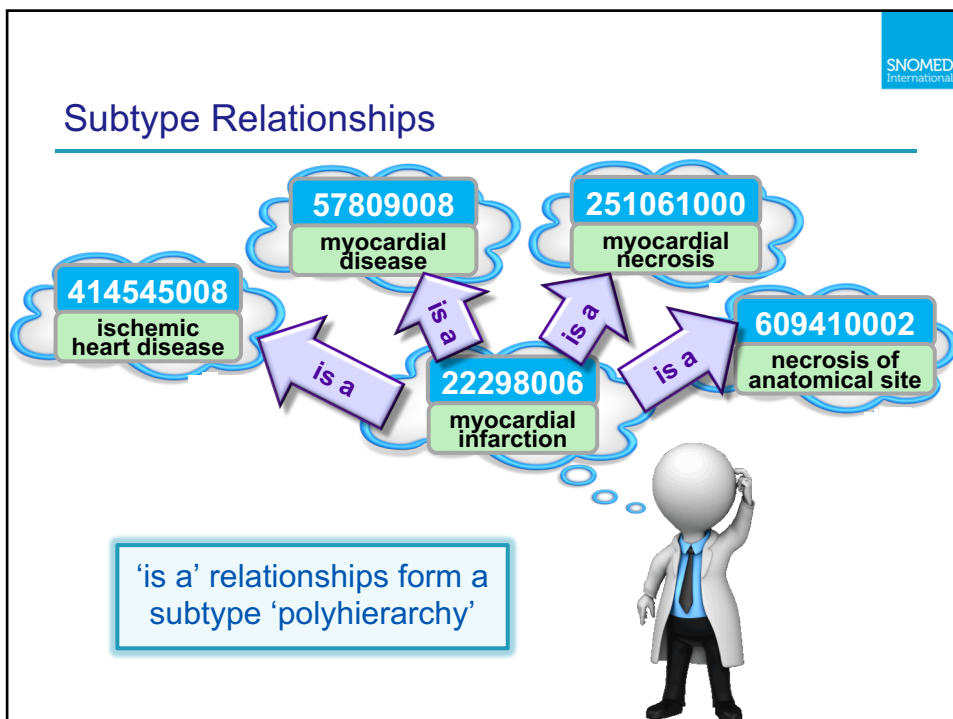
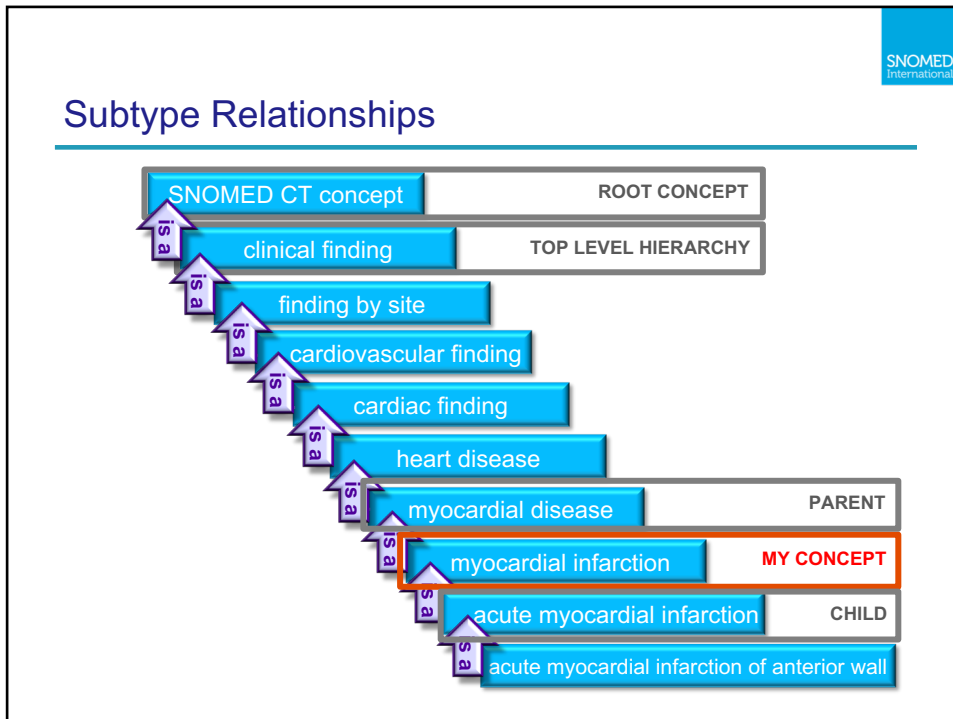
Human-readable term
 linked to a concept

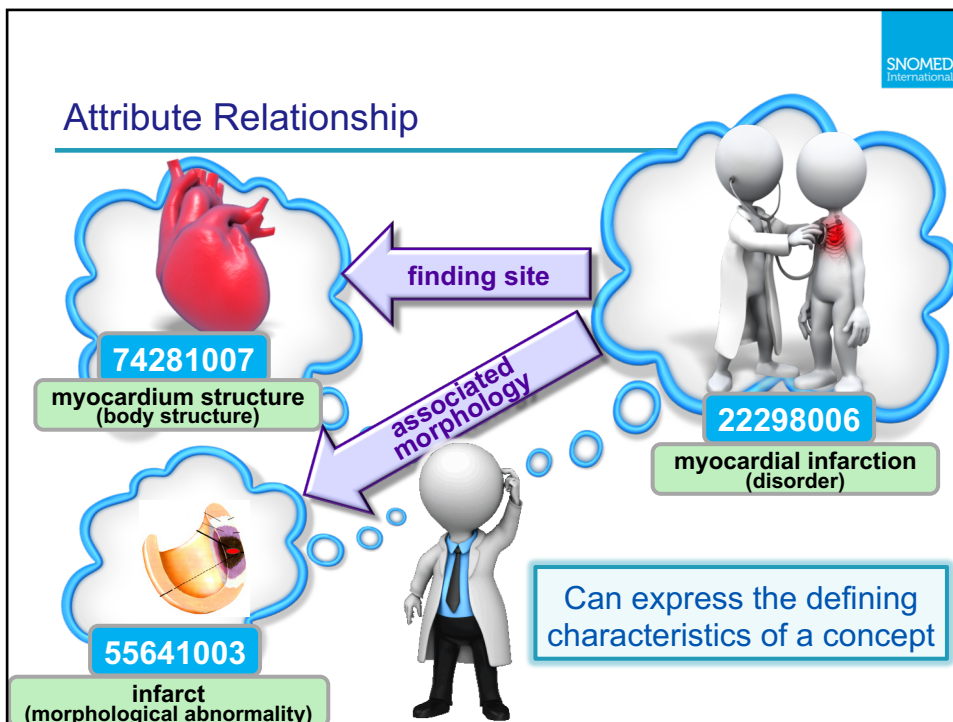
SNOMED CT Content Hierarchies





- ▼ SNOMED CT Concept
 - > Body structure (body structure)
 - > Clinical finding (finding)
 - > Environment or geographical location (environment / location)
 - > Event (event)
 - > Observable entity (observable entity)
 - > Organism (organism)
 - > Pharmaceutical / biologic product (product)
 - > Physical force (physical force)
 - > Physical object (physical object)
 - > Procedure (procedure)
 - > Qualifier value (qualifier value)
 - > Record artifact (record artifact)
 - > Situation with explicit context (situation)
 - > SNOMED CT Model Component (metadata)
 - > Social context (social concept)
 - > Special concept (special concept)
 - > Specimen (specimen)
 - > Staging and scales (staging scale)
 - > Substance (substance)





SNOMED CT – Not Just a Code System

- Logical relationships between concepts supports meaning-based processing

Parents

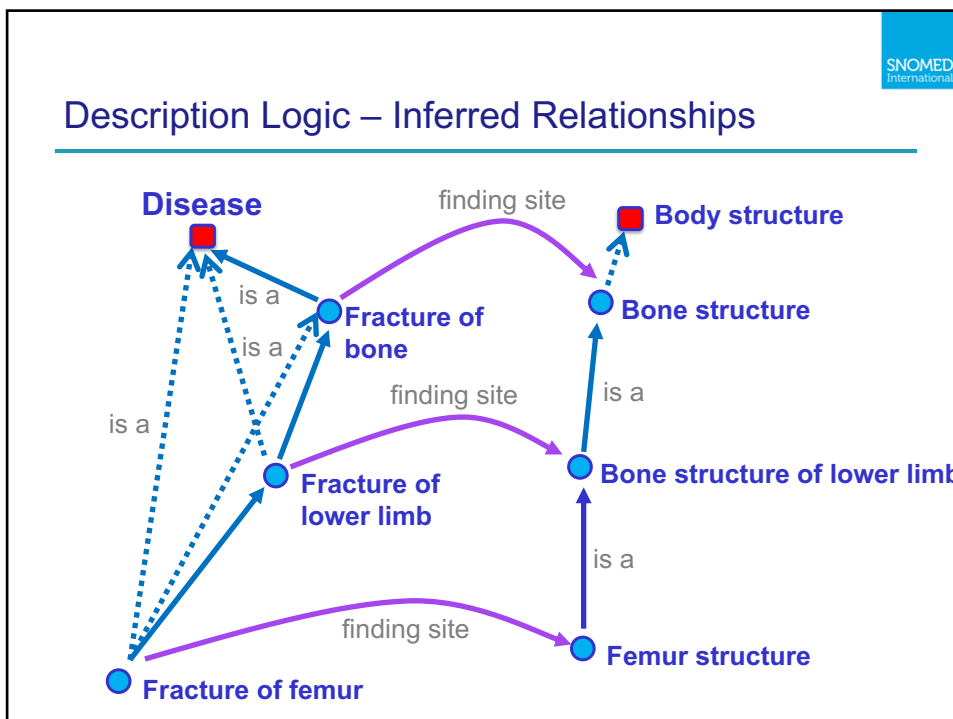
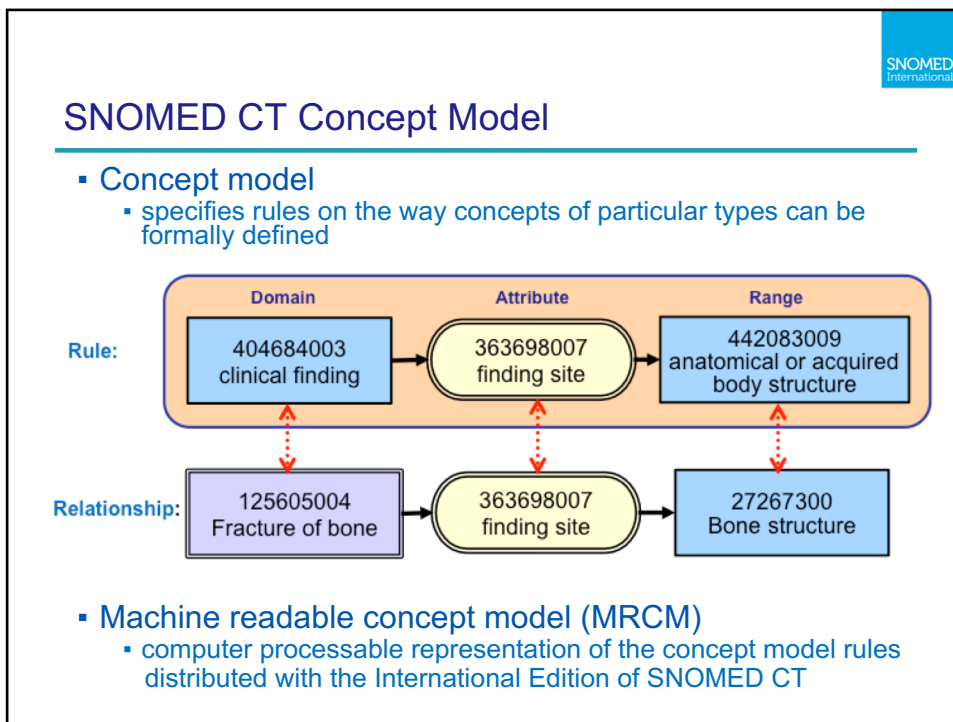
- Ischemic heart disease (disorder)
- Myocardial disease (disorder)
- Myocardial necrosis (finding)
- Necrosis of anatomical site (disorder)


Myocardial infarction (disorder)
 SCTID: 22298006

22298006 | Myocardial infarction (disorder) |

- en Myocardial infarction (disorder)
- en Cardiac infarction
- en Myocardial infarction
- en MI - myocardial infarction
- en Heart attack
- en Infarction of heart
- en Myocardial infarct



Associated morphology → Infarct
 Finding site → Myocardium structure






SNOMED CT is Customizable

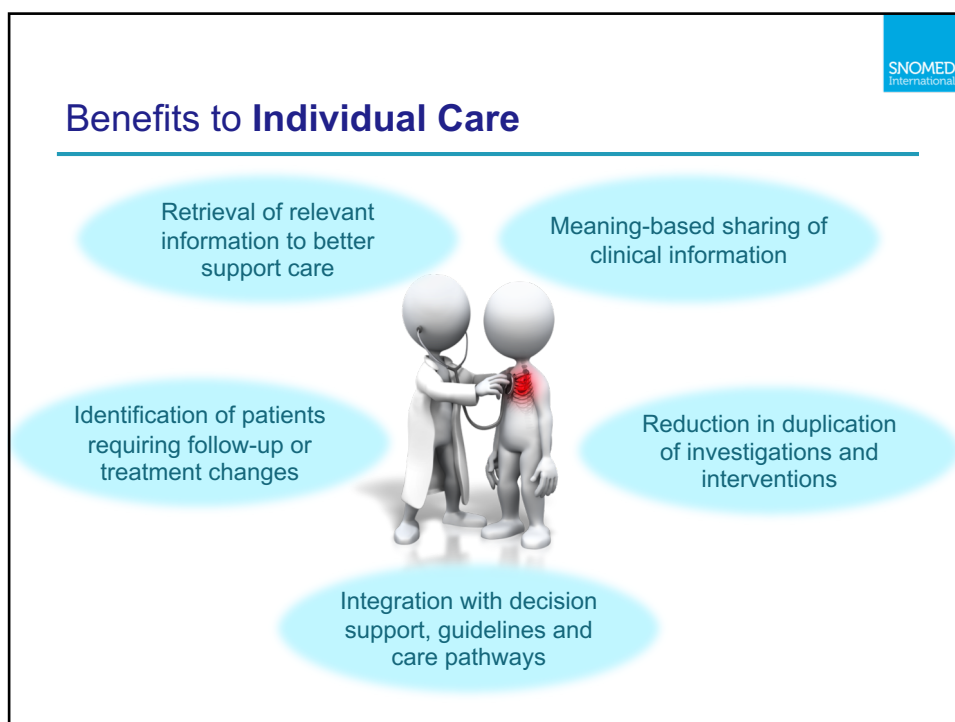
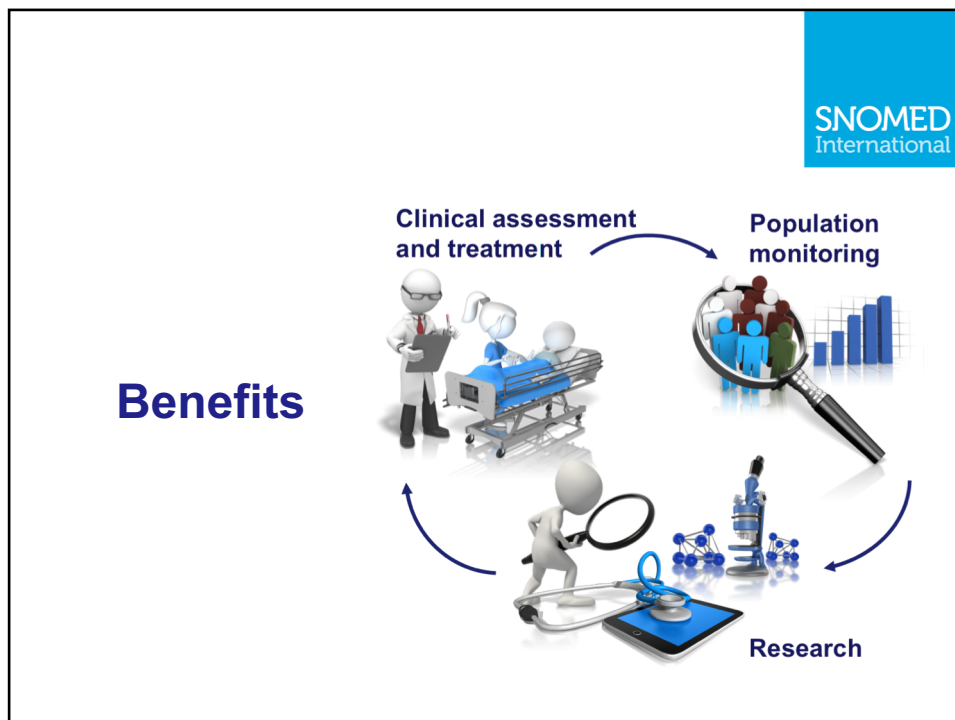
- SNOMED CT covers a broad scope at clinically appropriate levels of detail ... so it is large
- Reference Sets are a standard mechanism for customizing SNOMED CT for specific requirements
 - Supported customizations include
 - Language and dialect preferences
 - Specification of subsets of concepts for particular uses
 - Ordered list to assist efficient user interface design
 - Maps to or from other code systems




SNOMED CT is Extendable

- SNOMED International permits its members and licensees to extend the International Edition with national or local content
 - Authorized organizations
 - Assigned a unique *extension namespace*
 - Can generate unique SNOMED CT identifiers for their own concepts, descriptions, relationships and reference sets
 - Can distribute these as part of their SNOMED CT Extension









Benefits to Population Care

Epidemiological monitoring and reporting

Audit of clinical care and service delivery




Systems that measure and maximize the delivery of cost-effective treatments and minimize the risk of costly errors



Benefits to Clinical Research

Identification of clinical trial candidates



Clinical care delivery planning

Planning for future service delivery provision

Research into the effectiveness of different approaches to disease management



SNOMED International

- An international not-for-profit organisation
 - Owned by Members
 - Governed by General Assembly of its Members
 - Funded by members based on national wealth
- Maintains and delivers SNOMED CT
 - Free use in Member territories
 - Low cost licenses for institutions in other countries

Global Patient Set (GPS) released

- Managed collection of existing SNOMED CT subsets
- Free for all users to support cross-border interoperability
- Includes
 - Unique identifiers
 - Fully specified names
 - Preferred terms in international English
 - Active/inactive status flags





SNOMED International Support

- Website, communications and document library
- Business meetings and Expo
- Collaboration environment
- Advisory and project groups
- SNOMED CT education
- Content request service (CRS)
- Customer support management
- Vendor and clinical engagement
- Standards collaboration



SNOMED International Support



































- SNOMED CT tooling
 - SNOMED CT browser, mapping tool, refset management and translation tool, authoring platform, CRS
- Open source software development
 - e.g. Snowstorm - scalable SNOMED CT terminology server
- SNOMED International managed service




GitHub
<https://github.com/IHTSDO>



SNOMED International Members (April 2019)

 Argentina	 Denmark	 Lithuania	 Singapore
 Austria	 Estonia	 Luxembourg	 Slovak Republic
 Australia	 Finland	 Malaysia	 Slovenia
 Belgium	 Hong Kong	 Malta	 Spain
 Brazil	 Iceland	 The Netherlands	 Sweden
 Brunei	 India	 New Zealand	 Switzerland
 Canada	 Ireland	 Norway	 United Kingdom
 Chile	 Israel	 Poland	 USA
 Cyprus	 Jordan	 Portugal	 Uruguay
 Czech Republic	 Kazakhstan	 Saudi Arabia	



SNOMED International Membership Benefits

- Free use of SNOMED CT and related products
- Membership of General Assembly
- Ability to create national extension and translation
- Access to global community of member countries
- Free new member induction
- Member education benefits
 - FREE Foundation Course for all students
 - Membership discount (50%) for all education courses
 - NRC access to 1 FREE enrolment in each course per year
 - NRC access to 1 FREE enrolment in each certification per year



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Our Vision


By 2025 clinical terminologies will be used globally,
which will result in better health and patient
outcomes, supported by one language of health



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Learning More About SNOMED CT





Learning More About SNOMED CT

Expo 2019 tutorials

Thursday


11:00	Introduction to SNOMED CT	(90 min)
13:30	Intelligent Search and Data Entry	(90 min)
15:30	Data Analytics and Clinical Decision Support	(90 min)
15:30	An Introduction to Authoring	(90 min)

Friday

11:00	Developing Subsets and Reference Sets	(90 min)
13:30	Understanding SNOMED CT's Description Logic Enhancements	(90 min)


Presentation streams

- A – Demonstrating implementation excellence
- B – Enhancing clinical practice
- C – Terminology leading practices



Learning More About SNOMED CT


- **SNOMED E-Learning**
 - <http://snomed.org/courses>
 - **Formal Courses with Assessments** (Enrolment fees apply)
 - **Foundation** Free to residents of Member territories
 - **Implementation** Discounts for residents of Member territories
 - **Authoring Level 1** Discounts for residents of Member territories
 - **Certification** (Enrolment fees apply)
 - **Authoring Level 1** Discounts for residents of Member territories
 - **Learning Pathways**
 - Data analysts
 - Developers
 - **Presentation Library**
 - Accessible to anyone with an account



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Learning More About SNOMED CT

- SNOMED CT Document Library
 - <http://snomed.org/doc>
- Introductory Guides
 - Starter guide, vendor introduction guide, Member (NRC) guide
- Specifications and Technical Guidance
 - Release file specifications, computable language specifications, terminology and record services
- Practical Guides
 - Search Decision Support
 - Data Entry Reference Sets
 - Analytics Extensions
- Explore SNOMED CT Content
 - <http://snomed.org/browser>



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Any Questions?

Enjoy the Expo!

