Overview of eHealth Data Standardisation and Hong Kong Clinical Terminology Table (HKCTT)

13 Nov 2023

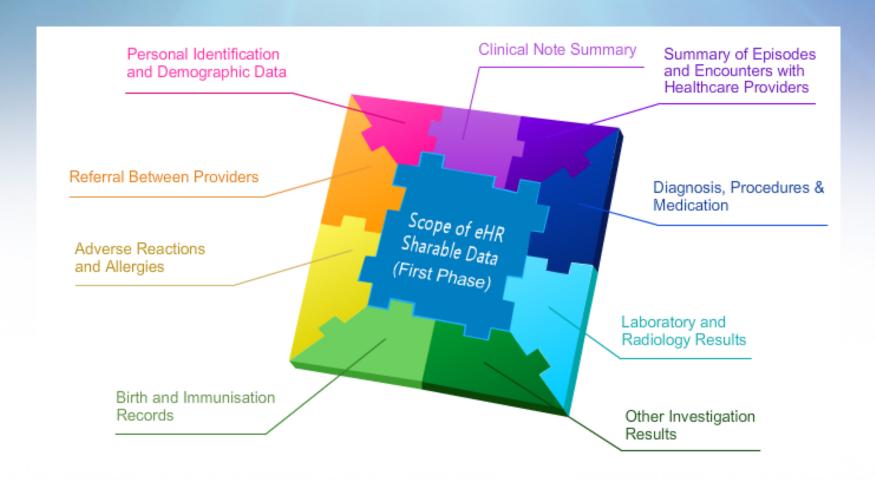


Outline

- Why data standardization in eHealth
- eHealth data standards
- Recognised terminologies and HKCTT
- Hong Kong Clinical Terminology Table
- Management of HKCTT and Information Architecture Management System (IAMS)



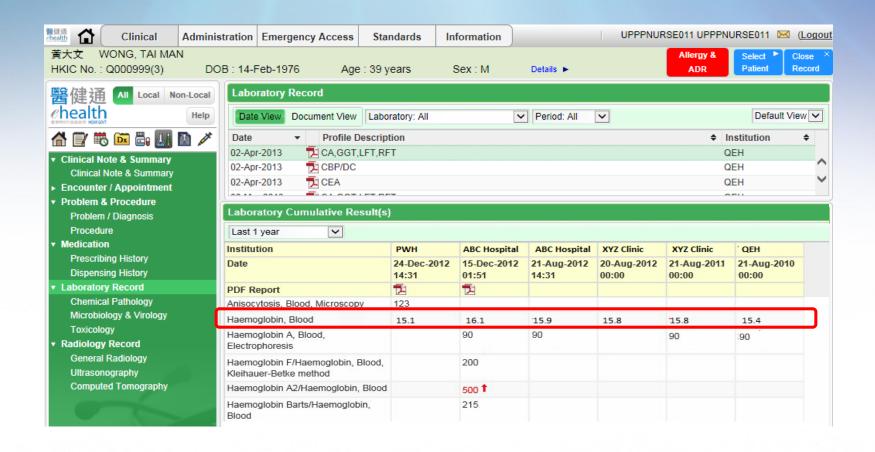
eHealth Sharable Scope







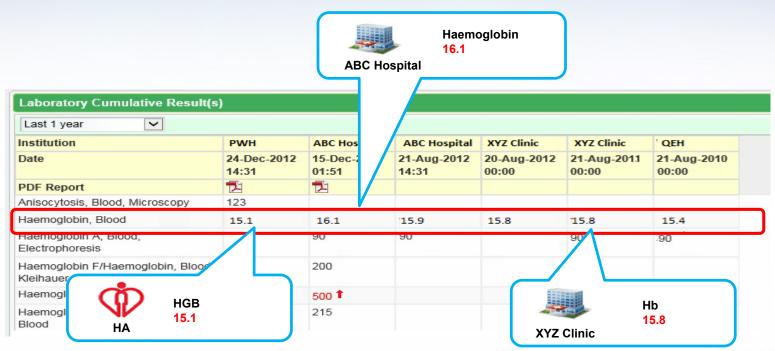
eHR Viewer – e.g. Lab Results





Data Standardisation

- 1. Allow meaningful display of eHR data and showing trends across data from different healthcare providers.
- 2. Easy to understand by healthcare professionals, no eHR training is required.
- 3. Allow analysis of data across different HCPs.
- 4. Have to be supported by structured / standardised data.







eHealth Terminology standards

3 Levels of standards for data sharing by HCPs:

- Level 1 : PDF only (with standardised document types)
- Level 2: Structured data with HCP's own codings/terminologies
- Level 3: Structured data standardised with Recognised Terminologies

Recognised Terminology

- The terminologies accepted for data sharing in eHR
- Include HK Clinical Terminology Table (HKCTT) and various reference terminologies
- Each HKCTT term can be mapped to multiple Reference terminologies

Reference Terminologies / Standardised Codings in eHealth

- International standards, e.g. International Classification of Disease
- Hong Kong standards, e.g. Registered Pharmaceutical Products
- eHealth's own Codex, e.g. gender (M/F/U)



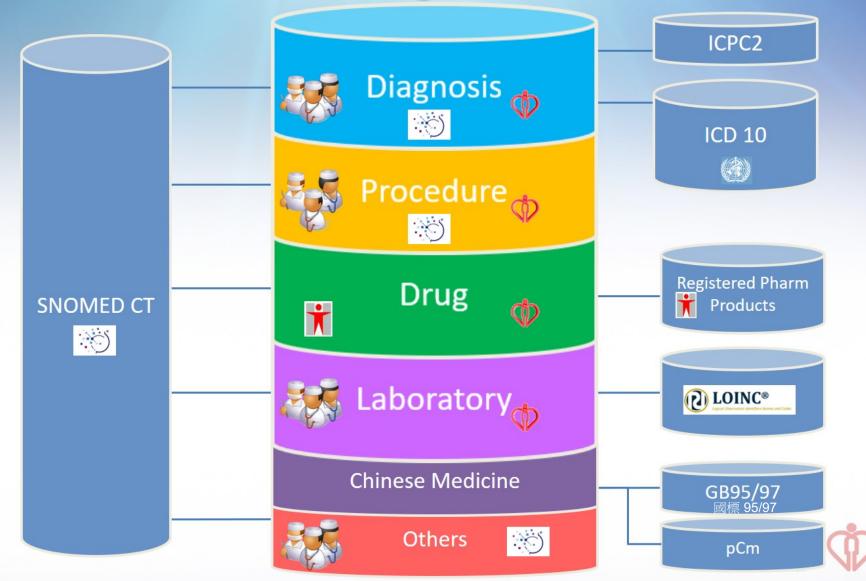


eHealth Terminology Standardisation

- Hong Kong Clinical Terminology Table (HKCTT)
 - Developed from Hospital Authority Clinical Vocabulary Table (HACVT)
 - Concept based, with unique TermID
 - Multiple natures
 - Diagnosis / Procedure
 - Organism
 - Laboratory antibiotics and more
 - With mapping to various reference terminologies
 - Including ICD10, ICPC2, LOINC, SNOMED CT



Building HKCTT



Reference terminologies in HKCTT

	HKCTT Nature					
	Diagnosis	Procedure	Organism	Specimen	Laboratory Test	Drug
НКСТТ	Yes	Yes	Yes	Yes		Yes
RPP						Yes *
ICD-10~	Yes *					
ICPC-2	Yes	Yes				
LOINC #					Yes *	
SNOMED CT #	Yes *	Yes *	Yes *	Yes *	Yes	Yes

^{*} Mandatory mapping



[#] HK extensions created

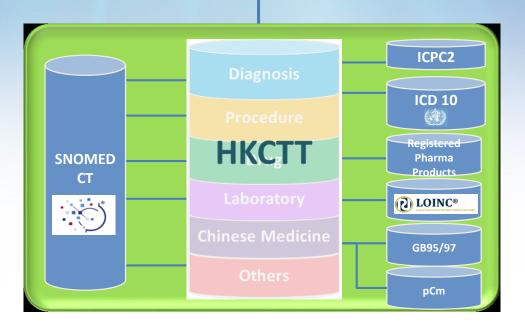
HKCTT













HA Clinical Data Repository

eHR



Management of HKCTT

Governance

 – eHR Information Standards Co-ordinating Group, eHR IS Domain Groups, HKCTT Editorial Group

Development

Terminology management principles & editorial rules

Maintenance

- Information Architecture Management System
- Quality management
- Feedback mechanism
- Regular update
- Distribution

Interface Terminologies: Facilitating Dire Data into Electronic Health Record System S. Then Rosenson MD MDL 6.

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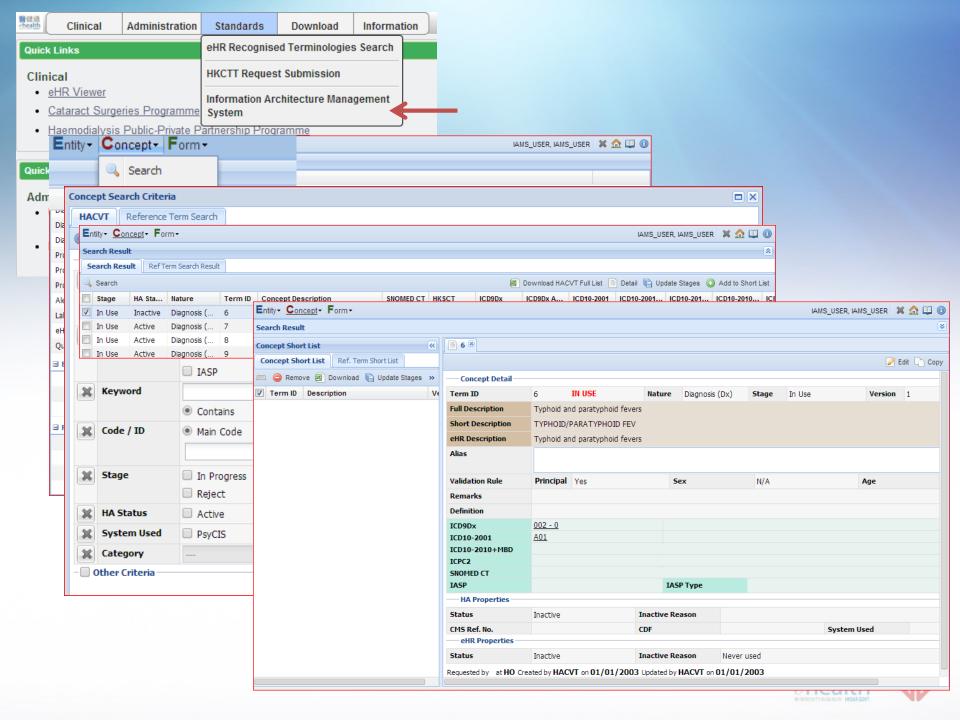
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SNOMED Clinical Term Editorial Guidelines Abstract: Builders of oedical vocabularies to go to use available is need to address it de, medical infor ese requirements swhich have be tion, concept ; y, formal defir granularities, volution, an

Information Architecture Management System (IAMS)

- Originated from the Hospital Authority (HA)
- Terminology management tool
 - Browsing and maintenance of HKCTT
 - Browsing of various Reference Terminologies
- Contain other information architecture modules





Thank You

