

Seminar on Recognised Terminology – Hong Kong
Clinical Terminology Table (HKCTT)

Overview of Hong Kong Clinical Terminology Table (HKCTT)

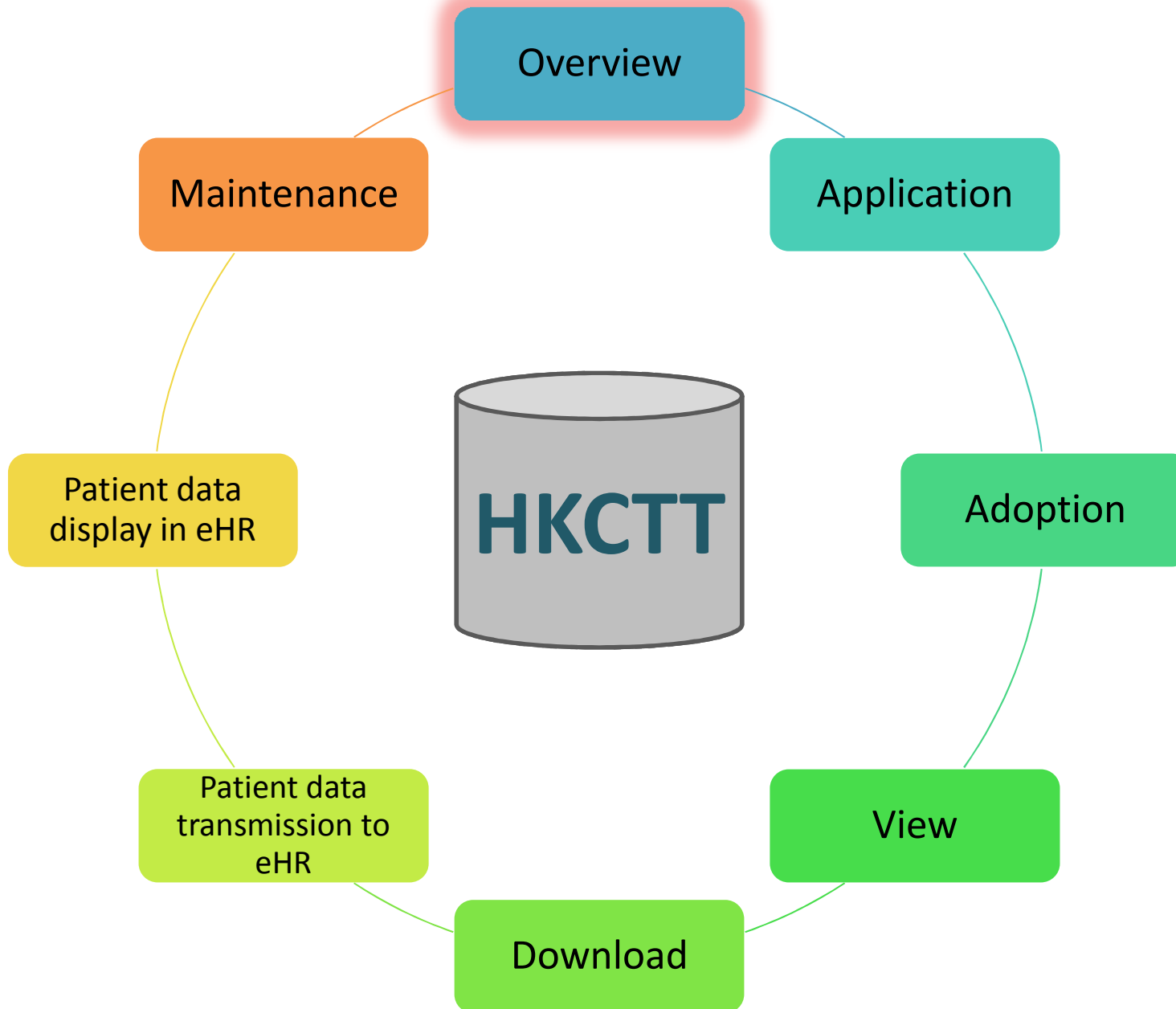
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Health Informatician

eHR Information Standard Office

16 April 2014

Terminology for eHR - HKCTT



Outline

- Recognised terminologies in eHR
- HKCTT Background
- Reference Terminologies of HKCTT
- Management of HKCTT
- Introduction to HKCTT management with IAMS



RECOGNISED TERMINOLOGIES IN EHR



Definitions

- Recognised Terminology
 - The terminologies accepted for reporting in eHR
 - Including HKCTT and various reference terminologies
- Reference Terminology
 - A set of concepts and relationships that provide a common reference point for comparisons and aggregation of data about the entire health care process, recorded by multiple different individuals, systems or institutions (from Mapping from a Clinical Terminology to a Classification, AHiMA 75th Anniversary National Convention & Exhibit Proceedings, Oct 2003)
 - Examples ICD 10, SNOMED CT, LOINC, etc
 - Each HKCTT term can be mapped to more than one reference terminology



Why need Reference Terminologies?

- Cover major domain areas
- Sufficient breadth & depth
- Expandable hierarchical structure
 - Won't affect already collected data
- Formal definition
- Regular update
- For reporting to authority



Recognised Terminologies in eHR

- Hong Kong Clinical Terminology Table (HKCTT)
- International Classification of Diseases, 10th Revision (ICD 10)
 - International Classification of Diseases, 10th Revision (ICD 10), 2001 release
 - International Classification of Diseases, 10th Revision (ICD 10), 2010 release
 - International Classification of Diseases, 10th Revision (ICD 10), Mental Health & Behavioural Disorders (MBD)
- ^International Classification for Primary Care, 2nd Edition (ICPC2)
- Logical Observations, Identifiers Names and Codes (LOINC)
- Registered Pharmaceutical Products (RPP)
- Systematized Nomenclature of Medicine, Clinical Terms (SNOMED CT)

^ICPC2 license is still under negotiation with WONCA



Recognised Terminologies in eHR

	Domain					
	Problem	Procedure	Laboratory			Drug
			Organism	Specimen	Laboratory Test	
HKCTT	Yes	Yes	Yes	Yes	Yes	Yes
RPP						Yes
ICD-10	Yes					
^ICPC-2	Yes	Yes				
LOINC					Yes	
SNOMED CT	Yes	Yes	Yes	Yes	Yes	

Healthcare providers may use the recognised terminology to send data to eHR

^ICPC2 license is still under negotiation with WONCA

HKCTT BACKGROUND

Background

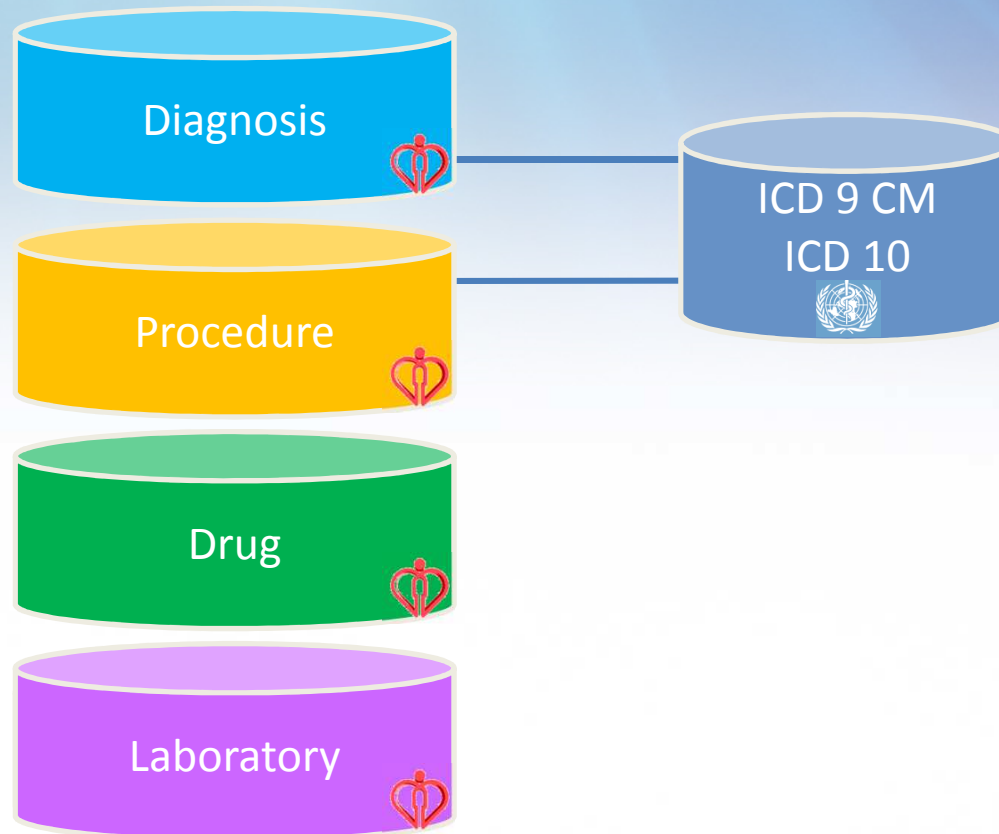
- Hospital Authority Clinical Vocabulary Table (HACVT)
 - Developed in 2002
 - Concept based, with unique TermID
 - Multiple natures
 - Diagnosis / Procedure
 - Organism
 - Laboratory antibiotics and more



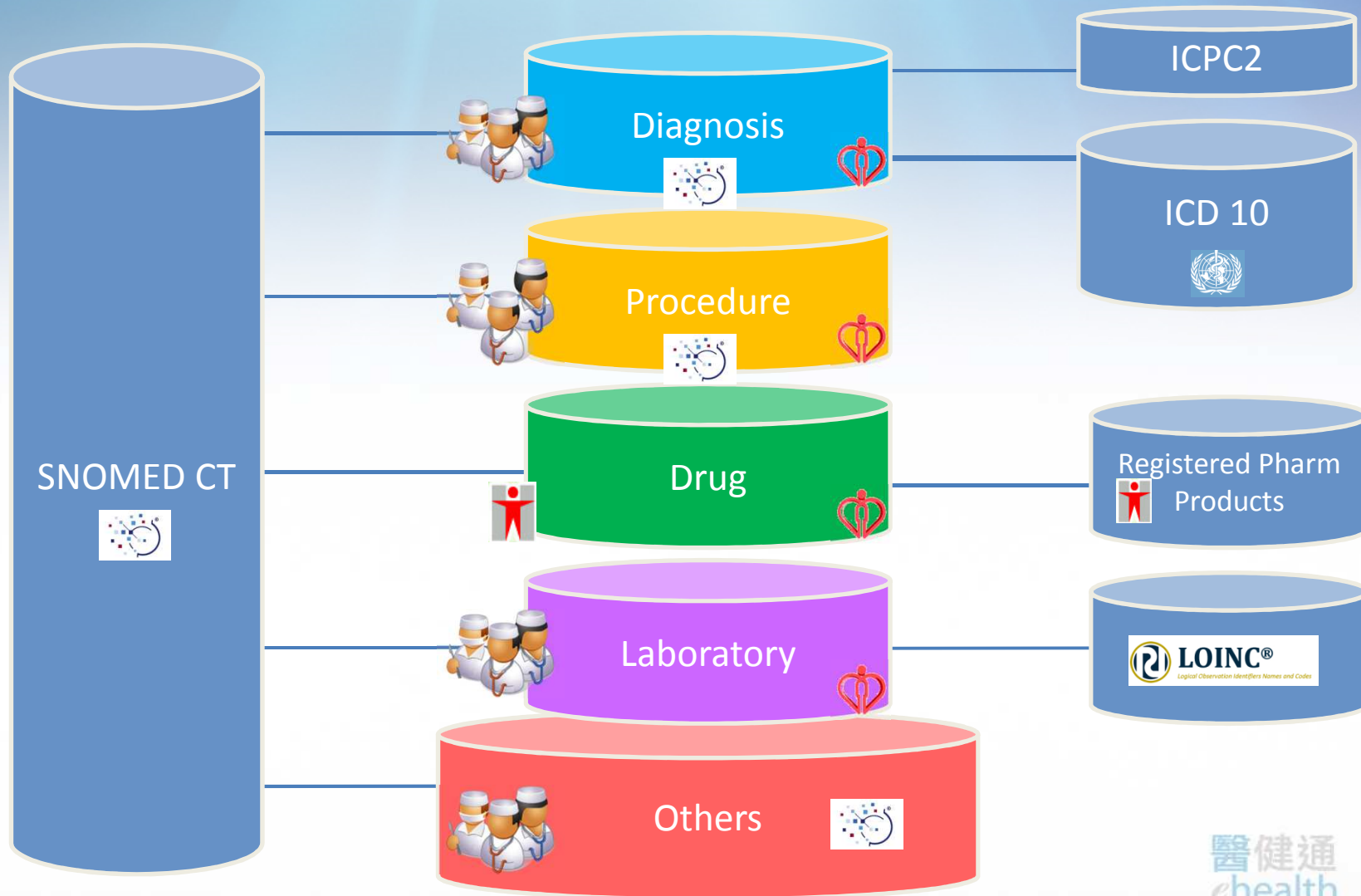
Background

- Hospital Authority Clinical Vocabulary Table (HACVT)
 - with mapping to reference terminologies
 - International Classification of Diseases Clinical Modification 9th revision (ICD9CM)
 - International Classification of Diseases, 10th Revision (ICD 10)
 - Systematized Nomenclature of Medicine, Clinical Terms (SNOMED CT)
 - International Classification for Primary Care, 2nd Edition (ICPC2)
 - Logical Observations, Identifiers Names and Codes (LOINC)
 - International Association for the Study of Pain (IASP)

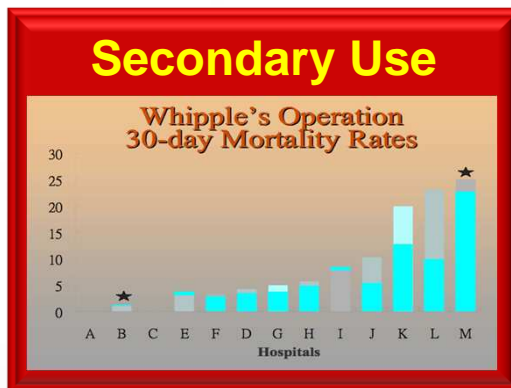
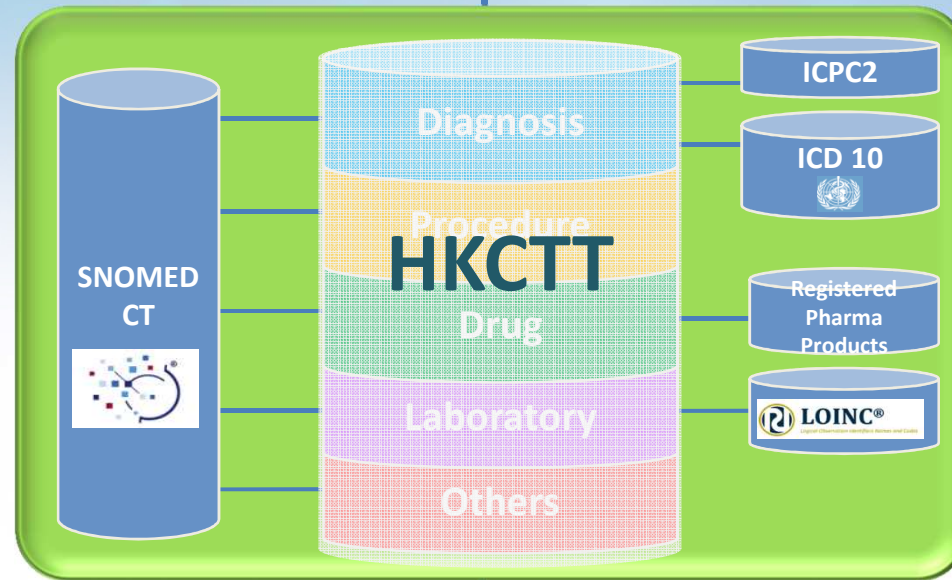
Hospital Authority Clinical Vocabulary Table



Building HKCTT



HKCTT



Clinical Data Repository

eHR

The screenshot shows an eHR interface with a 'Viewer' window. It displays patient information (Name: CHAN, SSN: 88888, etc.), a list of 'Diagnosis' codes, and a 'Medication' table. The medication table includes columns for 'Last Entry', 'Description', 'Vaccine', and 'Date of onset'. Below the medication table, there are sections for 'Immunization Records' and 'Laboratory' results.

REFERENCE TERMINOLOGIES IN HKCTT



Reference terminologies in HKCTT

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

* Mandatory mapping

HK extensions created

^ ICPC2 license is still under negotiation with WONCA

Reference Terminology Version for Problem & Procedure in Current HKCTT

Reference Terminology	Current Version
ICD10	2001
ICD10	2010
ICD10-MBD	1992
^ICPC2	V2.0
SNOMED CT	~Jan 2011 Release

^ ICPC2 license is still under negotiation with WONCA

~ The SNOMED CT version in use in HKCTT will be updated before launch of eHR



MANAGEMENT OF HKCTT

Management of HKCTT

- Governance
 - eHR IS CG, eHR IS DGs, HKCTT EG
- Development
 - Terminology management principles & editorial rules
 - Special handle : nonspecific / vague terms
- Maintenance
 - Information Architecture Management System
 - Quality management
 - Feedback mechanism
 - Regular update
 - Distribution



INTRODUCTION TO HKCTT MANAGEMENT WITH IAMS



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



Quick Links

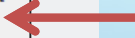
Clinical

- [eHR Viewer](#)
- [Cataract Surgeries Programme](#)
- [Haemodialysis Public-Private Partnership Programme](#)

eHR Recognised Terminologies Search

HKCTT Request Submission

Information Architecture Management System



Entity Concept Form

IAMS_USER, IAMS_USER

Search

Concept Search Criteria

HACVT Reference Term Search

Entity Concept Form

IAMS_USER, IAMS_USER

Search Result

Search Result Ref Term Search Result

Search

Download HACVT Full List Detail Update Stages Add to Short List

<input type="checkbox"/>	Stage	HA Sta...	Nature	Term ID	Concept Description	SNOMED CT	HK SCT	ICD9Dx	ICD9Dx A...	ICD10-2001	ICD10-2001...	ICD10-201...	ICD10-2010...
<input checked="" type="checkbox"/>	In Use	Inactive	Diagnosis (...	6									
<input type="checkbox"/>	In Use	Active	Diagnosis (...	7									
<input type="checkbox"/>	In Use	Active	Diagnosis (...	8									
<input type="checkbox"/>	In Use	Active	Diagnosis (...	9									

IAMS_USER, IAMS_USER

- IASP
- Keyword
- Code / ID
 - Contains
 - Main Code
- Stage
 - In Progress
 - Reject
- HA Status
 - Active
- System Used
 - PsyCIS
- Category

- Other Criteria

Entity Concept Form

IAMS_USER, IAMS_USER

Search Result

Concept Short List Ref. Term Short List

Remove Download Update Stages

Term ID Description

Term ID	Description	Version
6	Typhoid and paratyphoid fevers	1

Entity Concept Form

IAMS_USER, IAMS_USER

Search Result

Concept Short List Ref. Term Short List

Remove Download Update Stages

Term ID Description

Term ID	Description	Version
6	Typhoid and paratyphoid fevers	1

Concept Detail

Term ID	6	IN USE	Nature	Diagnosis (Dx)	Stage	In Use	Version	1
Full Description	Typhoid and paratyphoid fevers							
Short Description	TYPHOID/PARATYPHOID FEV							
eHR Description	Typhoid and paratyphoid fevers							
Alias								
Validation Rule	Principal	Yes	Sex	N/A	Age			
Remarks								
Definition								
ICD9Dx	002 - 0							
ICD10-2001	A01							
ICD10-2010+MBD								
ICPC2								
SNOMED CT								
IASP	IASP Type							
HA Properties								
Status	Inactive	Inactive Reason						
CMS Ref. No.				CDF	System Used			
eHR Properties								
Status	Inactive	Inactive Reason		Never used				
Requested by - at HO Created by HACVT on 01/01/2003 Updated by HACVT on 01/01/2003								

Thank You

