

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

## HCP Preparation for eHRSS

Maggie LAU

Health Informatician

eHR Information Standards Office

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# Content

- Nomination of HCP terminology coordinator
- Selection of terminology used for eHR
- Selection of HKCTT adoption mode
- Selection of compliance level for data transmission
- Reference
  - Editorial Guide on HKCTT
  - Guide on Implementation & Maintenance HKCTT



# TERMINOLOGY COORDINATOR OF HCP

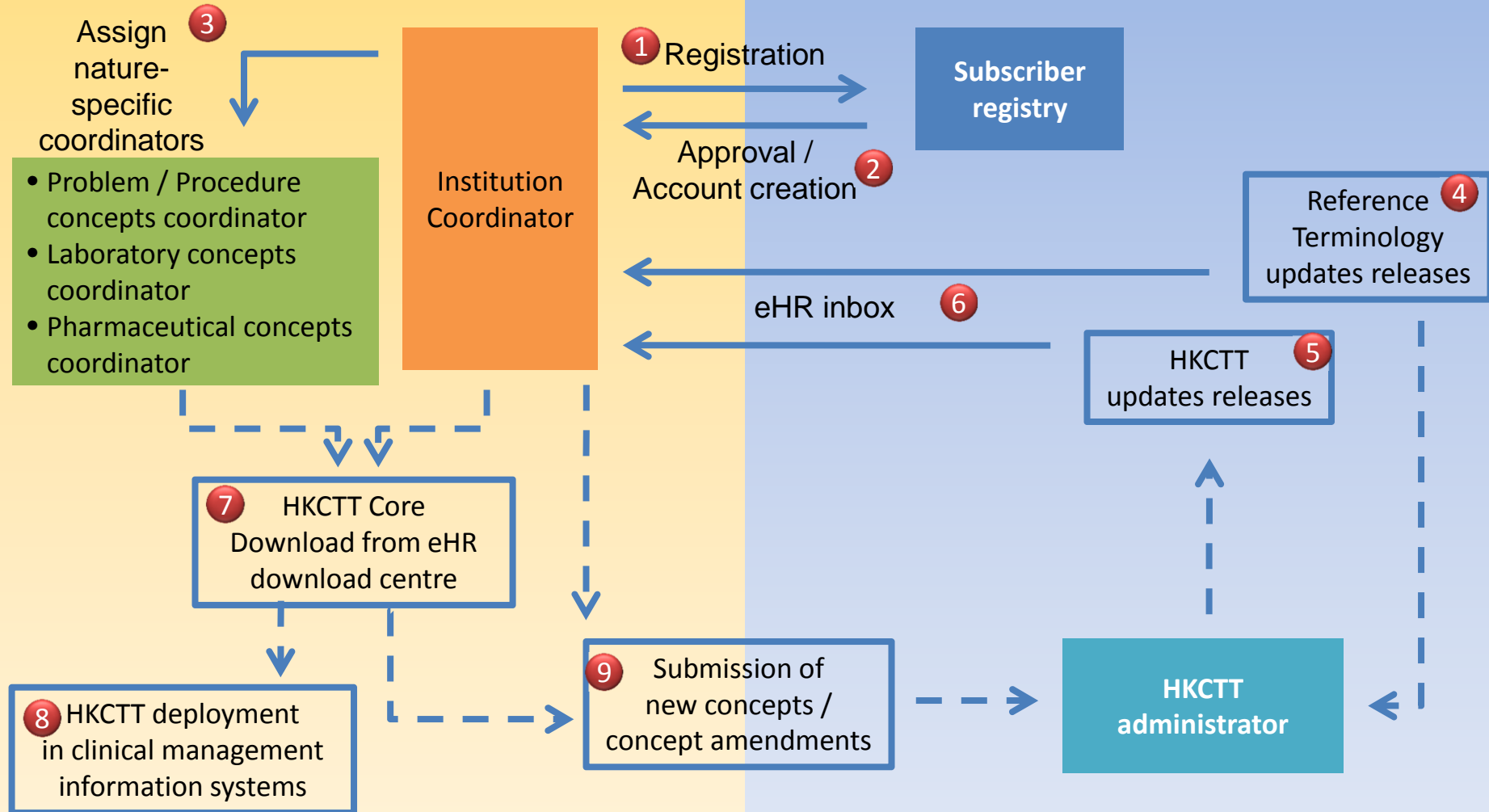


# HKCTT –

## from registration to release

### Subscribers

### eHRISO



# **SELECTION OF TERMINOLOGY USED FOR eHRSS**



# 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

- 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
- Logical Observations, Identifiers
- Registered Pharmaceutical Products (RPP)
- Systematized Nomenclature of Medicine, Clinical Terms

**Strongly recommend the  
native use of these  
terminologies**

# Points to Note on License

- The eHR recognised terminologies
  - will only be distributed to authorized users for use within the territory of HKSAR only
  - can only be used by authorized users on not-for-profit purposes, such as
    - health programme administration, reimbursement, control and evaluation
    - health information and health statistics purposes
    - the development of telecommunications systems for facilitating the collection, compilation, analysis, transmission, retrieval, storage, access, grouping, linking, comparison and quality assessment of such diagnostic information required for the above-mentioned administrative, statistical, planning and research purposes





# Points to Note on License (cont.)

- Users may need to pay licence fees on certain recognised terminologies in respect of its activities outside HKSAR
- All users shall not change / alter the content of the recognised terminologies
- All users shall sign the Affiliate License with IHTSDO before they can use the SNOMED CT and HKCTT since HKCTT contains mapping from SNOMED CT
- All users shall acknowledge that they have read and understood the “Recognised Terminologies Acknowledgement” and related documents before using the terminologies



# SELECTION OF HKCTT ADOPTION MODE IN eHRSS



# HKCTT – Mode of Adoption

	HKCTT APP		HKCTT Offline	HKCTT Core
Provision	HKCTT Content Searching Service Search Panel		HKCTT Content Searching Service	HKCTT Content
Application	On-Ramp	Adaptation	Vendor System	Prepare for mapping
ELSA (Automatic HKCTT content Update)	Yes Joint eHRSS (Mode B)	-----	Yes Joint eHRSS (Mode B)	-----
ELSA Lite (HKCTT content not automatically update)	Yes Not join eHRSS Update by Service Provider	Yes Update by HCP	Yes Not join eHRSS Update by Service Provider	-----
No ELSA	-----	-----	-----	yes

\* Automatic HKCTT content update means after user confirm the update in front end

# HKCTT – Mode of Adoption

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ELSA Lite  (HKCTT content not automatically update)	Yes  Not join eHRSS Update by Service Provider	Yes  Update by HCP	-----	-----
No ELSA	-----	-----	-----	yes

**Recommend to update HKCTT regularly, < every 6 months**

\* Automatic HKCTT content update means after user confirm the update in front end

# Licensing of Recognised Terminologies

	HKCTT APP		HKCTT Offline	HKCTT Core
Provision	HKCTT Content Searching Service Search Panel		HKCTT Content Searching Service	HKCTT Content
Application	On-Ramp	Adaptation	Vendor System	Vendor System
HKCTT license	Included in the license for On-Ramp or Adaptation		✓	✓
SNOMED CT Affilitate license	✓	✓	✓	✓

**All licenses only cover usage within the HKSAR.**

# **SELECTION OF COMPLIANCE LEVEL FOR DATA TRANSMISSION IN eHRSS**



# Data to eHRSS

Declared Standard Level	Unstructured data	Local structured data		Recognised structured data			
	PDF, Free Text	Local Code	Local Description	Types	Recognised Terminology Name	Recognised Code	Recognised Description
1	Mandatory	NA	NA	---	NA	NA	NA
2	Optional	Optional	Mandatory	---	NA	NA	NA
3	Optional	Optional	Mandatory	Recognised Terminology	Mandatory	Mandatory	Mandatory
				Code Tables	---	Mandatory	Mandatory

# REFERENCE





# Editorial Guide on Hong Kong Clinical Terminology Table (HKCTT)

## Editorial Guide

- Editorial Guide on HKCTT – Overview
- Guide on Implementation & Maintenance of the HKCTT

## Specific Papers

- Editorial Guide on HKCTT – Problem & Procedure
- [Editorial Guide on HKCTT – Drug \(Medication Terminology Table\)](#)
- [Editorial Guide on HKCTT – Laboratory](#)

# EDITORIAL GUIDE ON HKCTT – OVERVIEW



# Table of Contents

- 1) Introduction
  - 2) History of HKCTT
  - 3) Content of HKCTT
  - 4) Terminology Management
  - 5) eHR Standards Compliance
  - 6) Conclusion
- Annex A: Reference Terminology  
Reference

# Chapter 1 – Introduction

## What is HKCTT?

- A standardized clinical terminology table
- Compose of terms of various knowledge domains
- Reference to international terminologies

## What is the use of HKCTT?

- Facilitate clinicians to document and review patient's condition
- Support sharing and reuse of clinical information

# Chapter 2 – History of HKCTT

## What is History of HKCTT?

- Evolved from HACVT which support clinicians to report diagnosis and procedures in CMS since 1996
- In 2007, the Working Group on eHR and Information Standards (WG-eHRIS) decided to migrate HACVT to HKCTT
- The table has since been expanded to include drug, laboratory and other data to support documentation and other secondary usage of eHR data

# Chapter 3 – Content of HKCTT

## What are the characteristics of HKCTT?

- Expandable and provide sufficient breadth and depth on various domain areas
- Contain consistent meaning and identification for every created HKCTT term
- Facilitate retrieval of data at the granular level of one's desire
- Facilitate searching of term by inclusion of synonyms

# Chapter 3 – Content of HKCTT

## What is the structure of HKCTT?

- Nature
- Term Identifier (Term ID)
- Description
- Alias
- Stage
- Status
- .....



# Chapter 4 – Terminology Management

## What are the principles recommended for managing HKCTT?

- Non – vagueness, non – ambiguity, non – redundancy
- Permanence
- Expandable
- Perpetual
- ....

**Note:** Principles are base on ‘Cimino JJ. Desiderata for controlled medical vocabularies in the twenty-first century. *Methods Inf. Med.* 1998; 37(4-5), pp 394-403.’



# Chapter 5 – eHR Standard Compliance

## What are the levels of data compliance in eHR?

- Level 1 – Free text information
- Level 2 – Local structured data
- Level 3 – Standard structured data

# **EDITORIAL GUIDE ON HKCTT – PROBLEM & PROCEDURE**



# Table of Contents

- 1) Introduction
- 2) Content of HKCTT
- 3) Validation rules on creation and maintenance of HKCTT terms
- 4) Overview of mapping
- 5) Mapping HKCTT with Reference Terminologies
- 6) Conclusion



# Chapter 1 – Introduction

## What is HKCTT?

- A standardized clinical terminology table
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# Chapter 2 – Content of HKCTT

## What are the principles to ensure consistency between HKCTT term descriptions?

- Medical term instead of lay term
- Singular rather than plural
- Capital letter should be used for the first letter only, except specific words in eponym
- Avoid use of words/phases with NEC, NOS, unspecified





# Chapter 3 – Validation rules on creation and maintenance of HKCTT terms

What are the validation rules applied to ensure accurate medical term usage?

- Nature
- Principal
- Age
- Sex



Term ID	HKCTT Description	Sex Validation Rule
34094	Severe pre-eclampsia for antepartum care	
10013	Bleeding from benign prostatic hypertrophy	

# Chapter 4 – Overview of Mapping

## What is mapping?

- Linking content from one terminology or classification scheme to another

## What is difference between terminology and classification?

- Characteristics of ICD10 vs. SNOMED CT

## What is mapped reference terminologies under diagnosis and procedure?

- SNOMED CT, ICD-10, ICPC-2

# Chapter 5 – Mapping HKCTT with reference terminologies

## What are some of the basic mapping principles?

- ‘What you see is what you get’
- Mapping may introduce loss of detail in meaning depending on schemas being mapped
- .....



‘This patient has myocardial infarction’





# Chapter 5 – Mapping HKCTT with reference terminologies

## How is mapping of HKCTT to reference terminologies conducted?

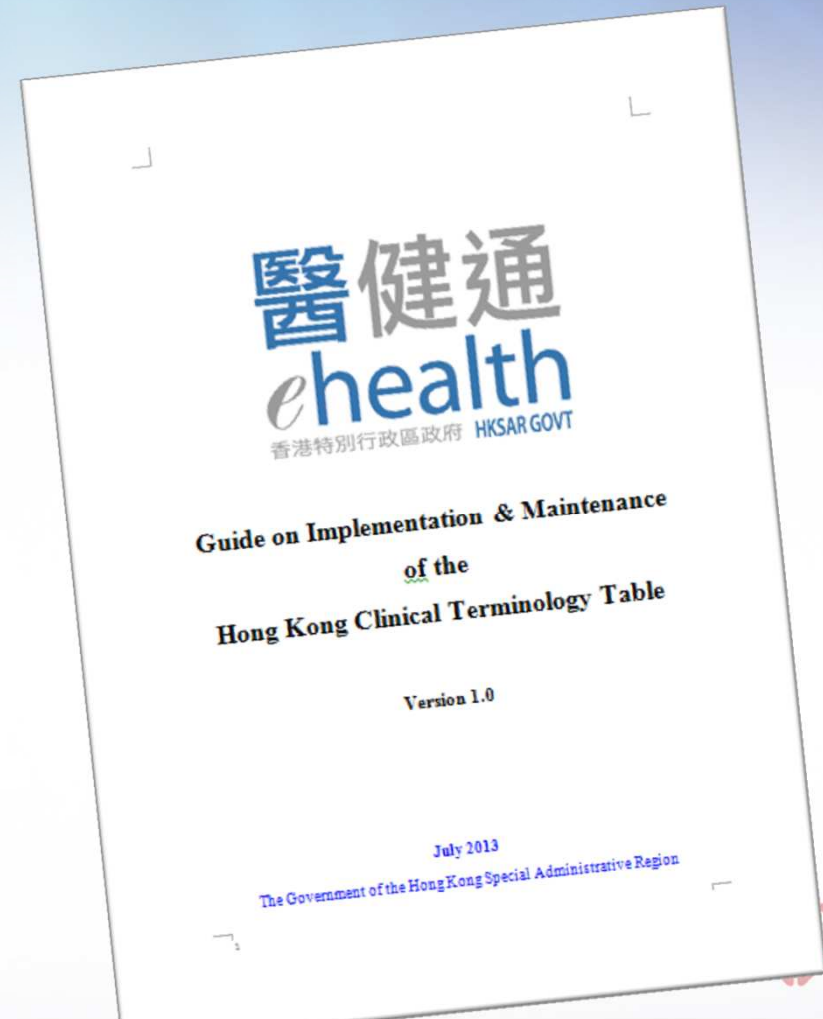
- HKCTT with SNOMED CT
- HKCTT with ICD-10
- HKCTT with ICPC2

# **GUIDE ON IMPLEMENTATION & MAINTENANCE OF HKCTT**



# Objectives

- To provide an overview of the 'Guide on Implementation & Maintenance of the HKCTT'



# Editorial Guide on Hong Kong Clinical Terminology Table (HKCTT)

## Editorial Guide

1. Editorial Guide on HKCTT – Overview
- 2. Guide on Implementation & Maintenance of the HKCTT**

## Specific Papers

1. Editorial Guide on HKCTT – Problem & Procedure
2. Editorial Guide on HKCTT – Drug (Medication Terminology Table)
3. Editorial Guide on HKCTT – Laboratory

# Table of Contents

- 1) Introduction
- 2) Overview of HKCTT
- 3) Licensing of HKCTT
- 4) Role of HKCTT licensee
- 5) Adoption of HKCTT
- 6) Release and updates
- 7) Transmission of patient data to eHR
- 8) Request submission to eHR ISO
- 9) Submission to SDO
- 10) Guideline for mapping
- 11) Impact to Healthcare provider



# Chapter 1 – Introduction

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- Facilitate searching of term by inclusion of synonyms

# Chapter 3 – Licensing of HKCTT

## Who is eligible to be a HKCTT licensee?

- Healthcare providers (HCP) in both private and public sectors who will involve in the capturing, retrieving, storing and using of data provided by HKCTT should obtain license for use of HKCTT

## What are the conditions that HKCTT licensee must comply with?

- Use of HKCTT must be within HKSAR healthcare environment
- Use of HKCTT must be limited to authorized licensee
- ....



# Chapter 4 – Role of HKCTT Subscribers

## What is a HCP Terminology Coordinator?

- A single point of contact appointed to facilitate communication between eHR and HCP on terminology related issues

## What is Nature Specific Terminology Coordinator?

- HCP may appoint a nature specific coordinator to handle related tasks under each domain area, e.g. drug, laboratory and problem/procedure.



# Chapter 5 – Adoption of HKCTT

**What are the three modes of HKCTT adoption?**

- HKCTT App (On-ramp/Adaptation Module)
- HKCTT Offline
- HKCTT Core

**Which HKCTT adoption mode is suitable for my HCP?**

**How do I implement HKCTT into my clinical system?**

# Chapter 6 – Release and updates

## What is the update frequency of HKCTT and reference terminology?

Recognised Terminology	Update Frequency
HKCTT	Every month
SNOMED CT	Every 6 months (Jan & July)
LOINC	Every 6 months
ICD10 (2001) ICD10 (2010) ICD10 (MBD)	No regular updates
ICPC2	No regular updates

# Chapter 6 – Release and updates

## What are the steps taken by eHRISO...

- When new RT release is available?
- When new addition/amendment of HKCTT terms is requested?

# Chapter 7 – Transmission of patient data to eHR

What is the set of checking required for recognised terminology codes transmitted from HCP?

Case	RT Name	RT Code	RT Desc	Code exists in RT?	Nature / Hierarchy correct?	Code Desc Match with official set?	Corresponding TermID exists?	Problem Flag	Output Data Level	Follow up by
1	HKCTT	TermID	Desc	Y	Y	Y	--	N	3	--
2				Y	Y	N	--	Y	2	HCP
3				Y	N	--	--	Y	2	
4				N	--	--	--	Y	2	
5	SNOMED	SCTID		Y	Y	Y	Y	N	3	--
6				Y	Y	Y	N	Y	3	eHRISO
7				Y	Y	N	--	Y	2	HCP
8				Y	N	--	--	Y		
9				N	--	--	--	Y		



# Chapter 7 – Transmission of patient data to eHR

## In what circumstances would HCP receive data compliance reports?

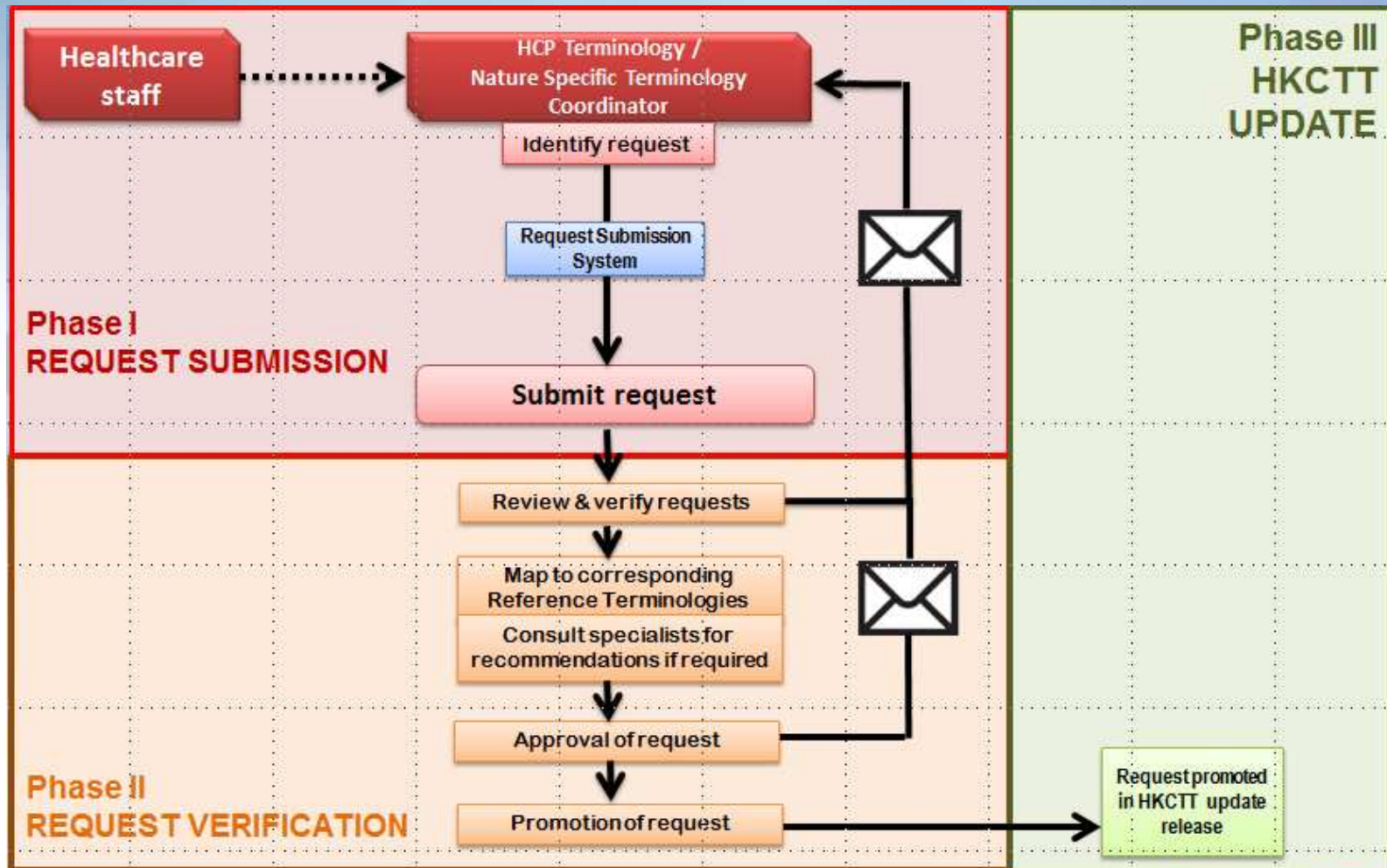
The following code transmitted to eHR was not found in the declared Recognised Terminology :

Record key	RT Name	RT Identifier	RT Description	Local Code (if any)	Local Description

Please check if the code was input incorrectly and appreciated if rectification could be arranged at your convenience.

# Chapter 8 – Request submission to eHRISO

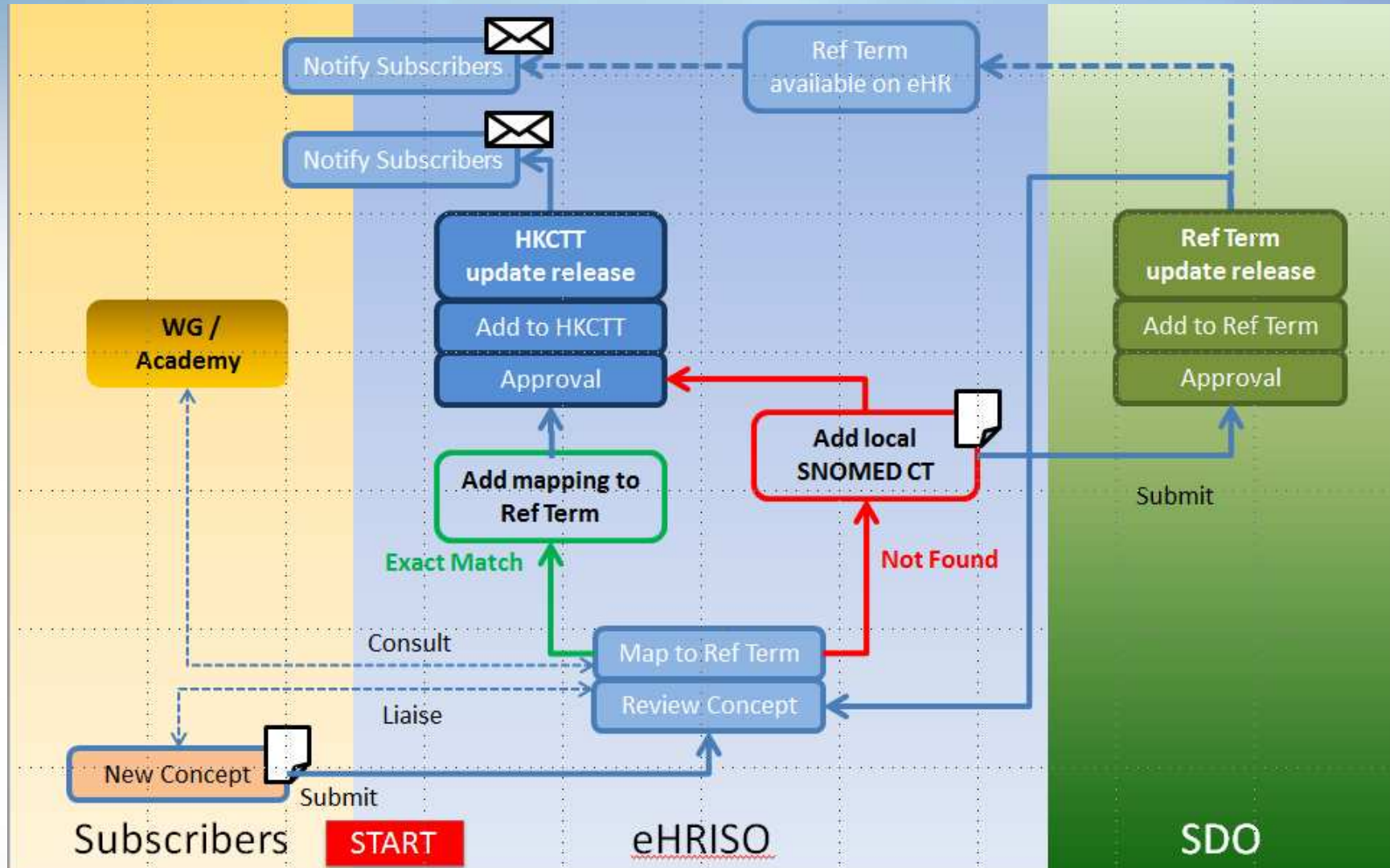
How would submitted requests be handled by eHRISO?





# Chapter 9 – Request submission to SDO

In what circumstances would eHRISO submit requests to SDO?





# Chapter 10 – Guideline for Mapping

**In what circumstances would the mapping of local terms to HKCTT be necessary?**

**How to map HCP's local terms to HKCTT?**

- Mapping of diagnostic and procedural terminologies
- Mapping of laboratory terminologies
- Mapping of drug terminologies



# Chapter 11 – Impact to Healthcare Provider

## What are our recommendations for HCP in the adoption of HKCTT?

- All HCPs are encourage to adopt HKCTT directly
- For HCPs with existing patient data and would like to adopt HKCTT, consideration should be made as to whether data migration is necessary.
  - If migration is required, it should be well planned with assigned resources to support both business and technical migration.

# Editorial Guide on Hong Kong Clinical Terminology Table (HKCTT)

## Editorial Guide

1. Editorial Guide on HKCTT – Overview
2. Guide on Implementation & Maintenance of the HKCTT

## Specific Papers

1. Editorial Guide on HKCTT – Problem & Procedure
2. **Editorial Guide on HKCTT – Drug (Medication Terminology Table)**
3. Editorial Guide on HKCTT – Laboratory



**Editorial Guide on Hong Kong Clinical  
Terminology Table –  
Drugs (Medication Terminology Table)**  
[Document Reference No., G52]  
Version 1.0

December 2013

The Government of the Hong Kong Special Administrative Region

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DRAFT



# Editorial Guide on Hong Kong Clinical Terminology Table (HKCTT)

## Editorial Guide

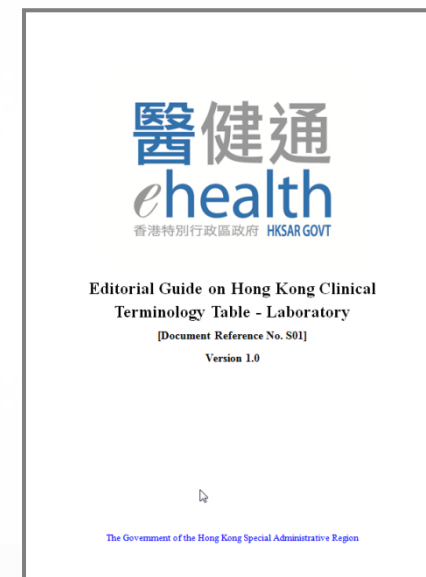
1. Editorial Guide on HKCTT – Overview
2. Guide on Implementation & Maintenance of the HKCTT

## Specific Papers

1. Editorial Guide on HKCTT – Problem & Procedure
2. Editorial Guide on HKCTT – Drug (Medication Terminology Table)
3. **Editorial Guide on HKCTT – Laboratory**

# Editorial Guide on Hong Kong Clinical Terminology Table- Laboratory

- Document that provides an overview of laboratory terminology in the HKCTT
- States the principles and rules of creation and management of HKCTT laboratory terms
- To be endorsed by the eHR Information Standards Domain Group on Laboratory Record (eHR IS DG (Lab))



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## Chapter:

1. Introduction
2. Laboratory Test in the HKCTT
3. Organism in the HKCTT
4. Specimen in HKCTT
5. Reference Terminology
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Editorial Guide on Hong Kong Clinical Terminology Table--  
Laboratory [Draft Paper]

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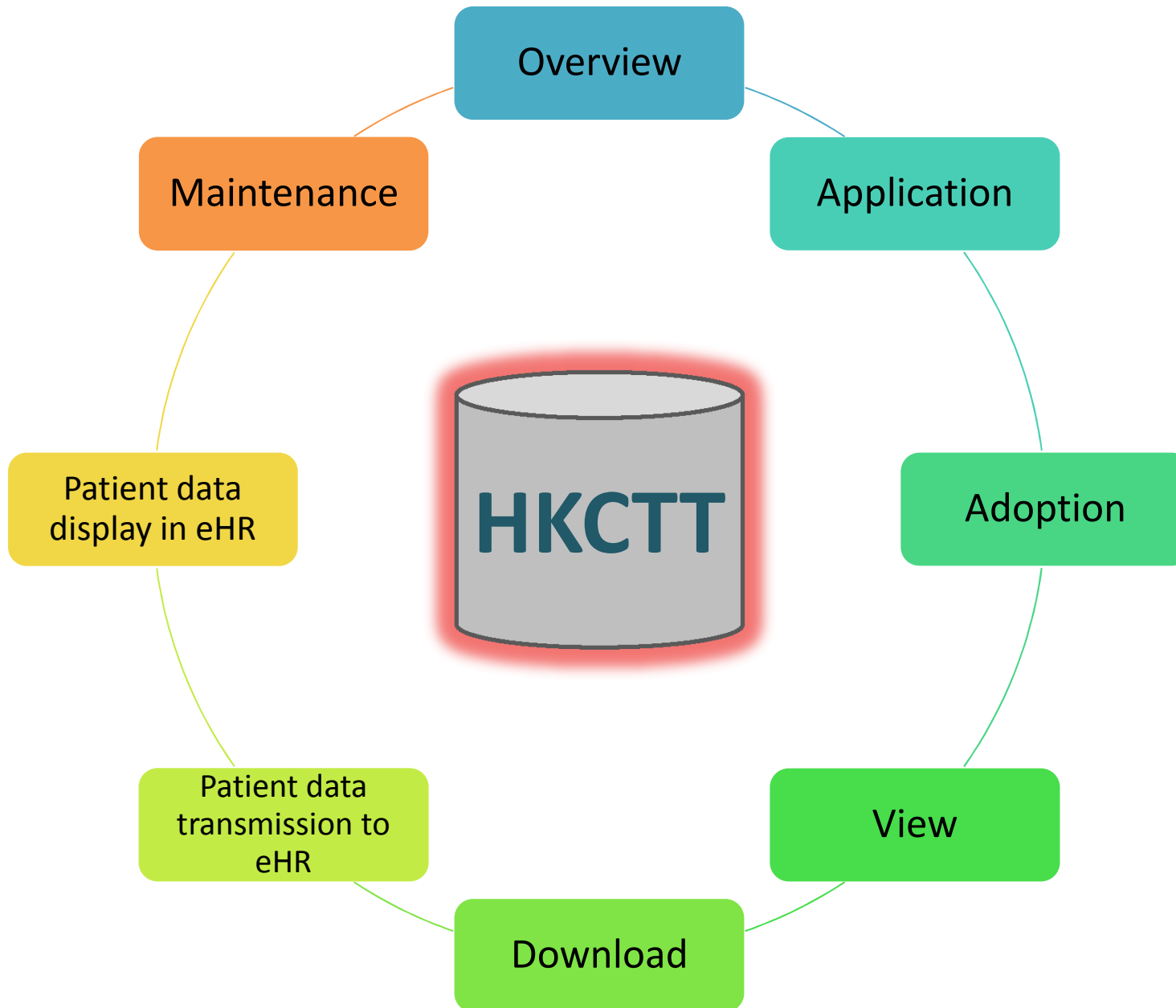
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# Terminology for eHR - HKCTT





**Thank You**

