電子健康記錄互通系統



Using HKCTT :

Drugs

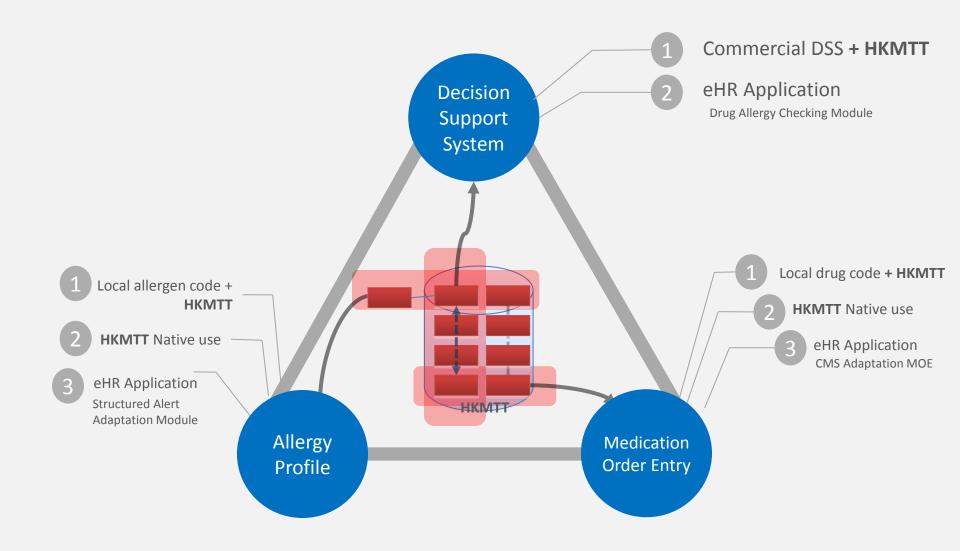
Johnny Wong

Pharmacist, Hospital Authority

Workshop on Improve Patient Safety with Drug Standards 3 March 2017



Enhancing medication safety with eHR Medication terminology





Objectives

- To explain what is HKCTT Drugs
- To explain the modes of adopting HKCTT Drugs
- To explain on how to use the DRUG-related data files



What is HKCTT – Drugs

(also known as Hong Kong Medication Terminology Table)



What is Hong Kong Medication Terminology Table

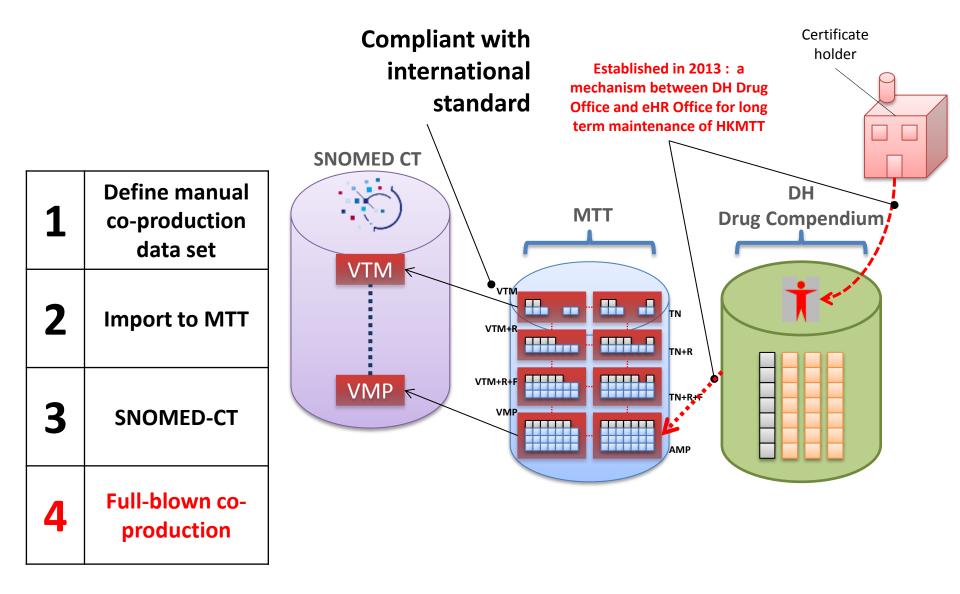
HKMTT is a compilation of identifying descriptions with coding of individual drugs registered under the Pharmacy and Poison Board, which contains information of pharmaceutical product and their components including dosage form and strength.



What is Hong Kong Medication Terminology Table

- robust and sustainable;
- support recording of prescription and dispensing from healthcare sector;
- Schema in the form of a logical and navigable hierarchies, allowing the submission of drug data at various levels of granularity;
- The core HKMTT tables are supported by supporting information tables (i.e. the Qualifier tables, see later notes) that must also be constructed in the same manner;
- The HKMTT table was designed in such a way that it is interoperable with other international standards (i.e. SNOMED-CT)





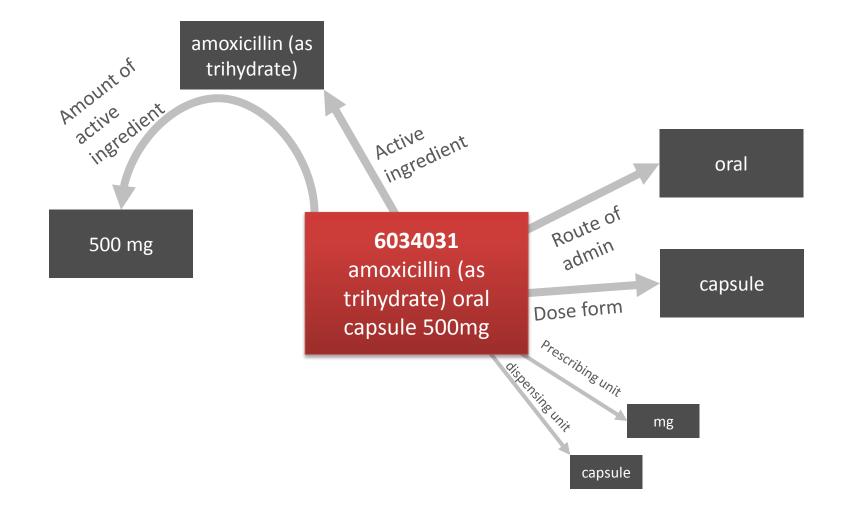
We have established a long term mechanism with Department of Health for continued update of HKMTT. The HKMTT table is a unique and independent database of drugs aimed to provide standardised medication terminologies for all Hong Kong healthcare providers; it is also compliant to an international standard called the SNOMED CT.

HKMTT Components

- The HKMTT has conceptually been designed to encompass eight distinct "product" concepts
- MTT concepts are supported by the Qualifier and Substance tables
- medication terminologies are designed for clinical activities (e.g. prescribing and dispensing, history of allergy or adverse drug reactions, vaccine names)

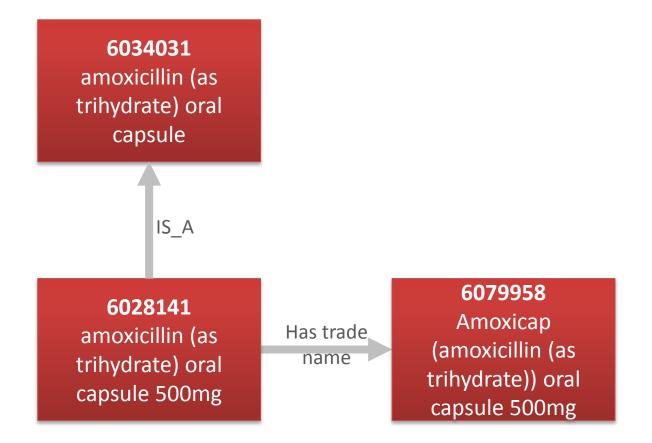
Why we need these 4 levels and also the generic / proprietary data ?

What is a concept?



A concept is a clinical meaning identified by a unique identifier (concept ID), and is formally defined in terms of relationships with other concepts, giving it a unique and explicit meaning.

What is a concept?



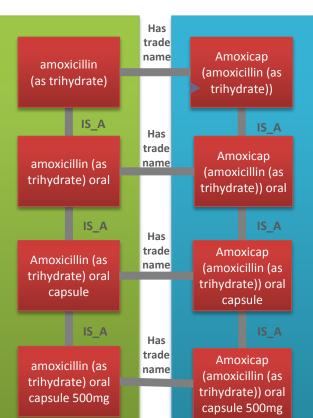
For example, the VMP amoxicillin (as trihydrate) oral capsule 500 mg IS_A amoxicillin (as trihydrate) oral capsule preparation, and has trade name Amoxicap (amoxicillin (as trihydrate)) oral capsule 500 mg

Non-proprietary product concepts

Proprietary product concepts

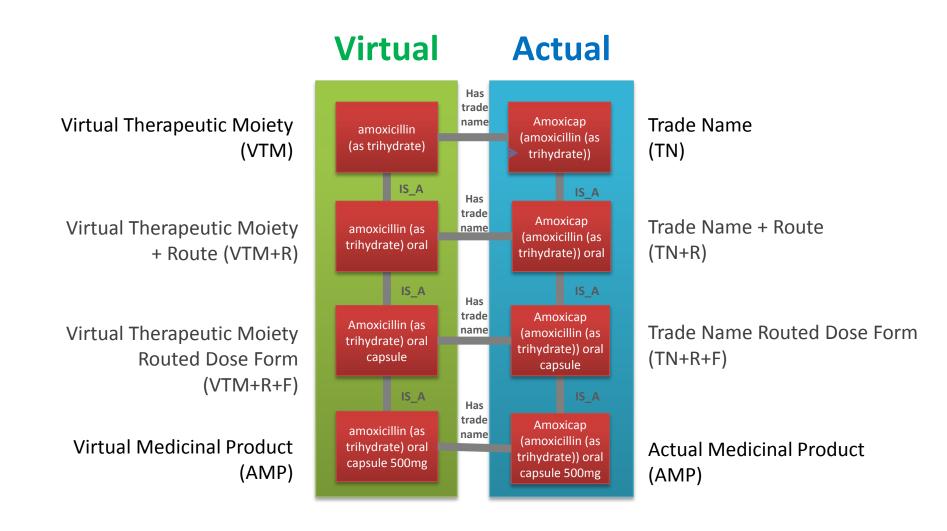
Virtual

Actual



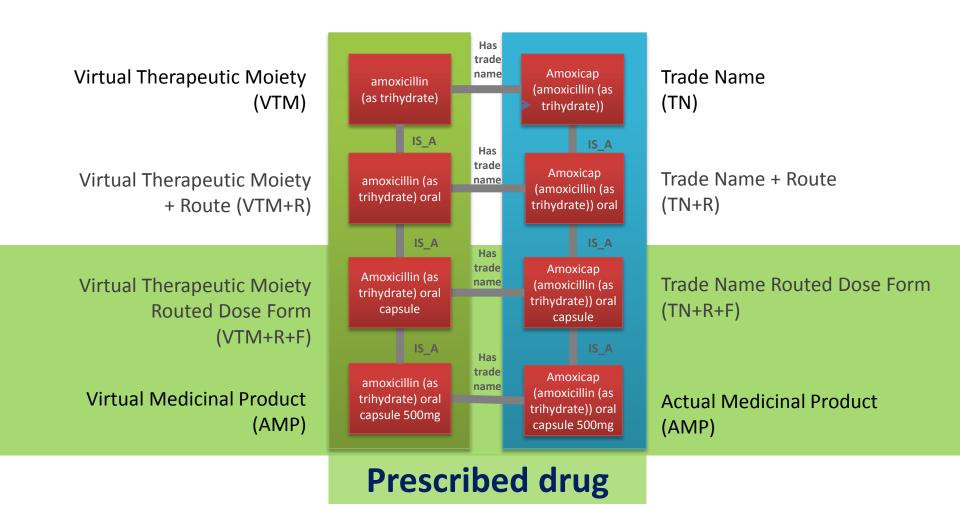
Product concepts are used to identify drug products, including proprietary and non-proprietary (generic) at various levels of granularity, forming a two-arm structure in the HKMTT, each linked with relationships upstream and trade product relationship across.

The 8 Boxes HKMTT Product Hierarchy



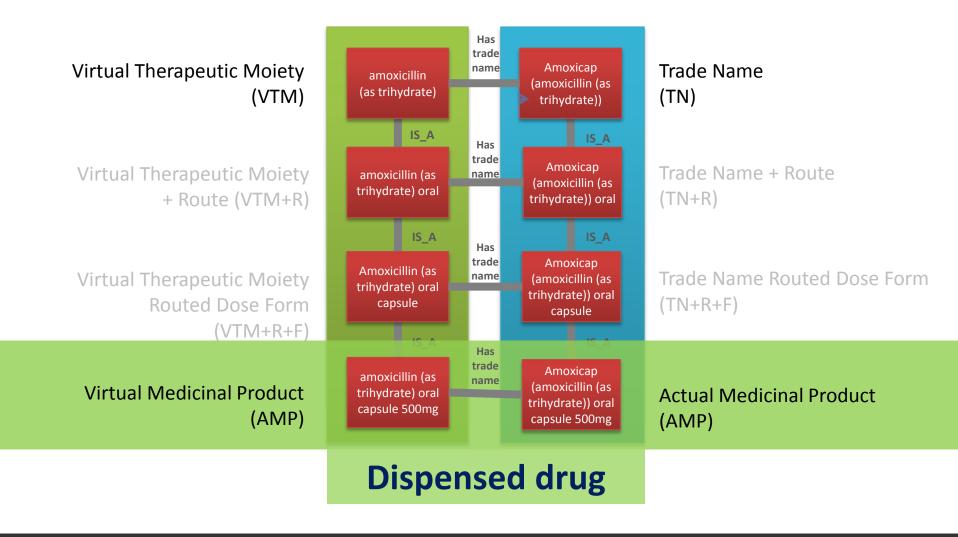
The two-arm HKMTT formed a 8 boxes structure, from VTM to VMP, and TN to AMP, with increasing product granularity from top down, and each has their designated use purpose to support eHR.

Which concept for what: Prescribed drugs



Prescribers may prescribe medications with or without specifying product strength; hence the route-dose form levels are suitable for describing prescribed drugs when prescriber did not specify the exact product strength; whereas VMP are used to describe situations where prescribers prescribed a generic drug product, and AMP for the exact branded product and strength.

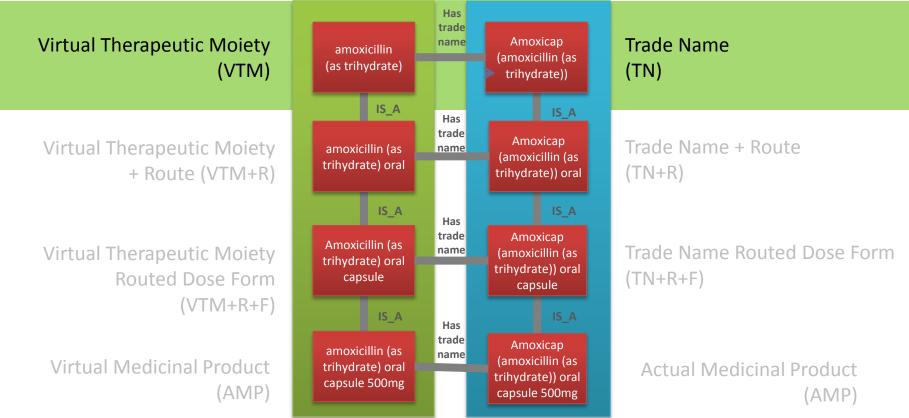
Which concept for what: Dispensed drugs



VMP is used when pharmacy system record the dispensed medications without specifying the exact brand; AMP for exact branded products

Which concept for what: Dispensed drugs

Allergens/ADR Causative Agents



A Virtual Therapeutic Moiety (VTM) is the abstract representation of the active ingredient(s) or substance(s), which when formulated as a single medicinal product, and is intended for use in the treatment or prevent disease in human. VTM and TN are used to support documentation of allergens / ADR causative agents



Prescribed

medication



Dispensed medication

Allergy rabies virus (inactivated) vaccine NSAIDs vcclosporin vitamin K1 (phytomenadione) DDAVP (desmopressin acetate) aspirin

Drug allergen

Adverse Drug Reaction sulphadiazine silver (1) Zetro (azithromycin) calcium lactate sodium chloride Paracefed-Nf (1)

ADR

causative

agents



Vaccines

What is HKMTT used for? Need to review the structure and content of your local drug information database, and carefully consider mechanism of adopting HKMTT

Editorial Guide on Hong Kong Clinical Terminology Table – Drugs (Medication Terminology Table)

Website:

http://www.ehealth.gov.hk/filemanager/content/pdf/e n/HKCTT_Drugs_Medication_Terminology_Table.pdf



Editorial Guide on Hong Kong Clinical Terminology Table – Drugs (Medication Terminology Table) [Document Reference No. G52] Version 1.1

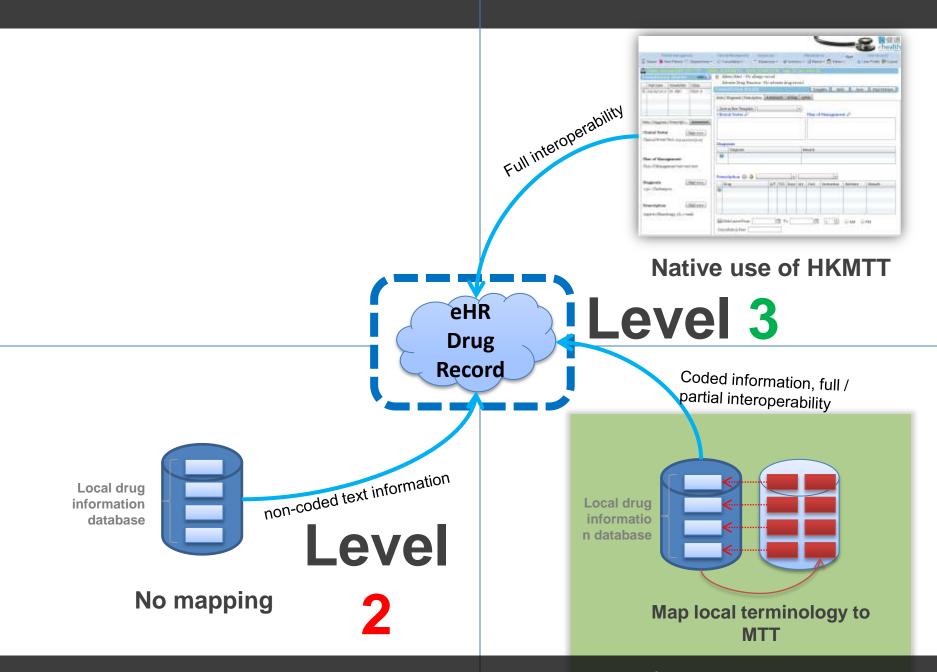
January 2015

The Government of the Hong Kong Special Administrative Region

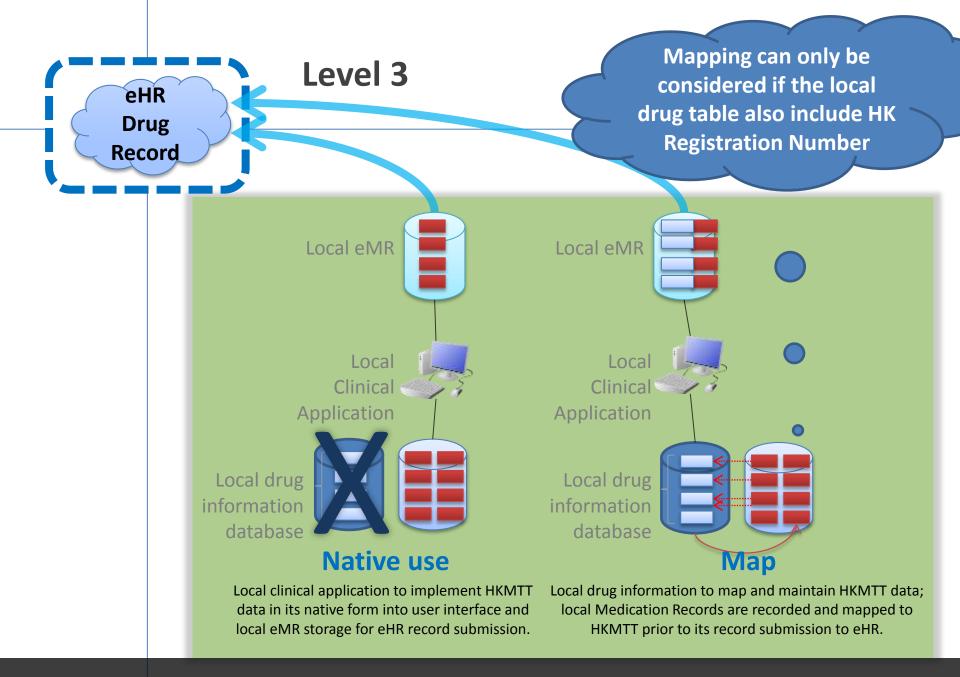
For more information about HKCTT – Drugs (HKMTT), please visit eHealth.gov.hk

Mode of adopting HKCTT – Drugs





2-Levels-3-Approaches of submitting your Prescribing / Dispensing Record



Implementing HKMTT : Native use or Mapping to HKMTT

mode of HKMTT Adoption	eHR Data Compliance Level
Native use	Level 3
Map via HK Reg	Level 3
use local terminology	Level 2

Native use of HKCTT is highly recommended

Preparations before adopting eHR standard

1	Identify local stakeholder(s) e.g. consult pharmacy on drug information database; validate mapping by a pharmacist
2	Assess interoperability of your drug database; mapping should only be considered if the local drug table also include DH HK Registration Number
3	Assess impact of adopting eHR standards on existing clinical workflow/system; review local eMR
3	Database revamp and data preparation where necessary; consider adopting eHR Applications or native adoption of HKCTT*
4	Approach eHR Information Standards Office; sign up for HKCTT; undertake eHRSS Data Compliance Test*
5	Monitor and review adopted HKCTT at local system; keep abreast of latest developments in eHR standards

Using DRUG-related data files

(Pharmaceutical Products, Drug-related substances, Drug-related qualifiers)



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Quick Links - Administration

Administration

User Account

<u>Update Own Account</u>

System News

Regular System Maintenance

Regular system maintenance is scheduled on every 3rd and 4th Saturday/Sunday of each month. You may experience intermittent service interruption in accessing all system functions and patients' clinical records may not include the latest updates.

_ 0 X

Non-regular System Maintenance

None

User Documents

- Notice to Users
- Release Note
- Manual & User Guide
- ▶ eHRSS Training Materials (for eHR Registration Centres at Department of Health)
- ▶ eHRSS Training Materials (for eHR Registration Centres at Hospital Authority)
- eHRSS Training Materials (for other eHR Registration Centres)

▶ eHRSS Training Materials (for eHR HCP - Training on eHRSS Registration)

Download HKCTT – Drug data files from eHR

	Administration	Standards	Download	Information			JOHNNY SZE HO WONG 🖂 (Logout)
							Click here for the latest List of Third Party Terminologies
HKCTT for	CMS Adaptation	1					
Release Date	HKCTT	Version	Engine	Version	Remarks	Download	
16-Oct-2016	2016.10).16_87 (1.0.14)	1.X			Download	
HKCTT							
Release Date	e Version	ı	Nature			Download	
16-Oct-2016	2016.10).16_86	All natu	res		Download	
15-Oct-2016	2016.10).15_82	Diagno	sis, Procedure		Download	
15-Oct-2016	2016.10).15_83	Laborat	ory Test, Organism, Specim	en	Download	
16-Oct-2016	2016.10).16_85	Pharma	ceutical Product, Drug relate	ed Substances, Drug related Qualifier	Download	
						վեղ	
ICD10							
Release	Version	ı	Remar	(\$		Download	
2010	2010		The ver	sion is being referenced by I	HKCTT.	Download	
2001	2001		The ver	sion is being referenced by I	IKCTT.	Download	
1996	1996 MI	BD	The ver	sion is being referenced by I	IKCTT.	Download	
ICPC2							
Release Date	e Version	ı	Remar	(S		Download	
1995	2.0		The ver	sion is being referenced by I	HKCTT.	Download	
LOINC							
* Please refer	to http://loinc.org/	downloads (LOINC	® version 2.54 is b	eing referenced by HKCTT)			

...download it from eHR-IAMS Download Centre

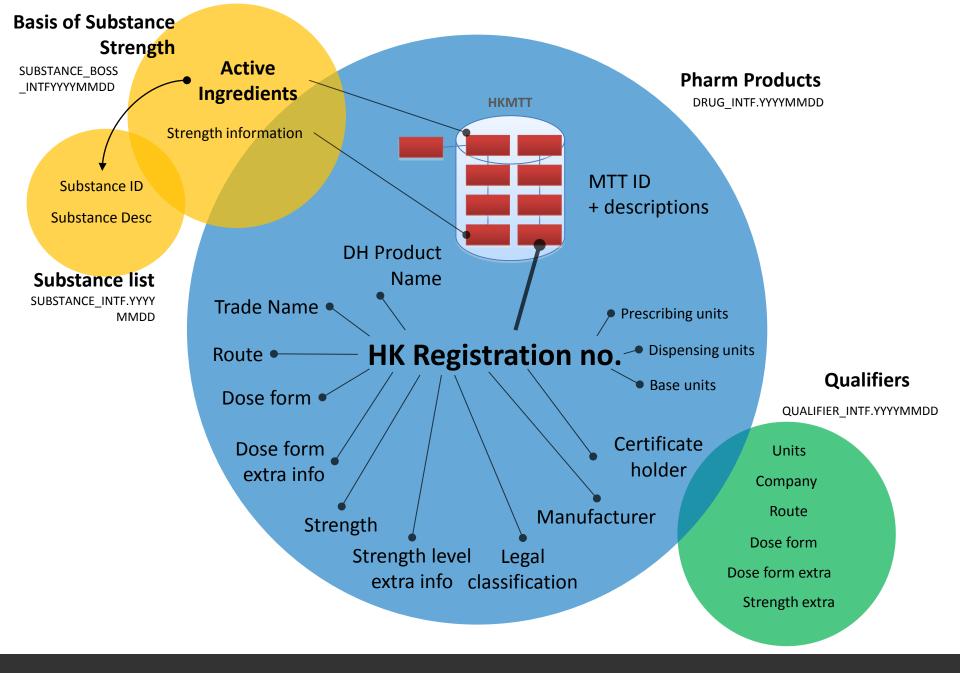
HKCTT Drug bundle zipped file



iams-hkctt-ehr-drug-2015.07.14.zip

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	SIZE	Packeu	File folder			
DRUG INTF.20150714	32,092,342	2,240,302				
QUALIFIER INTF.20150714	369,678	50,264				
SUBSTANCE_BOSS_INTF.20150714	1,033,120	164,207	20150714 File			
SUBSTANCE_INTF.20150714	155,735	36,796	20150714 File			
iams-hkctt-ehr-drug-2015.07.14-readme.txt	1,337	329	Text Document			
Terms_of_use_for_HKCTT.txt	8,207	3,170	Text Document			
(III .						
		Total 33,660,419 bytes in 6 files				

4 data files2 text files



What is contained in HKMTT Pharmaceutical Product data?

Example 1

Example of local HKMTT mapping by a healthcare provider

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Home Insert

File

Western Medicine code at UHS_mapping.xlsx - Microsoft Excel

Review View Page Layout Formulas

Data

1 SOURCE DATA (PROPOSED MAPPING TO HK CTH K Reg 2 HK-reg - Code Description VIMP TEF VMP EFF VMP EFF VIM TERM VIM TERM 397 40747 MINO01 Minocycline Tab 50mg Description VIMP TEF VMP EFF VIMP TEF VIM TERM VIM 398 40749 CIME CIMETIDINE TAB 400MG Minocycline Tab 50mg 6047333 minocycline (as hycA 6012844 ON P 399 41122 CALTD CALTRATE 600MG with Vit.D 60's/bott 6039195 calcium (as carbon A 6004748 calcu 400 41253 VIBR01 VIBRO1L NASAL GEL #N/A #N/A #HV/A #N/A 401 41416 FOSA FOSAMAX TAB 10MG 6013279 alendronic acid (as A 6013284 warf 402 41421 WARF WARFARIN TAB 1mg mapicillin Trihydrate 2 6004871 ampicillin (as trihy A 6013284 warf 404 41454 OIAMO1 DIAMICRONIE Genus Genus Genus Genus Genus Genus Genus Genus Genus	I FIR DESC VIII REMARKS
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	conazole nitra A For Checking - Proposed mapping for checking and verificatio
	patitis A virus a For Checking - Proposed mapping for checking and verificatio
	Iroxychloroquir A For Checking - Proposed mapping for checking and verificatio

Mapping Allergens

Your local drug information

HK Reg. no.	Local code	Local description
36031	DICL	DICLOFENAC SODIUM
42943	СЕРН	CEPHALEXIN
27421	AUGM	AUGMENTIN

Allergens

used in local system

Maintain **HK Reg.** no. for each entry

Mapping Allergens

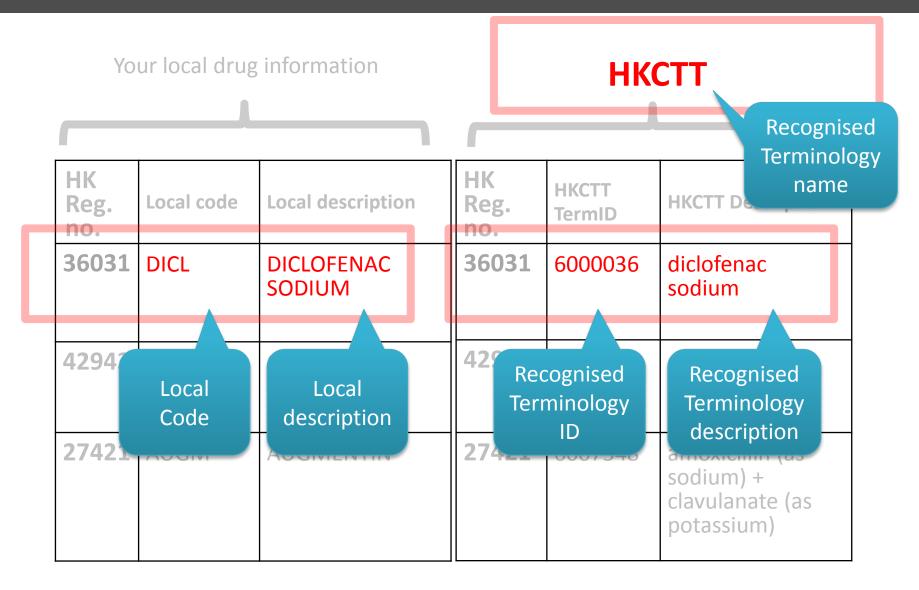
Your local drug information

Mapped **HKCTT Product Terms**

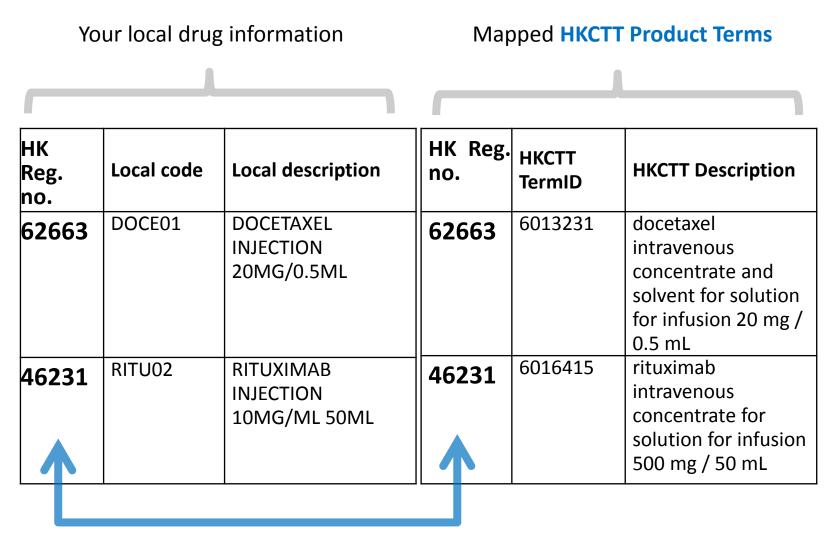
HK Reg. no.	Local code	Local description	HK Reg. no.	HKCTT TermID	HKCTT Description
36031	DICL	DICLOFENAC SODIUM	36031	6000036	diclofenac sodium
42943	CEPH	CEPHALEXIN	42943	6005340	cefalexin
27421	AUGM	AUGMENTIN	27421	6007548	amoxicillin (as sodium) + clavulanate (as potassium)

Matching HK Reg. no.

Mapping Allergens

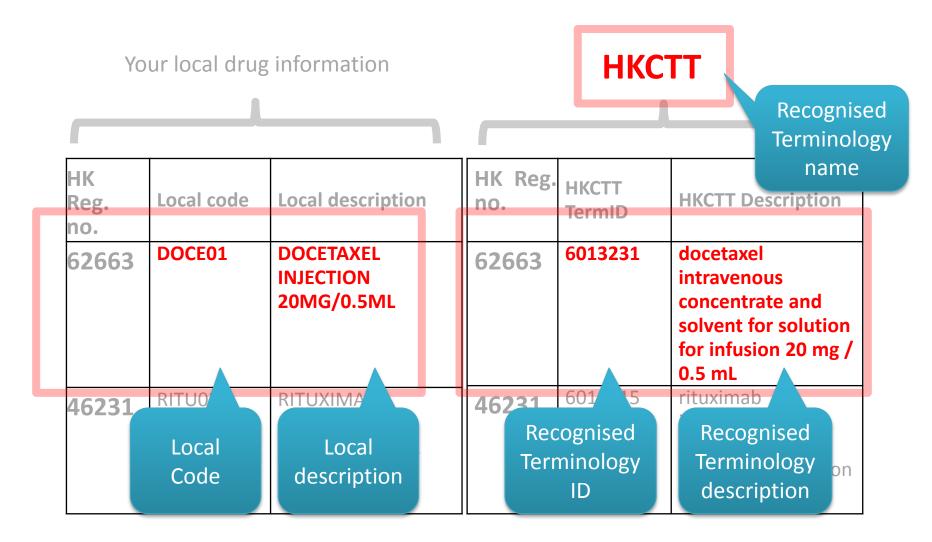


Mapping Drug Products

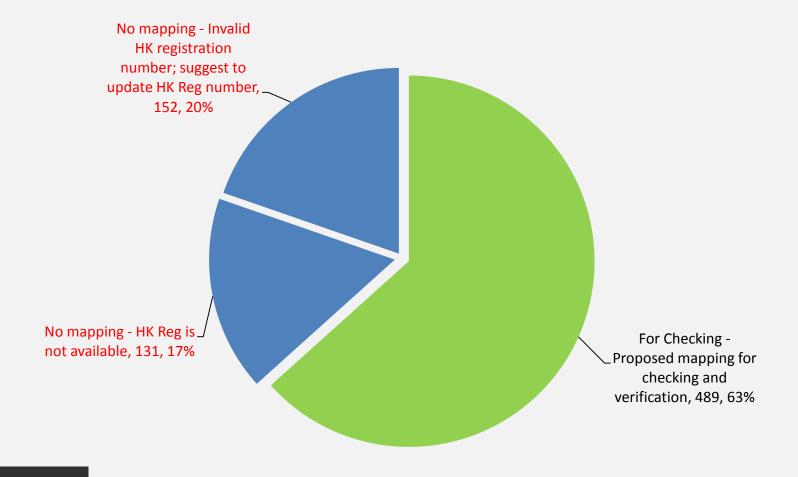


Matching HK Reg. no.

Mapping Drug Products



Drug Code mapping between your organisation drug table and HKCTT



Example

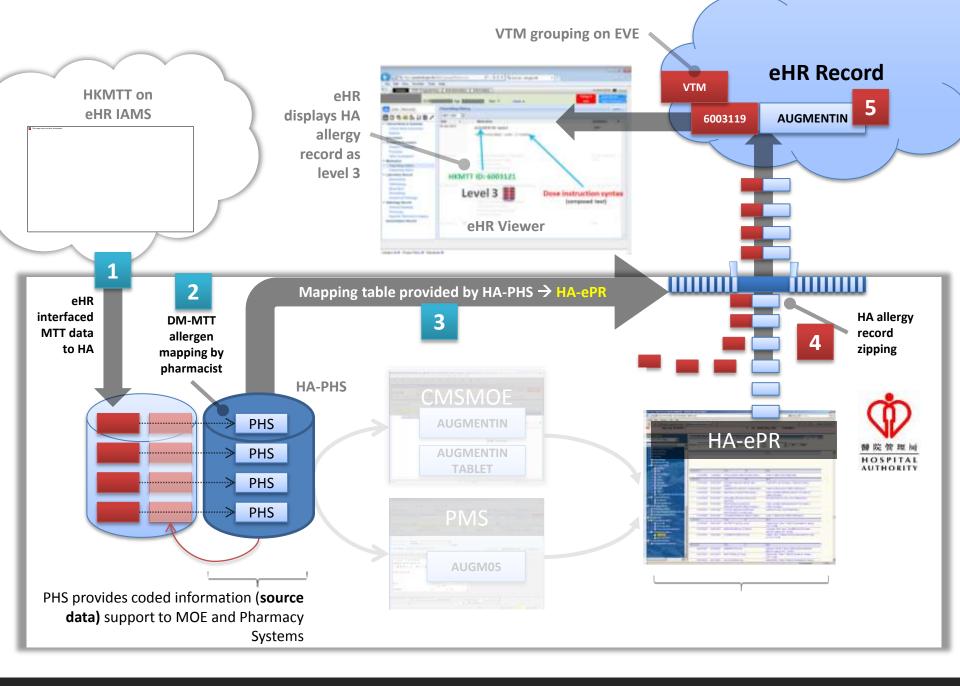
Analysis on mapping rate

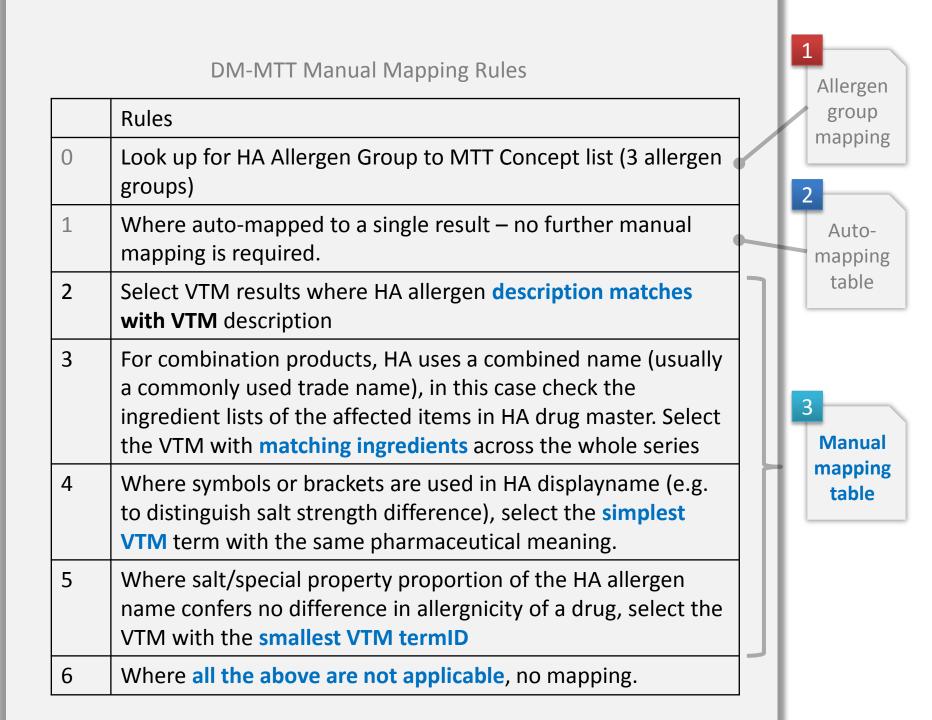
Example 2

Hospital Authority

HA's experience on allergen mapping

- The mapping rules mapping rules applied to our local record
- The technical we developed an automapper
- Problems
 - one-to-multiple
 - No mapping
- Data Compliance Test
- What happen if re-grade/exception







Where auto-mapped to a single result – no further manual mapping is required.

Rule 1

Select VTM results where HA allergen description matches with VTM description

Rule 2

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For example, HA Allergen "PLASMA PROTEIN FRACTION" has two mapped results due to two VTM results. Suggestion made to "6040531 | plasma protein fraction human" as the VTM desc matches with that of HA.

Pharmaceutical Supplies System (PH	HS) - Windows Internet Explorer	×
Pharmaceutical Supplies System (PHS - PRD Rule 2	D 1.6.0.15) Institution: PHQ PCU: PHQ User ID: wsh777 Workstation: hi-johnny Login Time: 14/01/2014 11	1:54:34
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Item Code PLAS05	HQ Item Suspend Y V DEL V	
Item Description PLASMA PRO	OTEIN FRACTION INJECTION 5% 50ML	
🖌 Drug Detail 🕕 IPMOE	Manufacturer Strocurement	
General Information MDS Info	nformation 📃 MOE - Common Dosage 🖹 MOE - Supplementary 🗍 CAPD 😭 CARS/PMS-IP 🥎 Special Attribute	_
Display Name	PLASMA PROTEIN FRACTION	
Chinese Display Name		
Tallman Display Name		
Salt / Special Property	Reference made	
Extra Drug Information	to PHS data	
Universal Trade Name	PLASMANATE	
Chinese Universal Trade Name		
Meal		
Solvent Item	N V Diluent/IVF	
Drug Properties	Dosage Compulsory Y Y Strength Compulsory Y Y External N Y	
Drug Scope	200 V For In-Patient Use Only Suggested Duration Day(s)	
	Value Unit Chemo. Drug N 👻	
Strength	5 % L Value Unit	
Minimum Dispense Dose	0.1 ML Upper Dose Limit ML	
Formulary Status	1 V General Drug	
sFI Example	N V Not Applicable	
SFI Price Model (Public Patient)	t) 2 V Market Drug Price Common Pack Size 1	

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Example

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Reference has to be made to all affected item codes to ensure the item codes of the same displayname (allergen) also agrees on such identical HA description.

PLASMA PROTEIN FRACTION

🕕 General Information 🕕 MDS Information 📃 MOE - Common Dosage

Display Name

(1) General Information (1) MDS Information E MOE - Common Dosage

Display Name

PLASMA PROTEIN FRACTION

Matching ingredients between Drug Master across the whole series of affected item codes and MTT VTM Description

Rule 3

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70	41653			cocillana liquid extract + senega liquid extract + squill liquid extract	6032087	
	+1033	000101			0032001	
71	1107			cocillana liquid extract + euphorbia liquid extract +	5020077	
-11	21297	COCIUT	COMPOUND	senega liquid extract + squill liquid extract	6032077	
			COCILLANA	cocillana liquid extract + euphorbia liquid extract +		
-72	43887	COCI01	COMPOUND	senega liquid extract + squill liquid extract	6032077	
-				cocillana liquid extract + senega liquid extract + squill		
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For example, HA Allergen "COCILLANA COMPOUND" has two mapped results due to two VTM results. Suggest to map to "6032077" has this VTM is related to the matching list of active ingredients to that listed in HA drug master.

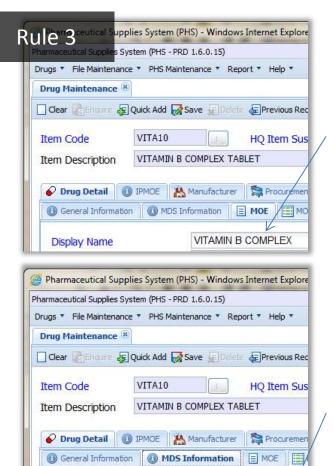
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🖌 Drug Detail 🔞) IPMOE 🛛 🖄 Manufacturer 🛛 🞇 Procurement				
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3 101472	SQUILL LIQUID EXTRACT				
4 101800	COCILLANA LIQUID EXTRACT				
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eady 2 of 380 records found

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MDS Send Option Single Ingredient

1 101361

Example

101554

Add Contraction Add Ingredient Code Ingredient

N 🗸

RIBOFLAVIN

THIAMINE HCL NICOTINAMIDE

Ingredient Description

A 🛛 SEND FOR DRUG CROSS REFÉRE

VITA10 & VITA25 shares the same displayname (Allergen) "VITAMIN B COMPLEX"

...but differing list of active ingredients

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D	isplay Name	VITAMIN B COMPLEX								
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For example, HA Allergen "AUGMENTIN" has two mapped results due to two VTM results. Suggestion made to select one of these based on specific reasons

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select the simplest VTM term with the same pharmaceutical meaning.

Rule 4

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155	36811	METO01	METOCLOPRAMIDE HCL	metoclopramide hydrochloride	6038739	Select this one default as VTM matches with HA displayname+salt and is a simplier term	
156	07177	METO01	METOCLOPRAMIDE HCL	metoclopramide hydrochloride	6038739	Select this one default as VTM matches with HA displayname+salt and is a simplier term	
157	37155	METO02	METOCLOPRAMIDE HCL	metoclopramide hydrochloride	6038739	Select this one default as VTM matches with HA displayname+salt and is a simplier term	
158	07173	METO03	METOCLOPRAMIDE HCL	metoclopramide (as hydrochloride)	6038735	Remove this one	
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Where all mapped VTM results are referring to the same substance, in this case "metoclopramide hydrochloride" and ""metoclopramide hydrochloride" refers to the same substanace, the bracket added in VTM was used to differentiate differences in strength conferred by salt property at VMP levels. In this case, select the simplest term. Difference in salt information of HA allergen name confers no difference in allergenicity of a drug

Rule 5

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7	-			amoxicillin (as		avulanate		_	-			e as default a	s "sodium	" and "tri	ihvdrate'	' does not a	ffect the alle	genicity of th	e drug its	elf
8	47298	AUGM01		amoxicillin (as								as default as			-				-	
9	52246	AUGM01		amoxicillin (as								as default as								
10	42463	AUGM01	AUGMENTIN	amoxicillin (as	trihydrate) + cla	avulanate	(as potassium)	60	025297	Select t	nis one	as default as	s "sodium	" and "tri	ihydrate'	' does not a	ffect the aller	genicity of th	e drug its	elf
11	41947	AUGM02	AUGMENTIN	amoxicillin (as	trihydrate) + cla	avulanate	(as potassium)	60	025297	Select t	nis one	e as default as	s "sodium	" and "tri	ihydrate'	' does not a	ffect the aller	genicity of th	e drug its	elf
12	24658	AUGM02	AUGMENTIN	amoxicillin (as	trihydrate) + cla	avulanate	(as potassium)	60	025297	Select t	nis one	as default as	s "sodium	" and "tri	ihydrate'	' does not a	ffect the alle	genicity of th	e drug its	elf
13	43478	AUGM02	AUGMENTIN	amoxicillin (as	trihydrate) + cla	avulanate	(as potassium)	60	025297	Select t	nis one	e as default as	s "sodium	" and "tri	ihydrate'	' does not a	ffect the aller	genicity of th	e drug its	elf
14	27422	AUGM03	AUGMENTIN	amoxicillin (as	sodium) + clav	ulanate (a	is potassium)	60	025286	Remove	this or	пе								
15	58181	AUGM03	AUGMENTIN	amoxicillin (as	sodium) + clav	ulanate (a	is potassium)	60	025286	Remove	this or	пе								
16	51188	AUGM04	AUGMENTIN	amoxicillin (as	sodium) + clav	ulanate (a	is potassium)	60	025286	Remove	this or	пе								
17	52053	AUGM04	AUGMENTIN	amoxicillin (as	sodium) + clav	ulanate (a	is potassium)	60	025286	Remove	this or	пе								
18	27421	AUGM04	AUGMENTIN	amoxicillin (as	sodium) + clav	ulanate (a	is potassium)	60	025286	Remove	this or	пе								
19	42252	AUGM05	AUGMENTIN	amoxicillin (as	trihydrate) + cla	avulanate	(as potassium)	60	025297	Select t	nis one	e as default as	s "sodium	" and "tri	ihydrate'	' does not a	ffect the aller	genicity of th	e drug its	elf
_20	52242	AUGM05	AUGMENTIN	amoxicillin (as	trihydrate) + cla	avulanate	(as potassium)	60	025297	Select t	nis one	e as default as	s "sodium	" and "tri	ihydrate'	' does not a	ffect the aller	genicity of th	e drug its	elf
21	56737	AUGM05	AUGMENTIN	amoxicillin (as	trihydrate) + cla	avulanate	(as potassium)	60	025297	Select t	nis one	e as default as	s "sodium	" and "tri	ihydrate'	' does not a	ffect the aller	genicity of th	e drug its	elf
_22	56072	AUGM06	AUGMENTIN	amoxicillin (as	trihydrate) + cla	avulanate	(as potassium)	60	025297	Select t	nis one	e as default as	s "sodium	" and "tri	ihydrate'	' does not a	ffect the aller	genicity of th	e drug its	elf
	56738	AUGM06		amoxicillin (as								e as default as			•			• •	-	
_24	42735	AUGM06		amoxicillin (as								e as default as								
	43480	AUGM07		amoxicillin (as								e as default as			•			• •	-	
	52247	AUGM07		amoxicillin (as								e as default as								
	42735	S00201					(as potassium)					e as default as			•			• •	-	
	42252	S00484	AUGMENTIN	amoxicillin (as	trihydrate) + cla	avulanate	(as potassium)	60)25297	Select t	nis one	e as default as	s "sodium	" and "tri	ihydrate'	' does not a	ffect the aller	genicity of th	e drug its	elf
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386		ŀ	A Allergen		Mapped V	VTMs						Suggest	ed							

 With the smallest termID (ie the older term)

Manual Mapping

 (Displayname+salt)

Example

🦉 Pharm	naceutical Supplies System	(PHS) - Windows Internet Explorer				
Pharmace	utical Supplies System (PHS - L	JAT 1.7.0.4)	Institution: PHQ PCU: PHQ	User ID: jwongmschq	Workstation: hi-johnny	Login Time: 30/09/2014 09:17:50
Drugs *	File Maintenance PHS Ma	intenance 🔹 Report 👻 Help 👻				
	Auxiliary					
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	Regimen 🕨					
	Warning					
	DM-MTT Mapping					
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http://pn	ns-corp-dm-uat.server.ha.o	rg.hk:26812/pms-phs/phs.jsp#				🔍 100% 🔻

DM-MTT Mapping Maintenance on HA-Pharmaceutical Supplies System (PHS)

遵 Pharma	ceutical Supplies Syste	m (PHS) - Windows Internet	t Explorer								
Pharmaceuti	ical Supplies System (PHS	- UAT 1.7.0.4)			PCU: PHQ User ID: jv	vongmschq Workstation: hi-j	ohnny Login Time: 30/09/2014 09:17:50				
Drugs * F	ile Maintenance * PHS	Maintenance • Rep All	ergen Mappin	g tab 📗			Logout				
DM-MTT	Mapping (x)										
Clear	👌 Enquire 🔯 Save										
Mapping T	able Result Allerge	n Mapping									
Status	Status REVIEW V HA Allergen with manual mapping, to be reviewed due to underlying da Display Name/Item Code										
Status		en with manual mapping				VTM eHR description	VTM eHR status				
			o be reviewed due to underly	ving data chan	ged						
		with multiple VTM Term ID n with single VTM mapping									
	SINGLE - NA Allerge	n wich single v na mapping				Tanada					
						to search	for types of				
						mapping	by "Status"				
Display	Name + Salt/Specia	I Property			elated Items	SY.]					
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Map To	VTM TermID 🔺	VTM eHR description	VTM eHR status	Map To	VTM TermID 🔺	VTM eHR description	VTM eHR status				
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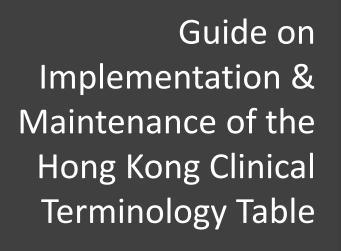
The <Allergen Mapping> tab displays the types of mapping, and allow search for specific manual mapping data

@ Pharmace	eutical Supplies System	(PHS) - Windows Internet Exp	lorer								
Pharmaceutical Supplies System (PHS - PRD 1.8.0.6) Institution: PHQ PCU: PHQ User ID: wsh777 Workstation: hi-johnny Login Time: 03/06/2015 11:29:08											
Drugs * File Maintee PHS Maintenance * Report * Help * HA Allergen eHR Allergen											
	/DUIC	Displayname±Salt)		нкмтт утм							
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Mapping Tat	Allergen	Mapping									
Status	MAPPED 🔻 HA	Allergen with manual mappin	,		Display Name/Item Code						
Status	Display name	Salt/Special	property	VTM TermID	VTM fu	I description	VTM eHR description	VTM eHR status			
MAPPED	ACTIFED COMPOUN	D		6001260	pseude	e phosphate + bephedrine hydrochloride lidine hydrochloride	codeine phosphate + pseudoephedrine hydrochloride + triprolidine hydrochloride	Active	Ê		
MAPPED	ACYCLOVIR	SODIUM		6013724	aciclov	r (as sodium)	aciclovir (as sodium)	Active			
MAPPED	ADRENALINE	ACID TARTE PRESERVA		6004964	epineph	rine (as bitartrate)	epinephrine (as bitartrate)	Active			
MAPPED	ALBUMIN AGGREGA	ATED (MAA)		NO MAPPING							
MAPPED	ALISKIREN			6023652	aliskire	ı	aliskiren	Active			
MAPPED	ALPHA TOCOPHERY	/L ACETATE		6002236	vitamin acetate	E (as D-alpha tocoferil e)	vitamin E (as D-alpha tocoferil acetate)	Active			
MAPPED	ALUMINIUM HYDRO	KIDE		6001780	aluminiu	ım hydroxide	aluminium hydroxide	Active			
Display Name + Salt/Special Property ACTIFED COMPOUND 1. Select HA Allergen (source)								· · ·			
		• •		1.		Anergen isource					
Current	Mapping (10/11/2014)			New Map	ping (03/06/2015)					
Мар То	VTM TermID 🔺	VTM eHR description	VTM eHR	status	Мар То	VTM TermID 🔺	VTM eHR description	VTM eHR status			
	NO MAPPING					NO MAPPING					
	6001260	codeine phosphate + pseudoephedrine hydrochloride + triprolidine hydrochloride	Active			6001260	codeine phosphate + pseudoephedrine hydrochloride + triprolidine hydrochloride		. Select eHI TM (target		
	6002004	carbinoxamine maleate + codeine phosphate + pseudoephedrine hydrochloride	Active			6002004	carbinoxamine maleate + codeine phosphate + pseudoephedrine hydrochloride	Active			
							3. Sel	ect mapping r	eason		
Reason	Ingredients matched				Reason	Ingredients matched		(for audit)			
								e 1	.00% 👻 🔐		

Maintain Drug Master to MTT (DM-MTT) Mapping on PHS – HA Display name + salt mapped to MTT

maceutical	Supplies System (PHS -	UAT 1.7.0.4)		Inst	itution: PHQ	PCU: PHQ User ID: jwo	ongmschq Worksta	tion: hi-johnny	Login Time: 30/09/20)14 09:
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tatus M	IAPPED Y HA	Allergen with manual map	ping			Display Name	e/Item Code			
Status	Display name	Salt/Spe	cial property	VTM TermID	VTM fu	Il description	VTM eHR descrip	tion	VTM eHR status	
MAPPED	AUGMENTIN			6007548		illin (as sodium) + anate (as potassium)	amoxicillin (as soo clavulanate (as p		A	ľ
MAPPED	CHLORHEXIDINE GLUCON 2% IN 70% ALCOHOL			6086715	chlorhexidine gluconate + isopropyl alcohol		chlorhexidine gluconate + isopropyl alcohol		A	E
MAPPED	CIPROFLOXACIN	LACTA	ГЕ	6008148	ciprofloxacin (as lactate)		ciprofloxacin (as lactate)		A	
MAPPED	COCILLANA COMP	6012652	cocillana liquid extract + senega liquid extract + squill liquid extract		cocillana liquid ex liquid extract + so extract		A			
MAPPED	DEANXIT			6022060	flupentixol (as hydrochloride) + melitracen (as hydrochloride)		flupentixol (as hy melitracen (as hy		A	
MAPPED	DESMOPRESSIN	ACETA	TE	6008284	desmopressin acetate		desmopressin ac	etate	А	
MAPPED	DEXAMETHASONE	SODIUN	PHOSPHATE	6001500	dexam	ethasone sodium	dexamethasone s	odium	A	
Display Na	me + Salt/Special	Property AUGMENTIN				Related Items History				
Current M	apping (26/09/2014	4)		_	New Map	oping (30/09/2014)				
Мар То	VTM TermID 🔺	VTM eHR description	VTM eHR	status	Map To	VTM TermID 🔺	VTM eHR descript	ion	VTM eHR status	
	NO MAPPING					NO MAPPING				
	6004548	amoxicillin (as trihydrate) + clavulanate (as potassium)	A		V	6004548	amoxicillin (as trih clavulanate (as p		A	
	6007548	amoxicillin (as sodium) + clavulanate (as potassium)	A			6007548 01 - Description mate	amoxicillin (as soo	lium) + m)	A	
	6009860	urea	A			02 - Ingredients mate			A	
						03 - Simplest VTM se 04 - Smallest VTM Te 05 - All mapping rules	lected erm ID selected			
leason Ir	ngredients matched				Reason		(2050) 	3	~	

The bottom right is a panel for "New Mapping"



Please visit:

http://www.ehealth.gov.hk/filemanager/conte nt/pdf/en/HKCTT_Drugs_Medication_Terminol ogy_Table.pdf



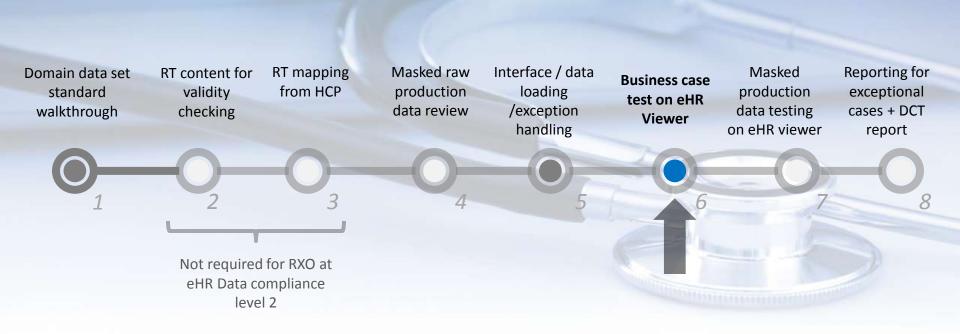
Guide on Implementation & Maintenance of the Hong Kong Clinical Terminology Table [Document Reference No. G54] Version 1.0

March 2016 The Government of the Hong Kong Special Administrative Region

For more information about implementing HKCTT, please visit eHealth.gov.hk

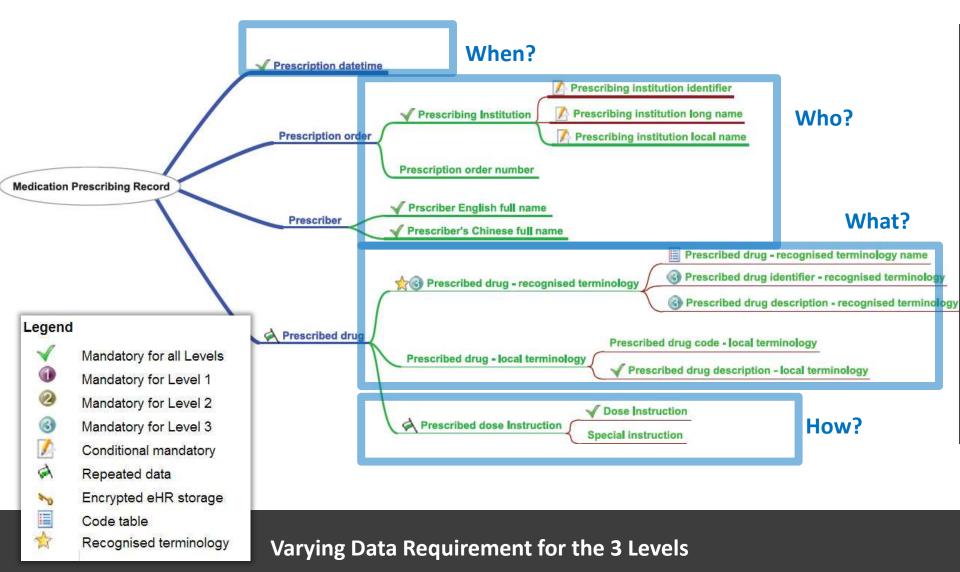
Data Compliance Test for Healthcare Providers

Data Compliance Test



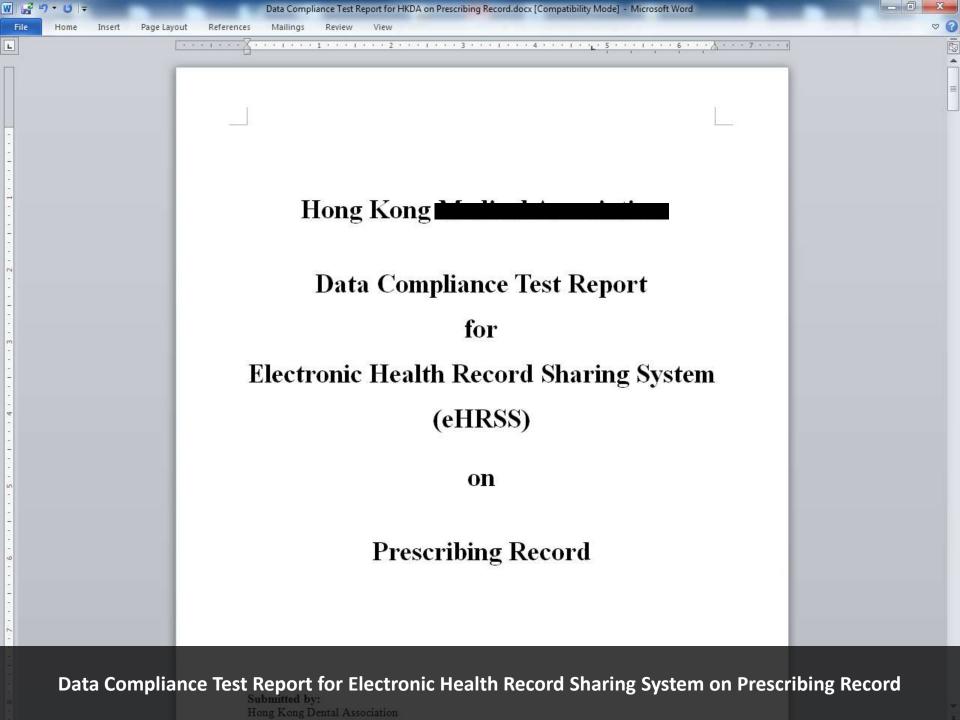


What data can be submitted : The Prescribing Record Data Set



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	А	В	С	D	E	F	G	H		
1	Prescribing	Record (Level	2) - Business	s test case - H	КМА					
2	Prescribing Record (Level 2) - Business test case - HKMA									
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	description - local		250MG	2MG/4ML	WEEK TAB 35MG	VACCINE		0.1%		
15	terminology		25000	2000, 1012				0.170		
	Prescribed dose	М	One tablet TDS for	4mL TID PRN	1 tablet once a week	1 dose stat	one tablet nocte	apply to the affected		
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Business test via CMSEHR



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eHR Information Standards

- Working Group on eHR & Information Standards (eHR IS WG)
- Coordinating Group on eHR Content & Information Standards (eHR IS CG)
- Domain Group on eHR Content & Information Standards (eHR IS DG)
- eHR Information Standards Office
- eHR Information
 Standards Document
 - eHR Content
 - Index Management
 - Clinical Terminology
- Links to websites of related Recognised Terminologies



Appendices - eHR Content and Codex

Full version of appendices. (PDF version)

Amendment Log (PDF version)

Index:

- 1. Appendix I. Healthcare Recipient Index (PDF version)
- 2. Appendix II. Encounter Record (PDF version)
- 3. Appendix III. Referral (PDF version)
- 4. Appendix IV. Clinical Note/Summary (PDF version)
- 5. Appendix V. Adverse Drug Reaction (PDF version)
- 6. Appendix VI. Allergy (PDF version)
- Appendix VII. Problem (PDF version)
- 8. Appendix VIII. Procedure (PDF version)
- 9. Appendix IX. Birth Record (PDF version)
- 10. Appendix X. Dispensing Record (PDF version)
- 11. Appendix XI. Prescribing Record (PDF version)
- 12. Appendix XII. Immunisation Record (PDF version)
- 13. Appendix XIII. Laboratory Record Anatomical Pathology (PDF version)
- 14. Appendix XIV. Laboratory Record General Laboratory (PDF version)
- 15. Appendix XV. Laboratory Record Microbiology (Culture & Sensitivity Test) (PDF version)

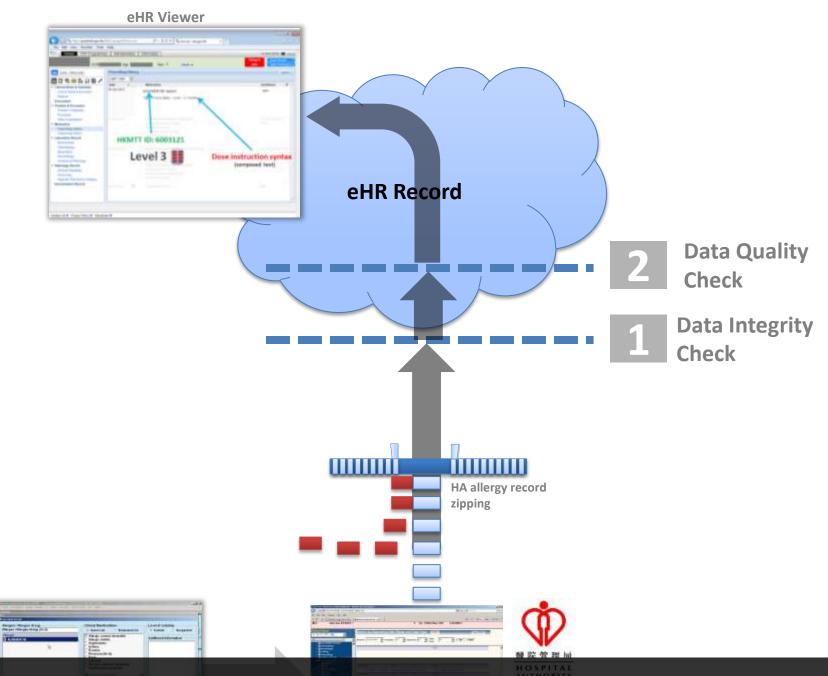
Appendix XVI. Radiology Examination (PDF version

For more information on eHR content standards, please visit www.ehealth.gov.hk

Data Validation by eHR upon receipt of record submitted from Healthcare providers

What would happen if there are problems on the uploaded record?

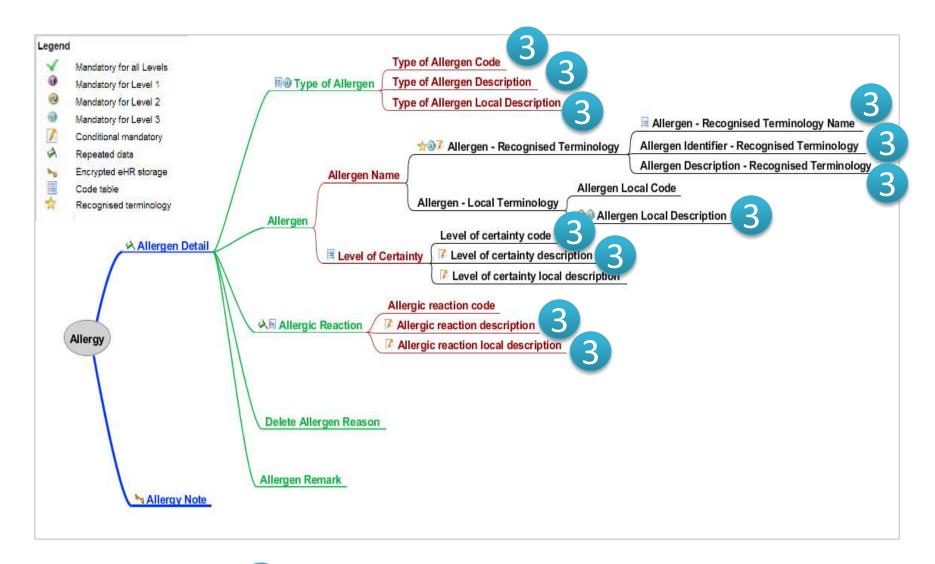
Validation layer, what checked, who check, show re-grade and exception reports on portal inbox.



eHR Data Integration Check (Message standard compliance) and Data Quality Check (Data standard compliance)

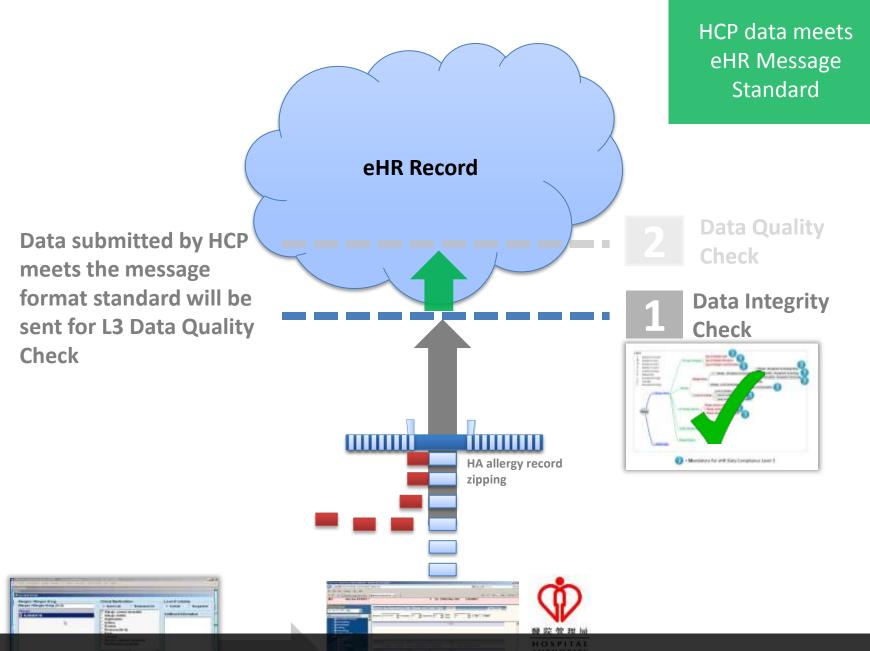
1 eHR Message Validation Checking Data Integrity Check

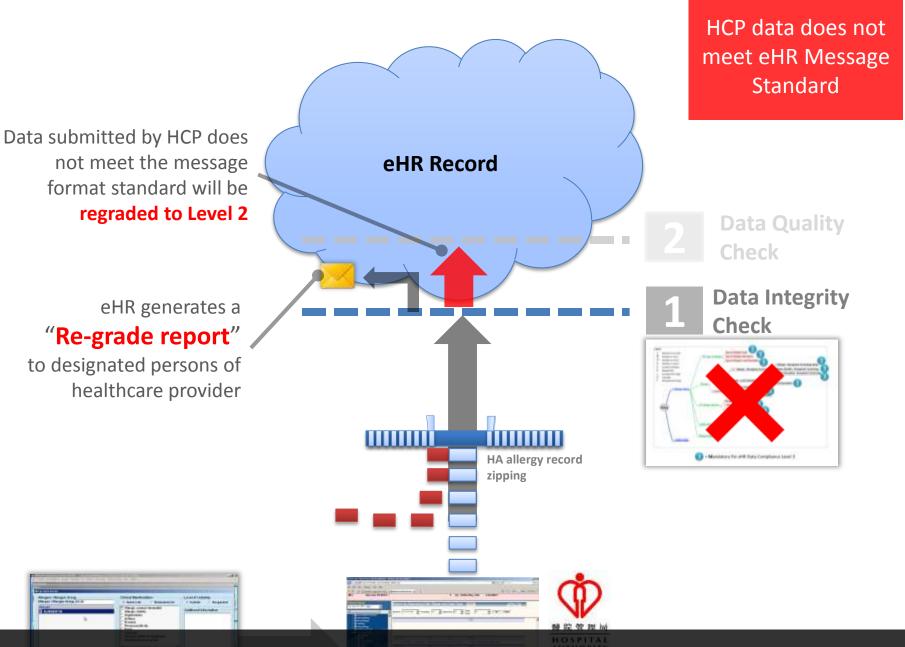
What is Message Standard Compliance ? (Data Integrity Check)



= Mandatory for eHR Data Compliance Level 3

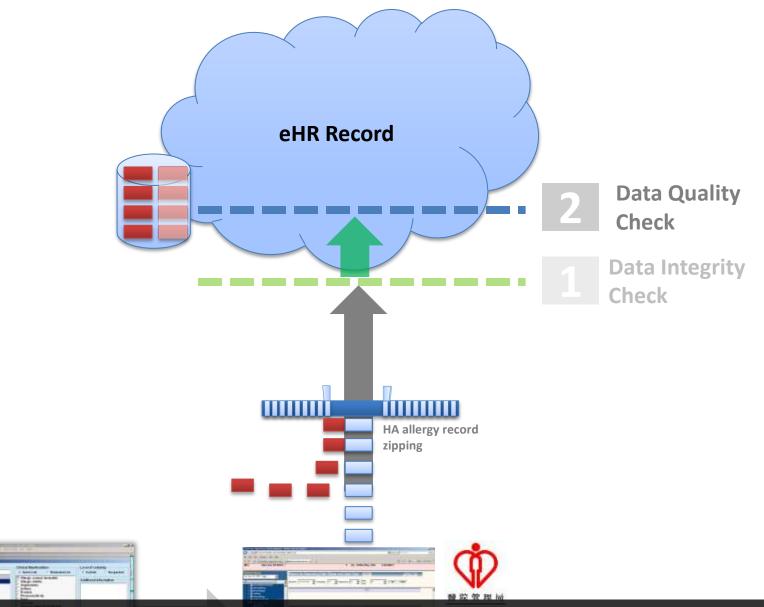
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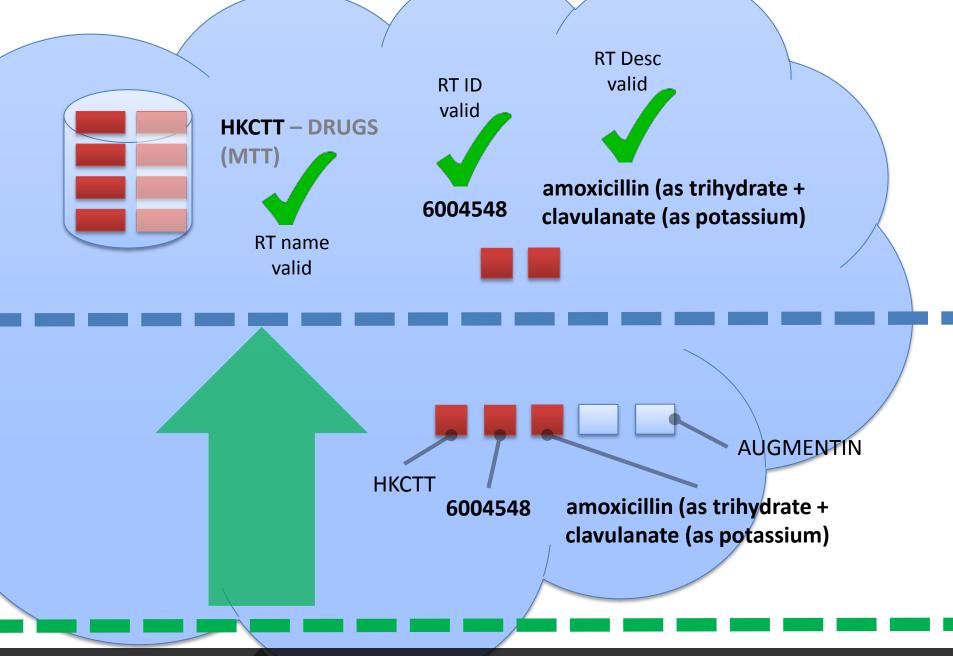




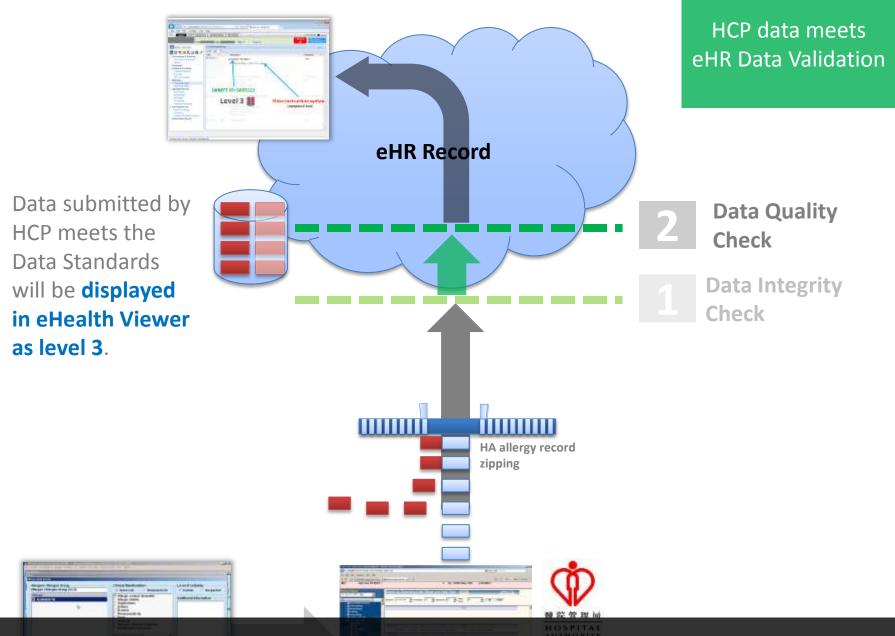
eHR Data Validation Checking Data Quality Check

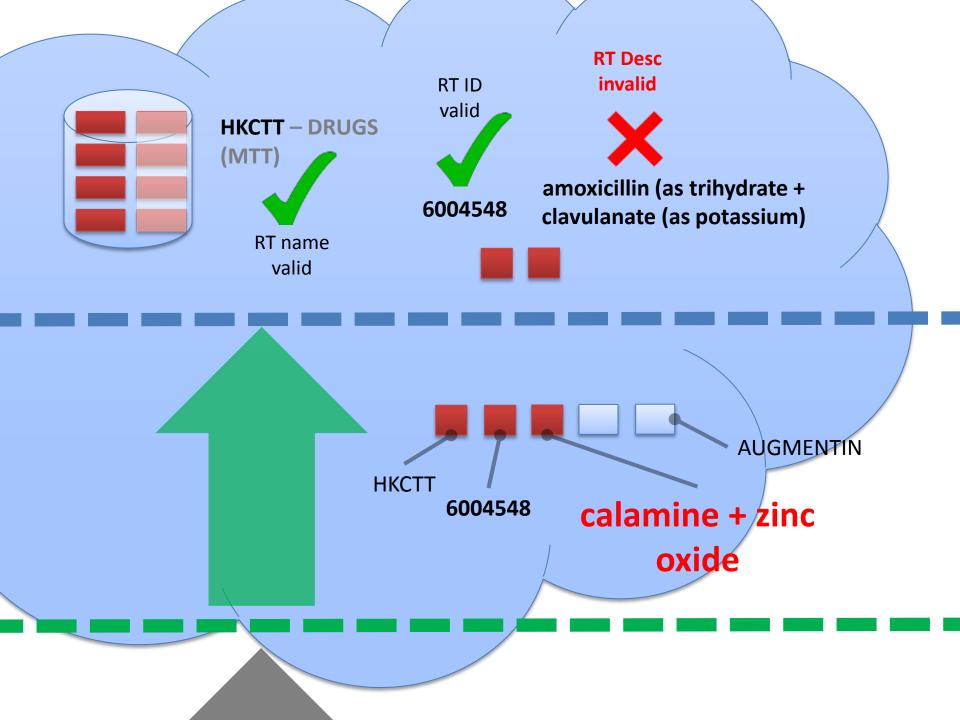


After passing the Data Integration Check (Message standard compliance), submitted record would enter eHR and undergo Data Quality Check (Data standard compliance).



What is Data Validation Check? It checks the quality of the submitted record : whether the Recognised terminology (RT) name, RT ID, and Descriptions ALL match with that defined in eHR. For drugs, MTT product and substance are valid RT tables which would be used for data validation





HCP data failed eHR Data submitted DWINK UP **Data Validation** 1111111111 by HCP does not meet the Level 3 Data Standards, eHR Record local desc will be displayed in **Data Quality eHealth Viewer** Check as level 2. **Data Integrity** Check eHR generates a "Re-grade report" to designated persons of healthcare provider HA allergy record zipping



Information Standards

- Introduction
- Organisation Structure of eHR Information Standards
 - Working Group on Data and Information Standards (WG-IS)
 - Coordinating Group on eHR Content & Information Standards (eHR IS CG)
 - Domain Group on eHR Content & Information Standards (eHR IS DG)
 - eHR Information Standards Office

o eHR Information

- Standards Docume
- eHR Contents

Clinical Terminology

Home > Information Standards > eHR Information

Compiled for the use of the eHealth information standard development, these documents will be revised from time to time. You are welcome to send your comment on these documents to us at enquiry@ehealth.gov.hk.

Links to websites of related

Recognised Terminologies

Index Management

Hong Kong Clinical

Terminology Table

Position Paper on Terminology Management (PDF version)

This paper identifies the issues in terminology management in Hong Kong, recommends the standard terminologies to be adopted to facilitate building an interoperable eHR and proposes a mechanism in terminology management.

Hong Kong Clinical Terminology Table (HKCTT)

What is HKCTT?

The Hong Kong Clinical Terminology Table (HKCTT) is a standardised clinical terminology table developed to support the interoperable Electronic Health Record Sharing System (eHRSS) in Hong Kong.

The table provides a uniform way for healthcare providers to record and transmit clinical

For more information, please visit www.ehealth.gov.hk

Index Management

able has demonstrated its interoperability which facilitates clinicians' efficient and accurate

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	▼ metronidazole				
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Re-graded records will be displayed as LEVEL 2 without MTT product grouping

The re-grade reports

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Quick Links - Administration

Administration

- User Account
 - Update Own Account

System News

Maintenance

 12-Dec-2015 : The PPI-ePR system is scheduled for maintenance from 19 Dec 2015 20:00 to 20 Dec 2015 06:00. During this period, TSW PPP will not be available during 20 Dec 2015 02:00 to 04:00, while other system functions will be available but you may experience intermittent service interruption. Also, patient's PPI record may not include the latest updates due to temporary suspension of data upload / update activity during maintenance.

X

qout)

03-Nov-2014 : Welcome to PPI-ePR

User Documents

Notice to Users

- Notice to PPI-ePR users
- PPI-ePR Privacy Policy Statement (Chinese version)
- PPI-ePR Privacy Policy Statement (English version)
- FAQ on System Requirements of PPI-ePR on new platform
- PC configuration for eHRSS
- Training Material for PPI-ePR Technical Platform Migration (for HA users)
- Training Material for PPI-ePR Technical Platform Migration (for non-HA users)
- List of Third Party Terminology
- Terms of Use for HKCTT

Release Note

<u>Release Note of HKCTT</u>

Manual & User Guide

- Editorial Guides on HKCTT
- Guide on Implementation & Maintenance of the HKCTT
- Tips on using HKCTT
- User Manual of Information Architecture Management System (IAMS)

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	[4 4 Page 1 of 1 ▶ ▶]		Displaying 1 - 5 of 5 message(s)

Allergy: Data Compliance Level declared by your institution has been downgraded

Sender: Clinical Data Repository Date: 03-Nov-2015 09:00

The following records cannot fulfill the Data Compliance Level HCP declared in Data Upload:

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20151028024225	G0007131505	3	2	
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20151028024225	G0007131874	3	2	
20151028095653	G0004228749	3	2	
20151028152558	G0000134687	3	2	
20151028194436	G0003207951	3	2	
20151029024223	G0007132423	3	2	
20151029024223	G0007132591	3	2	
20151029040413	G0003932726	3	2	
20151029132040	G0000509578	3	2	
20151029151250	G0006827659	3	2	
20151029172601	G0005650422	3	2	
20151029172601	G0005650423	3	2	
20151102094736	G0003768593	3	2	
20151102110326	G0006032657	3	2	

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

3 Nov 2015 : Data compliance report received via inbox

Objectives

- To explain what is HKCTT Drugs
- To explain the modes of adopting HKCTT Drugs
- To explain on how to use the DRUG-related data files



電子健康記錄互通系統



Using HKCTT :

Drugs

Johnny Wong

Pharmacist, Hospital Authority

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