

電子健康記錄互通系統

醫健通
*e*health
record

Using HKCTT : Drugs

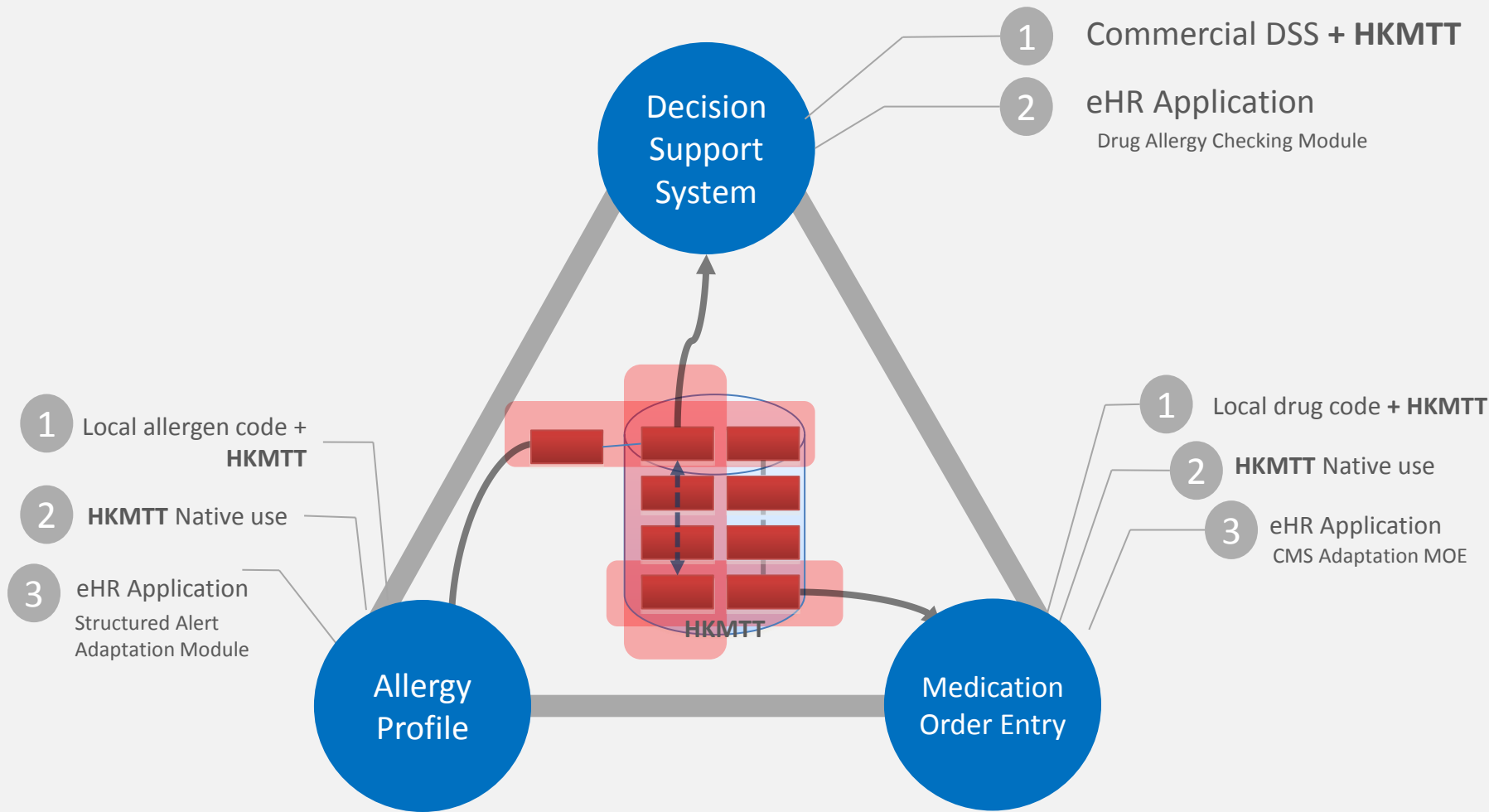
Johnny Wong

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

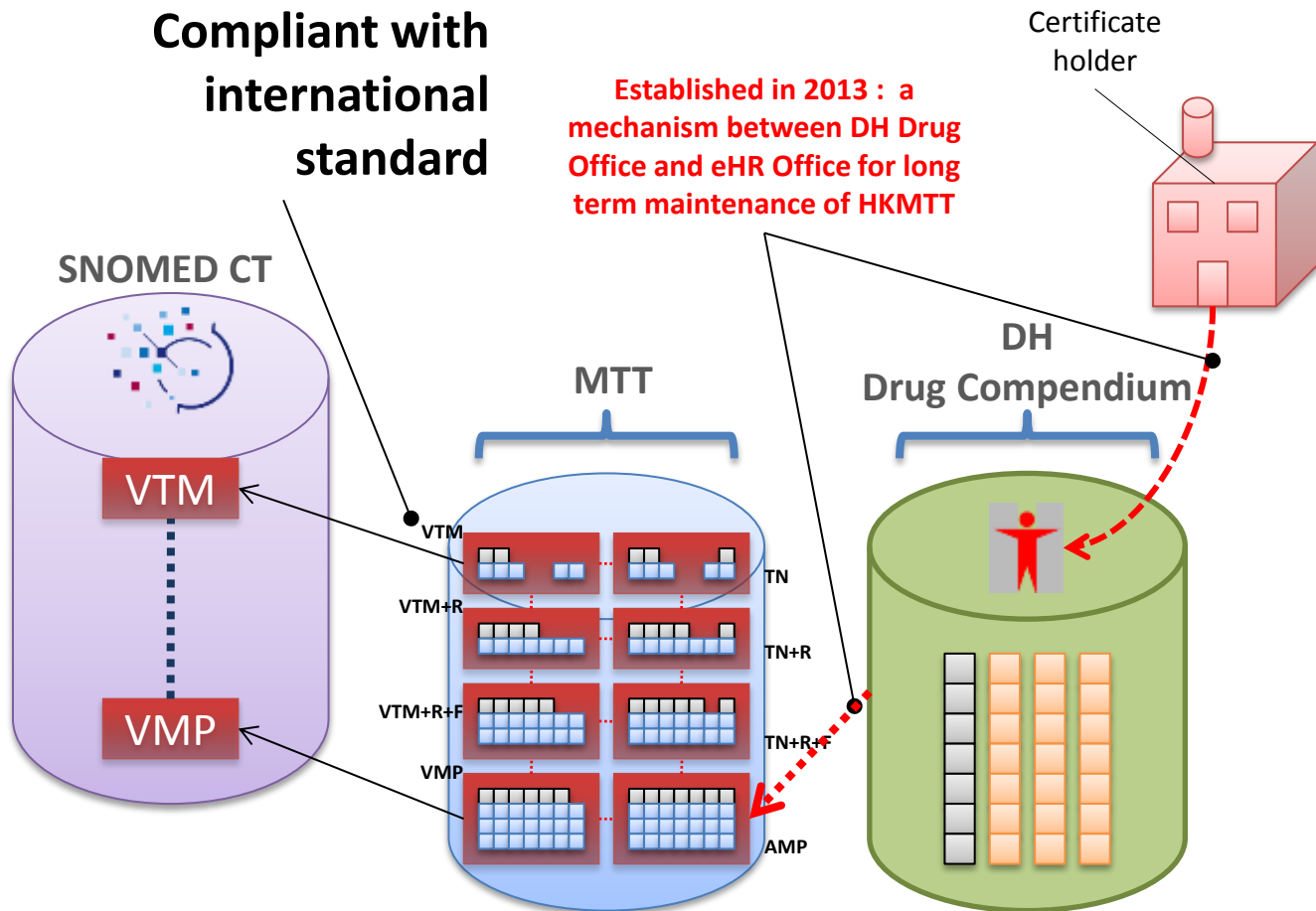
HKMTT is a compilation of identifying **descriptions with coding** of individual **drugs registered** under the Pharmacy and Poison Board, which contains information of pharmaceutical product and their components including dosage form and strength.

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)

| | |
|----------|---|
| 1 | Define manual co-production data set |
| 2 | Import to MTT |
| 3 | SNOMED-CT |
| 4 | Full-blown co-production |

Compliant with international standard

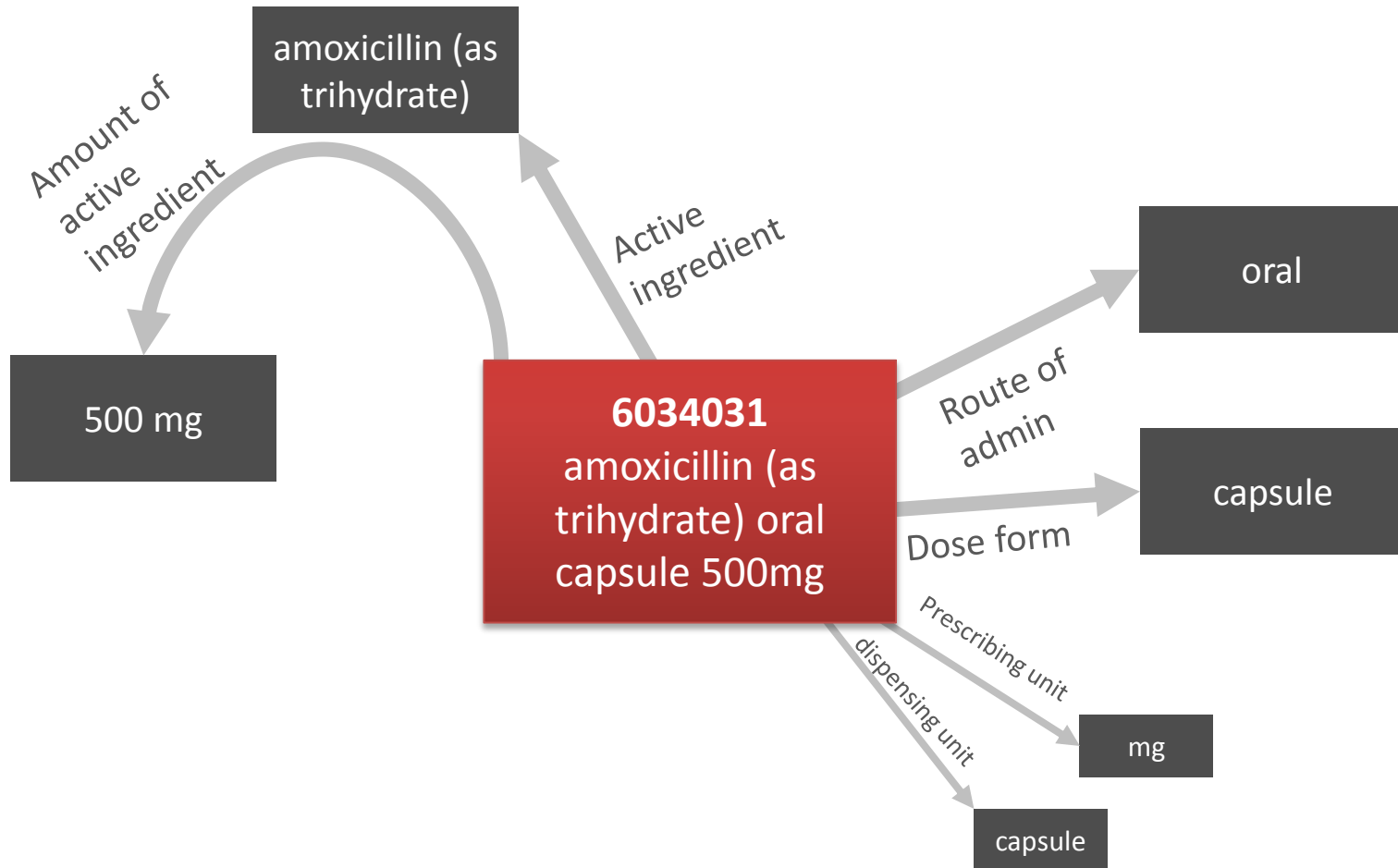


We have established a long term mechanism with Department of Health for continued update of HKMTT. The HKMTT table is a unique and independent database of drugs aimed to provide standardised medication terminologies for all Hong Kong healthcare providers; it is also compliant to an international standard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

HKMTT Components

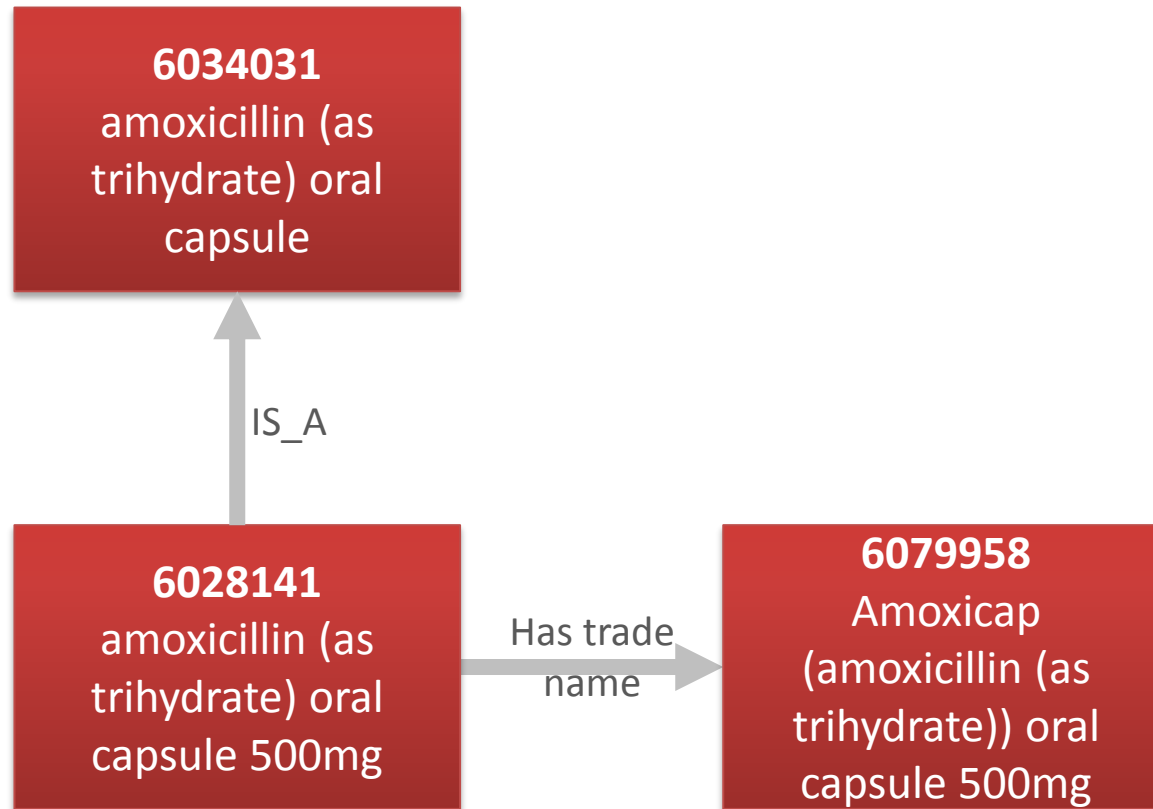
- The HKMTT has conceptually been designed to encompass eight distinct “**product**” **concepts**
- MTT concepts are supported by the **Qualifier** and **Substance** tables
- medication terminologies are designed for clinical activities (e.g. prescribing and dispensing, history of allergy or adverse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

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?



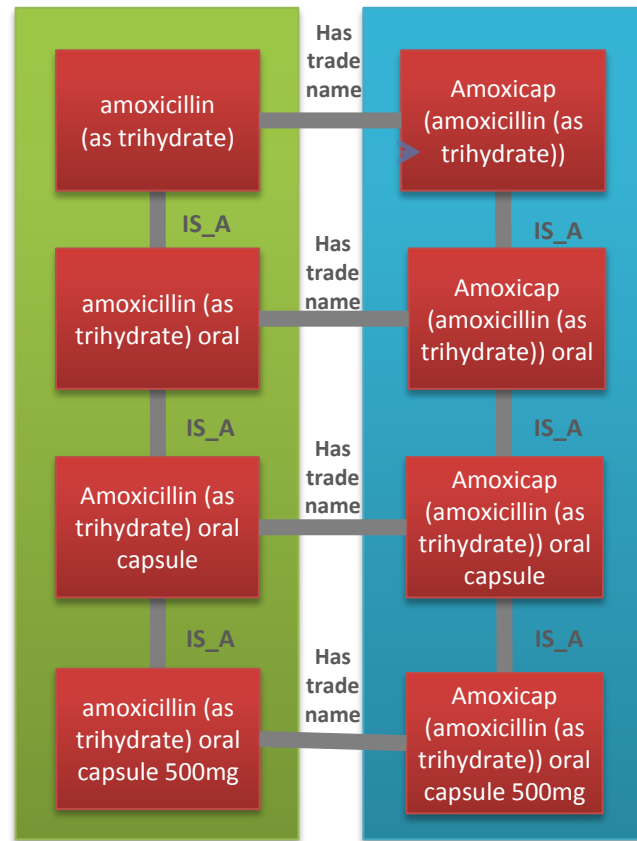
For example, the VMP amoxicillin (as trihydrate) oral capsule 500 mg IS_A amoxicillin (as trihydrate) oral capsule preparation, and has trade name Amoxicap (amoxicillin (as trihydrate)) oral capsule 500 mg

Non-proprietary product
concepts

Proprietary product
concepts

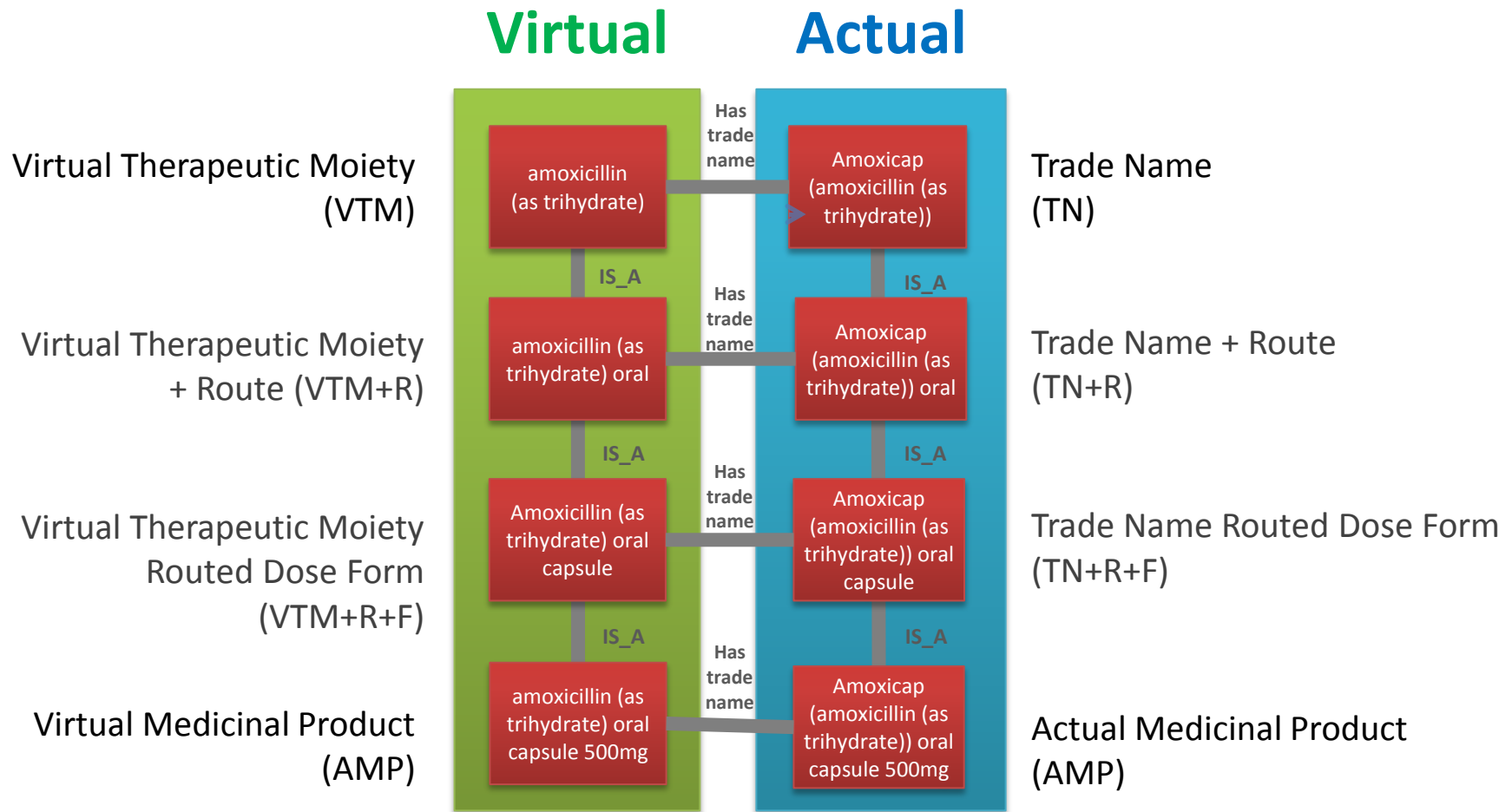
Virtual

Actual



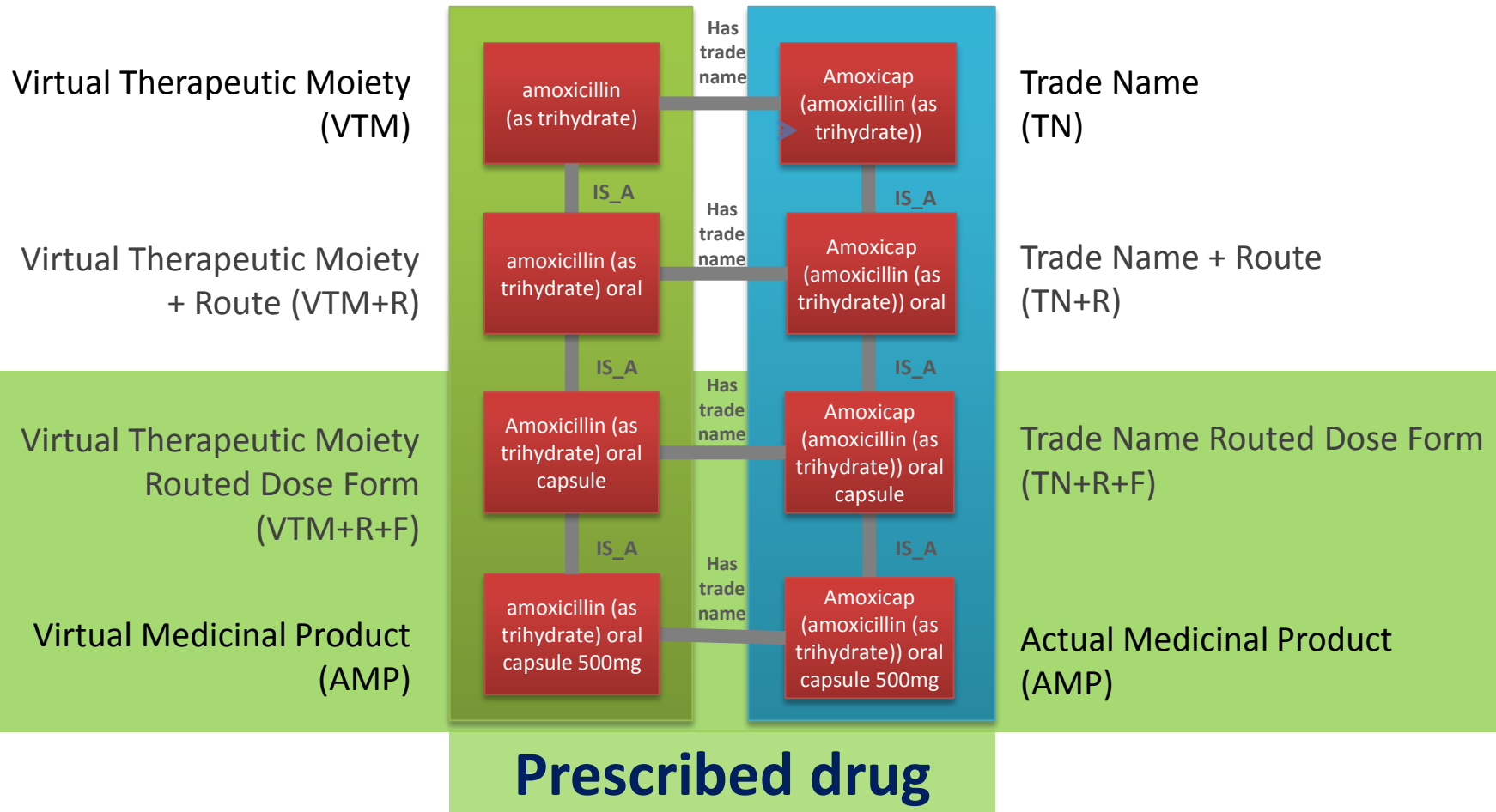
Product concepts are used to identify drug products, including proprietary and non-proprietary (generic) at various levels of granularity, forming a two-arm structure in the HKMTT, each linked with relationships upstream and trade product relationship across.

The 8 Boxes HKMTT Product Hierarchy



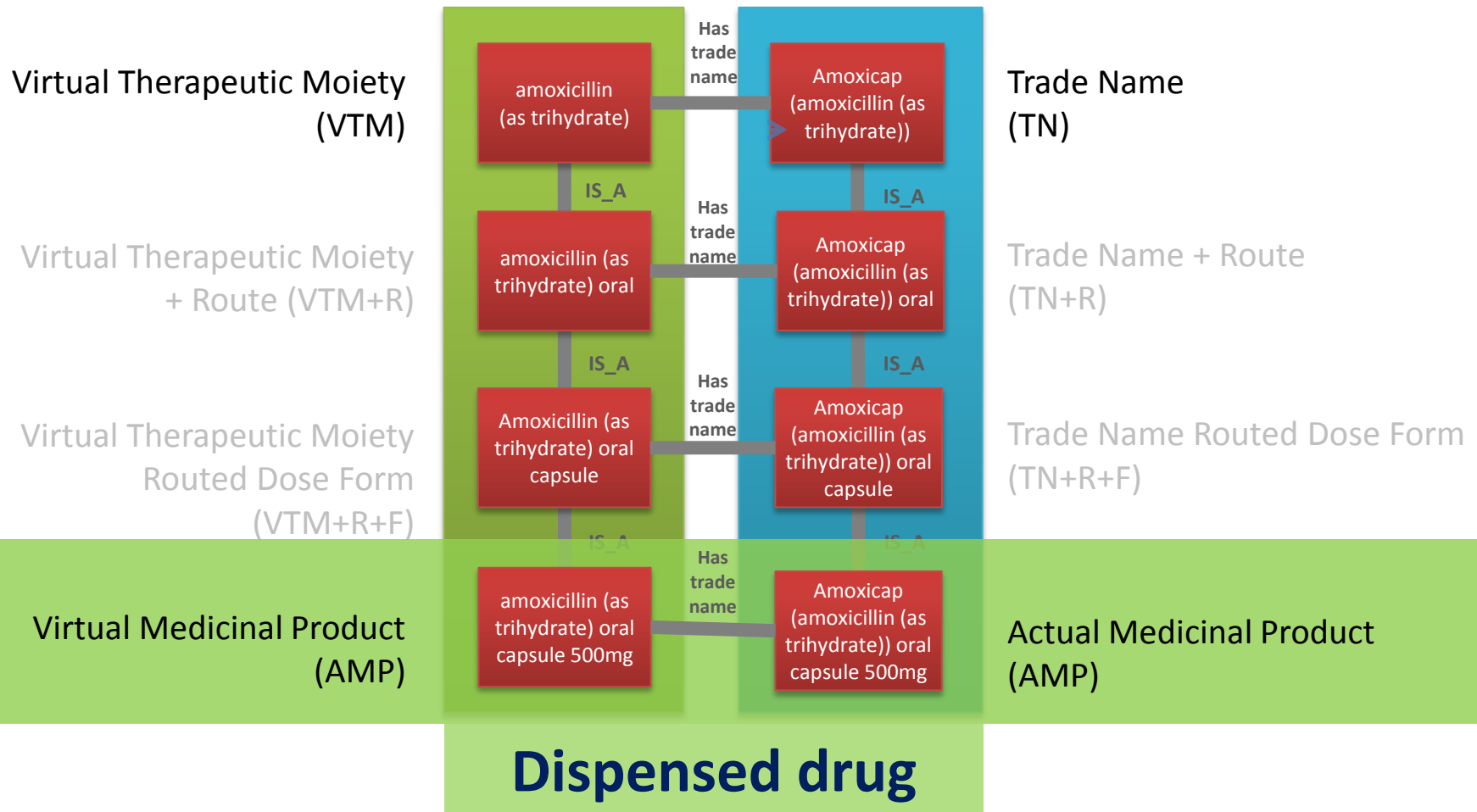
The two-arm HKMTT formed a 8 boxes structure, from VTM to VMP, and TN to AMP, with increasing product granularity from top down, and each has their designated use purpose to support eHR.

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



Which concept for what: Dispensed drugs

Allergens/ADR Causative Agents

Virtual Therapeutic Moiety
(VTM)

Virtual Therapeutic Moiety
+ Route (VTM+R)

Virtual Therapeutic Moiety
Routed Dose Form
(VTM+R+F)

Virtual Medicinal Product
(AMP)

amoxicillin
(as trihydrate)

IS_A

amoxicillin (as
trihydrate) oral

IS_A

Amoxicillin (as
trihydrate) oral
capsule

IS_A

amoxicillin (as
trihydrate) oral
capsule 500mg

Has
trade
name

Has
trade
name

Has
trade
name

Has
trade
name

Amoxicap
(amoxicillin (as
trihydrate))

IS_A

Amoxicap
(amoxicillin (as
trihydrate)) oral

IS_A

Amoxicap
(amoxicillin (as
trihydrate)) oral
capsule

IS_A

Amoxicap
(amoxicillin (as
trihydrate)) oral
capsule 500mg

Trade Name
(TN)

Trade Name + Route
(TN+R)

Trade Name Routed Dose Form
(TN+R+F)

Actual Medicinal Product
(AMP)

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



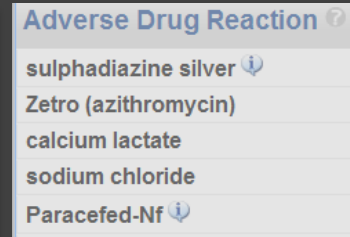
Prescribed
medication



Dispensed
medication



Drug allergen



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/en/HKCTT_Drugs_Medication_Terminology_Table.pdf



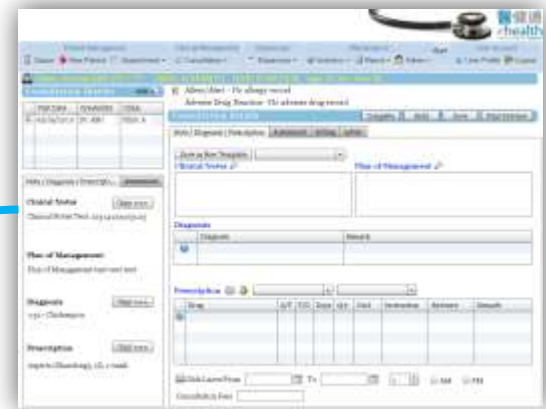
**Editorial Guide on Hong Kong Clinical
Terminology Table –
Drugs (Medication Terminology Table)
[Document Reference No. G52]
Version 1.1**

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



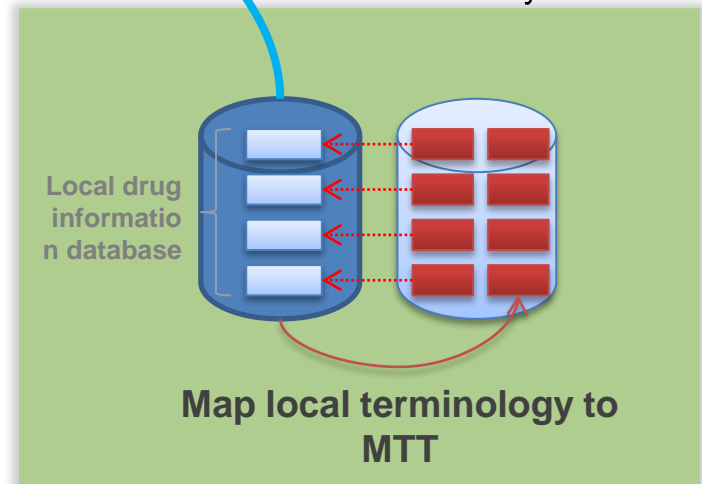
Native use of HKMTT

Full interoperability



Level 3

Coded information, full / partial interoperability



Map local terminology to MTT

non-coded text information

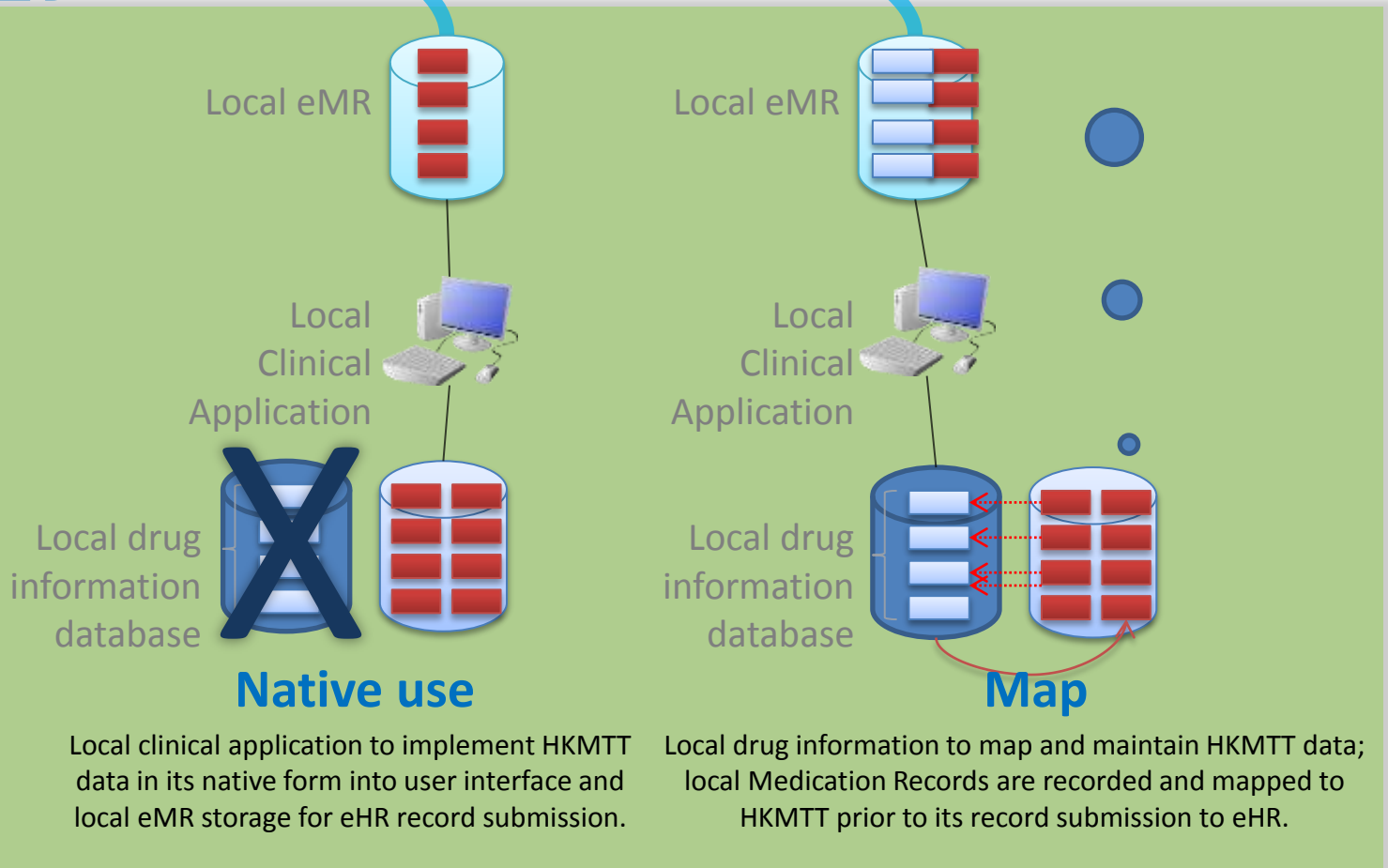
Level

2

No mapping



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



| 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)

Browser tabs: <https://apps.core.ehr.gov.hk/web/>, Welcome - ..., Page Not Found, Page Not Found, Logout Page, Login Page, Page Not Found, Pharmacy Syst...

Navigation: Administration, Standards, **Download**, Information

JOHNNY SZE HO WONG (Logout)

Quick Links - Clinical
eHR Recognised Terminologies
No record found

Quick Links - Administration
Administration

- User Account
 - [Update Own Account](#)

Logon History
Last logon was **successful** on 10-Nov-2016 15:50:44



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.
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)

To get a copy...

Download HKCTT – Drug data files from eHR



AdministrationStandardsDownloadInformation

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Click here for the latest [List of Third Party Terminologies](#)

HKCTT for CMS Adaptation

| Release Date | HKCTT Version | Engine Version | Remarks | Download |
|--------------|------------------------|----------------|---------|--------------------------|
| 16-Oct-2016 | 2016.10.16_87 (1.0.14) | 1.X | | Download |

HKCTT

| Release Date | Version | Nature | Download |
|--------------|---------------|---|--------------------------|
| 16-Oct-2016 | 2016.10.16_86 | All natures | Download |
| 15-Oct-2016 | 2016.10.15_82 | Diagnosis, Procedure | Download |
| 15-Oct-2016 | 2016.10.15_83 | Laboratory Test, Organism, Specimen | Download |
| 16-Oct-2016 | 2016.10.16_85 | Pharmaceutical Product, Drug related Substances, Drug related Qualifier | Download |

ICD10

| Release | Version | Remarks | Download |
|---------|----------|---|--------------------------|
| 2010 | 2010 | The version is being referenced by HKCTT. | Download |
| 2001 | 2001 | The version is being referenced by HKCTT. | Download |
| 1996 | 1996 MBD | The version is being referenced by HKCTT. | Download |

ICPC2

| Release Date | Version | Remarks | Download |
|--------------|---------|---|--------------------------|
| 1995 | 2.0 | The version is being referenced by HKCTT. | Download |

LOINC

* Please refer to <http://loinc.org/downloads> (LOINC® version 2.54 is being referenced by HKCTT)

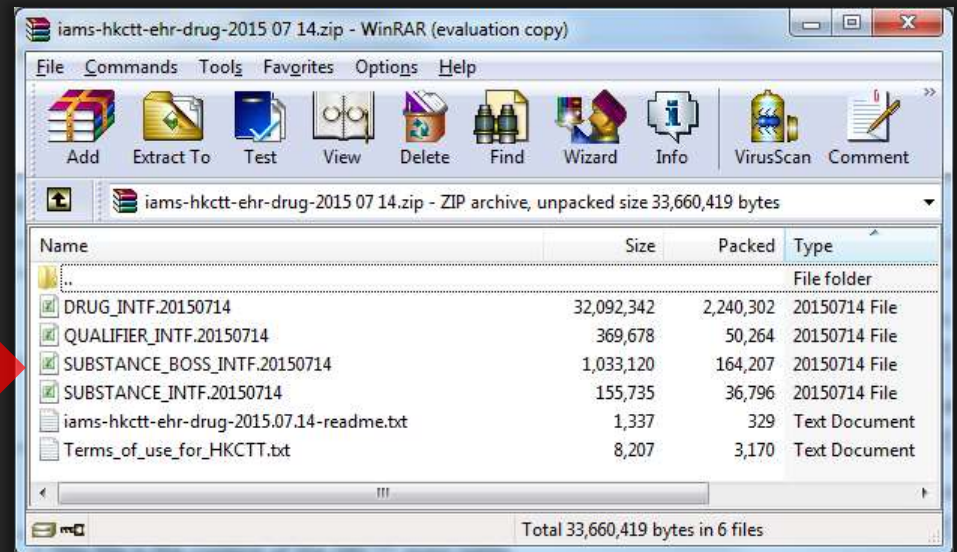
...download it from eHR-IAMS Download Centre

HKCTT Drug bundle zipped file

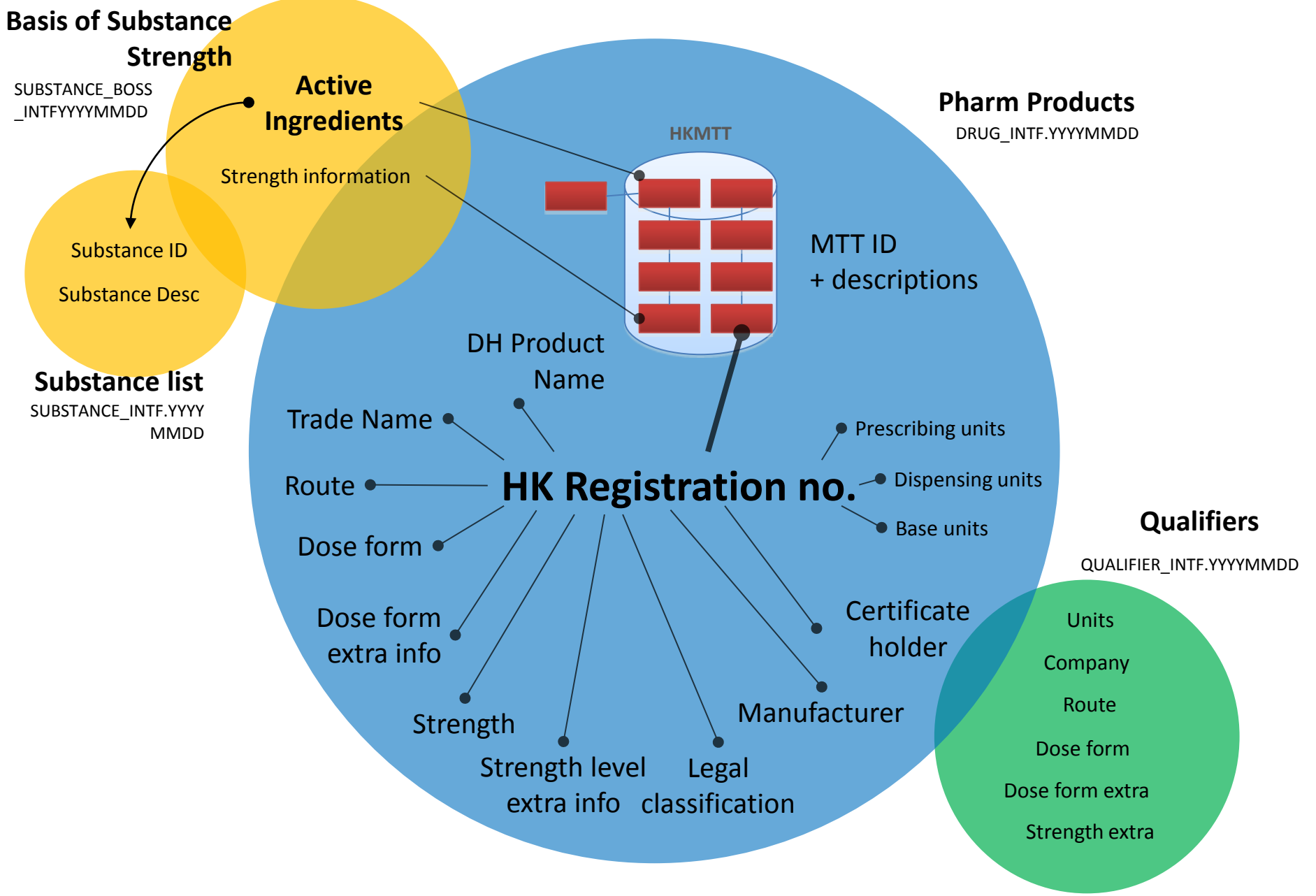


iams-hkctt-ehr-drug-2015.07.14.zip

UNZIP



4 data files
2 text files



What is contained in HKMTT Pharmaceutical Product data?

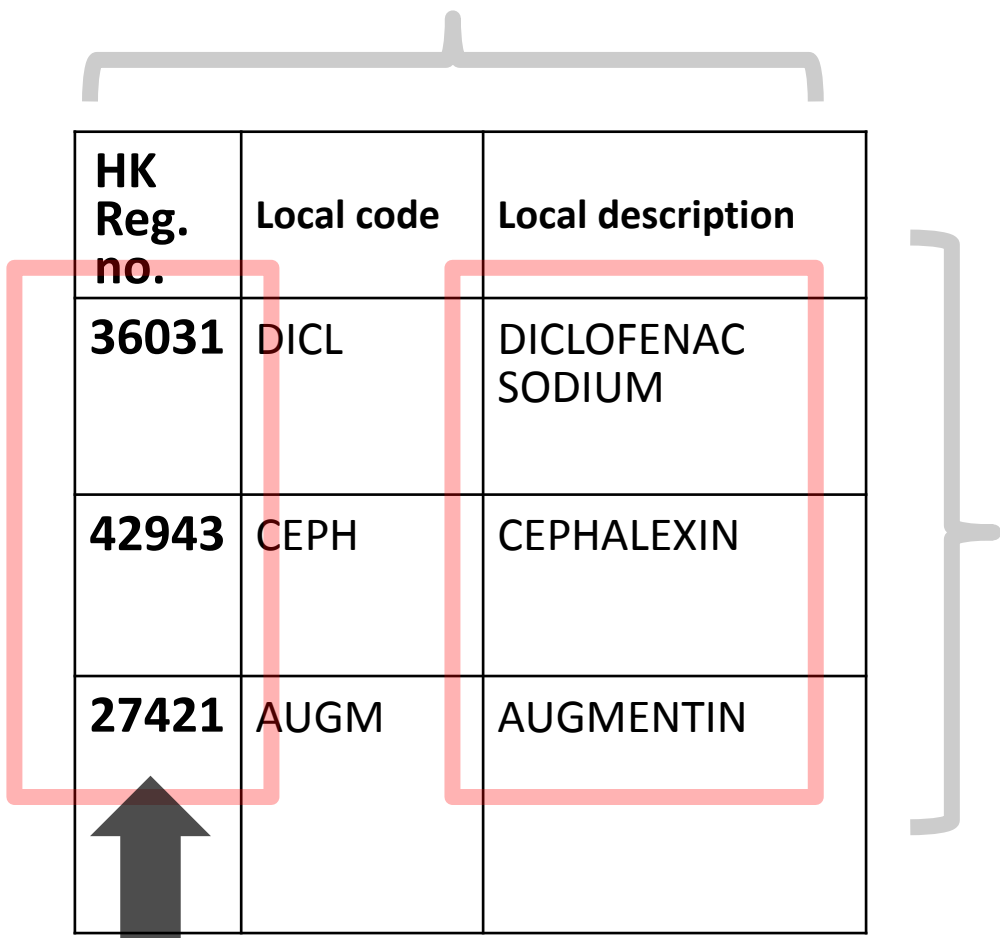
Example 1

Example of local HKMTT mapping by a healthcare provider

| E20 | | 6027436 | | | | | | | | | | | | | | | | | |
|-----------------|--------|---|-------------------------|-------------------------------|-------------------------|----------|------------------------|------|--|--|--|--|--|--|--|--|--|--|--|
| SOURCE DATA () | | | | PROPOSED MAPPING TO HKCTD () | | | | | | | | | | | | | | | |
| HK-reg | Code | Description | Description | VMP TEF | VMP EHR DESC | VTM TERM | VTM EHR DESC | VTM | REMARKS | | | | | | | | | | |
| 40747 | MINO01 | Minocycline Tab 50mg (200) | Minocycline Tab 50mg | 6047333 | minocycline (as hyc | 6012844 | minocycline (as hyc | A | For Checking - Proposed mapping for checking and verificatio | | | | | | | | | | |
| 40749 | CIME | CIMETIDINE TAB 400MG | | 6034348 | cimetidine oral tab A | 6001044 | cimetidine oral tab A | A | For Checking - Proposed mapping for checking and verificatio | | | | | | | | | | |
| 41122 | CALTD | CALTRATE 600MG with Vit.D 60's/bott | | 6039195 | calcium (as carbon A | 6004748 | calcium (as carbon A | A | For Checking - Proposed mapping for checking and verificatio | | | | | | | | | | |
| 41253 | VIBR01 | VIBROCIL NASAL GEL | | #N/A | #N/A | ## | #N/A | #N/A | No mapping - Invalid HK registration number; suggest to upd | | | | | | | | | | |
| 41416 | FOSA | FOSAMAX TAB 10MG | | 6013279 | alendronic acid (as A | 6013276 | alendronic acid (z A | A | For Checking - Proposed mapping for checking and verificatio | | | | | | | | | | |
| 41421 | WARF | WARFARIN TAB 1mg | | 6013287 | warfarin sodium or A | 6013284 | warfarin sodium A | A | For Checking - Proposed mapping for checking and verificatio | | | | | | | | | | |
| 41426 | AMPC | AMPICLOX CAP 250MG | Ampicillin Trihydrate 2 | 6004871 | ampicillin (as trihy A | 6004868 | ampicillin (as trih A | A | For Checking - Proposed mapping for checking and verificatio | | | | | | | | | | |
| 41454 | DIAM01 | DIAMICRON 80mg Tab 30MG [or equiv.] | Gliclazide 80mg Tab | 6005207 | gliclazide oral tabl A | 6005204 | gliclazide A | A | For Checking - Proposed mapping for checking and verificatio | | | | | | | | | | |
| 41522 | FLUC | Fluconazole cap 150mg | | 6008583 | fluconazole oral ca A | 6008580 | fluconazole A | A | For Checking - Proposed mapping for checking and verificatio | | | | | | | | | | |
| 41546 | ZANT01 | ZANTAC TAB 150mg | Ranitidine Tab 150mg | 6034870 | ranitidine (as hydri A | 6008268 | ranitidine (as hyd A | A | For Checking - Proposed mapping for checking and verificatio | | | | | | | | | | |
| 41644 | ORU | ORUDIS GEL | | #N/A | #N/A | ## | #N/A | #N/A | No mapping - Invalid HK registration number; suggest to upd | | | | | | | | | | |
| 41783 | SERZ | Serono | | #N/A | #N/A | ## | #N/A | #N/A | No mapping - Invalid HK registration number; suggest to upd | | | | | | | | | | |
| 41798 | VARV | Varicella VACCINE 0.5ML | | 6086758 | varicella virus (Ok A | 6013476 | varicella virus (Ok A | A | For Checking - Proposed mapping for checking and verificatio | | | | | | | | | | |
| 41872 | PRAV04 | PRAVACHOL Tab 40mg | | #N/A | #N/A | ## | #N/A | #N/A | No mapping - Invalid HK registration number; suggest to upd | | | | | | | | | | |
| 41966 | MOT | MOTILUM 10MG [or equiv.] Tab | Domperidone Tab 10m | 6036888 | domperidone oral A | 6003116 | domperidone A | A | For Checking - Proposed mapping for checking and verificatio | | | | | | | | | | |
| 42052 | DIF | DIFFERIN GEL 0.1% 30G/Tube | Adapalene 0.1% gel | 6013607 | adapalene topical A | 6013604 | adapalene A | A | For Checking - Proposed mapping for checking and verificatio | | | | | | | | | | |
| 42158 | XAL | Xalatan 0.005% Eye Drop | | 6013671 | latanoprost eye dro A | 6013668 | latanoprost A | A | For Checking - Proposed mapping for checking and verificatio | | | | | | | | | | |
| 42186 | MODU | MODURETIC TAB [or equiv.] | Amiloride HCl 5mg, Hy | 6000679 | amiloride hydrochl A | 6000676 | amiloride hydrochl A | A | For Checking - Proposed mapping for checking and verificatio | | | | | | | | | | |
| 42195 | VERR | Verrufim Solution 14ml/bott | | 6040130 | lactic acid 16.7% + A | 6003788 | lactic acid + salicy A | A | For Checking - Proposed mapping for checking and verificatio | | | | | | | | | | |
| 42241 | FLUI | FLUIMICIL 100MG | Acetylcysteine 100mg/ | #N/A | #N/A | ## | #N/A | #N/A | No mapping - Invalid HK registration number; suggest to upd | | | | | | | | | | |
| 42252 | 05-Aug | Augmentin Tab 1G (w57 s/pack | Amoxicillin 875mg + Cl | 6043822 | amoxicillin (as trih A | 6004548 | amoxicillin (as tri A | A | For Checking - Proposed mapping for checking and verificatio | | | | | | | | | | |
| 42283 | BAC | Baclofen tab 10mg | | 6000087 | baclofen oral table A | 6000084 | baclofen A | A | For Checking - Proposed mapping for checking and verificatio | | | | | | | | | | |
| 42285 | DILT09 | Diltiazem SR 90mg Cap | | #N/A | #N/A | ## | #N/A | #N/A | No mapping - Invalid HK registration number; suggest to upd | | | | | | | | | | |
| 42322 | AMA | Amaryl 1mg Tab 30's/box | | 6013775 | glimepiride oral ta A | 6013772 | glimepiride A | A | For Checking - Proposed mapping for checking and verificatio | | | | | | | | | | |
| 42323 | AMA2 | Amaryl 2mg Tab 30's/box | | 6056012 | glimepiride oral ta A | 6013772 | glimepiride A | A | For Checking - Proposed mapping for checking and verificatio | | | | | | | | | | |
| 42327 | ARIM | ARIMIDEX TAB 1MG 28's/box | Anastrozole 1mg Tab | 6013783 | anastrozole oral ta A | 6013780 | anastrozole A | A | For Checking - Proposed mapping for checking and verificatio | | | | | | | | | | |
| 42329 | LIP02 | LIPITOR 20mg Tab 30's/box | Atorvastatin 20mg | 6054720 | atorvastatin (as cal A | 6013788 | atorvastatin (as c A | A | For Checking - Proposed mapping for checking and verificatio | | | | | | | | | | |
| 42417 | MYCO03 | NYSTATIN VAG SUPP 100K units[or equiv.] | nystatin 100,000 units | #N/A | #N/A | ## | #N/A | #N/A | No mapping - Invalid HK registration number; suggest to upd | | | | | | | | | | |
| 42426 | BETN02 | BETAMETHASONE CREAM 0.1% | Betopic cream | 6000967 | betamethasone (a: A | 6000964 | betamethasone (i A | A | For Checking - Proposed mapping for checking and verificatio | | | | | | | | | | |
| 42573 | 04-Aug | Moxiclav 375 Tab | amoxicillin 250mg + cl | 6004551 | amoxicillin (as trih A | 6004548 | amoxicillin (as tri A | A | For Checking - Proposed mapping for checking and verificatio | | | | | | | | | | |
| 42617 | KEN | TRIACOMB CREAM 20G/Tube | NYSTATIN 100,000 UNIT | 6013903 | gramicidin 0.025 % A | 6013900 | gramicidin + neon A | A | For Checking - Proposed mapping for checking and verificatio | | | | | | | | | | |
| 42623 | NIM | Nimesulide Tab 100mg | | 6013911 | nimesulide oral ta A | 6013908 | nimesulide A | A | For Checking - Proposed mapping for checking and verificatio | | | | | | | | | | |
| 42656 | LA | Larmabak Eye Drops 0.9% 10ml/bott | | #N/A | #N/A | ## | #N/A | #N/A | No mapping - Invalid HK registration number; suggest to upd | | | | | | | | | | |
| 42729 | NAS | Nasacort AQ | Triamcinolone Acetoni | #N/A | #N/A | ## | #N/A | #N/A | No mapping - Invalid HK registration number; suggest to upd | | | | | | | | | | |
| 42735 | 01-Aug | SYR AUGMENTIN 457MG/5ML 35ml/bottle (w5 | | 6080207 | amoxicillin (as trih A | 6004548 | amoxicillin (as tri A | A | For Checking - Proposed mapping for checking and verificatio | | | | | | | | | | |
| 42760 | ACY01 | ACYCLOVIR TAB 400MG | | 6038621 | aciclovir oral table A | 6005132 | aciclovir A | A | For Checking - Proposed mapping for checking and verificatio | | | | | | | | | | |
| 42880 | ALP | ALPHAGAN 0.2% EYE DROP | | 6014047 | brimonidine tartrat A | 6014044 | brimonidine tartrat A | A | For Checking - Proposed mapping for checking and verificatio | | | | | | | | | | |
| 42885 | ARIC | Aricept 5mg | | 6014071 | donepezil hydrochl A | 6014068 | donepezil hydrochl A | A | For Checking - Proposed mapping for checking and verificatio | | | | | | | | | | |
| 42891 | APR | Aprovel Tab 150mg 28's/box | Irbesartan | 6014087 | irbesartan oral tab A | 6014084 | irbesartan A | A | For Checking - Proposed mapping for checking and verificatio | | | | | | | | | | |
| 43002 | TEL | TELFAST 60MG | | #N/A | #N/A | ## | #N/A | #N/A | No mapping - Invalid HK registration number; suggest to upd | | | | | | | | | | |
| 43076 | CHLO04 | Chloramphenicol Eye Oint. 1% 5g/tube(展) | | #N/A | #N/A | ## | #N/A | #N/A | No mapping - Invalid HK registration number; suggest to upd | | | | | | | | | | |
| 43077 | T | TETRACYCLINE CAP 250MG (14) | | 6001807 | tetracycline hydrocl A | 6001804 | tetracycline hydro A | A | For Checking - Proposed mapping for checking and verificatio | | | | | | | | | | |
| 43186 | COCI | COCILLANA COMPOUND SYRUP | Cocillana, Codeine, Se | 6041021 | cocillana liquid ext A | 6006428 | cocillana liquid e A | A | For Checking - Proposed mapping for checking and verificatio | | | | | | | | | | |
| 43248 | COCI02 | Cocillana co w/o Codeine Syrup | Cocillana, Euphorbia, S | 6002455 | cocillana liquid ext A | 6002452 | cocillana liquid e A | A | For Checking - Proposed mapping for checking and verificatio | | | | | | | | | | |
| 43332 | SING01 | Singulair Tab 10mg 28's/box | Montelukast 10mg | 6014351 | montelukast (as sc A | 6014348 | montelukast (as s A | A | For Checking - Proposed mapping for checking and verificatio | | | | | | | | | | |
| 43336 | PREM02 | PREMELLE CYCLE TAB 0.625MG/5MG | CONJUGATED ESTROGE | #N/A | #N/A | ## | #N/A | #N/A | No mapping - Invalid HK registration number; suggest to upd | | | | | | | | | | |
| 43337 | PREM04 | PREMELLE TAB 0.625MG/2.5MG | | 6014359 | estrogens conjugat A | 6014356 | estrogens conjug A | A | For Checking - Proposed mapping for checking and verificatio | | | | | | | | | | |
| 43342 | FOF | Folifer Tab 60's/box | ferrous sulphate 90mg | 6014367 | folic acid 1 mg + irc A | 6014364 | folic acid + iron (z A | A | For Checking - Proposed mapping for checking and verificatio | | | | | | | | | | |
| 43436 | LOP | LOPERAMIDE Cap 2MG | | 6005799 | loperamide hydroc A | 6005796 | loperamide hydro A | A | For Checking - Proposed mapping for checking and verificatio | | | | | | | | | | |
| 43599 | STRE01 | STREPSILS Dual Action 12's/box | | 6014567 | amylmetacresol 60 A | 6014564 | amylmetacresol + A | A | For Checking - Proposed mapping for checking and verificatio | | | | | | | | | | |
| 43640 | TRIP | TRIPACEL INJECTION | DTap | 6014623 | diphtheria toxoid r A | 6014620 | diphtheria toxoid A | A | For Checking - Proposed mapping for checking and verificatio | | | | | | | | | | |
| 43660 | TRAV02 | TRAVOGEN CREAM 1% 20G/Tube | | 6014647 | isoconazole nitrat A | 6014644 | isoconazole nitrat A | A | For Checking - Proposed mapping for checking and verificatio | | | | | | | | | | |
| 43700 | EPAX | EPAXAL Pre-filled Syr 0.5ml/inj. | Hep A | 6092663 | hepatitis A virus ar A | 6014708 | hepatitis A virus z A | A | For Checking - Proposed mapping for checking and verificatio | | | | | | | | | | |
| 43759 | PLAQ | Plaquenil Tab 200mg | Hydroxychloroquine 20 | 6014783 | hydroxychloroquin A | 6014780 | hydroxychloroquir A | 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 | CEPH | 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 | cefaletin |
| 27421 | AUGM | AUGMENTIN | 27421 | 6007548 | amoxicillin (as sodium) + clavulanate (as potassium) |

Matching HK Reg. no.

Mapping Allergens

Your local drug information

HKCTT

Recognised Terminology name

| HK Reg. no. | Local code | Local description | HK Reg. no. | HKCTT TermID | HKCTT Description |
|-------------|------------|-------------------|-------------|--------------|--|
| 36031 | DICL | DICLOFENAC SODIUM | 36031 | 6000036 | diclofenac sodium |
| 42942 | | | 42942 | | |
| 27421 | ASSM | ASSMINTIN | 27421 | 6007548 | amoxicillin (as sodium) + clavulanate (as potassium) |

Local Code

Local description

Recognised Terminology ID

Recognised Terminology description

Mapping Drug Products

Your local drug information

Mapped **HKCTT Product Terms**

| HK Reg. no. | Local code | Local description | HK Reg. no. | HKCTT TermID | HKCTT Description |
|--------------|------------|----------------------------------|--------------|--------------|--|
| 62663 | DOCE01 | DOCETAXEL INJECTION 20MG/0.5ML | 62663 | 6013231 | docetaxel intravenous concentrate and solvent for solution for infusion 20 mg / 0.5 mL |
| 46231 | RITU02 | RITUXIMAB INJECTION 10MG/ML 50ML | 46231 | 6016415 | rituximab intravenous concentrate for solution for infusion 500 mg / 50 mL |

Matching HK Reg. no.

Mapping Drug Products

Your local drug information

HKCTT

Recognised Terminology name

| HK Reg. no. | Local code | Local description | HK Reg. no. | HKCTT TermID | HKCTT Description |
|-------------|------------|--------------------------------|-------------|--------------|--|
| 62663 | DOCE01 | DOCETAXEL INJECTION 20MG/0.5ML | 62663 | 6013231 | docetaxel intravenous concentrate and solvent for solution for infusion 20 mg / 0.5 mL |
| 46231 | RITU01 | RITUXIMAB | 46231 | 6013235 | rituximab |

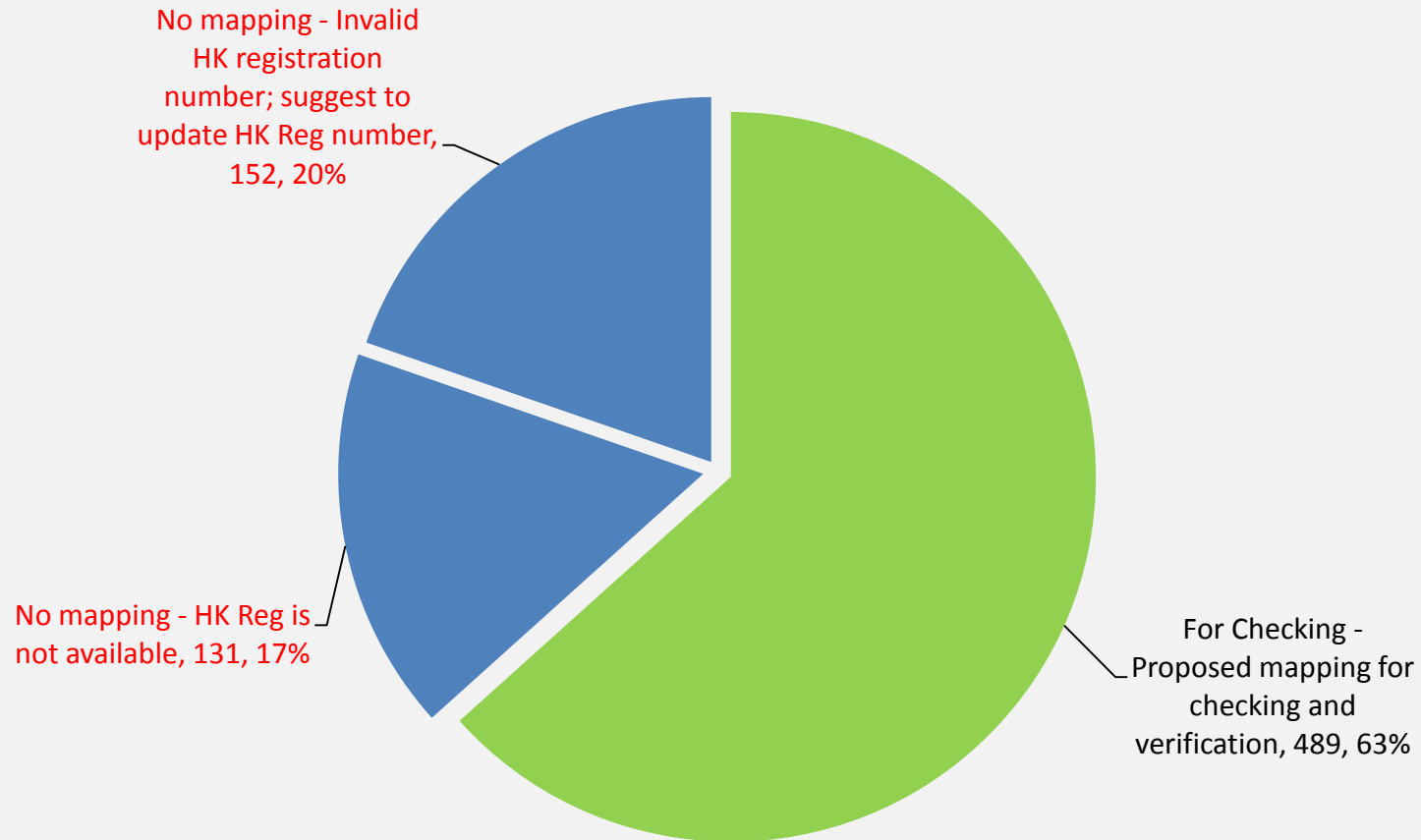
Local Code

Local description

Recognised Terminology ID

Recognised Terminology description

Drug Code mapping between your organisation drug table and HKCTT



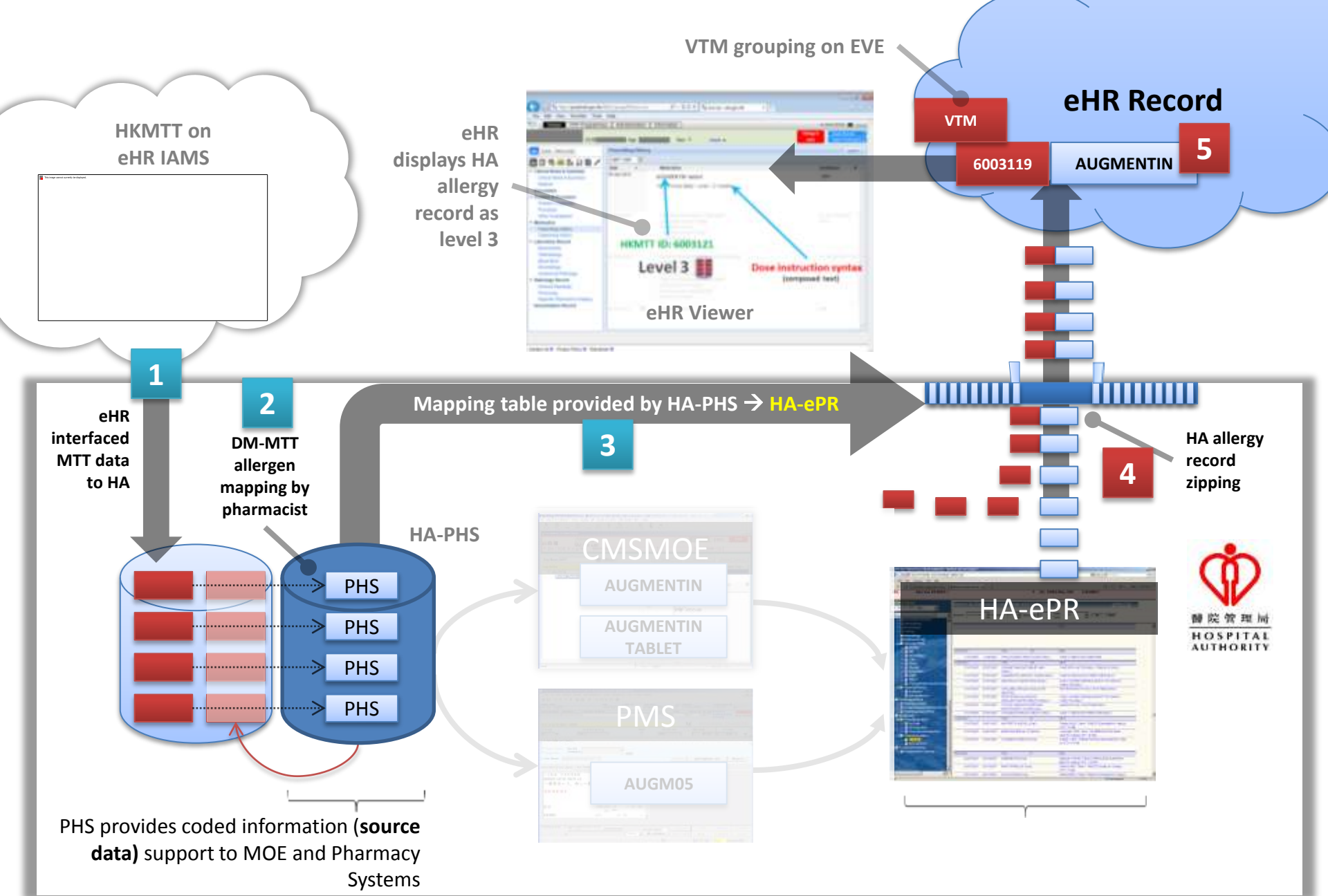
Example

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



DM-MTT Manual Mapping Rules

| | Rules |
|---|--|
| 0 | Look up for HA Allergen Group to MTT Concept list (3 allergen groups) |
| 1 | Where auto-mapped to a single result – no further manual mapping is required. |
| 2 | Select VTM results where HA allergen description matches with VTM description |
| 3 | For combination products, HA uses a combined name (usually a commonly used trade name), in this case check the ingredient lists of the affected items in HA drug master. Select the VTM with matching ingredients across the whole series |
| 4 | Where symbols or brackets are used in HA displayname (e.g. to distinguish salt strength difference), select the simplest VTM term with the same pharmaceutical meaning. |
| 5 | Where salt/special property proportion of the HA allergen name confers no difference in allergnicity of a drug, select the VTM with the smallest VTM termID |
| 6 | Where all the above are not applicable , no mapping. |

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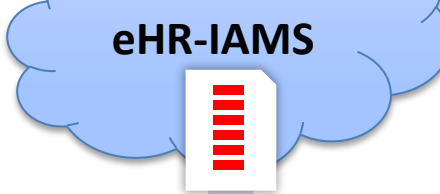
Allergen
group
mapping

2

Auto-
mapping
table

3

**Manual
mapping
table**



MTT Data File



Get MTT Data

Data Service from eHR-IAMS to HA-Drug Master

Mapping the allergens

DM-MTT Auto- Mapper Program (+ Manual mapping for exceptions)

Send Mapping table to ePR

Data service from HA-DM to ePR

MTT Product Concept
(HK reg, Full Desc, eHR Desc, TermID)

Drug Master data
(Displayname, salt/special properties, HK Reg)

One-to-one mapping
(Displayname+salt to MTT)

One-to-multiple mapping

Manual Selection
(Rule 2-5)

Mapper result tables

Allergen group mapping

Auto-mapping table

Manual mapping table

1

2

3



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

Rule 2

| | B | C | I | L | M | AJ |
|-----|-------|---------|-------------------------------|-------------------------------|---------|---------|
| 1 | HK_R | ITEM_CC | HA Allergen / ADR Causative / | VTM_EHR_DESC | VTM_TER | Comment |
| 292 | 06007 | PLAS05 | PLASMA PROTEIN FRACTION | plasma protein fraction human | 6040531 | |
| 293 | 42967 | PLAS08 | PLASMA PROTEIN FRACTION | albumin human | 6024112 | |
| 294 | 42967 | PLAS08 | PLASMA PROTEIN FRACTION | albumin human | 6024112 | |
| 295 | 42967 | PLAS08 | PLASMA PROTEIN FRACTION | albumin human | 6024112 | |
| 296 | 06007 | PLAS08 | PLASMA PROTEIN FRACTION | plasma protein fraction human | 6040531 | |
| 297 | 58570 | PLAS09 | PLASMA PROTEIN FRACTION | albumin human | 6024112 | |
| 298 | 18908 | PLAS10 | PLASMA PROTEIN FRACTION | plasma protein fraction human | 6040531 | |
| 299 | 18908 | PLAS10 | PLASMA PROTEIN FRACTION | plasma protein fraction human | 6040531 | |
| 300 | 18908 | PLAS10 | PLASMA PROTEIN FRACTION | plasma protein fraction human | 6040531 | |
| 301 | 18908 | PLAS10 | PLASMA PROTEIN FRACTION | plasma protein fraction human | 6040531 | |
| 302 | 18908 | PLAS10 | PLASMA PROTEIN FRACTION | plasma protein fraction human | 6040531 | |
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| 385 | | | | | | |
| 386 | | | HA Allergen | Mapped VTM | | |
| 387 | | | (Displayname+salt) | | | |
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Example

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.

Drug Maintenance

☐ Clear ☐ Enquire ☐ Quick Add ☐ Save ☐ Delete ☐ Previous Record ☐ Next RecordItem Code HQ Item Suspend Item Description Display Name Chinese Display Name Tallman Display Name Salt / Special Property Extra Drug Information Universal Trade Name Chinese Universal Trade Name Meal Solvent Item Diluent/IVF Drug Properties Dosage Compulsory Strength Compulsory External Drug Scope For In-Patient Use Only Suggested Duration Day(s)Strength Value Unit Minimum Dispense Dose Formulary Status General Drug Not ApplicableSFI Price Model (Public Patient) Market Drug Price Common Pack Size

SFI Example

SFI Price Model (Public Patient)

Common Pack Size

Rule 2

| | B | C | I | L | M | AJ |
|-----|-------|---------|-----------------------------|-------------------------------|---------|--|
| 1 | HK_R | ITEM_CD | HA Allergen / ADR Causative | VTM_EHR_DESC | VTM_TER | Comment |
| 292 | 06007 | PLAS05 | PLASMA PROTEIN FRACTION | plasma protein fraction human | 6040531 | Select this one as default mapping as VTM matches with HA displayname+salt |
| 293 | 42967 | PLAS08 | PLASMA PROTEIN FRACTION | albumin human | 6024112 | remove this one |
| 294 | 42967 | PLAS08 | PLASMA PROTEIN FRACTION | albumin human | 6024112 | remove this one |
| 295 | 42967 | PLAS08 | PLASMA PROTEIN FRACTION | albumin human | 6024112 | remove this one |
| 296 | 06007 | PLAS08 | PLASMA PROTEIN FRACTION | plasma protein fraction human | 6040531 | Select this one as default mapping as VTM matches with HA displayname+salt |
| 297 | 58570 | PLAS09 | PLASMA PROTEIN FRACTION | albumin human | 6024112 | remove this one |
| 298 | 18908 | PLAS10 | PLASMA PROTEIN FRACTION | plasma protein fraction human | 6040531 | Select this one as default mapping as VTM matches with HA displayname+salt |
| 299 | 18908 | PLAS10 | PLASMA PROTEIN FRACTION | plasma protein fraction human | 6040531 | Select this one as default mapping as VTM matches with HA displayname+salt |
| 300 | 18908 | PLAS10 | PLASMA PROTEIN FRACTION | plasma protein fraction human | 6040531 | Select this one as default mapping as VTM matches with HA displayname+salt |
| 301 | 18908 | PLAS10 | PLASMA PROTEIN FRACTION | plasma protein fraction human | 6040531 | Select this one as default mapping as VTM matches with HA displayname+salt |
| 302 | 18908 | PLAS10 | PLASMA PROTEIN FRACTION | plasma protein fraction human | 6040531 | Select this one as default mapping as VTM matches with HA displayname+salt |

HA Allergen
(Displayname+salt)

Mapped VTM

Suggested
Manual Mapping

Item Code: PLAS05 HQ Item Suspend: Y DEL

Item Description: PLASMA PROTEIN FRACTION INJECTION 5% 50ML

Drug Detail IPMOE Manufacturer Procurement

General Information MDS Information MOE MOE - Common Dosage

Display Name: PLASMA PROTEIN FRACTION

Item Code: PLAS08 HQ Item Suspend: N

Item Description: PLASMA PROTEIN FRACTION INJECTION 5% 250ML

Drug Detail IPMOE Manufacturer Procurement

General Information MDS Information MOE MOE - Common Dosage

Display Name: PLASMA PROTEIN FRACTION

Item Code: PLAS09 HQ Item Suspend: N

Item Description: PLASMA PROTEIN FRACTION (ALBUMEX 5) INJECTION 5% 2

Drug Detail IPMOE Manufacturer Procurement

General Information MDS Information MOE MOE - Common Dosage

Display Name: PLASMA PROTEIN FRACTION

Item Code: PLAS10 HQ Item Suspend: N

Item Description: PLASMA PROTEIN FRACTION INJECTION 5% 50ML

Drug Detail IPMOE Manufacturer Procurement

General Information MDS Information MOE MOE - Common Dosage

Display Name: PLASMA PROTEIN FRACTION


Example


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.

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

Rule 3

| | B | C | I | L | M | AJ |
|-----|-------|--------|--------------------|---|---------|---------|
| 1 | HK_F | ITEM_C | HA Allergen | VTM_EHR_DESC | VTM_TEF | Comment |
| 70 | 41653 | COCI01 | COCILLANA COMPOUND | cocillana liquid extract + senega liquid extract + squill liquid extract | 6032087 | |
| 71 | 21297 | COCI01 | COCILLANA COMPOUND | cocillana liquid extract + euphorbia liquid extract + senega liquid extract + squill liquid extract | 6032077 | |
| 72 | 43887 | COCI01 | COCILLANA COMPOUND | cocillana liquid extract + euphorbia liquid extract + senega liquid extract + squill liquid extract | 6032077 | |
| 73 | 52237 | COCI01 | COCILLANA COMPOUND | cocillana liquid extract + senega liquid extract + squill liquid extract | 6032087 | |
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HA Allergen
(Displayname+salt)

Mapped VTMs

Example

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.

Rule 3

Pharmaceutical Supplies System (PHS) - Windows Internet Explorer

Pharmaceutical Supplies System (PHS - PRD 1.6.0.15) Institution: PHQ PCU: PHQ User ID: wsh777 Workstation: hi-johnny Login Time: 14/01/2014 11:54:34

Drugs File Maintenance PHS Maintenance Report Help Logout

Drug Maintenance

Clear Enquire Quick Add Save Delete Previous Record Next Record

Item Code COCI01 HQ Item Suspend N

Item Description COCILLANA COMPOUND (OR EQUIV) SYRUP

Drug Detail IPMOE Manufacturer Procurement

General Information **MDS Information** MOE MOE - Common Dosage MOE - Supplementary CAPD CARS/PMS-IP Special Attribute

MDS Send Option A SEND FOR DRUG CROSS REFERENCE Resend N

Single Ingredient N

Add Edit Delete

| | Ingredient Code | Ingredient Description | Strength Value | Strength Unit | Volume Value | Volume Unit |
|---|-----------------|--------------------------|----------------|---------------|--------------|-------------|
| 1 | 100590 | EUPHORBIA LIQUID EXTRACT | | | | |
| 2 | 101390 | SENEGA LIQUID EXTRACT | | | | |
| 3 | 101472 | SQUILL LIQUID EXTRACT | | | | |
| 4 | 101800 | COCILLANA LIQUID EXTRACT | | | | |

Reference made to PHS data

For Drug Search Y Last Sent Batch Number 201300030 MDS Check Flag Y

Example

100%

Rule 3

| | B | C | I | L | M | AJ |
|-----|-------|--------|--------------------|---|---------|---|
| 1 | HK_F | ITEM_C | HA Allergen | VTM_EHR_DESC | VTM_TEF | Comment |
| 70 | 41653 | COCI01 | COCILLANA COMPOUND | cocillana liquid extract + senega liquid extract + squill liquid extract | 6032087 | Remove this one - HA item code COCI01 listed the following ingredients for COCI01: EUPHORBIA LIQUID EXTRACT; SENEGA LIQUID EXTRACT; SQUILL LIQUID EXTRACT; COCILLANA LIQUID EXTRACT |
| 71 | 21297 | COCI01 | COCILLANA COMPOUND | cocillana liquid extract + euphorbia liquid extract + senega liquid extract + squill liquid extract | 6032077 | Select this one as default mapping as the ingredient list matches with HA - HA item code COCI01 listed the following ingredients for COCI01: EUPHORBIA LIQUID EXTRACT; SENEGA LIQUID EXTRACT; SQUILL LIQUID EXTRACT; COCILLANA LIQUID EXTRACT |
| 72 | 43887 | COCI01 | COCILLANA COMPOUND | cocillana liquid extract + euphorbia liquid extract + senega liquid extract + squill liquid extract | 6032077 | Select this one as default mapping as the ingredient list matches with HA - HA item code COCI01 listed the following ingredients for COCI01: EUPHORBIA LIQUID EXTRACT; SENEGA LIQUID EXTRACT; SQUILL LIQUID EXTRACT; COCILLANA LIQUID EXTRACT |
| 73 | 52237 | COCI01 | COCILLANA COMPOUND | cocillana liquid extract + senega liquid extract + squill liquid extract | 6032087 | Remove this one - HA item code COCI01 listed the following ingredients for COCI01: EUPHORBIA LIQUID EXTRACT; SENEGA LIQUID EXTRACT; SQUILL LIQUID EXTRACT; COCILLANA LIQUID EXTRACT |
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| 407 | | | | | | |

HA Allergen
(Displayname+salt)

Mapped VTMs

Suggested
Manual Mapping

Reference:

| | Ingredient Code | Ingredient Description |
|---|-----------------|--------------------------|
| 1 | 100590 | EUPHORBIA LIQUID EXTRACT |
| 2 | 101390 | SENEGA LIQUID EXTRACT |
| 3 | 101472 | SQUILL LIQUID EXTRACT |
| 4 | 101800 | COCILLANA LIQUID EXTRACT |

Example

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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HA Allergen
(Displayname+salt)

Mapped VTMs

Example

In cases where the active ingredients in all affected item codes differ to those listed in VTM, no matching to either of the VTM.

Rule 3

Pharmaceutical Supplies System (PHS) - Windows Internet Explore

Pharmaceutical Supplies System (PHS - PRD 1.6.0.15)

Drugs ▾ File Maintenance ▾ PHS Maintenance ▾ Report ▾ Help ▾

Drug Maintenance

☐ Clear

Item Code VITA10 HQ Item Sus

Item Description VITAMIN B COMPLEX TABLET

Display Name VITAMIN B COMPLEX

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

Pharmaceutical Supplies System (PHS) - Windows Internet Explore

Pharmaceutical Supplies System (PHS - PRD 1.6.0.15)

Drugs ▾ File Maintenance ▾ PHS Maintenance ▾ Report ▾ Help ▾

Drug Maintenance

☐ Clear

Item Code VITA25 HQ Item Sus

Item Description VITAMIN B COMPLEX SYRUP

Display Name VITAMIN B COMPLEX

Pharmaceutical Supplies System (PHS) - Windows Internet Explore

Pharmaceutical Supplies System (PHS - PRD 1.6.0.15)

Drugs ▾ File Maintenance ▾ PHS Maintenance ▾ Report ▾ Help ▾

Drug Maintenance

☐ Clear

Item Code VITA10 HQ Item Sus

Item Description VITAMIN B COMPLEX TABLET

MDS Send Option A ▾ SEND FOR DRUG CROSS REFERE

Single Ingredient N ▾

| | Ingredient Code | Ingredient Description |
|---|-----------------|------------------------|
| 1 | 101361 | RIBOFLAVIN |
| 2 | 101554 | THIAMINE HCL |
| 3 | 101706 | NICOTINAMIDE |

...but differing list of
active ingredients

Pharmaceutical Supplies System (PHS) - Windows Internet Explore

Pharmaceutical Supplies System (PHS - PRD 1.6.0.15)

Drugs ▾ File Maintenance ▾ PHS Maintenance ▾ Report ▾ Help ▾

Drug Maintenance

☐ Clear

Item Code VITA25 HQ Item Sus

Item Description VITAMIN B COMPLEX SYRUP

MDS Send Option A ▾ SEND FOR DRUG CROSS REFERE

Single Ingredient N ▾

| | Ingredient Code | Ingredient Description |
|---|-----------------|-----------------------------|
| 1 | 101554 | THIAMINE HCL |
| 2 | 101966 | RIBOFLAVIN SODIUM PHOSPHATE |
| 3 | 101331 | PYRIDOXINE HCL |
| 4 | 100235 | CALCIUM PANTOTHENATE |
| 5 | 101706 | NICOTINAMIDE |

Example

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

Rule 3

Rule 3

L410

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HA Allergen
(Displayname+salt)

Mapped VTMs

Suggested
Manual Mapping

Example

In cases where the active ingredients in all affected item codes differ to those listed in VTM, no matching to either of the VTM.

eHR allergy record for "VITAMIN B COMPLEX" will become LEVEL 2

select the simplest VTM term with the same
pharmaceutical meaning.

Rule 4

Rule 4

| | B | C | I | L | M | AJ |
|-----|-------|--------|--------------------------|-----------------------------------|---------|---|
| 1 | HK_R | ITEM_C | HA Allergen / ADR Causat | VTM_EHR_DESC | VTM_TER | Comment |
| 155 | 36811 | METO01 | METOCLOPRAMIDE HCL | metoclopramide hydrochloride | 6038739 | Select this one default as VTM matches with HA displayname+salt and is a simpler term |
| 156 | 07177 | METO01 | METOCLOPRAMIDE HCL | metoclopramide hydrochloride | 6038739 | Select this one default as VTM matches with HA displayname+salt and is a simpler term |
| 157 | 37155 | METO02 | METOCLOPRAMIDE HCL | metoclopramide hydrochloride | 6038739 | Select this one default as VTM matches with HA displayname+salt and is a simpler term |
| 158 | 07173 | METO03 | METOCLOPRAMIDE HCL | metoclopramide (as hydrochloride) | 6038735 | Remove this one |
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Example

Where all mapped VTM results are referring to the same substance, in this case “metoclopramide hydrochloride” and “metoclopramide hydrochloride” refers to the same substance, 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

Rule 5

| | B | C | I | L | M | AJ |
|-----|-------|--------|-------------|--|---------|--|
| 1 | HK_F | ITEM_C | HA Allergen | VTM_EHR_DESC | VTM_TEF | Comment |
| 7 | 44845 | AUGM01 | AUGMENTIN | amoxicillin (as trihydrate) + clavulanate (as potassium) | 6025297 | Select this one as default as "sodium" and "trihydrate" does not affect the allergenicity of the drug itself |
| 8 | 47298 | AUGM01 | AUGMENTIN | amoxicillin (as trihydrate) + clavulanate (as potassium) | 6025297 | Select this one as default as "sodium" and "trihydrate" does not affect the allergenicity of the drug itself |
| 9 | 52246 | AUGM01 | AUGMENTIN | amoxicillin (as trihydrate) + clavulanate (as potassium) | 6025297 | Select this one as default as "sodium" and "trihydrate" does not affect the allergenicity of the drug itself |
| 10 | 42463 | AUGM01 | AUGMENTIN | amoxicillin (as trihydrate) + clavulanate (as potassium) | 6025297 | Select this one as default as "sodium" and "trihydrate" does not affect the allergenicity of the drug itself |
| 11 | 41947 | AUGM02 | AUGMENTIN | amoxicillin (as trihydrate) + clavulanate (as potassium) | 6025297 | Select this one as default as "sodium" and "trihydrate" does not affect the allergenicity of the drug itself |
| 12 | 24658 | AUGM02 | AUGMENTIN | amoxicillin (as trihydrate) + clavulanate (as potassium) | 6025297 | Select this one as default as "sodium" and "trihydrate" does not affect the allergenicity of the drug itself |
| 13 | 43478 | AUGM02 | AUGMENTIN | amoxicillin (as trihydrate) + clavulanate (as potassium) | 6025297 | Select this one as default as "sodium" and "trihydrate" does not affect the allergenicity of the drug itself |
| 14 | 27422 | AUGM03 | AUGMENTIN | amoxicillin (as sodium) + clavulanate (as potassium) | 6025286 | Remove this one |
| 15 | 58181 | AUGM03 | AUGMENTIN | amoxicillin (as sodium) + clavulanate (as potassium) | 6025286 | Remove this one |
| 16 | 51188 | AUGM04 | AUGMENTIN | amoxicillin (as sodium) + clavulanate (as potassium) | 6025286 | Remove this one |
| 17 | 52053 | AUGM04 | AUGMENTIN | amoxicillin (as sodium) + clavulanate (as potassium) | 6025286 | Remove this one |
| 18 | 27421 | AUGM04 | AUGMENTIN | amoxicillin (as sodium) + clavulanate (as potassium) | 6025286 | Remove this one |
| 19 | 42252 | AUGM05 | AUGMENTIN | amoxicillin (as trihydrate) + clavulanate (as potassium) | 6025297 | Select this one as default as "sodium" and "trihydrate" does not affect the allergenicity of the drug itself |
| 20 | 52242 | AUGM05 | AUGMENTIN | amoxicillin (as trihydrate) + clavulanate (as potassium) | 6025297 | Select this one as default as "sodium" and "trihydrate" does not affect the allergenicity of the drug itself |
| 21 | 56737 | AUGM05 | AUGMENTIN | amoxicillin (as trihydrate) + clavulanate (as potassium) | 6025297 | Select this one as default as "sodium" and "trihydrate" does not affect the allergenicity of the drug itself |
| 22 | 56072 | AUGM06 | AUGMENTIN | amoxicillin (as trihydrate) + clavulanate (as potassium) | 6025297 | Select this one as default as "sodium" and "trihydrate" does not affect the allergenicity of the drug itself |
| 23 | 56738 | AUGM06 | AUGMENTIN | amoxicillin (as trihydrate) + clavulanate (as potassium) | 6025297 | Select this one as default as "sodium" and "trihydrate" does not affect the allergenicity of the drug itself |
| 24 | 42735 | AUGM06 | AUGMENTIN | amoxicillin (as trihydrate) + clavulanate (as potassium) | 6025297 | Select this one as default as "sodium" and "trihydrate" does not affect the allergenicity of the drug itself |
| 25 | 43480 | AUGM07 | AUGMENTIN | amoxicillin (as trihydrate) + clavulanate (as potassium) | 6025297 | Select this one as default as "sodium" and "trihydrate" does not affect the allergenicity of the drug itself |
| 26 | 52247 | AUGM07 | AUGMENTIN | amoxicillin (as trihydrate) + clavulanate (as potassium) | 6025297 | Select this one as default as "sodium" and "trihydrate" does not affect the allergenicity of the drug itself |
| 312 | 42735 | S00201 | AUGMENTIN | amoxicillin (as trihydrate) + clavulanate (as potassium) | 6025297 | Select this one as default as "sodium" and "trihydrate" does not affect the allergenicity of the drug itself |
| 337 | 42252 | S00484 | AUGMENTIN | amoxicillin (as trihydrate) + clavulanate (as potassium) | 6025297 | Select this one as default as "sodium" and "trihydrate" does not affect the allergenicity of the drug itself |

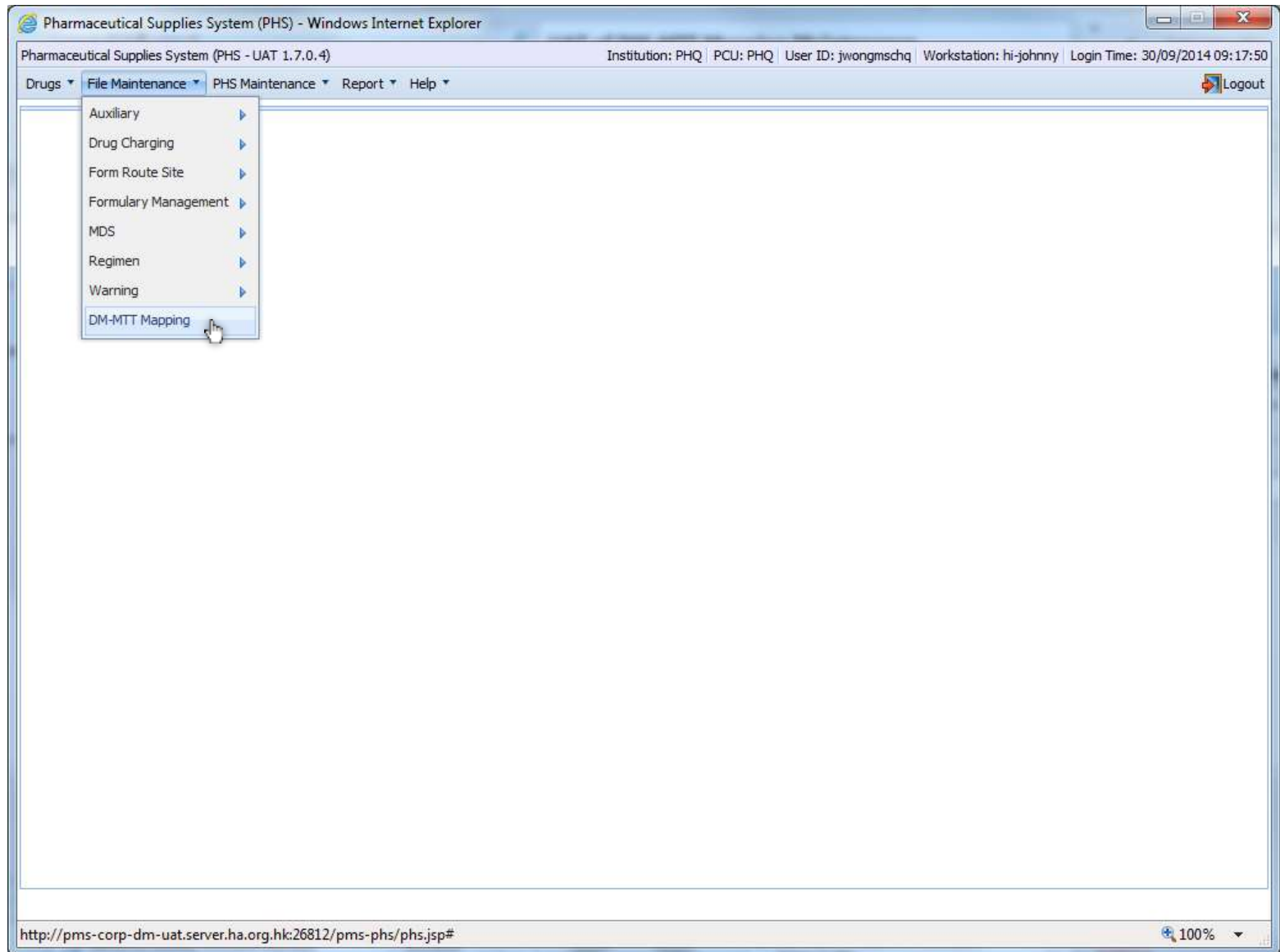
HA Allergen
(Displayname+salt)

Mapped VTM's

Suggested
Manual Mapping

Example

For example, HA Allergen "AUGMENTIN" has two mapped results due to two VTM results. Neither sodium nor trihydrate would confer any differences in allergenicity of the drug itself, so manual mapping of either one would not make any difference – in this case, select the term with the smallest termID (ie the older term)



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

Pharmaceutical Supplies System (PHS) - Windows Internet Explorer

Pharmaceutical Supplies System (PHS - UAT 1.7.0.4) PCU: PHQ User ID: jwongmschq Workstation: hi-johnny Login Time: 30/09/2014 09:17:50 Logout

Drugs File Maintenance PHS Maintenance **Allergen Mapping**

DM-MTT Mapping

Clear Enquire Save

Mapping Table Result **Allergen Mapping**

Status **REVIEW** HA Allergen with manual mapping, to be reviewed due to underlying data change Display Name/Item Code

Status

- MAPPED - HA Allergen with manual mapping
- REVIEW - HA Allergen with manual mapping, to be reviewed due to underlying data changed**
- NEW - HA Allergen with multiple VTM Term ID
- SINGLE - HA Allergen with single VTM mapping

VTM eHR description VTM eHR status

Display Name + Salt/Special Property Related Items History

| Current Mapping | | | | New Mapping | | | |
|-----------------|------------|---------------------|----------------|-------------|------------|---------------------|----------------|
| Map To | VTM TermID | VTM eHR description | VTM eHR status | Map To | VTM TermID | VTM eHR description | VTM eHR status |
| | | | | | | | |
| | | | | | | | |

Reason Reason

100%

Allergen Mapping tab

To search for types of mapping by "Status"

The <Allergen Mapping> tab displays the types of mapping, and allow search for specific manual mapping data

Pharmaceutical Supplies System (PHS) - Windows Internet Explorer

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 Maintenance PHS Maintenance Report Help

HA Allergen (PHS Displayname±Salt)

eHR Allergen HKMTT VTM

Clear Enquire Save

Mapping Table Result **Allergen Mapping**

Status: **MAPPED** HA Allergen with manual mapping Display Name/Item Code

| Status | Display name | Salt/Special property | VTM TermID | VTM full description | VTM eHR description | VTM eHR status |
|--------|--------------------------|----------------------------------|------------|--|--|----------------|
| MAPPED | ACTIFED COMPOUND | | 6001260 | codeine phosphate + pseudoephedrine hydrochloride + triprolidine hydrochloride | codeine phosphate + pseudoephedrine hydrochloride + triprolidine hydrochloride | Active |
| MAPPED | ACYCLOVIR | SODIUM | 6013724 | aciclovir (as sodium) | aciclovir (as sodium) | Active |
| MAPPED | ADRENALINE | ACID TARTRATE, PRESERVATIVE FREE | 6004964 | epinephrine (as bitartrate) | epinephrine (as bitartrate) | Active |
| MAPPED | ALBUMIN AGGREGATED (MAA) | | NO MAPPING | | | |
| MAPPED | ALISKIREN | | 6023652 | aliskiren | aliskiren | Active |
| MAPPED | ALPHA TOCOPHERYL ACETATE | | 6002236 | vitamin E (as D-alpha tocoferil acetate) | vitamin E (as D-alpha tocoferil acetate) | Active |
| MAPPED | ALUMINIUM HYDROXIDE | | 6001780 | aluminium hydroxide | aluminium hydroxide | Active |

Display Name + Salt/Special Property: **ACTIFED COMPOUND**

1. Select HA Allergen (source)

| Current Mapping (10/11/2014) | | | | New Mapping (03/06/2015) | | | |
|-------------------------------------|------------|--|----------------|--------------------------|------------|--|----------------|
| Map To | VTM TermID | VTM eHR description | VTM eHR status | Map To | VTM TermID | VTM eHR description | VTM eHR status |
| <input type="checkbox"/> | NO MAPPING | | | <input type="checkbox"/> | NO MAPPING | | |
| <input checked="" type="checkbox"/> | 6001260 | codeine phosphate + pseudoephedrine hydrochloride + triprolidine hydrochloride | Active | <input type="checkbox"/> | 6001260 | codeine phosphate + pseudoephedrine hydrochloride + triprolidine hydrochloride | Active |
| <input type="checkbox"/> | 6002004 | carbinoxamine maleate + codeine phosphate + pseudoephedrine hydrochloride | Active | <input type="checkbox"/> | 6002004 | carbinoxamine maleate + codeine phosphate + pseudoephedrine hydrochloride | Active |

2. Select eHR VTM (target)

Reason: **Ingredients matched**

3. Select mapping reason (for audit)

Reason: **Ingredients matched**

100%

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

Pharmaceutical Supplies System (PHS) - Windows Internet Explorer

Pharmaceutical Supplies System (PHS - UAT 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 Maintenance ▾ Report ▾ Help ▾

DM-MTT Mapping

☐ Clear

Mapping Table Result **Allergen Mapping**

Status **MAPPED** HA Allergen with manual mapping Display Name/Item Code

| Status | Display name | Salt/Special property | VTM TermID | VTM full description | VTM eHR description | VTM eHR status |
|--------|--|-----------------------|------------|--|--|----------------|
| MAPPED | AUGMENTIN | | 6007548 | amoxicillin (as sodium) + clavulanate (as potassium) | amoxicillin (as sodium) + clavulanate (as potassium) | A |
| MAPPED | CHLORHEXIDINE GLUCON 2% IN 70% ALCOHOL | | 6086715 | chlorhexidine gluconate + isopropyl alcohol | chlorhexidine gluconate + isopropyl alcohol | A |
| MAPPED | CIPROFLOXACIN | LACTATE | 6008148 | ciprofloxacin (as lactate) | ciprofloxacin (as lactate) | A |
| MAPPED | COCILLANA COMPOUND | | 6012652 | cocillana liquid extract + senega liquid extract + squill liquid extract | cocillana liquid extract + senega liquid extract + squill liquid extract | A |
| MAPPED | DEANXIT | | 6022060 | flupentixol (as hydrochloride) + melitracen (as hydrochloride) | flupentixol (as hydrochloride) + melitracen (as hydrochloride) | A |
| MAPPED | DESMOPRESSIN | ACETATE | 6008284 | desmopressin acetate | desmopressin acetate | A |
| MAPPED | DEXAMETHASONE | SODIUM PHOSPHATE | 6001500 | dexamethasone sodium | dexamethasone sodium | A |

Display Name + Salt/Special Property **AUGMENTIN**

Current Mapping (26/09/2014)

| Map To | VTM TermID | VTM eHR description | VTM eHR status |
|-------------------------------------|------------|--|----------------|
| <input type="checkbox"/> | NO MAPPING | | |
| <input type="checkbox"/> | 6004548 | amoxicillin (as trihydrate) + clavulanate (as potassium) | A |
| <input checked="" type="checkbox"/> | 6007548 | amoxicillin (as sodium) + clavulanate (as potassium) | A |
| <input type="checkbox"/> | 6009860 | urea | A |

Reason **Ingredients matched**

Related Items **History**

New Mapping (30/09/2014)

| Map To | VTM TermID | VTM eHR description | VTM eHR status |
|-------------------------------------|---------------------------------------|--|----------------|
| <input type="checkbox"/> | NO MAPPING | | |
| <input checked="" type="checkbox"/> | 6004548 | amoxicillin (as trihydrate) + clavulanate (as potassium) | A |
| <input type="checkbox"/> | 6007548 | amoxicillin (as sodium) + clavulanate (as potassium) | A |
| <input type="checkbox"/> | 01 - Description matched | | |
| <input type="checkbox"/> | 02 - Ingredients matched | | |
| <input type="checkbox"/> | 03 - Simplest VTM selected | | |
| <input type="checkbox"/> | 04 - Smallest VTM Term ID selected | | |
| <input type="checkbox"/> | 05 - All mapping rules not applicable | | |

Reason

The bottom right is a panel for “New Mapping”

Guide on Implementation & Maintenance of the Hong Kong Clinical Terminology Table

Please visit:

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



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

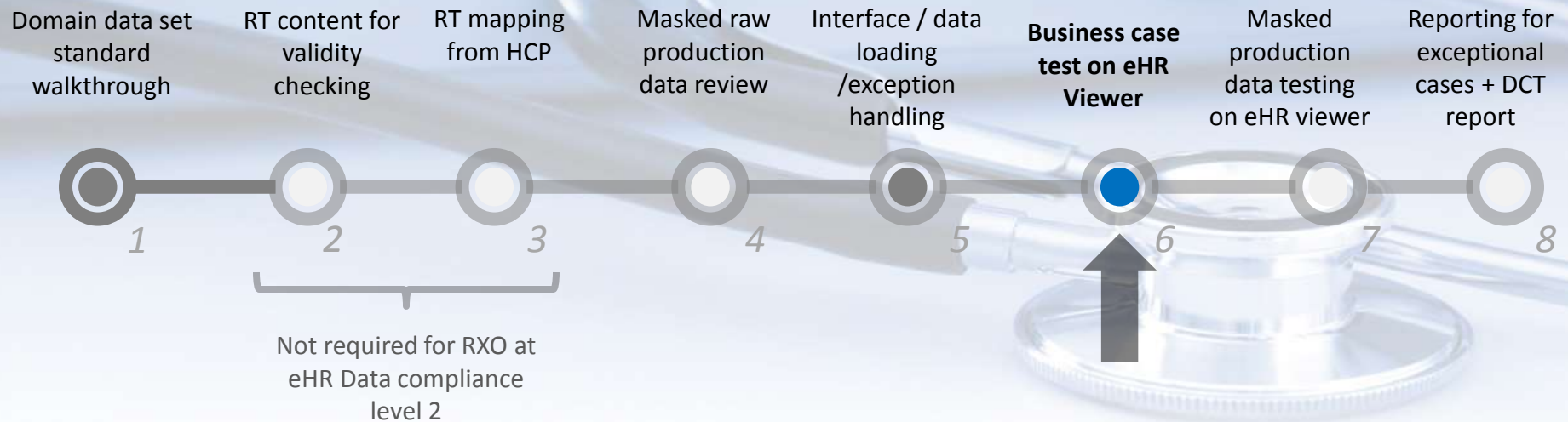
March 2016

The Government of the Hong Kong Special Administrative Region

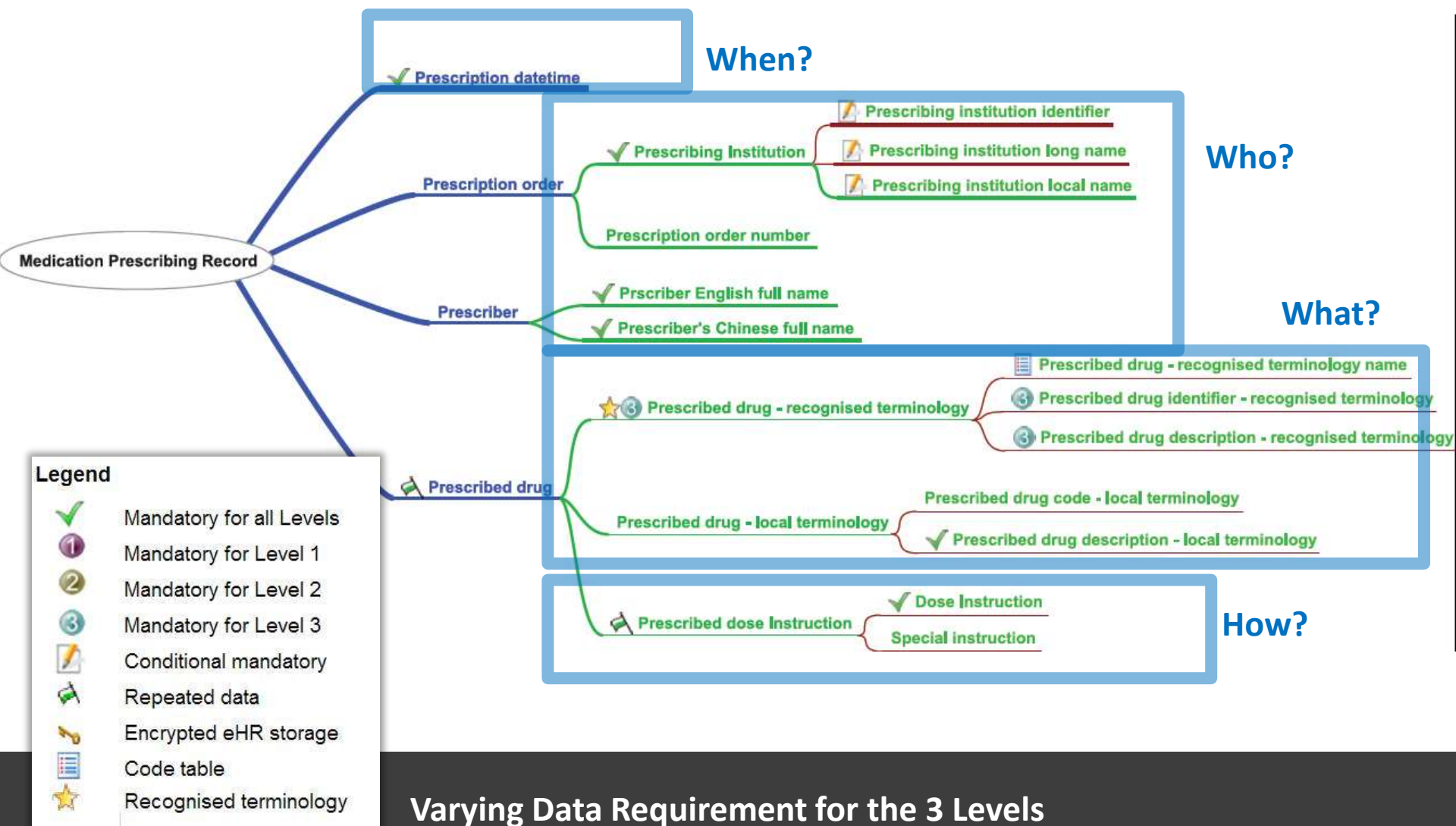
For more information about implementing HKCTT, please visit eHealth.gov.hk

Data Compliance Test for Healthcare Providers

Data Compliance Test



What data can be submitted : The Prescribing Record Data Set



Varying Data Requirement for the 3 Levels

| Prescribing Record (Level 2) - Business test case - HKMA | | | | | | | | |
|--|---|--|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|---|
| | A | B | C | D | E | F | G | H |
| 1 | Prescribing Record (Level 2) - Business test case - HKMA | | | | | | | |
| 2 | | | | | | | | |
| 3 | Entity Name | Data requirement (Certified Level 2) | Test Case 1 | Test Case 2 | Test Case 3 | Test Case 4 | Test Case 5 | Test Case 6 |
| 4 | Prescription datetime | M | 17/08/2016 | 17/08/2016 | 17/08/2016 | 17/08/2016 | 17/08/2016 | 17/08/2016 |
| 5 | Prescribing institution identifier | M if [Prescribing institution local name] is blank | <Prescribing intitution identifier> | <Prescribing intitution identifier> | <Prescribing intitution identifier> | <Prescribing intitution identifier> | <Prescribing intitution identifier> | <Prescribing intitution identifier> |
| 6 | Prescribing institution long name | M if [Prescribing institution identifier] is given | <Prescribing intitution long name> | <Prescribing intitution long name> | <Prescribing intitution long name> | <Prescribing intitution long name> | <Prescribing intitution long name> | <Prescribing intitution long name> |
| 7 | Prescribing institution local name | M if [Prescribing institution identifier] is blank | <Prescribing institution local name> | <Prescribing institution local name> | <Prescribing institution local name> | <Prescribing institution local name> | <Prescribing institution local name> | <Prescribing institution local name> |
| 8 | Prescription order number | O | <Prescription order number> | <Prescription order number> | <Prescription order number> | <Prescription order number> | <Prescription order number> | <Prescription order number> |
| 9 | Prescriber's English full name | M if [Prescriber's Chinese full name] is blank | <Prescriber's English full name> | <Prescriber's English full name> | <Prescriber's English full name> | <Prescriber's English full name> | <Prescriber's English full name> | <Prescriber's English full name> |
| 10 | Prescriber's Chinese full name | M if [Prescriber's English full name] is blank | <Blank> | <Blank> | <Blank> | <Blank> | <Blank> | <Blank> |
| 14 | Prescribed drug code - local terminology | O | 768 | 1024 | 18520 | 18018 | 18066 | 18091 |
| 15 | Prescribed drug description - local terminology | M | AMON-I CAP 250MG | ANTIHOST SYRUP 2MG/4ML | ACTONEL ONCE-A-WEEK TAB 35MG | INFANRIX HEXA VACCINE | LIPITOR TAB 10MG | BETASONE CREAM 0.1% |
| 16 | Prescribed dose instruction | M | One tablet TDS for 7days | 4mL TID PRN | 1 tablet once a week | 1 dose stat | one tablet nocte | apply to the affected areas 4 times a day as directed |
| 17 | Special instruction for prescription order | O | Complete the prescribed course | <Blank> | before breakfast | <Blank> | <Blank> | <Blank> |
| 18 | | | | | | | | |
| | | Local eMR : | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| 19 | Supporting | | | | | | | |

Business test via CMSEHR

Hong Kong [REDACTED]

**Data Compliance Test Report
for
Electronic Health Record Sharing System
(eHRSS)
on
Prescribing Record**

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

o eHR Information Standards Document

- > eHR Content
- > Index Management
- > Clinical Terminology

o Links to websites of related Recognised Terminologies



Appendices - eHR Content and Codex

Full version of [appendices](#). (PDF version)

[Amendment Log](#) (PDF version)

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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)
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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)
16. [Appendix XVI. Radiology Examination](#) (PDF version)

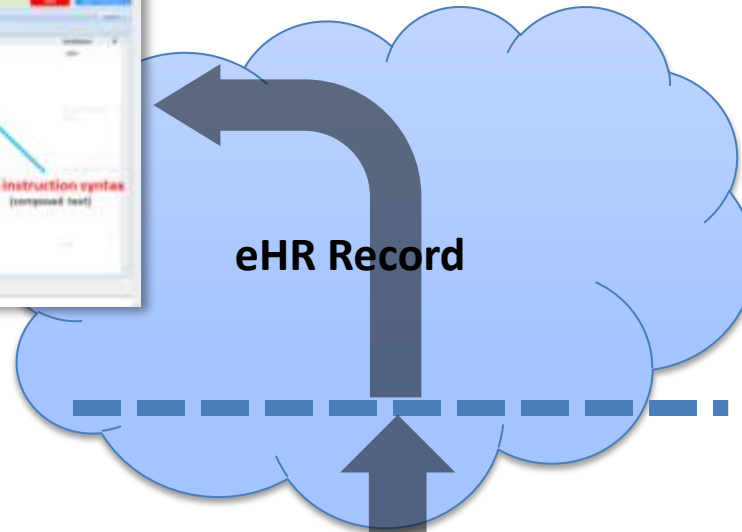


Data Validation by eHR upon receipt of
record submitted from Healthcare providers

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 Viewer

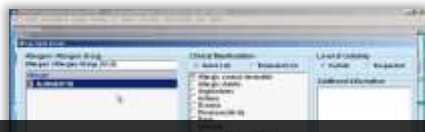
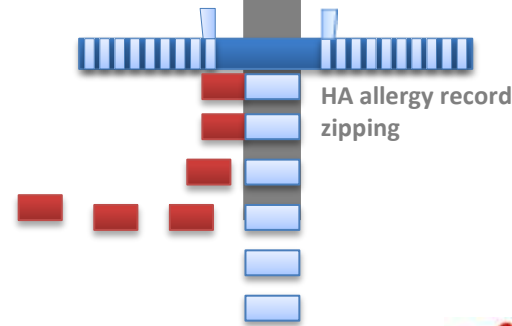


2

Data Quality
Check

1

Data Integrity
Check



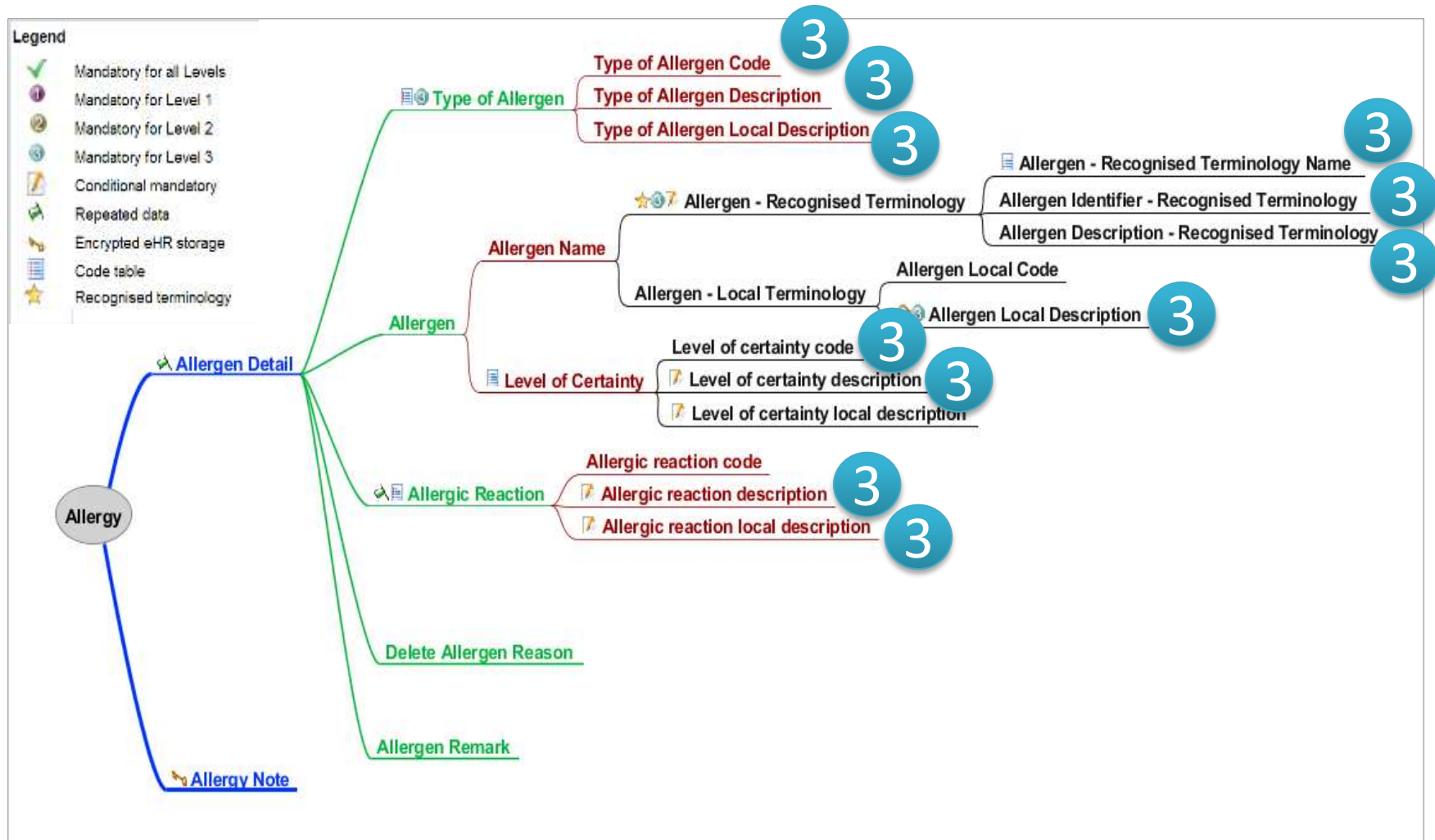
eHR Data Integration Check (Message standard compliance) and Data Quality Check (Data standard compliance)

1

eHR Message Validation Checking

Data Integrity Check

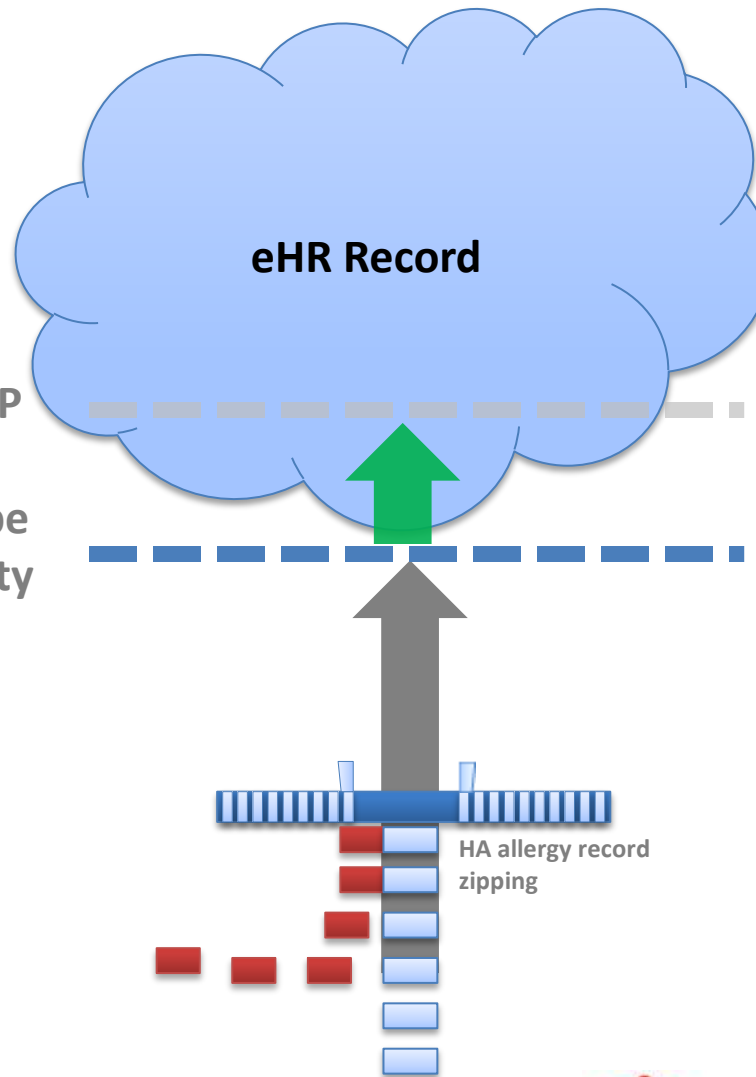
What is Message Standard Compliance ? (Data Integrity Check)



3 = **Mandatory for eHR Data Compliance Level 3**

HCP data meets
eHR Message
Standard

Data submitted by HCP
meets the message
format standard will be
sent for L3 Data Quality
Check

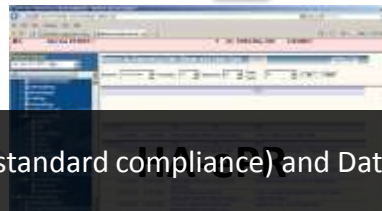
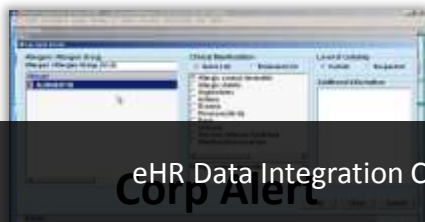


2

Data Quality
Check

1

Data Integrity
Check



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

HCP data does not meet eHR Message Standard

Data submitted by HCP does not meet the message format standard will be **regraded to Level 2**

eHR Record

2

Data Quality Check

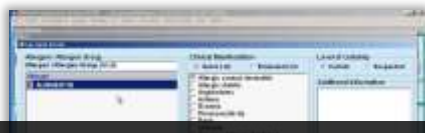
1

Data Integrity Check

eHR generates a **"Re-grade report"** to designated persons of healthcare provider



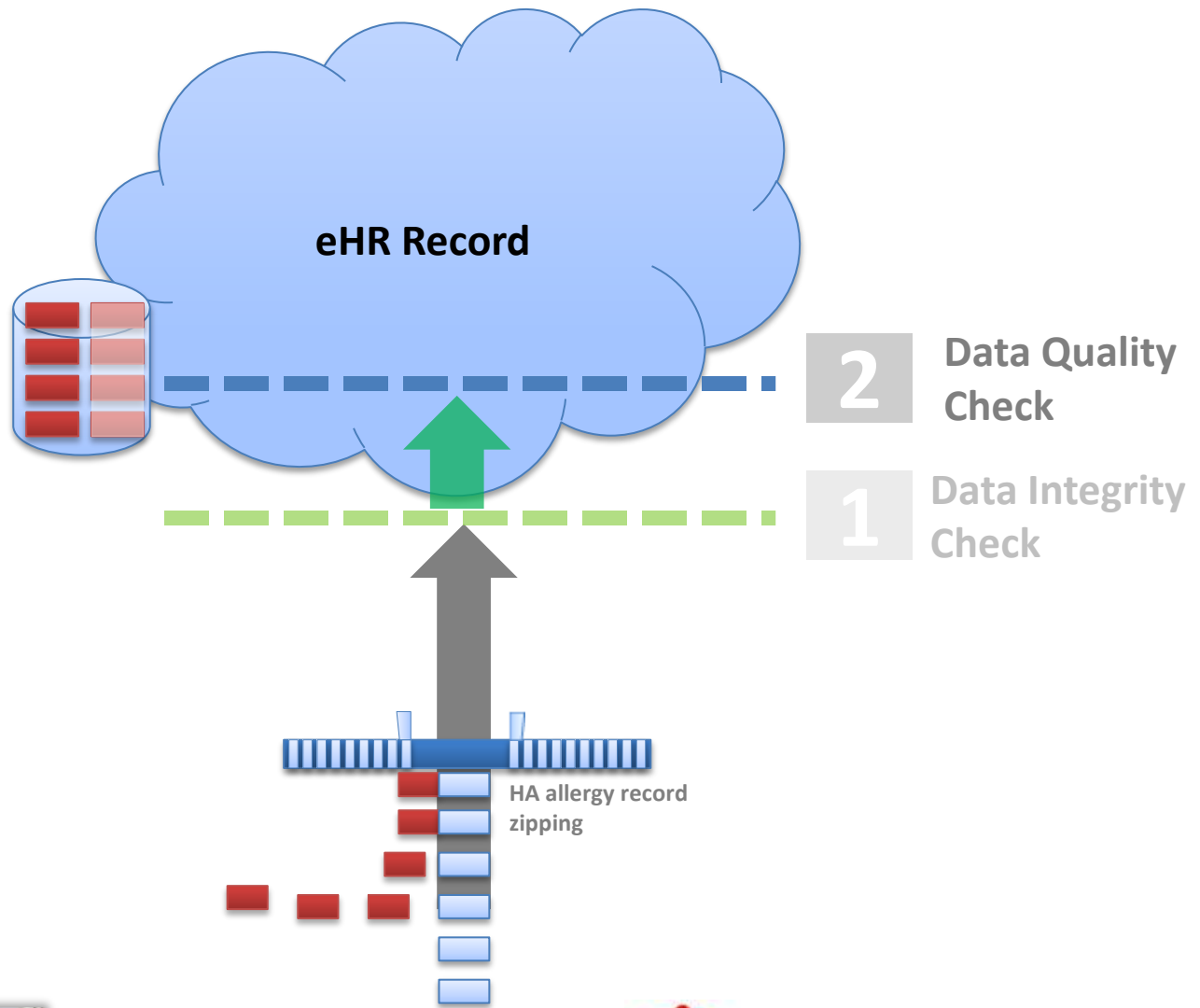
HA allergy record zipping



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

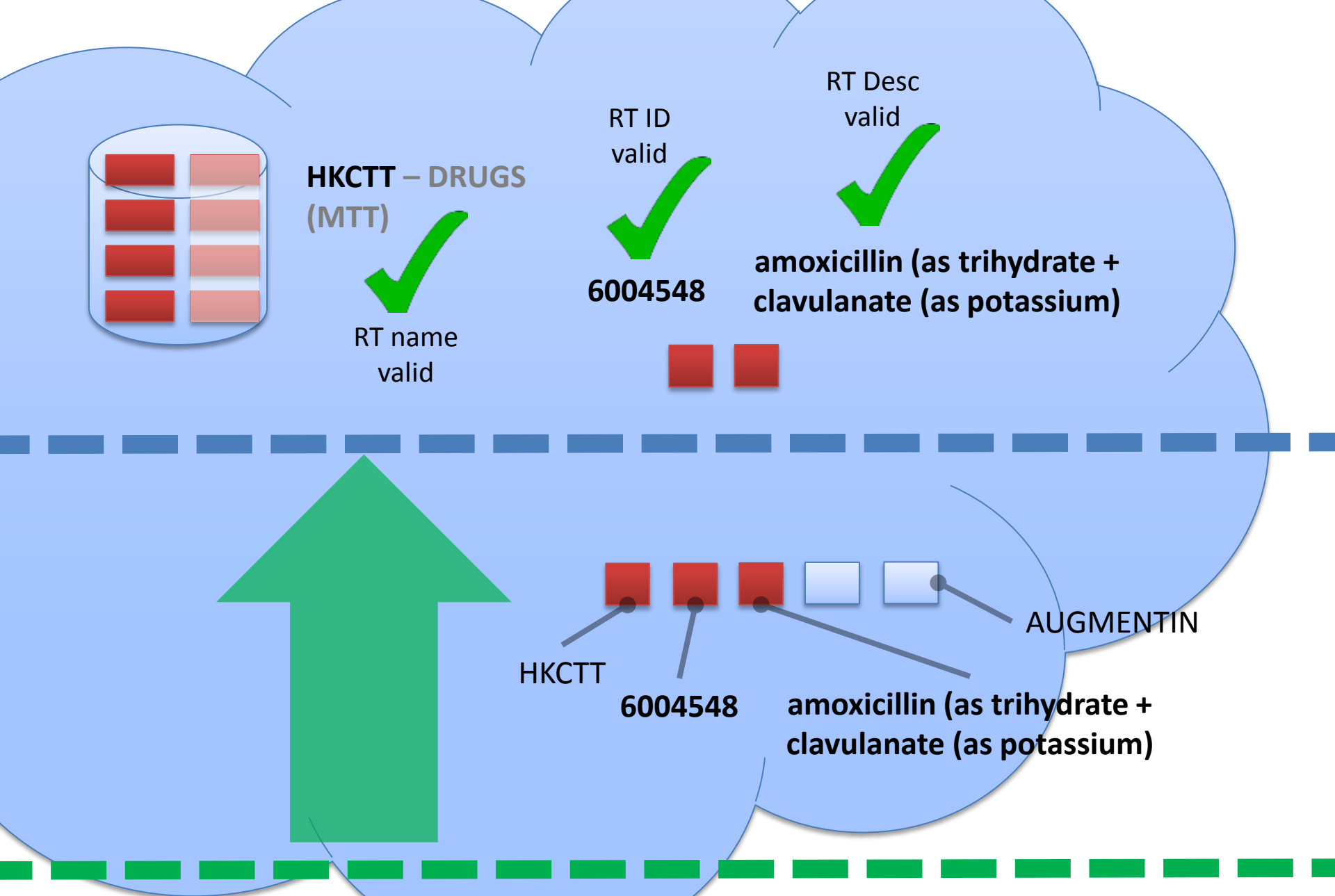
2

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).

Corp Alert



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 meets
eHR Data Validation

eHR Record

Data submitted by
HCP meets the
Data Standards
will be **displayed
in eHealth Viewer
as level 3.**

2

Data Quality
Check

1

Data Integrity
Check

HA allergy record
zipping

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



**HKCTT – DRUGS
(MTT)**



RT name
valid

RT ID
valid



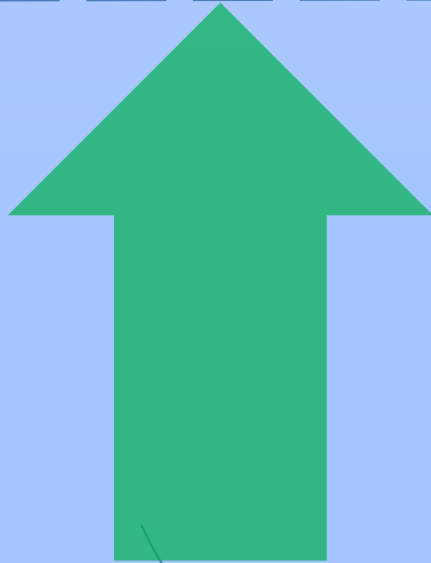
6004548



RT Desc
invalid



amoxicillin (as trihydrate +
clavulanate (as potassium))



HKCTT

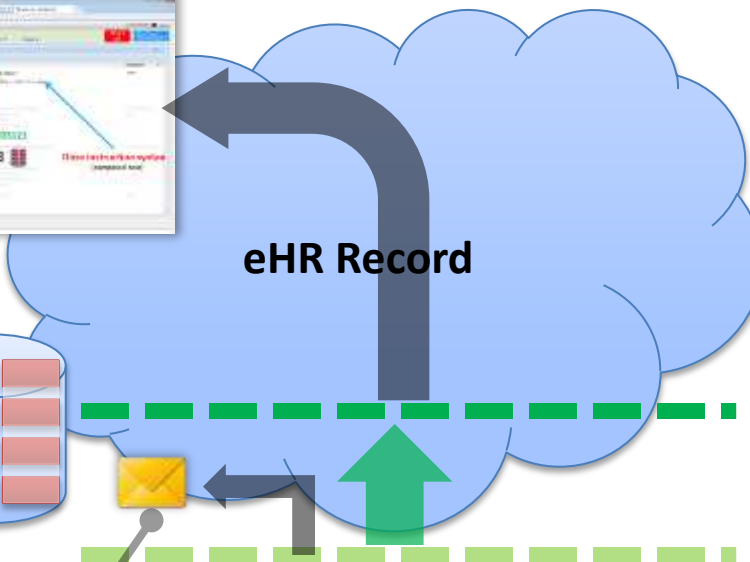
6004548



AUGMENTIN

calamine + zinc
oxide

Data submitted by HCP does not meet the Data Standards, local desc will be **displayed in eHealth Viewer as level 2.**



HCP data failed eHR
Data Validation

2

Data Quality
Check

1

Data Integrity
Check

eHR generates a
“Re-grade report”
to designated persons of
healthcare provider



HA allergy record
zipping



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



電子健康紀錄互通系統

Electronic Health Record Sharing System

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 - Domain Group on eHR Content & Information Standards (eHR IS DG)
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Home > Information Standards > eHR Information Standards

Clinical Terminology

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

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 information. Clinical data relating to patients' health conditions, symptoms, signs, and diagnoses recorded using consistent representations to facilitate clinicians' mutual interpretation of the clinical concepts. The table has demonstrated its interoperability which facilitates clinicians' efficient and accurate

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

eHR Viewer - ehr.gov.hk - Windows Internet Explorer

https://apps.ppt.ehr.gov.hk/group/eve/eve-home?p_p_state=normal&p_p_lifecycle=0&p_p_id=pfwportalparticipantobjportlet_W... Certificate Error Bing

Full compliant level 3 data on eHealth Record Viewer

eHR Viewer - ehr.gov.hk

醫健通 health

Clinical Administration Standards Information

黃大木 CHAN, E3185560
HKIC No.: E318556(0) DOB: 15-Dec-1963 Age: 51 years Sex: F Details ▶

eHR Viewer - ehr.gov.hk - Windows Internet Explorer

https://apps.ppt.ehr.gov.hk/group/eve/eve-all?mode=0&hccp=A Certificate Error Bing

eHR Viewer - ehr.gov.hk

醫健通 health

Clinical Administration Standards Information

黃大木 CHAN, E1766671
HKIC No.: E176667(1) DOB: 21-May-1948 Age: 67 years Sex: F Details ▶

Allergy & ADR

SIU MING 4 YAM (Logout)

All Local Non-Local Help

Allergy & Adverse Drug Reaction Details

Patient's all Allergy and ADR information is displayed. Default View

| Allergen | Allergy Information | Date | Institution |
|---|----------------------------------|-------------|-------------|
| ▼ hyoscine butylbromide BUSOPAN [HYOSCINE BUTYLBROMIDE] | Certain, Other allergy reaction | 19-Nov-2011 | HA |
| ▼ diclofenac sodium VOLTAREN SR [DICOLOFENAC SODIUM] | Suspected, Angioedema, Urticaria | 27-Nov-2010 | HA |
| ▼ amoxicillin (as trihydrate) + clavulanate (as potassium) AUGMENTIN | Suspected, Angioedema | 24-Dec-2005 | HA |
| ▼ ketorolac tromethamine KETOROLAC TROMETAMOL | Suspected, Angioedema | 24-Dec-2005 | HA |
| ▼ metronidazole FLAGYL [METRONIDAZOLE] | Suspected, Angioedema | 24-Dec-2005 | HA |
| ▼ famotidine PEPCIDINE [FAMOTIDINE] | Manifestation uncertain | 19-Dec-2004 | HA |
| ▼ tetracycline hydrochloride TETRACYCLINE HCL | Certain, Angioedema | 17-Dec-2004 | HA |

| ADR Causative Agent | ADR Information | Date | Institution |
|---|--------------------------|-------------|-------------|
| ▼ bisoprolol hemifumarate BISOPROLOL FUMARATE | Mild, Drowsy | 25-Mar-2015 | HA |
| ▼ felodipine PLENDIL [FELODIPINE] | Mild, Headache Disorder | 25-Mar-2015 | HA |
| ▼ methylidopa ALDOMET [METHYLDOPA] | Mild, Others | 27-Nov-2007 | HA |
| ▼ amlodipine (as besylate) NORVASC [AMLODIPINE BESYLATE] | Severe, Peripheral Edema | 26-Oct-2007 | HA |

No Record

eHR displays valid level 3 record: group under the RT MTT product, and local allergen description displayed

eHR Viewer - ehr.gov.hk - Windows Internet Explorer

https://apps.ppt.ehr.gov.hk/group/evz/evz-home?p_p_state=normal&p_p_lifecycle=0&p_id=pfwportalparticipantobjportlet_W

Certificate Error

Bing

Re-graded record on eHealth Record Viewer

eHR Viewer - ehr.gov.hk

Clinical Administration Standards Information

黃大木 CHAN, E3185560
HKIC No.: E318556(0) DOB: 15-Dec-1963 Age: 51 years Sex: F Details ▶

eHR Viewer - ehr.gov.hk - Windows Internet Explorer

eHR Viewer - ehr.gov.hk

Clinical Administration Standards Information

黃大木 CHAN, E1660148
HKIC No.: E166014(8) DOB: 28-Aug-1955 Age: 60 years Sex: M Details ▶

Allergy & ADR

Select Patient Close Record

SIU MING 4 YAM (Logout)

醫健通 ehealth

All Local Non-Local Help

Allergy & Adverse Drug Reaction Details

Patient's all Allergy and ADR information is displayed.

Default View

| Allergen | Allergy Information | Date | Institution |
|--|--|-------------|-------------|
| ▼ naproxen | | | |
| NAPROSYN [NAPROXEN] | Certain, Rash | 11-Jul-2011 | HA |
| NAPROXEN | Certain, Rash | 11-Jul-2011 | HA |
| ▼ nifedipine | | | |
| ADALAT RETARD [NIFEDIPINE] | Suspected, Rash | 19-May-2009 | HA |
| ▼ influenza virus (split virion inactivated) vaccine | | | |
| VAXIGRIP [INFLUENZA CAMPAIGN] | Certain, Rash | 20-Nov-2007 | HA |
| HYOSINE | Suspected, Manifestation uncertain | 18-Jul-2007 | HA |
| PHENOBARBITAL | Suspected, Rash | 18-Jul-2007 | HA |
| PHENOBARBITAL, SEPTIN, AMPICILLIN, NAPROSN | Suspected, Rash, Manifestation uncertain | 18-Jul-2007 | HA |
| TETRACYCLINE, HOLOPON, HYOSINE, ASPIRIN | Suspected, Rash, Manifestation uncertain | 18-Jul-2007 | HA |
| ▼ ampicillin (as trihydrate) | | | |
| AMPICILLIN | Suspected, Manifestation uncertain | 18-Jul-2007 | HA |
| ▼ aspirin | | | |
| ASPIRIN | Suspected, Rash, Manifestation uncertain | 18-Jul-2007 | HA |
| ADR Causative Agent | ADR Information | Date | Institution |

No Record

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

The re-grade reports

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

醫健通
*e*health
record

Using HKCTT : Drugs

Johnny Wong

Pharmacist, Hospital Authority

Workshop on Improve Patient Safety with Drug Standards
3 March 2017

