

Preparation for eHR – Briefing on eHR content

Immunisation

By Veronica HUNG

Health Informatician, eHRISO

Domains

- PMI
- Encounter
- Immunisation



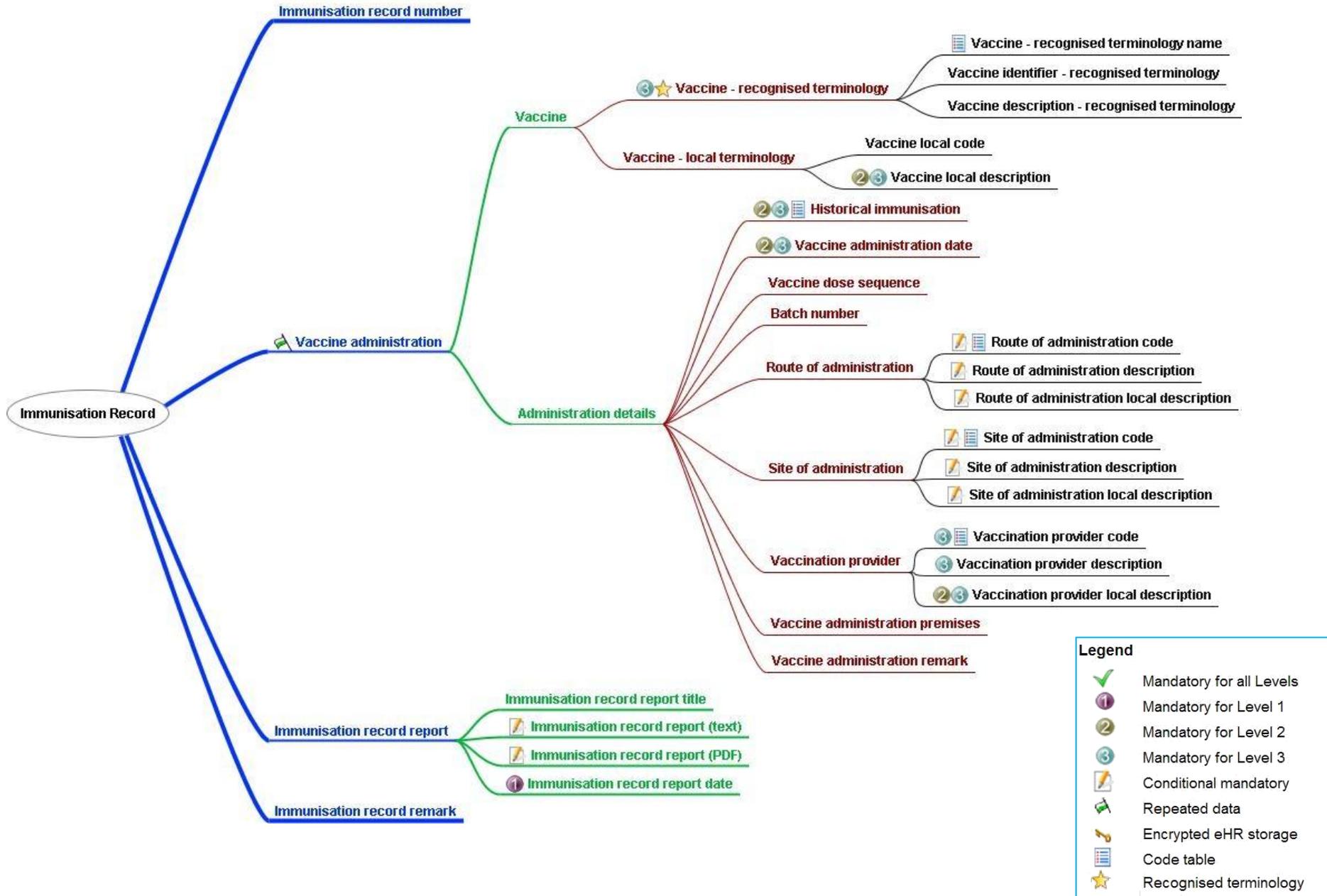
IMMUNISATION



Immunisation

- **Immunisation data**
 - includes all immunisation administered to the Healthcare Recipient

Immunisation dataset



Changes in Immunisation Dataset

(since 1st eHR Content Briefing in Jul 2012)

1. Dataset – ‘Definition’ revised

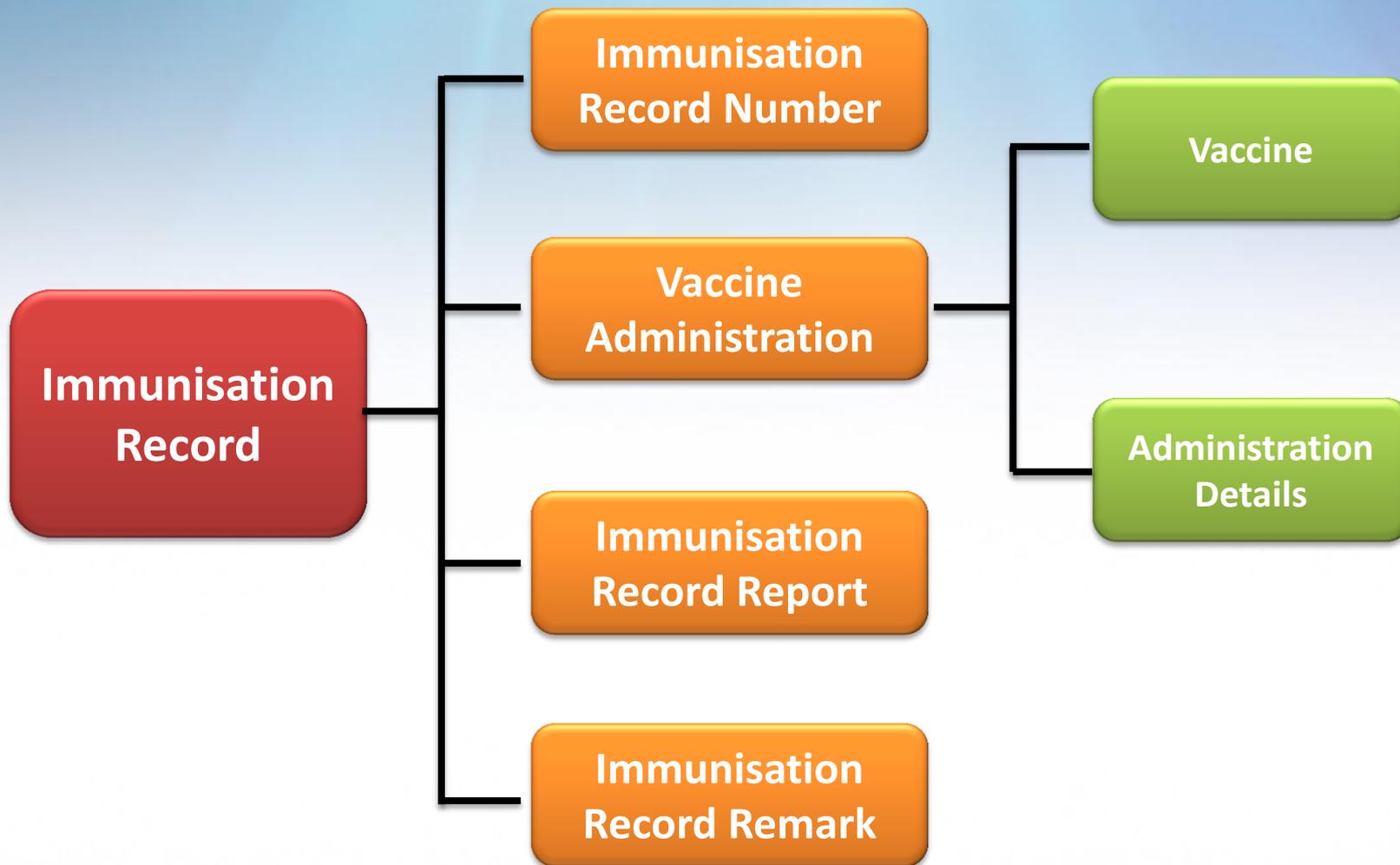
- no change in concept
- to align with other eHR content data domains

2. Codex – minor updates

- no change in concept
- to align with other eHR content data domains



Immunisation Record



Immunisation Record Number

Immunisation
Record Number

Vaccine
Administration

Immunisation
Record Remark

Immunisation
Record Report

Immunisation record number



Vaccine Administration

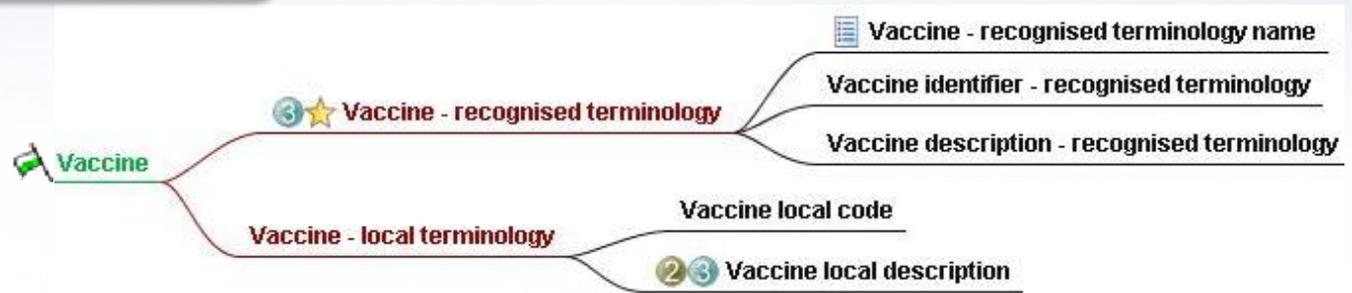
Immunisation
Record Number

Vaccine

Vaccine
Administration

Immunisation
Record Report

Immunisation
Record Remark



2 Mandatory for Level 2

Code Table

Recognised Terminology

Repeatable

3 Mandatory for Level 3



Vaccine Administration

Immunisation Record Number

Vaccine Administration

Immunisation Record Report

Immunisation Record Remark

Administration Details

Administration details

 **Historical Immunisation**

 **Vaccine administration date**

Vaccine dose sequence

Batch number

Route of administration

 **Route of administration code**

 **Route of administration description**

 **Route of administration local description**

Site of administration

 **Site of administration code**

 **Site of administration description**

 **Site of administration local description**

Vaccination provider

 **Vaccination provider identifier**

 **Vaccination provider description**

 **Vaccination provider local description**

Vaccine administration premises

Vaccine administration remark

 **Conditional mandatory**

 **Mandatory for Level 2**

 **Code Table**

 **Recognised Terminology**

 **Repeatable**

 **Mandatory for Level 3**

Immunisation Record Report

Immunisation
Record Number

Vaccine
Administration

Immunisation
Record Report

Immunisation
Record Remark

Immunisation record report

Immunisation record report title

 Immunisation record report (text)

 Immunisation record report (PDF)

 Immunisation record report date

 Conditional
mandatory

 Mandatory
for Level 1

Immunisation Record Remark

Immunisation
Record Number

Vaccine
Administration

Immunisation
Record Report

Immunisation
Record Remark

Immunisation record remark



eHR viewer – Screen layout (1/2)

醫健通 ehealth
MODEC4 DR MODEC4 DR (Logout)

Clinical Administration Information

陳小明 CHAN, SIU MING
HKIC : Q001000(2) DOB : 01-May-2012 Age : 13 months Sex : M
Close Record ×
Select Patient ▶

醫健通 ehealth
All Local Non-Local
Legend

Home Calendar Mailbox Lab Test Reports

▼ Clinical Note & Summary
Clinical Note & Summary
Birth Record
Encounter

▼ Problem & Procedure
Problem / Diagnosis
Procedure

▼ Medication
Prescribing History
Dispensing History

▼ Laboratory Record
Chemical Pathology
Microbiology & Virology
Toxicology
General & Other

▼ Radiology Record
General Radiology
Ultrasonography

Immunisation Record

Date View Vaccine View View: Active ▼

Date	Vaccine	Vaccination Provider
18-Feb-2013	Seasonal Influenza 2012/2013	VHA Hospital (On-Site)
21-Jan-2013	Seasonal Influenza 2012/2013	VHA Hospital (On-Site)

ehealth

eHR viewer – Screen layout (2/2)

醫健通 ehealth | Clinical | Administration | Information | MODEC4 DR MODEC4 DR | (Logout)

陳小明 CHAN, SIU MING | Close Record × | Select Patient ▶

HKIC : Q001000(2) | DOB : 01-May-2012 | Age : 13 months | Sex : M | Details ▶

醫健通 ehealth | All | Local | Non-Local | Legend

Home | Calendar | Folder | Stethoscope | Microscope | Document | Pencil

- ▼ Clinical Note & Summary
 - Clinical Note & Summary
 - Birth Record
 - Encounter
- ▼ Problem & Procedure
 - Problem / Diagnosis
 - Procedure
- ▼ Medication
 - Prescribing History
 - Dispensing History
- ▼ Laboratory Record
 - Chemical Pathology
 - Microbiology & Virology
 - Toxicology
 - General & Other
- ▼ Radiology Record
 - General Radiology
 - Ultrasonography
- Immunisation Record**

Immunisation Record

Date View | Vaccine View

Vaccine	Date	Vaccination Provider
▼ Seasonal Influenza 2012/2013		
Seasonal Influenza 2012/2013	21-Jan-2013	VHA Hospital (On-Site)
Seasonal Influenza 2012/2013	18-Feb-2013	VHA Hospital (On-Site)

ehealth

Immunisation : Example – Level 1

Entity Name ▼	Data requirement (Certified Level 1) ▼	Example (Certified Level 1) ▼
Immunisation record number	O	5805 0000 XXXX
Immunisation record report title	O	Immunisation record
Immunisation record report (text)	O or M if [Immunisation record report (PDF)] is blank	immunisation vaccine given on dd/mm/yyyy
Immunisation record report (PDF)	O or M if [Immunisation record report (text)] is blank	
Immunisation record report date	M	dd/mm/yyyy
Immunisation record remark	O	next injection date is dd/mm/yyyy

Immunisation : Example – Level 2 (1/2)

Entity Name	Data requirement (Certified Level 2)	Example (Certified Level 2)
Immunisation record number	O	5805 0000 XXXX
Vaccine local code	O	MMR
Vaccine local description	M	MMR
Historical immunisation	M	No
Vaccine administration date	M	1/11/2009
Vaccine dose sequence	O	1st dose
Batch number	O	09-33344-XX098
Route of administration local description	O	IM
Site of administration local description	O	L Thigh
Vaccination provider local description	M	Orange Healthcare
Vaccine administration premises	O	Nil
Vaccine administration remark	O	Nil

Immunisation : Example – Level 2 (2/2)

Entity Name	Data requirement (Certified Level 2)	Example (Certified Level 2)
Immunisation record report title	0	Immunisation record
Immunisation record report (text)	0	immunisation vaccine given on dd/mm/yyyy
Immunisation record report (PDF)	0	
Immunisation record remark	0	next injection date is dd/mm/yyyy

Immunisation : Example – Level 3 (1/2)

Entity Name	Data requirement (Certified Level 3)	Example (Certified Level 3)
Immunisation record number	O	5805 0000 XXXX
Vaccine - recognised terminology name	M	CPP
Vaccine identifier - recognised terminology	M	01891
Vaccine description - recognised terminology	M	MMR II
Vaccine local code	O	MMR II
Vaccine local description	M	MMR II
Historical immunisation	M	Unspecified
Vaccine administration date	M	1/11/2009
Vaccine dose sequence	O	2nd dose
Batch number	O	09-33355-XX099
Route of administration code	N/A or M if [Route of administration description] is given	IM
Route of administration description	N/A or M if [Route of administration code] is given	Intramuscular
Route of administration local description	O or M if [Route of administration code] is given	Intramuscular



Immunisation : Example – Level 3 (2/2)

Entity Name	Data requirement (Certified Level 3)	Example (Certified Level 3)
Site of administration code	N/A or M if [Site of administration description] is given	LT
Site of administration description	N/A or M if [Site of administration code] is given	Left Thigh
Site of administration local description	O or M if [Site of administration	Lt Thigh
Vaccination provider identifier	M	DH
Vaccination provider description	M	Department of Health
Vaccination provider local description	M	Dept of Health
Vaccine administration premises	O	Nil
Vaccine administration remark	O	Nil
Immunisation record report title	O	Immunisation record
Immunisation record report (text)	O	immunisation vaccine given on dd/mm/yyyy
Immunisation record report (PDF)	O	
Immunisation record remark	O	next injection date is dd/mm/yyyy

Related Files

- Data schema
 - [eHR immunisation](#)
- Codex
 - [Recognised terminology name – pharmaceutical product](#)
 - [Vaccine provider](#)



Immunisation – data schema (1/3)

eHR Sharable Data - Immunisation Record

Form	Entity Name	Entity ID	Definition	Data Type (code)	Data Type (description)	Validation Rule	Repeated Data	Code Table	Data requirement (Certified Level 1)	Data requirement (Certified Level 2)	Data requirement (Certified Level 3)	Example (Certified Level 1)	Example (Certified Level 2)	Example (Certified Level 3)
Immunisation	Immunisation record number	1001804	A unique Identifier for each vaccine administration record defined by individual healthcare institution	ST	String				O	O	O	5805 0000 XXXX	5805 0000 XXXX	5805 0000 XXXX
Immunisation	Vaccine - recognised terminology name	1004035	Name of the recognised terminology / classification set for pharmaceutical products (vaccine)	CE	Coded Element	If eHR value = 1)HKCTT, nature must be Pharmaceutical Products with Vaccine flag = yes; 2)RPP, values will be checked against with the HKCTT with nature must be Pharmaceutical Products with Vaccine flag = yes.	y	Recognised terminology name - pharmaceutical products (vaccine)	N/A	N/A	M	N/A	N/A	RPP
Immunisation	Vaccine identifier - recognised terminology	1001809	Unique Identifier in the recognised terminology for pharmaceutical products (vaccine)	CE	Coded Element	[Vaccine identifier - recognised terminology] should be included in the selected terminology of the 'Vaccine - recognised terminology name' code table	y		N/A	N/A	N/A	N/A	N/A	01891
Immunisation	Vaccine description - recognised terminology	1001810	Description of individual vaccine in the recognised terminology for pharmaceutical products (vaccine). It should be the corresponding description of the selected [Vaccine identifier - recognised terminology].	CE	Coded Element	It should be matched with the corresponding description of the selected [Vaccine identifier - recognised terminology]; if [Vaccine - recognised terminology name] = HKCTT, [Vaccine description - recognised terminology] should be provided	y		N/A	N/A	M	N/A	N/A	MMR II
Immunisation	Vaccine local code	1001806	Local code issued to the vaccine as defined by individual healthcare institution	ST	String				N/A	O	O	N/A	MMR	MMR II
Immunisation	Vaccine local description	1001807	Local description of vaccine as defined by individual healthcare institution	ST	String				N/A	M	M	N/A	MMR	MMR II
Immunisation	Historical Immunisation	1004028	Indicator on whether the immunisation data is a historical information. All historical immunisation data should be based on the immunisation record documented by previous healthcare providers who gave the vaccine to the patient.	CE	Coded Element		y	Yes No Unspecified	N/A	M	M	N/A	No	Unspecified
Immunisation	Vaccine administration date	1001805	The date on which the vaccine was given	TS	Time Stamp		y		N/A	M	M	N/A	11/01/09	11/01/09
Immunisation	Vaccine dose sequence	1001812	Immunisation dose in series, booster	ST	String		y		N/A	O	O	N/A	1st dose	2nd dose



Level 3 – vaccine



Level 2 - vaccine

Immunisation – data schema (2/3)

eHR Sharable Data - Immunisation Record

Form	Entity Name	Entity ID	Definition	Data Type (code)	Data Type (description)	Validation Rule	Repeated Data	Code Table	Data requirement (Certified Level 1)	Data requirement (Certified Level 2)	Data requirement (Certified Level 3)	Example (Certified Level 1)	Example (Certified Level 2)	Example (Certified Level 3)
Immunisation	Batch number	1001811	Batch number for drug product as assigned by the drug manufacturer	ST	String		y		N/A	O	O	N/A	09-33344-XX098	09-33355-XX099
Immunisation	Route of administration code	1004029	[eHR value] of the "Route of drug administration" code table which is used to identify the path by which a drug / substance was taken into the body.	CE	Coded Element		y	Route of drug administration	N/A	N/A	N/A or M if [Route of administration description] is given	N/A	N/A	IM
Immunisation	Route of administration description	1004029	[eHR description] of the "Route of drug administration" code table which is used to identify the path by which a drug / substance was taken into the body. [Route of administration description] should be the corresponding description of the selected [Route of administration code].	ST	String		y		N/A	N/A	N/A or M if [Route of administration code] is given	N/A	N/A	Intramuscular
Immunisation	Route of administration local description	1003423	Local description of the path by which a drug / substance was taken into the body as provided by individual healthcare institution.	ST	String		y		N/A	O	O or M if [Route of administration code] is given	N/A	IM	Intramuscular
Immunisation	Site of administration code	1004030	[eHR value] of "Site of Drug Administration" code table which is used to identify the body site where the drug / substance was given.	CE	Coded Element		y	Site of drug administration	N/A	N/A	N/A or M if [Site of administration description] is given	N/A	N/A	LT
Immunisation	Site of administration description	1003424	[eHR description] of "Site of Drug Administration" code table which is used to identify the body site where the drug / substance was given. The [site of administration description] should be corresponding description of the selected [Site of administration code].	ST	String		y		N/A	N/A	N/A or M if [Site of administration code] is given	N/A	N/A	Left Thigh
Immunisation	Site of administration local description	1003425	Local description of the body site where the drug / substance was given as provided by individual healthcare institution.	ST	String		y		N/A	O	O or M if [Site of administration code] is given	N/A	L Thigh	Lt Thigh
Immunisation	Vaccination provider code	1003875	[eHR value] of the "Vaccine Provider" code table which is used to identify the healthcare provider who administered the vaccine.	CE	Coded Element		y	Vaccine provider	N/A	N/A	M	N/A	N/A	DH
Immunisation	Vaccination provider description	1003426	[eHR description] of the "Vaccine Provider" code table which is used to identify the healthcare provider who administered the vaccine. The [Vaccination provider description] should be the corresponding description of the selected [Vaccination provider code].	ST	String		y		N/A	N/A	M	N/A	N/A	Department of Health

Level 3 – route of administration

Level 2 – route of administration

Level 3 – site of administration

Level 2 – site of administration

Level 3 – vaccine provider

Immunisation – data schema (3/3)

eHR Sharable Data - Immunisation Record

Form	Entity Name	Entity ID	Definition	Data Type (code)	Data Type (description)	Validation Rule	Repeated Data	Code Table	Data requirement (Certified Level 1)	Data requirement (Certified Level 2)	Data requirement (Certified Level 3)	Example (Certified Level 1)	Example (Certified Level 2)	Example (Certified Level 3)
Immunisation	Vaccination provider local description 2	1003427	Local description of the healthcare provider who administered the vaccine. The description is a health care profession.	ST	String		y		N/A	M	M	N/A	Orange Healthcare	Dept of Health
Level 2 – vaccine provider														
Immunisation	Vaccine administration premises	1001815	Name of the premises where the vaccine was administered	ST	String		y		N/A	O	O	N/A	Nil	Nil
Immunisation	Vaccine administration remark	1003428	The additional information about the vaccine administration	TX	Text		y		N/A	O	O	N/A	Nil	Nil
Immunisation	Immunisation record report title	1003429	The title of Immunisation report	ST	String				O	O	O	Immunisation record	Immunisation record	Immunisation record
Immunisation	Immunisation record report (text)	1003430	Report of the Immunisation record in text format	TX	Text				O or M if [Immunisation record report (PDF)] is blank	O	O	Immunisation vaccine given on dd/mm/yyyy	Immunisation vaccine given on dd/mm/yyyy	Immunisation vaccine given on dd/mm/yyyy
Immunisation	Immunisation record report (PDF)	1001818	Report of the Immunisation record in Portable Document Format (PDF)	ED	Encapsulated data				O or M if [Immunisation record report (text)] is blank	O	O			
Immunisation	Immunisation record report date 1	1003431	The date when the immunisation record is documented, also considered as the date vaccine was given	TS	Time Stamp				M	N/A	N/A	dd/mm/yyyy	dd/mm/yyyy	dd/mm/yyyy
Level 1 data														
Immunisation	Immunisation record remark	1003432	The additional information about the Immunisation record	TX	Text				O	O	O	next injection date is dd/mm/yyyy	next injection date is dd/mm/yyyy	next injection date is dd/mm/yyyy

Immunisation codex – recognised terminology name – pharmaceutical product

eHR Sharable Data - Codex : Recognised Terminology Name - Pharmaceutical Product (Vaccine)

Recognised Terminology Name - Pharmaceutical Product (Vaccine)

Purpose: to define the names of the recognised terminology for pharmaceutical product (vaccine)

Term ID	eHR Value	eHR Description	Allowable Values
	HKCTT	Hong Kong Clinical Terminology Table	Nature = Pharmaceutical Products with Vaccine flag = yes
	RPP	Registered Pharmaceutical Products	Values will be checked against with the HKCTT with Nature = Pharmaceutical Products and Vaccine flag = yes
	CPP	Compendium of Pharmaceutical Products	All values
	SNOMED-CT	Systematized Nomenclature of Medicine – Clinical Terms	Hierarchy – Pharmaceutical / biologic-product

Immunisation codex – Vaccine provider

eHR Sharable Data - Codex : Vaccine provider

Vaccine provider

Purpose : To identify the healthcare provider who administers the vaccine

Reference: HA

Term ID	eHR Value	eHR Description
	HA	HA hospital / clinic
	DH	DH clinic
	Private	Private hospital /clinic
	Other	Other vaccine provider

For your comment pls

THANK YOU

