

Preparation for eHR – Briefing on eHR content

PMI

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Domains

- PMI
- Encounter
- Immunisation

PMI

Healthcare Recipient

- **Healthcare Recipient**
 - An individual who joins the eHR programme in order to share his / her health record to other parties via the eHR sharing system

Healthcare Recipient – Index

- **Index**
 - Contains a list of personal identity and demographic data of Healthcare Recipients for
 - Accurate and unique identification of each Healthcare Recipient
 - Linkage of eHR record

Healthcare Recipient – Data Quality

- **Data Quality**

- Enrolment of a Healthcare Recipient, or change of a Healthcare Recipient's identity data must be supported by identity document
- Clinical data sent to the eHR would be rejected if the identity data of Healthcare Recipient do not match with those in the eHR Healthcare Recipient Index

Healthcare Recipient Data

- **eHR Healthcare Recipient data** includes:
 - A system generated eHR Healthcare Recipient identifier – ‘eHR Number’
 - Identity data: HKIC number, name, sex, date of birth, identity document number (according to one’s identity document)
 - Demographic data: e.g. address, phone number
 - Substitute Decision Maker (SDM) and contact person information
 - Birth data: e.g. birth hospital and birth identifier

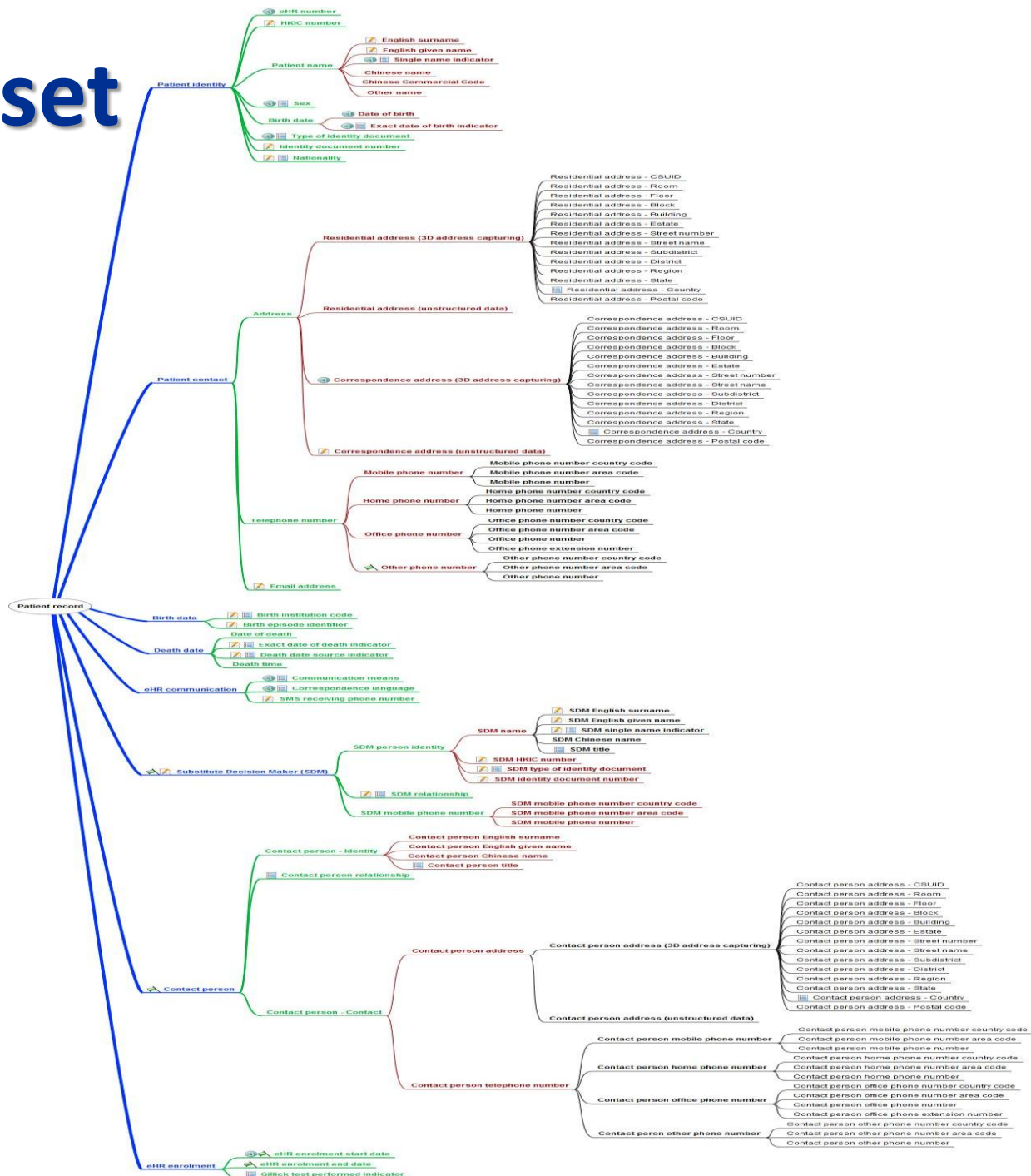


Changes in PMI Dataset

(since 1st eHR Content Briefing in Jul 2012)

- **Focus on eHR ‘Sharable data’**
 - A pre-defined set of PMI data that will be subject to sharing in the eHR system
 - Patient Identity
 - Patient Contact
 - eHR Enrolment
 - Allow Healthcare Provider to download

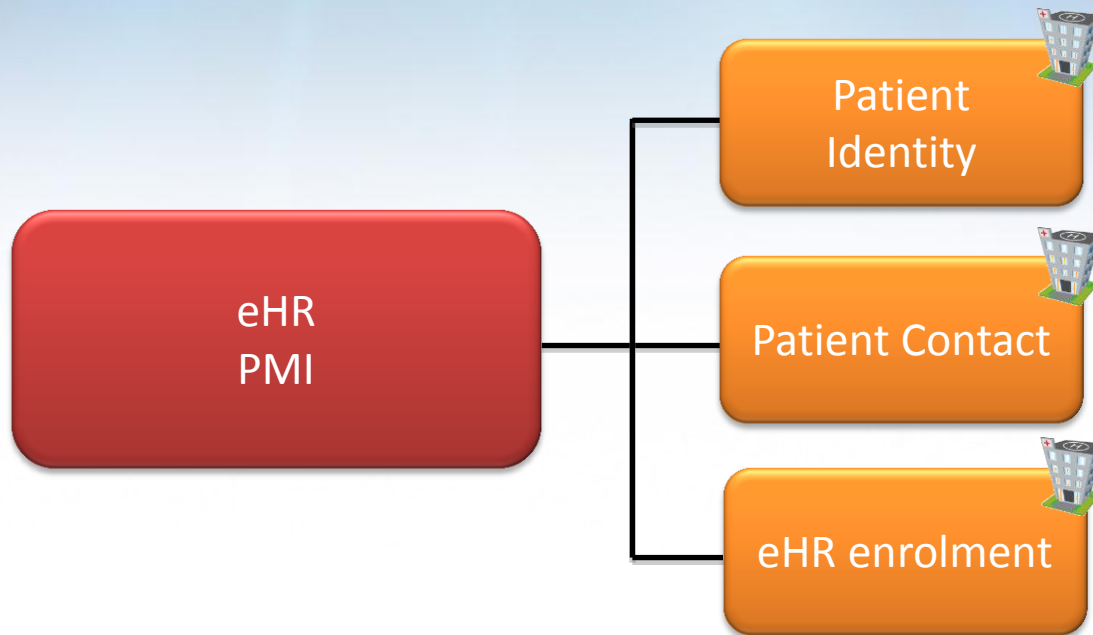
PMI dataset



Legend

- Mandatory for all Levels
- Mandatory for Level 1
- Mandatory for Level 2
- Mandatory for Level 3
- Conditional mandatory
- Repeated data
- Encrypted eHR storage
- Code table
- Recognised terminology

eHR PMI Sharable Data

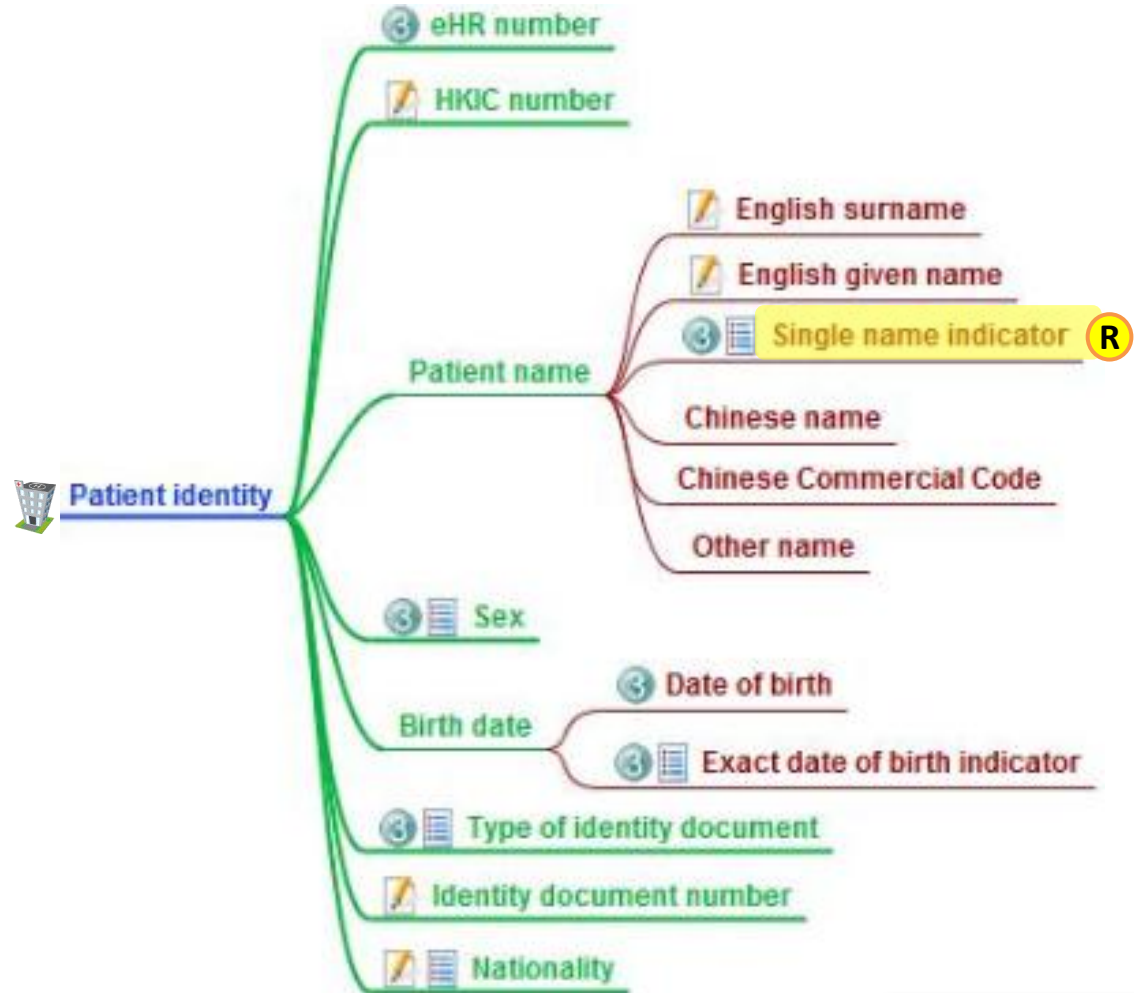


Patient Identity

Patient Identity

Patient Contact

eHR enrolment



Remarks:

Either [HKIC number] or [Identity document number] is mandatory



Sharable PMI
data



Conditional
mandatory



Mandatory
for Level 3



Code Table

Legend

(changes on PMI dataset since
1st eHR Content Briefing, Jul 2012)



Added



Revised



Deleted

Contact – Address

Patient Identity

Patient Contact

eHR enrolment



A

A

Legend

(changes on PMI dataset since 1st eHR Content Briefing, Jul 2012)

A

Added

R

Revised

D

Deleted



Code Table



Sharable PMI data



Conditional mandatory



Mandatory for Level 3

Remarks:



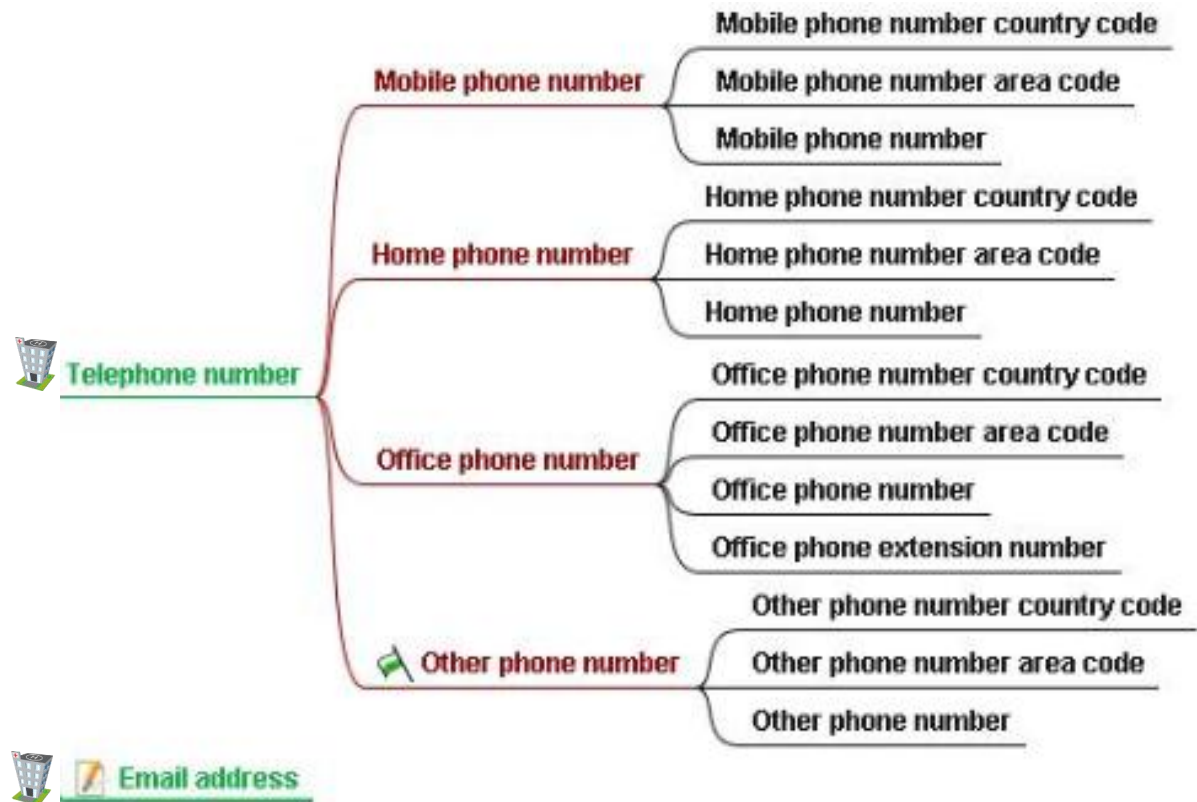
Address is sharable except [CSUID]

Contact – Telephone number & Email

Patient Identity

Patient Contact

eHR enrolment



Sharable PMI
data



Repeatable



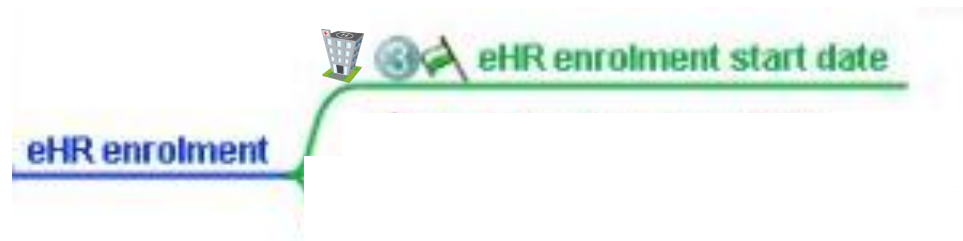
Conditional
mandatory

eHR Enrolment

Patient Identity

Patient Contact

eHR enrolment



eHR Enrolment Service – Screen layout

New Participant

Start Enrolment

Fill in the Form

Confirm Details

Sign Consent Form

Completed

Method 1: SMART ID Enrolment

Please ask participant to insert SMART ID to the card reader and click < Next > button

Next



Method 2: Non-SMART ID Enrolment

Please fill in the information and click < Next > button

*HKIC

 ()

*ID Doc Type

 ▼

*ID Doc No

Surname

Given Name

☐ Single Name

*English Name

*Date of Birth

*Sex

 ▼

Next

eHR Enrolment Service – Screen layout

Start Enrolment

Fill in the Form

Confirm Details

Sign Consent Form

Completed

| | | | | | |
|---------------------|---|-----------|---|---------------|----------|
| HKIC | TM000531(5) | | English Name | CHAN, TAI MAN | |
| ID Doc Type | HKID Card | | ID Doc No | | |
| Issuing Country | Hong Kong | | Other Name | | |
| Sex | Female | | Chinese Name | | |
| Date of Birth | 02-Feb-1945 | Exact DOB | EDMY | Age | 68 years |
| Enrolment Form Type | <input checked="" type="radio"/> In person <input type="radio"/> Not in person | | <input checked="" type="checkbox"/> Consent to Provider: Hong Kong Sanatorium & Hospital <input type="checkbox"/> PPI Enrolment <input checked="" type="radio"/> Open-Ended Consent <input type="radio"/> One Year Consent <input type="checkbox"/> SCHSA | | |

Healthcare Recipient's identity data

Contact Info.

Contact Person

| | | | | | | | | | |
|--------------|-----|---|--|---|--|--|-----|---|---|
| Home Phone | 852 | - | | - | | | | * Communication Means | SMS |
| Office Phone | 852 | - | | - | | | Ext | Please input either mobile phone or other phone for SMS | |
| Mobile Phone | 852 | - | | - | | | | Email Address | |
| Other Phone | | | | | | | | * Communication Language | <input type="radio"/> Chinese <input type="radio"/> English |

Correspondence Address

☐ Chinese Address

| | | | | | |
|----------------|--|----------------|--|-------------|--|
| Room/Flat | | Floor | | Block | |
| Building | | | | | |
| Estate/Village | | | | | |
| Street No. | | Street/Road | | | |
| Region | | District | | Subdistrict | |
| Country | | State/Province | | Postal Code | |

☒ Residential Address

Back

Next

eHR viewer – Screen layout

Clinical

Administration

Information

MODEC4 DR MODEC4 DR

(Logout)

陳小明 CHAN, SIU MING

HKIC : Q001000(2)

DOB : 01-May-2012

Age : 13 months

Sex : M

Details

Close Record

Select Patient

醫健通 ehealth

All Local Non-Local

Legend

Clinical Note & Summary

Problem & Procedure

Medication

Laboratory Record

Radiology Record

Immunisation Record

Encounter Record

View: Active

| Start Date | End Date | Specialty | Institution | Type | Status |
|-------------|-------------|---|-------------|------------------------------------|-----------|
| 17-Jul-2013 | | Paediatrics and Adolescent Medicine | UCH | Specialist outpatient consultation | |
| 25-Jun-2013 | | MRI / Plain MRI Brain, IV contrast enhanced MRI Brain | UCH | Specialist outpatient consultation | |
| 24-Jun-2013 | | Other / Unclassified | UCH | Specialist outpatient consultation | |
| 27-Mar-2013 | | Paediatrics and Adolescent Medicine | UCH | Specialist outpatient consultation | Attended |
| 02-Jan-2013 | | Paediatrics and Adolescent Medicine | UCH | Specialist outpatient consultation | Attended |
| 03-Oct-2012 | | Paediatrics and Adolescent Medicine | UCH | Specialist outpatient consultation | Attended |
| 08-Aug-2012 | | Paediatrics and Adolescent Medicine | UCH | Specialist outpatient consultation | Attended |
| 13-Jun-2012 | | Paediatrics and Adolescent Medicine | UCH | Specialist outpatient consultation | ended |
| 05-Jun-2012 | | US / Infant Brain | UCH | Specialist outpatient consultation | ended |
| 05-Jun-2012 | | Other / Unclassified | UCH | Specialist outpatient consultation | Cancelled |
| 16-May-2012 | | Paediatrics and Adolescent Medicine | UCH | Specialist outpatient consultation | Attended |
| 02-Apr-2012 | 09-May-2012 | Neonatology / Special Care Baby Unit | UCH | Inpatient | Attended |

Healthcare Recipient data
(from Healthcare Recipient Index)

No level 1 & 2 data



eHR PMI : Example – Level 3 (1/4)

| Entity Name | Data Requirement (Certified Level 3) | Example (Adult) |
|-------------------------------|--|-----------------|
| eHR number | M | 1234 4567 XXXX |
| HKIC number | M if [Type of identity document] = ID / BC | A1234XXX |
| English surname | M if [Single name indicator] = N or if [Single name indicator] = Y when [English given name] is blank, | Chan |
| English given name | M if [Single name indicator] = N or if [Single name indicator] = Y when [English surname] is blank | Tai Man Peter |
| Single name indicator | M | N |
| Chinese name | O | |
| Chinese Commercial Code | O | 1234 1234 1234 |
| Other name | O | |
| Sex | M | M |
| Date of birth | M | 02/03/91 |
| Exact date of birth indicator | M | EDMY |
| Type of identity document | M | ID |
| Identity document number | M if [HKIC number] is blank | |
| Nationality | M if [Type of identity document] is not issued by HKSAR | HK |

eHR PMI : Example – Level 3 (2/4)

| Entity Name | Data Requirement (Certified Level 3) | Example (Adult) |
|---|---|-----------------|
| Residential address - Room | O | A |
| Residential address - Floor | O | 1/F |
| Residential address - Block | O | |
| Residential address - Building | O | Kowloon Court |
| Residential address - Estate | O | |
| Residential address - Street number | O | 3 |
| Residential address - Street name | O | Peak Road |
| Residential address - Subdistrict | O | |
| Residential address - District | O | Sydney |
| Residential address - Region | O | |
| Residential address - State | O | New South Wales |
| Residential address - Country | O | Australia |
| Residential address - Postal code | O | NSW 2000 |
| Residential address (unstructured data) | O | |

eHR PMI : Example – Level 3 (3/4)

| Entity Name | Data Requirement (Certified Level 3) | Example (Adult) |
|--|---|---------------------------------|
| Correspondence address - Room | M | |
| Correspondence address - Floor | | |
| Correspondence address - Block | | |
| Correspondence address - Building | | Kowloon Post Office Box 1234 |
| Correspondence address - Estate | | |
| Correspondence address - Street number | | |
| Correspondence address - Street name | | |
| Correspondence address - Subdistrict | M if [Correspondence address - Country] = Hong Kong; when [Correspondence address - District] is blank | |
| Correspondence address - District | M if [Correspondence address - Country] = Hong Kong; when [Correspondence address - Subdistrict] is blank | Kowloon |
| Correspondence address - Region | O | |
| Correspondence address - State | | |
| Correspondence address - Country | M | Hong Kong |
| Correspondence address - Postal code | O | |
| Correspondence address (unstructured data) | M if [Correspondence address] is blank | |

eHR PMI : Example – Level 3 (4/4)

| Entity Name | Data Requirement (Certified Level 3) | Example (Adult) |
|-------------------------------------|---|-----------------------------|
| Mobile phone number country code | O | 852 |
| Mobile phone number area code | O | |
| Mobile phone number | O | 9000 0000 |
| Home phone number country code | O | 61 |
| Home phone number area code | O | 2 |
| Home phone number | O | 2000 0000 |
| Office phone number country code | O | 852 |
| Office phone number area code | O | |
| Office phone number | O | 2123 0000 |
| Office phone extension number | O | |
| Other phone number country code | O | |
| Other phone number area code | O | |
| Other phone number | O | |
| Email address | M if [Communication means] = EM | <u>peter.chan@12345.com</u> |
| eHR enrolment start date | M | 07/01/13 |

Related Files

- Data schema
 - [PMI](#)
- Codex
 - [Sex](#)
 - [Type of identity document](#)

PMI – data schema (1/3)

eHR Sharable Data - PMI

| Form | Entity Name | Entity ID | Definition | Data Type (code) | Data Type (description) | Validation Rule | Repeated Data | Code Table | Data Requirement (Certified Level 3) | Example (Adult) |
|------|-------------------------------|-------------------------------|--|------------------|-------------------------|---|---------------|---------------------------|---|-----------------|
| PMI | eHR number | 1001948 | A unique eHR healthcare recipient identifier assigned to each patient for each participation in the Hong Kong eHR | ST | String | | | | M | 1234 4567 XXXX |
| PMI | HKIC number | 1001949 | The Hong Kong Identity Card number or the Registration Number printed on Hong Kong Birth Certificate (post-1981) issued by HKSAR Immigration Department, include the check digit | ST | String | | | | M if [Type of identity document] = ID / BC | A1234XXX |
| PMI | English surname | 1001950 | Patient's surname in English | ST | String | | | | M if [Single name indicator] = N or if [Single name indicator] = Y when [English given name] is blank | Chan |
| PMI | English given name | 1001951 | Patient's given name in English | ST | String | | | | M if [Single name indicator] = N or if [Single name indicator] = Y when [English surname] is blank | Tai Man Peter |
| PMI | Single name indicator | 1001952 | [eHR value] of the "Yes/No" code table. It is used to indicate if the patient has either English surname or English given name only | CE | Coded Element | If both [English surname] and [English given name] are filled, the [Single name indicator] must be "No" | | Yes No | M | N |
| PMI | Chinese name | 1001953 | Patient's full Chinese name. | ST | String | | | | O | |
| PMI | Chinese Commercial Code | 1001954 | Chinese Commercial Code for the patient's Chinese name | NM | Numeric | | | | O | 1234 1234 1234 |
| PMI | Other name | 1001955 | Any name by which the patient has been known other than the [English given name - patient] or [Chinese | ST | String | | | | O | |
| PMI | Sex | 1001956 | [eHR value] of the "Sex" code table. It is used to identify the sex of the patient. | CE | Coded Element | | | Sex | M | M |
| PMI | Date of birth | 102678 | The patient's date of birth | TS | Time Stamp | | | | M | 02/03/91 |
| PMI | Exact date of birth indicator | 1001958 | [eHR value] of the "Exact date" code table. It is used to indicate whether the displayed date of patient's birth is the exact birth date as indicated on the patient's identity / travel document. | CE | Coded Element | | | Exact date | M | EDMY |
| PMI | Type of identity document | 1001959 | [eHR value] of the "Type of identity document" code table. It is the type of patient's identity / travel document presented during registration / enrolment / update of the patient's identity / demographic data. | CE | Coded Element | | | Type of identity document | M | ID |
| PMI | Identity document number | 1001960 | The document number of the [Type of identity document - patient]. | ST | String data | | | | M if [HKIC number] is blank | |
| PMI | Nationality | 1001961 1004032 | [eHR value] of the "Nationality" code table. It is the issuing country of the [Type of identity document - patient]. | CE | Coded Element | | | Nationality | M if [Type of identity document] is not issued by HKSAR | HK |
| PMI | Residential address - Room | 1003731 | Room number of the patient's residential address | ST | String | | | | O | A |
| PMI | Residential address - Floor | 1003732 | Floor number of the patient's residential address | ST | String | | | | O | 1/F |

PMI – data schema (2/3)

eHR Sharable Data - PMI

| Form | Entity Name | Entity ID | Definition | Data Type (code) | Data Type (description) | Validation Rule | Repeated Data | Code Table | Data Requirement (Certified Level 3) | Example (Adult) |
|------|---|-----------|--|------------------|-------------------------|-----------------|---------------|-------------|--|------------------------------|
| PMI | Residential address - Block | 1003733 | Block name of the patient's residential address | ST | String | | | | O | |
| PMI | Residential address - Building | 1003734 | Building name of the patient's residential address | ST | String | | | | O | Kowloon Court |
| PMI | Residential address - Estate | 1003735 | Estate, village or lot information of the patient's residential address | ST | String | | | | O | |
| PMI | Residential address - Street number | 1003736 | Street number of the patient's residential address | ST | String | | | | O | 3 |
| PMI | Residential address - Street name | 1003737 | Street name of the patient's residential address | ST | String | | | | O | Peak Road |
| PMI | Residential address - Subdistrict | 1003738 | Subdistrict of the patient's residential address in the Address Data Infrastructure (ADI) | ST | String | | | | O | |
| PMI | Residential address - District | 1003739 | District of the patient's residential address in the Address Data Infrastructure (ADI) | ST | String | | | | O | Sydney |
| PMI | Residential address - Region | 1003740 | Region code of the patient's residential address in the Address Data Infrastructure (ADI) | ST | String | | | | O | |
| PMI | Residential address - State | 1003741 | State of the patient's residential address | ST | String | | | | O | New South Wales |
| PMI | Residential address - Country | 1003742 | Country code of the patient's residential address | CE | Coded Element | | | Nationality | O | Australia |
| PMI | Residential address - Postal code | 1003743 | Postal code of the patient's residential address | ST | String | | | | O | NSW 2000 |
| PMI | Residential address (unstructured data) | 1001967 | Patient's residential address (unstructured data) | ST | String | | | | O | |
| PMI | Correspondence address - Room | 1003744 | Room number of the patient's correspondence address | ST | String | | | | M | |
| PMI | Correspondence address - Floor | 1003745 | Floor number of the patient's correspondence address | ST | String | | | | | |
| PMI | Correspondence address - Block | 1003746 | Block name of the patient's correspondence address | ST | String | | | | | |
| PMI | Correspondence address - Building | 1003747 | Building name or post office box details of the patient's correspondence address | ST | String | | | | | Kowloon Post Office Box 1234 |
| PMI | Correspondence address - Estate | 1003748 | Estate, village or lot information of the patient's correspondence address | ST | String | | | | | |
| PMI | Correspondence address - Street number | 1003749 | Street number of the patient's correspondence address | ST | String | | | | | |
| PMI | Correspondence address - Street name | 1003750 | Street name of the patient's correspondence address | ST | String | | | | | |
| PMI | Correspondence address - Subdistrict | 1003751 | Subdistrict of the patient's correspondence address in the Address Data Infrastructure (ADI) | ST | String | | | | M if [Correspondence address - Country] = Hong Kong; when [Correspondence address - District] is blank | |

PMI – data schema (3/3)

eHR Sharable Data - PMI

| Form | Entity Name | Entity ID | Definition | Data Type (code) | Data Type (description) | Validation Rule | Repeated Data | Code Table | Data Requirement (Certified Level 3) | Example (Adult) |
|------|--|-----------|---|------------------|-------------------------|-----------------|---------------|-------------|---|--|
| PMI | Correspondence address - District | 1003752 | District of the patient's correspondence address in the Address Data Infrastructure (ADI) | ST | String | | | | M if [Correspondence address - Country] = Hong Kong; when [Correspondence address - Subdistrict] is blank | Kowloon |
| PMI | Correspondence address - Region | 1003753 | Region code of the patient's correspondence address in the Address Data Infrastructure (ADI) | ST | String | | | | O | |
| PMI | Correspondence address - State | 1003754 | State of the patient's correspondence address | ST | String | | | | | |
| PMI | Correspondence address - Country | 1003755 | Country code of the patient's correspondence address | CE | Coded Element | | | Nationality | | Hong Kong |
| PMI | Correspondence address - Postal code | 1003756 | Postal code of the patient's correspondence address | ST | String | | | | O | |
| PMI | Correspondence address (unstructured data) | 1001969 | Patient's correspondence address (unstructured data) | ST | String | | | | M if [Correspondence address] is blank | |
| PMI | Mobile phone number country code | 1003757 | Country code of the [Mobile phone number - patient] | NM | Numeric | | | | O | 852 |
| PMI | Mobile phone number area code | 1003758 | Area code of the [Mobile phone number - patient] | NM | Numeric | | | | O | |
| PMI | Mobile phone number | 1001971 | The patient's mobile phone number | NM | Numeric | | | | O | 9000 0000 |
| PMI | Home phone number country code | 1003759 | Country code of the [Home phone number - patient] | NM | Numeric | | | | O | 81 |
| PMI | Home phone number area code | 1003760 | Area code of the [Home phone number - patient] | NM | Numeric | | | | O | 2 |
| PMI | Home phone number | 1001972 | The patient's home phone number | NM | Numeric | | | | O | 2000 0000 |
| PMI | Office phone number country code | 1003761 | Country code of the [Office phone number - patient] | NM | Numeric | | | | O | 852 |
| PMI | Office phone number area code | 1003762 | Area code of the [Office phone number - patient] | NM | Numeric | | | | O | |
| PMI | Office phone number | 1001973 | The patient's office phone number | NM | Numeric | | | | O | 2123 0000 |
| PMI | Office phone extension number | 1001974 | Extension number of the [Office phone number - patient] | NM | Numeric | | | | O | |
| PMI | Other phone number country code | 1003763 | Country code of the [Other phone number - patient] | NM | Numeric | | Y | | O | |
| PMI | Other phone number area code | 1003764 | Area code of the [Other phone number - patient] | NM | Numeric | | Y | | O | |
| PMI | Other phone number | 1001975 | Patient's other phone number | NM | Numeric | | Y | | O | |
| PMI | Email address | 1001976 | Patient's email address | ST | String | | | | M if [Communication means] = EM | peter.chan@12345.com |
| PMI | eHR enrolment start date | 1003800 | The date the patient enrolled to eHR | TS | Time Stamp | | Y | | M | 07/01/13 |

PMI codex – Sex

eHR Sharable Data - Codex: Sex

Sex

Purpose : to indicate the sex of a person

Reference : OGCI0 (HL7)

| Term ID | eHR Value | eHR Description |
|---------|-----------|-----------------|
| | F | Female |
| | M | Male |
| | U | Unknown sex |

PMI codex – Type of Identity Document

eHR Sharable Data - Codex: Type of Identity Document

Type of identity document

Purpose : to identify the type of identity document the **patient** presented during eHR enrolment

Reference : HA

| Term ID | eHR Value | eHR Simple description | eHR Chinese description | eHR Full Description |
|---------|-----------|--|--------------------------|---|
| | AR | Adoption Certificate | 領養證明書 | Adopted Children Register (include those issued by HKSAR and non-HKSAR government authorities) |
| | BC | Birth Certificate - HK | 香港出生證明書 | Hong Kong Birth Certificate |
| | DI | Document of Identity for Visa Purposes | 香港特別行政區簽證身份書 | HKSAR Document of Identity for Visa Purposes |
| | EC | Exemption Certificate | 豁免登記領取身份證明書豁免身份證 | Exemption Certificate |
| | ID | HKID Card | 香港身份證 | Hong Kong Identity Card |
| | ID235B | Permit to Remain in HKSAR (ID 235B) | 香港居留期許可證 (ID 235B) | Permit to Remain in HKSAR (ID 235B) |
| | ND | Newborn document | 新生嬰兒文件 | Newborn document issued by birth institution |
| | OC | Identity/travel documents - PRC | 中華人民共和國發之其他身份證明文件 / 旅遊證件 | Other identity / travel documents issued by the People Republic of China government / authorising agent |
| | OP | Identity/travel document - overseas | 其他國家發之其他身份證明文件 / 旅遊證件 | Other identity / travel documents issued by non-PRC government / authorising agent |
| | OW | One-way Permit | 單程証 | One-way Permit |
| | PS | HKSAR Passport | 香港特別行政區護照 | HKSAR Passport |
| | RP | Re-entry Permit | 回港証 | Re-entry Permit |
| | TW | Two-way Permit | 雙程証 | Two-way Permit |

For your comment pls

THANK YOU