

Introduction of eHR Application

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Hospital Authority of Hong Kong

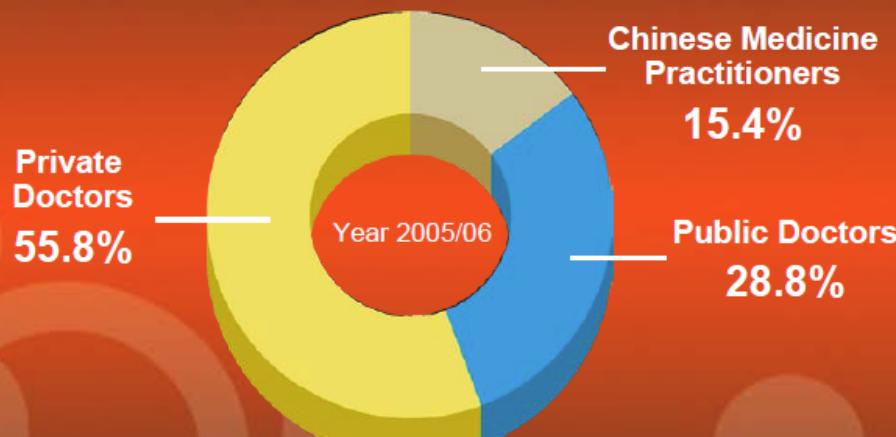


Background

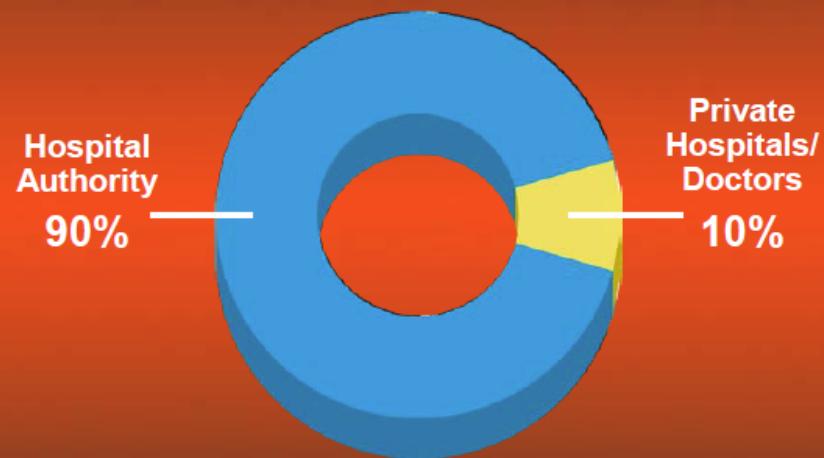
- Public consultation done on health-care system reform in 2008 & proposed to develop eHR sharing system (eHRSS)
- Finance Committee (FC) approved funding for HK\$\$702M to the Food and Health Bureau (FHB) in Jul 2009 for the development of the first stage of eHR program
- eHR Office setup under FHB to steer the development and oversee policy matters and legal issues related to eHR
- Hospital Authority (HA) as a technical agent to develop eHR standard and build the eHR infrastructure and other related applications
- Three major components:
 - Core Infrastructure for eHR Sharing
 - Standardization and Interfacing
 - CMS Extension

Healthcare Structure in Hong Kong

Primary Care (distribution of consultations)



Secondary and Tertiary Care



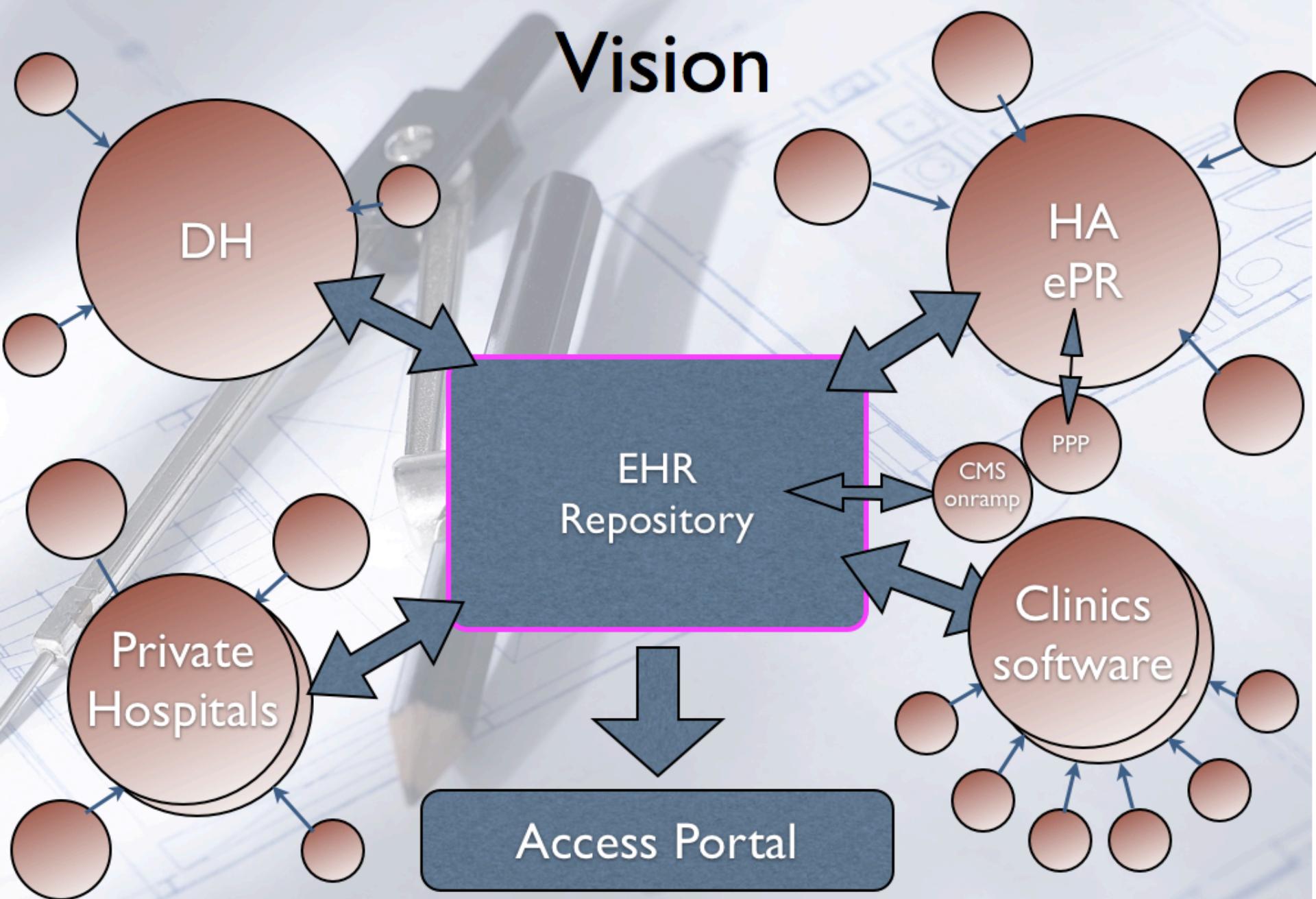
Source:

- (1) "Thematic Household Survey Report No.30", Census and Statistics Dept, July 2007
- (2) Public/private share by in-patient bed day, updated in Sept 2008 (HA & Dept of Health)

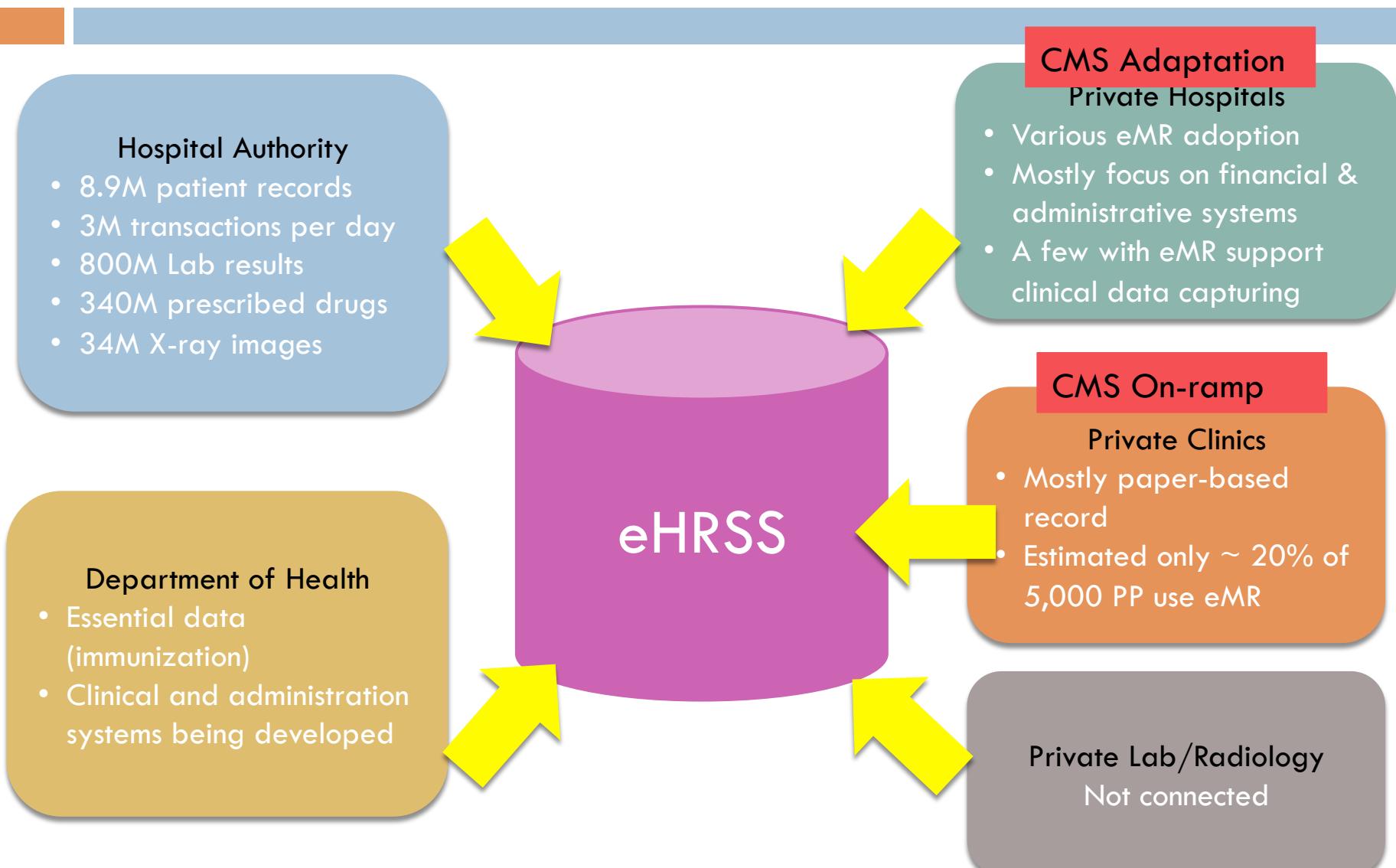
醫院管理局

HOSPITAL AUTHORITY

Vision



Challenge of eMR adoption



Initiative of CMS Extension

- Aim at facilitating private hospitals & clinics to adopt electronic clinical documentation (mainly for those data within eHR sharable scope)
- CMS Extension as one of the eHR components in Phase I
 - CMS Adaptation (Hospital version)
 - CMS On-ramp (Clinic version)

Development approach

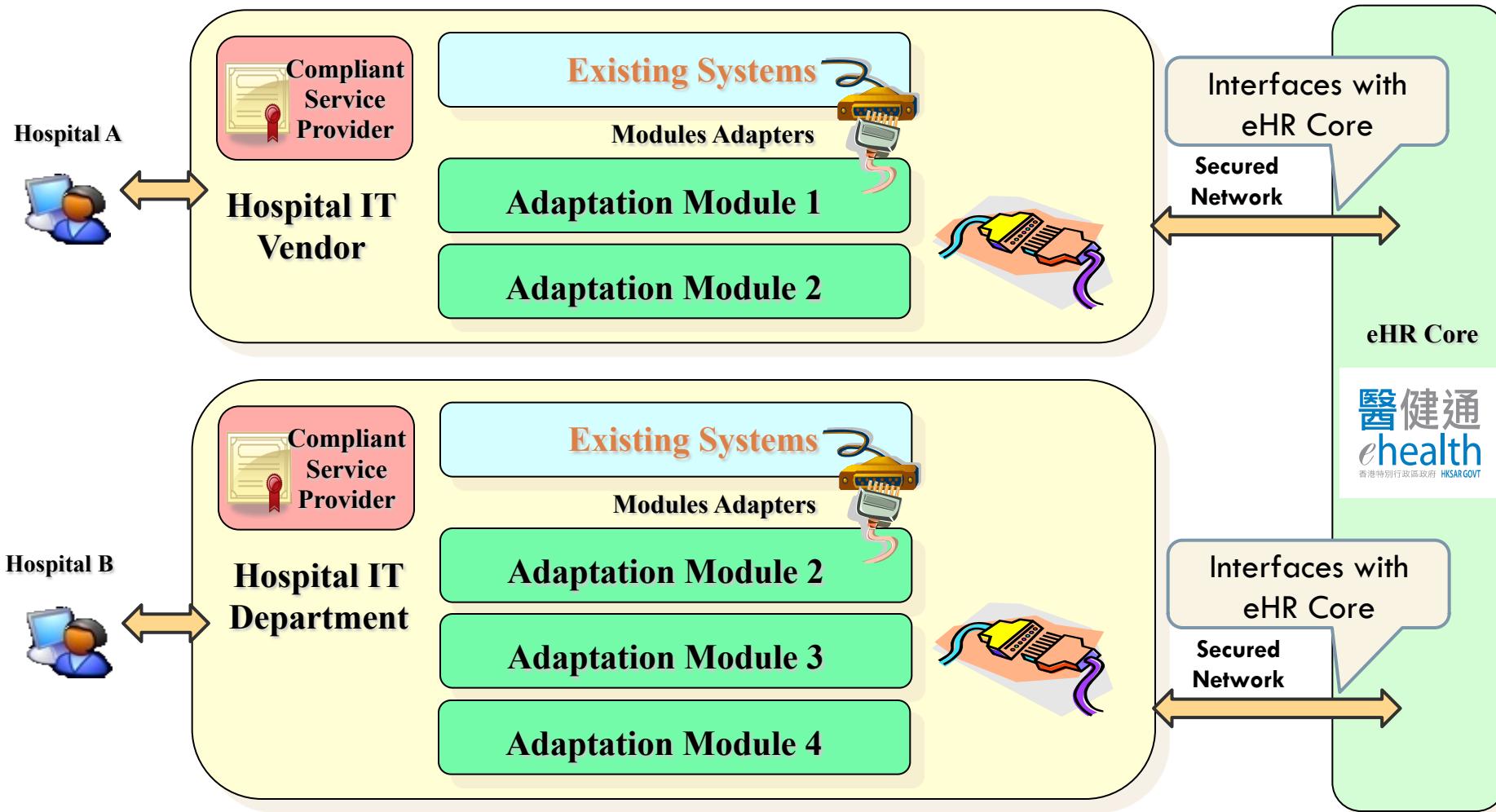
- Building blocks approach
- Leverage HA experiences on building CMS
- Engage clinician to cater private needs
- Align with eHR sharable scope & standard

Design Principles

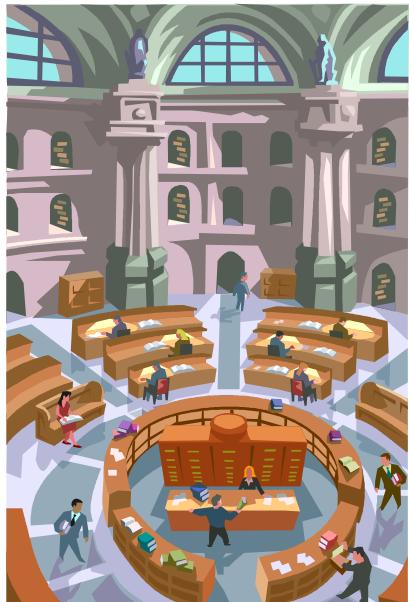
- Simple user interface to facilitate efficient and standardized documentation
- Cater clinical workflow & operational need
- Support local customization
- Enable quality data capturing & safe patient care delivery

CMS Adaptation (Private Hospital)

Enhance Functionalities and Facilitate Data Sharing



Communication with Private Sectors during Entire Development



- **CMS Adaptation Task Force**
- **Focus Group on eHealth App**
 - Medication Order Entry & Drug Allergy Checking System FG
 - Hospital ePR FG
- **eHR Technical Task Force**

CMS Adaptation Modules (Hospital)

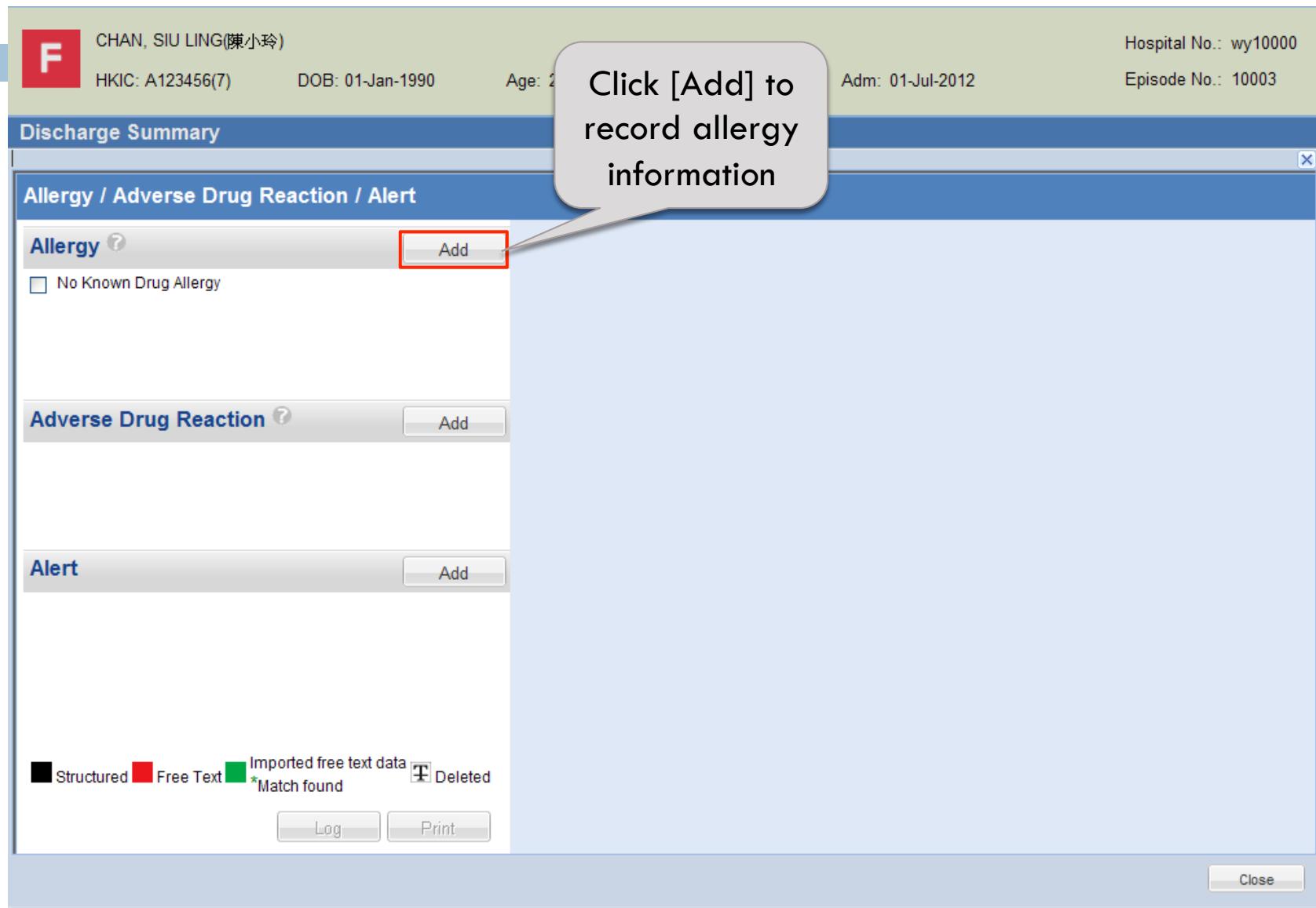
Adaptation Modules	Development status
1. Structured Alert	
2. Discharge Summary	
3. Diagnosis & Procedure Reporting	
4. Outpatient Consultation Summary	Ready for deployment
5. Medication Order Entry (MOE)	
6. Letter Engine	
7. Drug Allergy Checking System	
8. Hospital electronic Patient Record (ePR)	In progress (target in 1Q2013)
9. Person Master Index Service	

Adaptation modules walkthrough

Discharge Summary Module

F CHAN, SIU LING(陳小玲)		Hospital No.: wy10000																												
HKIC: A123456(7) DOB: 01-Jan-1990		Age: 23 years Ward: 5A-X12 Adm: 01-Jul-2012 Episode No.: 10003																												
Discharge Summary Adm Date: 01-Jul-2012																														
<table border="1"><tr><td>Allergy</td><td>Adverse Drug Reaction</td><td>Alert</td></tr><tr><td>No record</td><td>No record</td><td>No record</td></tr></table>			Allergy	Adverse Drug Reaction	Alert	No record	No record	No record	<table border="1"><tr><td colspan="2">Discharge Diagnosis</td><td></td><td></td></tr><tr><td>P</td><td>?</td><td colspan="2">Description</td></tr><tr><td colspan="2"></td><td colspan="2"></td></tr></table>			Discharge Diagnosis				P	?	Description												
Allergy	Adverse Drug Reaction	Alert																												
No record	No record	No record																												
Discharge Diagnosis																														
P	?	Description																												
Module 1			Module 2																											
<table border="1"><tr><td colspan="2">Procedure</td><td></td><td></td></tr><tr><td>P</td><td>Description</td><td>Date</td><td>Spec...</td></tr><tr><td colspan="2"></td><td colspan="2"></td></tr></table>			Procedure				P	Description	Date	Spec...					<table border="1"><tr><td colspan="2">Investigation</td><td></td></tr><tr><td colspan="2">Description</td><td>Status</td></tr><tr><td colspan="2"></td><td></td></tr></table>			Investigation			Description		Status							
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P	Description	Date	Spec...																											
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<table border="1"><tr><td colspan="2">Discharge Note</td><td></td><td></td></tr><tr><td>B</td><td>I</td><td>U</td><td></td></tr><tr><td colspan="2"></td><td colspan="2"></td></tr></table>			Discharge Note				B	I	U						<table border="1"><tr><td colspan="3">Medication Order Entry</td><td></td><td></td></tr><tr><td colspan="2">Medication</td><td>Clinician</td><td>Date</td></tr><tr><td colspan="2">No record</td><td colspan="2"></td></tr></table>			Medication Order Entry					Medication		Clinician	Date	No record			
Discharge Note																														
B	I	U																												
Medication Order Entry																														
Medication		Clinician	Date																											
No record																														
			Module 3																											
<input type="button" value="Print Setup"/>		<input type="button" value="History"/>		<input type="button" value="Preview"/>		<input type="button" value="Sign-Off and Print"/>		<input type="button" value="Save"/>	<input type="button" value="Close"/>																					

Add an Allergy record



Diagnosis & Procedure Reporting

CHAN, SIU LING(陳小玲) Hospital No.: wy10000
HKIC: A123456(7) DOB: 01-Jan-1990 Age: 23 years Ward: 5A-X12 Adm: 01-Jul-2012 Episode No.: 10003

Discharge Summary Adm Date: 01-Jul-2012

Allergy	Adverse Drug Reaction	Alert
No record	Cataflam (diclofenac po... ...	G6PD Deficiency ...

Discharge Diagnosis History Category

P	?	Description
○	□	

Procedure History Category

P	Description	Date	Speci...
○			

Investigation Template

Description	Status

Discharge Note Revision History Template

Medication Order Entry New Refresh

Medication	Clinician	Date
No record		

Print Setup History Preview Sign-Off and Print Save Close

Add diagnosis by keyword search

The screenshot shows a software interface for managing patient information. At the top, patient details are displayed: CHAN, SIU LING (陳小玲), HKIC: A123456(7), DOB: 01-Jan-1980, Room: A-X12, Adm: 01-Jul-2012, Hospital No.: wy10000, Episode No.: 10003. Below this is a 'Discharge Summary' section with tabs for 'Allergy' (No record) and 'Adverse Drug Reaction' (Cataflam (diclofenac po.)). To the right is a 'Diagnosis' search panel with a search bar containing 'gast'. A callout bubble says: "Auto keyword search starts when 4 letters are entered". The search results list various diagnoses under the 'Gastritis' category, including Gastroenteritis of presumed infectious origin, Per rectal bleeding, Gastrointestinal bleeding, Gastroenteritis, Oesophageal reflux, Chronic gastric ulcer, Acute gastritis, Gastric erosion, and Gastric polyp. The results are page 1 of 20, displaying 1-10 of 194. Other sections visible include 'Procedure' (empty), 'Discharge Note' (empty), and 'Medication Order Entry' (empty). Navigation buttons at the bottom include Print Setup, History, Preview, Sign-Off and Print, Save, and Close.

CHAN, SIU LING (陳小玲)
HKIC: A123456(7) DOB: 01-Jan-1980 Room: A-X12 Adm: 01-Jul-2012 Hospital No.: wy10000 Episode No.: 10003

Discharge Summary

Allergy: No record

Adverse Drug Reaction: Cataflam (diclofenac po.)

Diagnosis:

Auto keyword search starts when 4 letters are entered

Description: gast

Gastritis

- Gastroenteritis of presumed infectious origin
- Per rectal bleeding
- Gastrointestinal bleeding
- Gastroenteritis
- Oesophageal reflux
- Chronic gastric ulcer
- Acute gastritis
- Gastric erosion
- Gastric polyp

Page 1 of 20 | Displaying 1 - 10 of 194

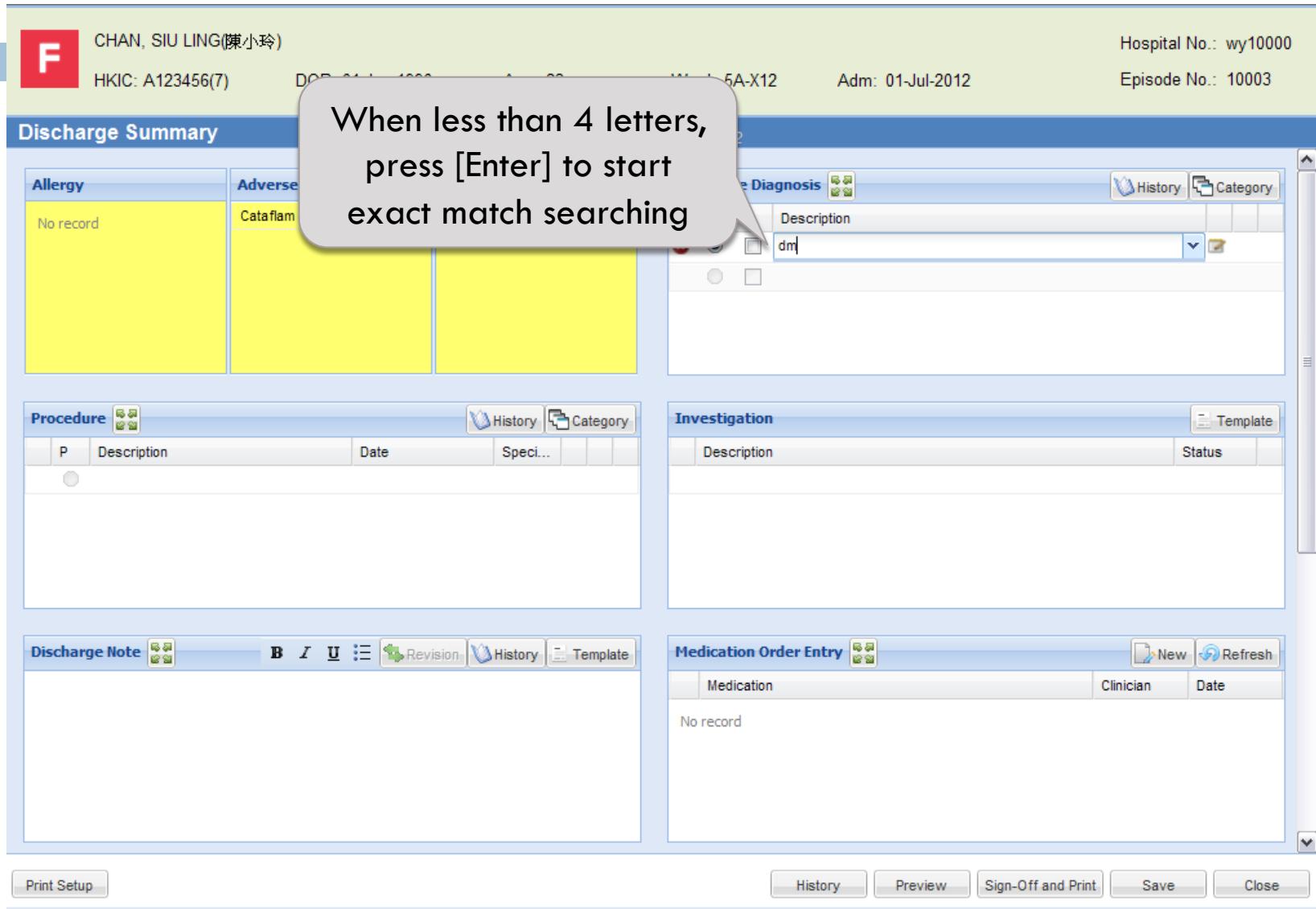
Procedure

Discharge Note

Medication Order Entry

Print Setup History Preview Sign-Off and Print Save Close

Keyword search by abbreviation



Diagnosis & Procedure Reporting

CHAN, SIU LING(陳小玲) Hospital No.: wy10000
HKIC: A123456(7) DOB: 01-Jan-1990 Age: 23 years Ward: 5A-X12 Adm: 01-Jul-2012 Episode No.: 10003

Discharge Summary Adm Date: 01-Jul-2012

Allergy	Adverse Drug Reaction	Alert
No record	Cataflam (diclofenac po... 	G6PD Deficiency

Discharge Diagnosis

P	?	Description
<input checked="" type="radio"/>	<input type="radio"/>	Diabetes mellitus
<input type="radio"/>	<input checked="" type="checkbox"/>	

Procedure

P	Description	Date	Speci...
<input checked="" type="radio"/>			

Investigation

Description	Status

Discharge Note

Medication Order Entry

Medication	Clinician	Date
No record		

Print Setup History Preview Sign-Off and Print Save Close

Search by symbol

CHAN, SIU LING(陳小玲) Hospital No.: wy10000
HKIC: A123456(7) DOB: 01-Jan-1990 Age: 23 years Ward: 5A-X12 Adm: 01-Jul-2012 Episode No.: 10003

Discharge Summary Adm Date: 01-Jul-2012

Allergy	Adverse Drug Reaction	Alert
No record	Cataflam (diclofenac po... ...	G6PD Deficiency ...

Discharge Diagnosis History Category

P	?	Description
<input type="radio"/>	<input type="checkbox"/>	# not
Fracture neck of femur		
Pathological fracture of neck of femur		
Fracture neck of femur, open		

Page 1 of 1 | Displaying 1 - 3 of 3

Procedure History Category

P	Description	Date	Spec...
<input type="radio"/>			

Investigation Template

Description	Status

Discharge Note Revision History Template

Medication Order Entry New Refresh

Medication	Clinician	Date
No record		

Print Setup History Preview Sign-Off and Print Save Close

Add from History

CHAN, SIU LING(陳小玲)
HKIC: A123456(7) DOB: 01-Jan-1990 Age: 23 years Ward: 5A-X12

Adm Date: 01-Jul-2012

Click [History]

Allergy	Adverse Drug Reaction	Alert
No record	Cataflam (diclofenac po... ...	G6PD Deficiency ...

Discharge Diagnosis		
P	?	Description
<input type="radio"/>	<input type="checkbox"/>	

Procedure		
P	Description	Date
<input type="radio"/>		

Investigation	
Description	Status

Discharge Note					
B	I	U	Revision	History	Template

Medication Order Entry		
Medication	Clinician	Date
No record		

Print Setup History Preview Sign-Off and Print Save Close

Diagnosis & Procedure Reporting

CHAN, SIU LING(陳小玲) Hospital No.: wy10000
HKIC: A123456(7) DOB: 01-Jan-1990 Age: 23 years Ward: 5A-X12 Adm: 01-Jul-2012 Episode No.: 10003

Discharge Summary Adm Date: 01-Jul-2012

Search by History

Period : All

Date	Description
02-Jun-2012	Gastritis
02-Jun-2012	Helicobacter pylori infection

Discharge Diagnosis

P ? Description

Investigation

Template

Description	Status

Medication Order Entry

New Refresh

Medication	Clinician	Date
No record		

Print Setup History Preview Sign-Off and Print Save Close

Add from “My Favorite list”

CHAN, SIU LING(陳小玲)
HKIC: A123456(7) DOB: 01-Jan-1990 Age: 23 years Ward: 5A-X12 Adm: 01-Jul-2012 Hospital No.: wy10000 Episode No.: 10003

Discharge Summary Adm Date: 01-Jul-2012

Allergy: No record
Adverse Drug Reaction: Cataflam (diclofenac po...
Alert: G6PD Deficiency
Edit

Discharge Diagnosis: History Category
P ? Description

Procedure: History Category
P Description Date Spec...

Discharge Note: Revision History Template

Medication Order Entry: New Refresh
Medication Clinician Date
No record

Print Setup History Preview Sign-Off and Print Save Close

Click on the dropdown arrow to retrieve the “My Favorite list”, user can set own favorite list in maintenance or add directly from current episode

Diagnosis & Procedure Reporting

CHAN, SIU LING(陳小玲) Hospital No.: wy10000
HKIC: A123456(7) DOB: 01-Jan-1990 Age: 23 years Ward: 5A-X12 Adm: 01-Jul-2012 Episode No.: 10003

Discharge Summary Adm Date: 01-Jul-2012

Allergy	Adverse Drug Reaction	Alert
No record	Cataflam (diclofenac po... 	G6PD Deficiency

Discharge Diagnosis

P	?	Description
		Diabetes mellitus Upper respiratory tract infection Hypertension Neutropenic fever Closed fracture trochanteric femur

Page 1 of 1 Displaying 1 - 5 of 5

Procedure

P	Description	Date	Spec...

Investigation

Description	Status

Discharge Note

Medication Order Entry

Medication	Clinician	Date
No record		

Print Setup History Preview Sign-Off and Print Save Close

Diagnosis & Procedure Reporting

CHAN, SIU LING(陳小玲) Hospital No.: wy10000
HKIC: A123456(7) DOB: 01-Jan-1990 Age: 23 years Ward: 5A-X12 Adm: 01-Jul-2012 Episode No.: 10003

Discharge Summary Adm Date: 01-Jul-2012

Allergy	Adverse Drug Reaction	Alert
No record	Cataflam (diclofenac po... 	G6PD Deficiency

Procedure		History	Category
P	Description	Date	Spec...

Discharge Diagnosis		History	Category
P	?	Description	
<input checked="" type="checkbox"/>	<input checked="" type="radio"/>	Influenza A	
<input type="radio"/>	<input type="checkbox"/>		

Add to Favourite List

Right click on existing diagnosis record
Click [Add to Favorite list]

Discharge Note		History	Template
B	I	U	
		Revision	

Medication Order Entry			New	Refresh
Medication		Clinician	Date	
No record				

Print Setup History Preview Sign-Off and Print Save Close

Diagnosis & Procedure Reporting

CHAN, SIU LING(陳小玲) Hospital No.: wy10000
HKIC: A123456(7) DOB: 01-Jan-1990 Age: 23 years Ward: 5A-X12 Adm: 01-Jul-2012 Episode No.: 10003

Discharge Summary Adm Date: 01-Jul-2012

Allergy	Adverse Drug Reaction	Alert
No record	Cataflam (diclofenac po... G6PD Deficiency	

Procedure History Category

P	Description	Date	Spec...

Discharge Diagnosis History Category

P	? Description
<input checked="" type="radio"/>	Influenza A
<input type="radio"/>	
<input type="checkbox"/>	Diabetes mellitus
<input type="checkbox"/>	Upper respiratory tract infection
<input type="checkbox"/>	Hypertension
<input type="checkbox"/>	Neutropenic fever
<input type="checkbox"/>	Closed fracture trochanteric femur
<input type="checkbox"/>	Influenza A

Displaying 1 - 6 of 6

Influenza A is added to the “My Favorite list”

Discharge Note Revision History Template

Medication Order Entry New Refresh

Medication	Clinician	Date
No record		

Print Setup History Preview Sign-Off and Print Save Close

Age validation

CHAN, SIU LING(陳小玲)
HKIC: A123456(7) DOB: 01-Jan-1990 Age: 23 years Ward: 5A-X12 Adm: 01-Jul-2012 Hospital No.: wy10000 Episode No.: 10003

Discharge Summary Adm Date: 01-Jul-2012

Allergy	Adverse Drug Reaction	Alert	Discharge Diagnosis
No record	Cataflam (diclofenac po... 	G6PD Deficiency 	P ? Description

History Category

Procedure P Description Template Status

Question

This Diagnosis (Foetal and neonatal jaundice) is inappropriate for this patient's age. You may continue or re-select a more appropriate Diagnosis.

Yes No

Discharge Note Revision History Template

Medication Order Entry New Refresh Medication Clinician Date

No record

Print Setup History Preview Sign-Off and Print Save Close

Diagnosis & Procedure Reporting

Sex Validation

CHAN, SIU LING(陳小玲) Hospital No.: wy10000
HKIC: A123456(7) DOB: 01-Jan-1990 Age: 23 years Ward: 5A-X12 Adm: 01-Jul-2012 Episode No.: 10003

Discharge Summary Adm Date: 01-Jul-2012

Allergy	Adverse Drug Reaction	Alert
No record	Cataflam (diclofenac po...)	G6PD Deficiency

Discharge Diagnosis		
P	?	Description
<input type="radio"/>	<input type="checkbox"/>	

History Category

Procedure Template

Status

Print Message OK

Warning

This Diagnosis (Hyperplasia of prostate) can only be entered for patients of a particular Gender. The Gender specified for this patient is not valid. You may verify the patient's data or select a more appropriate Diagnosis.

Discharge Note Revision History Template

Medication Order Entry New Refresh

Medication Clinician Date

No record

Print Setup History Preview Sign-Off and Print Save Close

Add Procedure

CHAN, SIU LING(陳小玲) Hospital No.: wy10000
HKIC: A123456(7) DOB: 01-Jan-1990 Age: 23 years Ward: 5A-X12 Adm: 01-Jul-2012 Episode No.: 10003

Discharge Summary Adm Date: 01-Jul-2012

Allergy	Adverse Drug Reaction	Alert	Discharge Diagnosis
No record	Cataflam (diclofenac po...)	G6PD Deficiency	History Category
July 2012 Edit ? Description S M T W T F S 24 25 26 27 28 29 30 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 1 2 3 4 Today			

Procedure Template

P	Description	Date	Status
	Oesophagogastroduodenoscopy	01072012	

Discharge Note

Print Setup Save Close

Basically same logic with diagnosis
Add procedure date by inputting
ddmmyyyy or select from calendar

3 free text components

Investigation

Description	Status

Template

Discharge Note

Revision History Template

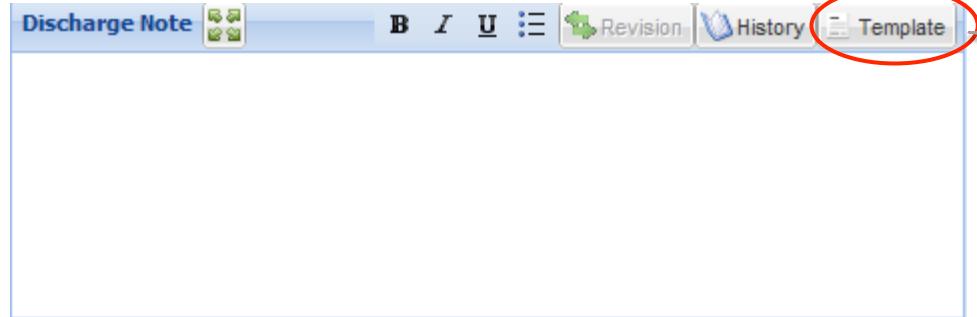
Plan of Management

Revision History Template

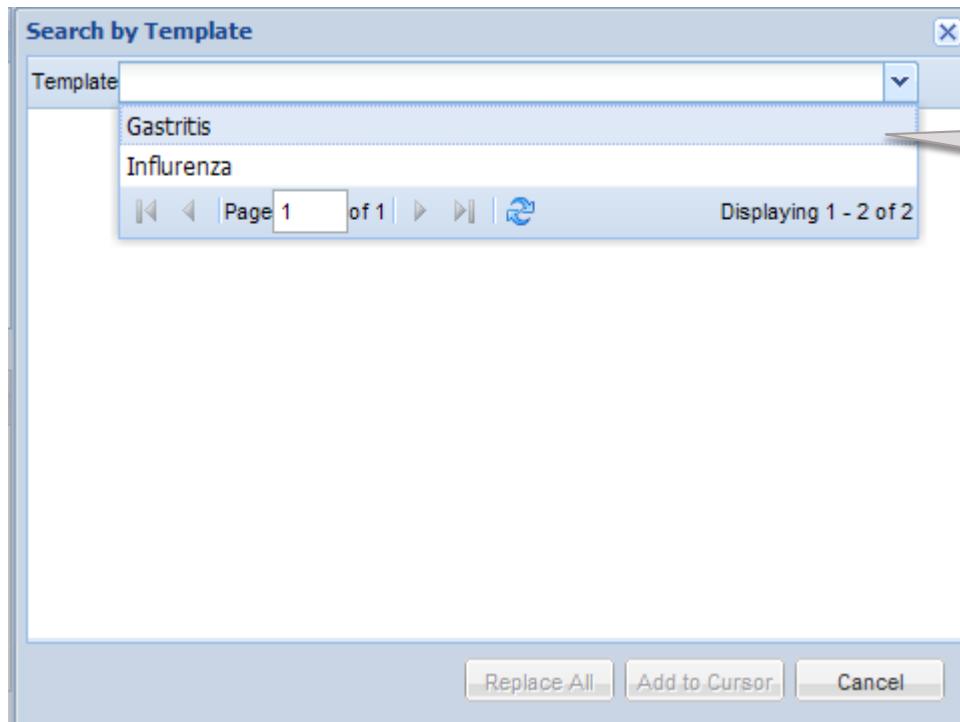
Features

1. Template
 - Set in maintenance function
 - Facilitate faster input
2. History
 - Allow copy from History
 - Facilitate faster input
3. Click to enlarge input area

For example, copy from template in Discharge Note

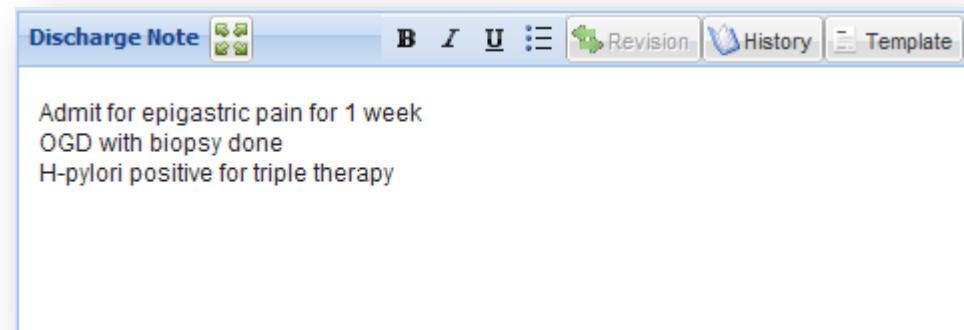
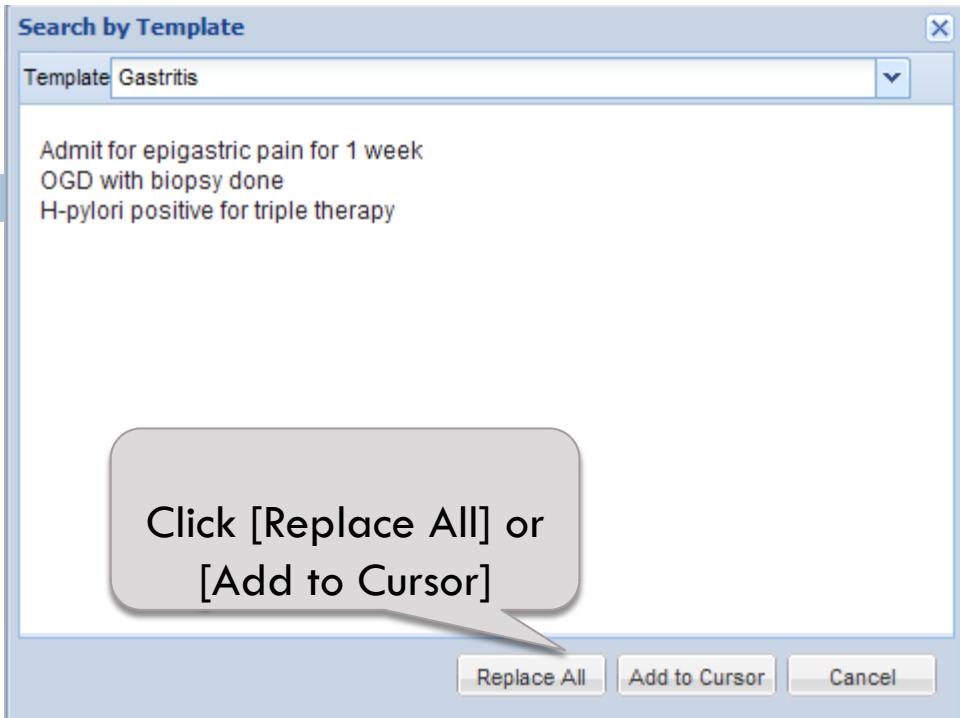


Click [Template]



Select an appropriate template

Discharge Summary Module



Medication Order Entry

CHAN, SIU LING(陳小玲) Hospital No.: wy10000
HKIC: A123456(7) DOB: 01-Jan-1990 Age: 23 years Ward: 5A-X12 Adm: 01-Jul-2012 Episode No.: 10003

Discharge Summary Adm Date: 01-Jul-2012

Discharge Note Revision History Template

Admit for epigastric pain for 1 week
OGD with biopsy done
H-pylori positive for triple therapy

Medication Order Entry

Medication	Clinician	Date
No record		

Plan of Management Revision History Template

Discharge Information

Attending Doctor:	Dr Happy Sek
Consulting Doctor:	<input checked="" type="checkbox"/> Dr Pretty Chan
Discharge Date:	02-Aug-2012
Admission Date:	01-Jul-2012

Letter

Select letter:

Sample Claim Form
 Sick Leave Certificate
 Admission Certificate
 Hospital Authority Referral Letter
 Blank Letter

Buttons: Print Setup, History, Preview, Sign-Off and Print, Save, Close

Callout: Click [New] to retrieve the MOE module

Medication Order Entry

Prescribe by keyword search

CHAN, SIU LING(陳小玲) Hospital No.: wy10000
HKIC: A123456(7) DOB: 01-Jan-1990 Age: 23 years Ward: 5A-X12 Adm: 01-Jul-2012 Episode No.: 10003

Discharge Summary Adm Date: 01-Jul-2012 X

Medication Order Entry Order Date: 14-Jan-2013

Display ADR: Cataflam (diclofenac potassium) Alert: G6PD Deficiency Update

Drug Name / Set: ciproxin Adult

Prescription

ciproxin (ciprofloxacin (as hydrochloride)) tablet
ciproxin (Free Text)

Total Number: 0 Save & Print Delete Order

Close

Medication Order Entry

CHAN, SIU LING(陳小玲) Hospital No.: wy10000
HKIC: A123456(7) DOB: 01-Jan-1990 Age: 23 years Ward: 5A-X12 Adm: 01-Jul-2012 Episode No.: 10003

Discharge Summary Adm Date: 01-Jul-2012

Drug	Name: Chan Siu Ling (陳小玲)	HKIC: A123456(7)	 0121
Pres	Address:	DOB: 01-Jan-1990	Age: 23 years
	Testing Hospital	Order Date: 14-Jan-2013	
	虛擬醫院 - SHP - SHP	Sex: F	Ward: 5A
	Discharge Prescription 出院藥單		
	Alert Allergy Information		
	Drug Allergy:	Nil	
	Adverse Drug Reaction:	Cataflam (diclofenac potassium)	
	Alert:	G6PD Deficiency	
	Prescription		
	Dispense in pharmacy		
	1. amoxicillin (as trihydrate) (Bright Future) capsule 1,000 mg - twice daily - oral - for 1 week		
	2. APO-Omeprazole (omeprazole) gastro-resistant capsule 20 mg - twice daily - oral - for 1 week		
Total	Generic substitution is allowed unless otherwise specified		
	Page 1 of 1		
	Print	Close	Close

Medication Order Entry

CHAN, SIU LING(陳小玲) Hospital No.: wy10000
HKIC: A123456(7) DOB: 01-Jan-1990 Age: 23 years Ward: 5A-X12 Adm: 01-Jul-2012 Episode No.: 10003

Discharge Summary Adm Date: 01-Jul-2012

Admit for epigastric pain for 1 week
OGD with biopsy done
H-pylori positive for triple therapy

Plan of Management

Medication as charted
Soft diet
Increase fluid intake as tolerate
Sickleave x 4/7
FU as required

Letter

Select letter:

- Sample Claim Form
- Sick Leave Certificate
- Admission Certificate
- Hospital Authority Referral Letter
- Blank Letter

OK

Medication

Medication	Clinician	Date
1 amoxicillin (as trihydrate) (Bright Future) (amoxycillin (as trihydrate)) capsule - 1,000 mg - twice daily - oral - for 1 week	Dr. Sek	2013-01-14 17:52:27
2 APO-Omeprazole (omeprazole) gastro-resistant capsule - 20 mg - twice daily - oral - for 1 week	Dr. Sek	2013-01-14 17:52:27

Discharge Instructions

Drug prescribed in MOE module will be integrated with discharge summary with no need for doctor to input on the summary again

Print Setup History Preview Sign-Off and Print Save Close

Letter Engine

Letter Engine

CHAN, SIU LING(陳小玲) Hospital No.: wy10000
HKIC: A123456(7) DOB: 01-Jan-1990 Age: 23 years Ward: 5A-X12 Adm: 01-Jul-2012 Episode No.: 10003

Discharge Summary Adm Date: 01-Jul-2012

Admit for epigastric pain for 1 week
OGD with biopsy done
H-pylori positive for triple therapy

Medication	Clinician	Date
1 amoxicillin (as trihydrate) (Bright Future) (amoxycillin (as trihydrate)) capsule - 1,000 mg - twice daily - oral - for 1 week	Dr. Sek	2013-01-14 17:52:27
2 APO-Omeprazole (omeprazole) gastro-resistant capsule - 20 mg - twice daily - oral - for 1 week	Dr. Sek	2013-01-14 17:52:27

Plan of Management

Medication as charted
Soft diet
Increase fluid intake as tolerate
Sickleave x 4/7
FU as required

Discharge Information

Attending Doctor: Dr Happy Sek
Consulting Doctor: Dr Pretty Chan
Discharge Date: 02-Aug-2012
Admission Date: 01-Jul-2012

Letter

Select letter:

Sample Claim Form
 Sick Leave Certificate
 Admission Certificate
 Hospital Authority Referral Letter
 Blank Letter

Select the letter type then click [Ok]

OK

Print Setup History Preview Sign-Off and Print Save Close

CHAN, SIU LING(陳小玲) Hospital No.: wy10000
HKIC: A123456(7) DOB: 01-Jan-1990 Age: 23 years Ward: 5A-X12 Adm: 01-Jul-2012 Episode No.: 10003

Discharge Summary Adm Date: 01-Jul-2012

eHR Hospital

Sick Leave Certificate

Hospital No.: 10003 HKIC: A123456(7)
Name: Chan, Siu Ling

Sex: F DOB: 01-Jan-1990 Age: 23 years

This is to certify that the above-named patient: 茲證明上述病人：

Has attended here on 1-Jul-2012 在本處診治。
已於

Is suffering from Gastritis 因患

Is recommended for sick leave from 1-Jul-2012 to 02-Aug-2012 inclusive.
建議給予病假由 至 止。

Is required to follow up on 須於 診。

Remarks (if any)

Corresponding data would be retrieved to complete the letter

Letter Fields

Letter Type

Page 1 / 1

Save & Print

Print Close

Close

Example: Referral letter

CHAN, SIU LING(陳小玲)
HKIC: UB011235(7) DOB: 01-Jan-1972 Age: 40 years
Hospital No.: HN888888(8)
Case No.: 100110

Discharge Date: 18-Jul-2012

Letter

Hospital Authority Referral Letter

Patient Referral Form to the Hospital Authority Specialist Clinic / A&E (病人轉介表)

Preview for Printing

1 of 2 100%

Private Practitioner Contact Details
Dr. Happy Cheung
eHR Hospital

To 診: MED Hospital 醫院
Patient 病者: Chan, Siu Ling
Sex/Age 性別/年齡: F / 40 years

Dear Professor / Doctor 教授 / 醫生,
Thank you for seeing the above-named patient 多謝診看上述病者。

Diagnosis / Problems 診斷 / 問題:
Upper Respiratory Tract Infection

Other significant history and physical findings 其它重要病歷及發現:

Patient Referral Form to the Hospital Authority Specialist Clinic / A&E (病人轉介表)

Private Practitioner Contact Details
Dr. Happy Cheung
eHR Hospital

To 診: MED Hospital 醫院 QMH
Patient 病者: Chan, Siu Ling
I.D. No. 身份證號碼: UB011235(7)
Specialist Clinic 專科門診 Date 日期: 14-Sep-2012
Sex/Age 性別/年齡: F / 40 years

Dear Professor / Doctor 教授 / 醫生,
Thank you for seeing the above-named patient 多謝診看上述病者。

Diagnosis / Problems 診斷 / 問題:
Upper Respiratory Tract Infection

Other significant history and physical findings 其它重要病歷及發現:

Relevant Investigation Reports (Attached copies of reports) 有關檢查報告(附帶報告副本):

Page 1 / 2

OK Cancel

Discharge Summary Module

CHAN, SIU LING(陳小玲) Hospital No.: wy10000
HKIC: A123456(7) DOB: 01-Jan-1990 Age: 23 years Ward: 5A-X12 Adm: 01-Jul-2012 Episode No.: 10003

Discharge Summary Adm Date: 01-Jul-2012

Admit for epigastric pain for 1 week
OGD with biopsy done
H-pylori positive for triple therapy

Medication	Clinician	Date
1 amoxicillin (as trihydrate) (Bright Future) (amoxycillin (as trihydrate)) capsule - 1,000 mg - twice daily - oral - for 1 week	Dr. Sek	2013-01-14 17:52:27
2 APO-Omeprazole (omeprazole) gastro-resistant capsule - 20 mg - twice daily - oral - for 1 week	Dr. Sek	2013-01-14 17:52:27

Plan of Management

Medication as charted
Soft diet
Increase fluid intake as tolerate
Sickleave x 4/7
FU as required

Discharge Information

Attending Doctor: Dr Happy Sek
Consulting Doctor: Dr Pretty Chan
Discharge Date: 02-Aug-2012
Admission Date: 01-Jul-2012

Letter

Select letter:

Sample Claim Form
 Sick Leave Certificate
 Admission Certificate
 Hospital Authority Referral Letter
 Blank Letter

Click [Sign off and Print] to complete the Discharge Summary

Print Setup History Preview Sign-Off and Print Save Close

Discharge Summary Module

Virtual Hospital		Name: Chan, Siu Ling (陈思玲) DOB: 01-Jan-1990 Age: 23 years Sex: F Ward: 5A	 Hospital No.: wy10000
Discharge Summary			
Discharge Date: 02-Aug-2012		Admission Date: 01-Jul-2012	
Diagnosis: <small>(*Modifier: ?=Provisional)</small>			
Principal:	<u>Description</u> Gastritis		
Procedure:			
Principal:	<u>Description</u> Oesophagogastroduodenoscopy with biopsy	<u>Procedure Date</u> 01-Jul-2012	<u>Specialty</u>
Investigation: Nil			
Medication order entry:			
1. amoxicillin (as trihydrate) (Bright Future) (amoxycillin (as trihydrate)) capsule - 1,000 mg - twice daily - oral - for 1 week 2. APO-Omeprazole (omeprazole) gastro-resistant capsule - 20 mg - twice daily - oral - for 1 week			
Plan of Management: Medication as charted Soft diet Increase fluid intake as tolerate Sickleave x 4/7 FU as required			
Discharge Note: Admit for epigastric pain for 1 week OGD with biopsy done H-pylori positive for triple therapy			
Remarks: Nil			
Consulting Doctor: 1. Dr. Chan, Senior Medical Officer			
Doctor-In-Charge:			
<hr/> Signature Dr. Sek Medical Officer		<hr/> Date	

Consultation Module

CHAN, SIU LING(陳小玲) Hospital No.: wy10000
HKIC: A123456(7) DOB: 01-Jan-1990 Age: 23 years Ward: 5A-X12 Episode No.: 10004

Consultation Summary Consult Date: 16-Jan-2013

History

In-Patient Out-Patient All

16-Jan-2013 Editing...
Gastritis 02-Aug-2012
Gastritis 02-Jun-2012
Helicobacter pylori infection

Alert

Allergy:
ADR: (1) Cataflam (diclofenac potassium)
Alert: (1) G6PD Deficiency

Consultation Note

Procedure

Description Date

History Category History Category

Page 1 of 1 | 1-2 (+1)* of 2

Principal Diagnosis Diagnosis Tag

Print Setup Preview Sign-Off and Print Save Close

History panel to view both **in-patient record** (if integrate with Discharge summary module) & **out-patient record**

Consultation Summary Module

CHAN, SIU LING(陳小玲) Hospital No.: wy10000
HKIC: A123456(7) DOB: 01-Jan-1990 Age: 23 years Ward: 5A-X12 Episode No.: 10004

Consultation Summary Consult Date: 16-Jan-2013

History

In-Patient Out-Patient All

16-Jan-2013 Editing...
Gastritis 02-Aug-2012
Gastritis 02-Jun-2012
Helicobacter pylori infection

Alert

Allergies: ...
ADR: ... (diclofenac potassium)
Alert: ...

Click  to start searching

Diagnosis

Description

Procedure

Description Date

Page 1 of 1 | 1-2 (+1)* of 2

Principal Diagnosis Diagnosis Tag

Print Setup Preview Sign-Off and Print Save Close

Consultation Summary Module

CHAN, SIU LING(陳小玲) Hospital No.: wy10000
HKIC: A123456(7) DOB: 01-Jan-1990 Age: 23 years Ward: 5A-X12 Episode No.: 10004

Consultation Summary Consult Date: 16-Jan-2013

History Alert

In-Patient Out-Patient All

* Gastritis Gastritis Helicobacter pylori infection

16-Jan-2013 02-Aug-2012 02-Jun-2012

Search Patient History

gastritis Include notes * Special character will be ignored.

The search results would be highlighted in RED

Procedure

Description Date

Page 1 of 1 | 1-2 (+1)* of 2

Principal Diagnosis Diagnosis Tag

Print Setup Preview Sign-Off and Print Save Close

This screenshot shows a medical consultation software interface. At the top, patient details are displayed: CHAN, SIU LING (陳小玲), HKIC: A123456(7), DOB: 01-Jan-1990, Age: 23 years, Ward: 5A-X12, Hospital No.: wy10000, Episode No.: 10004. Below this, the 'Consultation Summary' tab is active, showing the consult date as 16-Jan-2013. The 'History' section contains a list of diagnoses: 'Gastritis' (date 02-Aug-2012) and 'Gastritis' (date 02-Jun-2012). The second 'Gastritis' entry is highlighted with a red box. A search dialog box is overlaid on the screen, containing the search term 'gastritis' in a text input field, an 'Include notes' checkbox, and a 'Search' button. A tooltip message 'The search results would be highlighted in RED' is shown in a callout bubble pointing to the search results area. The bottom of the screen shows navigation buttons for 'Print Setup', 'Preview', 'Sign-Off and Print', 'Save', and 'Close'.

Consultation Module

CHAN, SIU LING(陳小玲) Hospital No.: wy10000
HKIC: A123456(7) DOB: 01-Jan-1990 Age: 23 years Ward: 5A-X12 Episode No.: 10004

Consultation Summary Consult Date: 16-Jan-2013

History gastritis

In-Patient Out-Patient All

16-Jan-2013 Editing...

Gastritis 02-Aug-2012
Gastritis 02-Jun-2012
Helicobacter pylori infection

Alert Edit

Allergy:
ADR: (1) Cataflam (diclofenac potassium)
Alert: (1) G6PD Deficiency

Consultation Note History

The search results would be highlighted in RED

Description History

Procedure History

Page 1 of 1 | 1-2 (+1)* of 2

Principal Diagnosis Diagnosis Tag

Print Setup Preview Sign-Off and Print Save Close

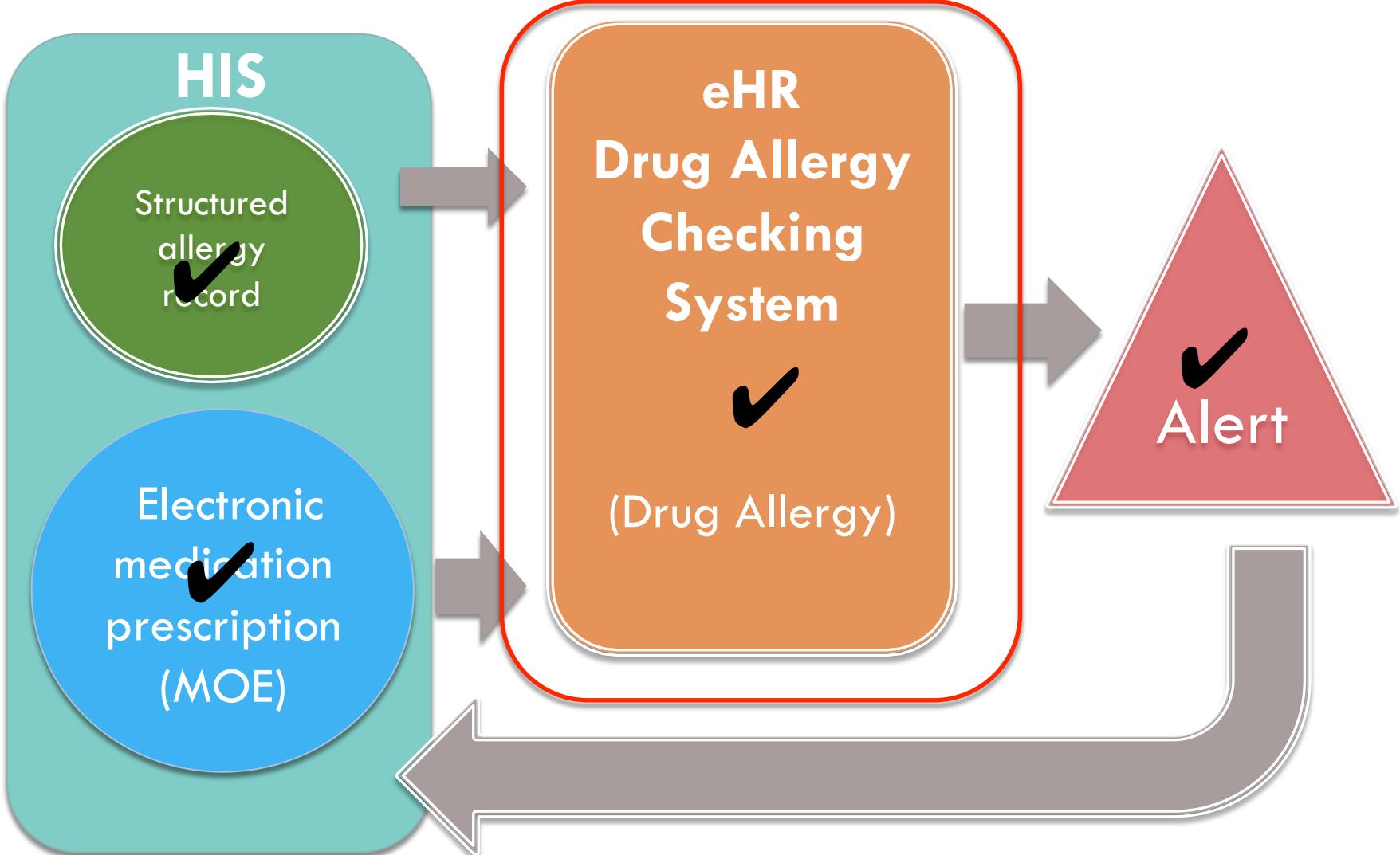
Consultation Summary Module

Virtual Hospital	
Consultation Summary	Name: Chan, Siu Ling (陳少玲) DOB: 01-Jan-1990 Age: 23 years Sex: F
 Hospital No.: wy10000	
Consultation Date: 16-Jan-2013	
Assessment: Nil	
Consultation Note: Fever x 2 days. Sore throat and productive cough x 2 days. RN and stuffy nose and headache. No travel history No family outbreak	
Diagnosis: (*Modifier: ?=Provisional)	
Description	Upper respiratory tract infection
Procedure: Nil	
Medication order entry:	
1. Panadol (paracetamol) tablet - 500 mg - four times daily - oral - for 3 days	
Doctor-in-Charge:	
_____ Signature Dr Happy Sek Medical Officer	_____ Date

Printed on: 16-Jan-2013 13:32:02 Printed by: sek001

Page 1 of 1

Drug Allergy Checking System



Allergy Alert Prompt

Queue Registration Appointment Assessment Consultation Dispensary Inventory Report

Dr Chan Logout

Name: CHAN, TAI MAN

DOB: 10-Oct-1978

Age: 32 years

Sex: M

Details

Consultation

Alert Allergy: amoxicillin (as trihydrate)

Smoking: Unknown

Drinking: Unknown

Consultation History

Filter by: Choose an Attendee

Appt. Date: Attending Reason

09-May-2011

03-May-2011

28-Apr-2011

09-May-2011

Created Clinic: Kowloon

Created By: Dr Chan

Create Datetime: 09-May-2011

Drug Allergy Checking



This patient has **CERTAIN** drug allergy to **amoxicillin (as trihydrate)**. The clinical manifestation was **angioedema and rash**.

APO-Clox (cloxacillin (as sodium)) may result in ALLERGIC REACTION.

If you wish to prescribe anyway, you must provide the reason(s) for overriding this alert:

- No alternative treatment available.
- Patient is already taking this drug without allergin response.
- Desensitizing the patient with this drug.
- Doubts about the reported history of drug allergy.
- Others (Please specify reason below)

Remarks

Adult

Drug Name:

Drug

✖ Cloxacillin (Cloxacillin) 500mg capsule — 1 capsule — oral — three times daily — for 5 Days — total 15 capsule

Price

Dose: 1 capsule Frequency: TDS PRN Duration: 5 Days Total Qty: 15 capsules

Route: oral Dispensary in clinic Remarks:

Assessment History

Person Master Index

- Support compliance of eHR enrollment standard for PMI data
- No front-end development
- Validation rules for adoption in local Patient Registration System
 - eHR Number Validator
 - Date Exactness Validator
 - Document Type Validator
 - HKID CheckDigit Validator
 - BabyName Builder
 - Standard Name Display
 - Age Calculator
 - Different Glyph of Chinese Name in same ISO code

Demo – HKID Check Digit Validator

This is local eMR System

eHR No:

Medical Record Number: <New Patient >

*Surname:

Given Name:

Other Name:

Chinese Name:

*Date of Birth: DD-MM-YYYY Age:

HKIC: C668668 (A)

Document Type:

Document Number:

*Sex: Male Female Unknown

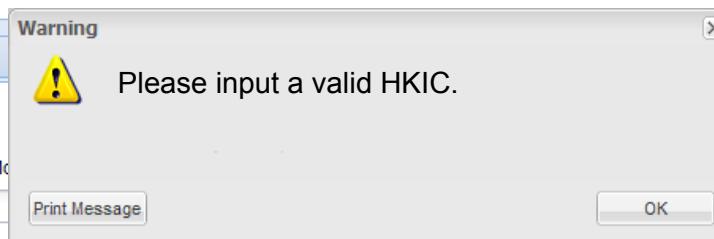
Nationality:

Contact Info. Contact Person

* At least one phone number is required.

Tel.(Home): Tel.(Mobile):

Email Address:



Tel.(Other):

Residential Address

Room: Floor: Block: Building/Street:

District: Area:

Correspondence Address

Same as Residential Address

Room: Floor: Block: Building/Street:

District: Area:

Remarks:

Completed Cancel

Demo – Name Validator

This is local eMR System

eHR No:	C668668 (E)		
Medical Record Number:	<New Patient >		
*Surname:	CHAN	Document Type:	HKID Card
Given Name:	TAI MAN #	Document Number:	
Other Name:	PETER	*Sex:	<input type="radio"/> Male <input checked="" type="radio"/> Female <input type="radio"/> Unknown
Chinese Name:	陳大文	Nationality:	HONG KONG
*Date of Birth:	05-Jun-1987	exact year	Age: 25 years

Contact Info. Contact Person

* At least one phone number is required.

Tel.(Home): 22225555 Tel.(Other):

Email Address:

Residential Address

Room: 1 Floor: 21 Block: Building/Street: TAI NAM STREET

District: ADMIRALTY Area: HONG KONG

Correspondence Address

Same as Residential Address

Room: Floor: Block: Building/Street:

District: Area:

Remarks:

Warning

Special character(s) is found in Given name, do you want to continue?

Print Message Yes No

Completed Cancel

Hospital ePR

- 1. Front-end Local Hospital Viewer**
 - ❑ Integrated view to facilitate reading different patient's clinical data in local hospital at a glance
 - ❑ Simple UI
 - ❑ Indexing of available records by domains
- 2. Local Adaptor**
 - ❑ Ensure connection compatibility of local system with eHR platform
 - ❑ Ensure compliance of sharable data with eHR standard

F

CHAN, SIU LING(陳小玲)

HKIC: UB011235(7)

DOB: 01-Jan-1972

Age: 40 years

Hospital No.: HN888888(8)

Case No.: 112001

Hospital ePR



Allergy & ADR

History



Period	Laboratory	All
--------	------------	-----

Date	Profile	Description	Laboratory
------	---------	-------------	------------

01/08/2012 CANC Toxicology

23/07/2012 CBC

Haematology

21/7/2012 LFT, RFT

Biochemistry

Haematology

21/07/2011 LFT, RFT Biochemistry

10/07/2011 DESC, PILL Toxicology

24/06/2011 DR7, IC Toxicology

28/05/2011 DR7, IC Toxicology

12/04/2011 DR5, IC Toxicology

16/03/2011 FG

Biochemistry

05/01/2011 TA/ Viral Cult. Microbiology

16/12/2010 CSF/VDRL Microbiology

18/11/2010 CSF/VDRL Microbiology

15/10/2010 CBC

Haematology

16/07/2010 LFT, RFT Biochemistry

09/07/2010 Sputum/

Tuberculosis Microbiology

02/06/2010 Sputum/

Tuberculosis Microbiology

30/05/2010 Sputum/

Tuberculosis Microbiology

18/03/2009 LFT, RFT Biochemistry

28/02/2009 CBC

Haematology

12/01/2009 FG

Virtual Hospital

Rm 1603, 16/F, One Kowloon, No. 1 Wang Yuen
Street, Kowloon Bay, Kowloon, Hong Kong

Lab no.: 88888

Clinical Laboratory Report

DOCTOR

Ordered By:
On: 21/7/2012
@15:03

PATIENT

Hospital#: ID#:
Patient#: Age: Years Months Gender:
Location:

Clinical Chemistry

Test	化驗項目	Result	Unit	Ref. Range
Urea	尿素	5.1	mmol/L	3.2 — 8.2
Creatinine	肌膚酐	66.3	μmol/L	44.2 — 107.0
Sodium	鈉	135	mmol/L	135 — 145
Potassium	鉀	3.6	mmol/L	3.5 — 5.1
Chloride	氯化物	97 L	mmol/L	98 — 107
Bicarbonate	重碳酸鹽	28.5	mmol/L	23.0 — 32.0
Protein, total	總蛋白質	69.3	g/L	64.0 — 82.0
Albumin	白蛋白	39.8	g/L	34.0 — 50.0
Globulin	球蛋白	29.5	g/L	23.0 — 35.0
A/G ratio	白蛋白對球蛋白比率	1.35		1.10 — 1.90
Bilirubin, total	總膽紅素	4.8	μmol/L	<=17.1
GGT	丙種谷胱轉氨酵素	35	U/L	< 84
Alkaline Phosphatase (ALP)	鹼性磷脂酶	75	U/L	45 — 145
ALT (SGPT)	谷丙轉氨酵素	31	U/L	10 — 58
AST (SGOT)	谷草轉氨酵素	16	U/L	14 — 64

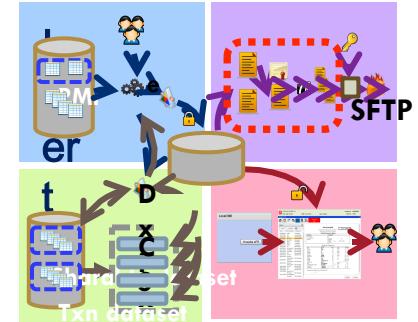
Released by: CHAN on 21-Jul-2012 @

17:00

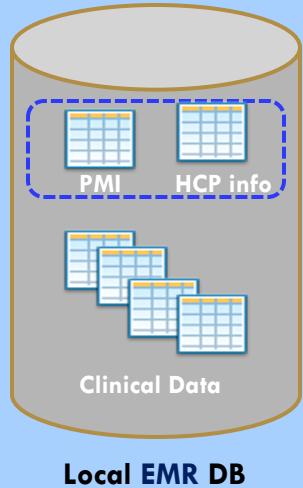
Print

Close

LOCAL ADAPTOR DESIGN



Insert



Hospital IT

prepare

Upload Job

Encrypt/
insert

Data upload
web service



Patient
key

Local EMR DB

Adaptor



Data files



Signed HL 7
Message



NID



sFTP eHR login key

SFTP Client

Fixed IP



Zipped
files



SFTP



Fixed IP

Mapped Data

TXN Data

DxPx

CS

SAAM

MOE

Data
retrieval
web service

TXN Data

Adaptation Module
DB

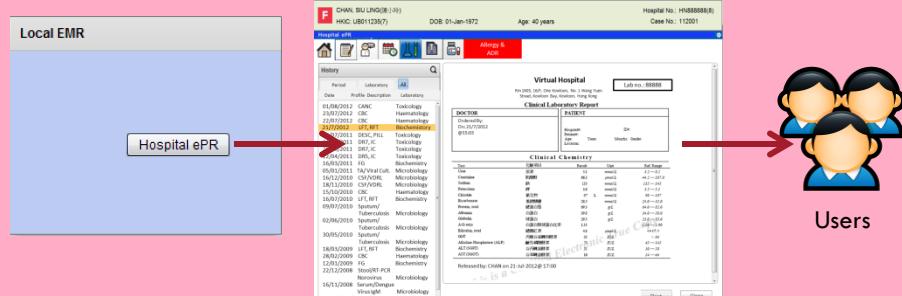
Sharable dataset

Txn dataset

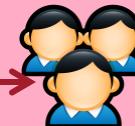
Retrieve/ Transform

Local EMR

Hospital ePR



Hospital ePR



Users



User Name:

Password:

Clinic: Kowloon Bay Clinic

Language: English 中文

Important Notes

1. All patient information is strictly confidential
2. Staff may only use the CMS On-ramp for authorised purposes
3. All access to CMS On-ramp is logged
4. Please logoff immediately after use
5. Please ensure you have verified the content before you sign the computer printouts
6. Please change your password on a regular basic

[Terms and Conditions](#) [Confidentiality Guidelines](#)

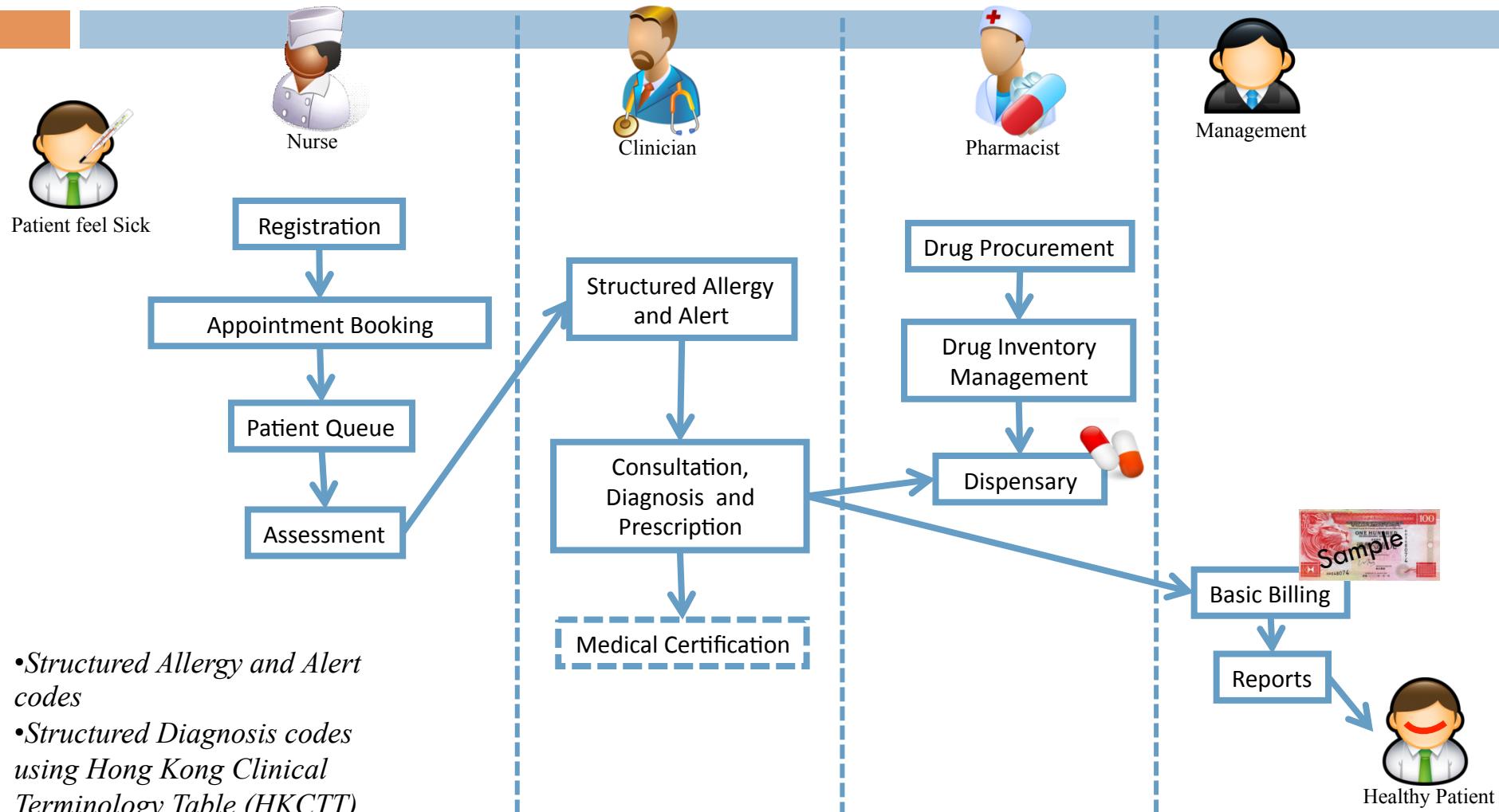
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CMS On-ramp System

Basic development principles

- **Portable**
 - Able to deploy to different platforms
- **Technology neutral**
 - No specific vendor product requirement
- **Open source**
 - Allow system enhancement, integration and adoption by private sectors

System Functions & Workflow



- Structured Allergy and Alert codes
- Structured Diagnosis codes using Hong Kong Clinical Terminology Table (HKCTT)
- Drug Profile using Hong Kong Medication Terminology Table (HKMTT)



Healthy Patient

Patient registration

Screenshot of a Patient Registration interface:

Header: Queue, Registration, Appointment, Assessment, Consultation, Dispensary, Inventory, Report, Administration, Chan Tai Man, Logout

Patient Registration Form Fields:

- Search: [Text Input]
- eHR No: [Text Input]
- Medical Record Number: <New Patient> [Text Input]
- *Surname: CHAN [Text Input]
- Given Name: KA KA [Text Input]
- Other Name: [Text Input]
- Chinese Name: [Text Input]
- *Date of Birth: 01-Apr-1980 [Text Input] Exact day, month, year [Text Input] Age: 32 years [Text Input]
- HKID: [Text Input] ([Text Input])
- Document Type: Identity/ travel document - overseas [Text Input]
- Document Number: HN23523423 [Text Input]
- *Sex: Male [Radio Button] Female [Radio Button] Unknown [Radio Button]
- Marital Status: Married [Text Input]
- Nationality: CHINA [Text Input]
- Religion: Catholic [Text Input]

Contact Info: Contact Person, Referrer, Insurance

* At least one phone number is required.

Tel. (Home): [Text Input]

Email Address: [Text Input]

Residential Address:

Room: A [Text Input]

District: KOWLOON CITY [Text Input]

Area: KOWLOON [Text Input]

Correspondence Address:

Same as Residential Address

Room: [Text Input] Floor: [Text Input] Block: [Text Input] Building/Street: [Text Input]

District: [Text Input] Area: [Text Input]

Remarks: [Text Input]

Action Buttons: New Patient, Edit, Save, Cancel, Appointment

A large blue callout bubble points to the "Patient registration comply with the eHR PMI standard" text.

Text in Callout Bubble: Patient registration comply with the eHR PMI standard

Appointment schedule at a glance

Queue Registration Assessment Dispensary Report Chan Tai Man

Appointment(Doctor: Chan Tai Man)

Quick add Today Fri, 14-Sep-2012 Patient search: Refresh Day Week Month

« Sep 2012 »
S M T W T F S
26 27 28 29 30 31 1
2 3 4 5 6 7 8
9 10 11 12 13 14 15
16 17 18 19 20 21 22
23 24 25 26 27 28 29
30 1 2 3 4 5 6

Doctors: Chan Tai Man
Resources:

Status:
Booked (blue)
Follow up (purple)
Waiting (green)
Attended (orange)
Unattended (dark grey)
Blocked (brown)

14-Sep Fri

17:00: 17:00-17:10 CHAN, KA KA (98765432)
17:10-17:15 CHEUNG, WAI (4534687)
17:20-17:40 Block period
17:35-17:40 PANG, GIGI (4564512)
17:40-17:45 FUNG, HEIDI (6786454)
17:45-17:50 CHANG, CINDY (2842354)

18:00

Appointment Booking

Queue Registration Appointment Assessment Consultation Dispensary Inventory Report Administration Chan Tai Man Logout

Appointment(Doctor: Chan Tai Man)

Quick add Today Fri, 14-Sep-2012 Patient search: Refresh Day Week Month

14-Sep

New Appointment

Search:	<input type="text"/>	<input type="checkbox"/> Block period
*Surname:	CHAN	
Given name:	KA KA	
*Contact no.:	98765432	
*Doctor:	Chan Tai Man	
Resource:		
*Date/Time:	14-Sep-2012 <input type="button" value="Change"/>	17:00
*Duration(mins):	10	<input type="button" value="Find next"/>
Remark:		
Follow up:	<input type="checkbox"/>	

Appointment history

Date/Time	Clinic	Doctor	Status	Remark
No record found				

18:00

Consultation operation & documentation

The screenshot shows a medical consultation software interface. At the top, there's a navigation bar with links like Queue, Registration, Appointment, Assessment, Consultation, Dispensary, Inventory, Report, and Administ... (partially visible). Below the navigation bar, patient information is displayed: Name: CHAN, KA KA, Doc no: HN23523423 (OP), DOB: 01-Apr-1980. A large blue callout bubble on the right side lists 'Support consultation operation:' with five numbered points. The main workspace contains several sections: 'Patient base data, e.g. allergy' (with an 'Alert' button highlighted by a red box); 'Consultation History' (also highlighted by a red box) showing a table with columns 'Filter by' (set to 'Attending Reason'), 'Appt. Date', and 'Attending Reason'; a note area with 'Assessment' and 'Note' sections (the 'Note' section has 'Clinical Notes' and a rich text editor); a 'Diagnosis' section with 'Attending Reason' (listing 'Diagnosis' and 'Upper respiratory tract infection' with a checked checkbox); and a 'Chronic Problem' table. Buttons at the bottom include Save, SignOff, UnSign, Print, and Close.

Patient base data, e.g. allergy

Alert

Consultation History

Filter by: Attending Reason

Appt. Date Attending Reason

No Previous Consultation History

Viewing of history record

Assessment

Note

Clinical Notes Choose a Note Template

Arial

Fever x 3 days
No SOB

Diagnosis

Attending Reason

Diagnosis

Upper respiratory tract infection

Chronic Problem

DX Date Diagnosis Status

Save SignOff UnSign Print Close

Support consultation operation:

1. Consultation documentation
2. Medication order
3. Simple billing
4. Letter writing
5. Attachment (e.g. clinical photo)

Drug dispensing

Screenshot of a medical software interface for drug dispensing:

User navigation bar: Queue, Registration, Appointment, Assessment, Consultation, Dispensary, Inventory, Report, Administration, Chan Tai Man, Logout.

Patient details: Name: CHAN, KA KA, Doc no: HN23523423 (OP), DOB: 01-Apr-1980, Age: 32 years, Sex: F.

Dispensary section:

- Responsible Doctor: Chan Tai Man
- Alert button
- Smoking: Unknown, Drinking: Unknown

Prescription section:

- Prescription button, Print Labels (Traditional Chinese) dropdown, Preview, Print Drug Label, Print Prescription Form.
- Drug checkbox selected.
- Panadol Extend (paracetamol) 665 mg modified-release tablet: 1 tablet — oral — daily — 3 Day — total 3 tablet. Dispense in clinic.
- Nexium (esomeprazole (as magnesium)) 20 mg tablet: 1 tablet — oral — daily — 3 Day — total 3 tablet. Dispense in clinic.

Billing section:

- Billing button, Print button.
- Table columns: Item, Standard (\$), Discount/Premium(%), Billed (\$), Remarks.

Payment Method section:

- Payment Method button, Print button.
- Table columns: Payment Date, Payment Type, Amount(\$), Remarks.

A blue callout bubble points to the "Print Drug Label" button in the Prescription section, containing the text: "Provide label printing function to facilitate drug dispensing process".

Final product features highlight

- Drug Allergy Checking Function
- Immunization Record
- Drawing & Charting
- Interfacing for other Government e-Health projects
 - CENO and EHS
 - PPP (Public Private Partnership) Program
- eHR Interoperability
 - eHR PMI Standard
 - eHR Viewer / Inbox
 - eHR Connectivity / Data upload and download
 - E-referral

Development / Deployment progress

CMS Adaptation (Hospital)	CMS On-ramp (Clinic)
<ul style="list-style-type: none">• 3 private hospitals – Live run the Structured Alert module• 6 private hospitals - Preparation in progress• 3rd batch modules to be ready for deployment in 1Q2013	<ul style="list-style-type: none">• 9 private clinics – live run the system pilot version• 2 private clinics / group practice – preparation in progress• Final version to be ready for deployment in 4Q2013

As in Jan 2013



Thank you