

### Medical records: Past & Future

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# The Computerized Patient Record



Institute of Medicine

### EHR: A Global Trend

#### UK

NHS £12.4 billion programme to computerize the NHS

#### Canada

Health Infoway investment total cost expected CAD 10-12 billion

#### AUSTRALIA

Over A\$1B in state initiatives

#### USA

Kaiser Permanente invested US\$4 billion in electronic patient record project



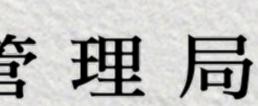
## Healthcare Services in Hong Kong

Public

Private

Chinese Medicine

Population Impatientiality Care • 13 Private Hospitals 94500 Doctors in H PA500@Dectors in p

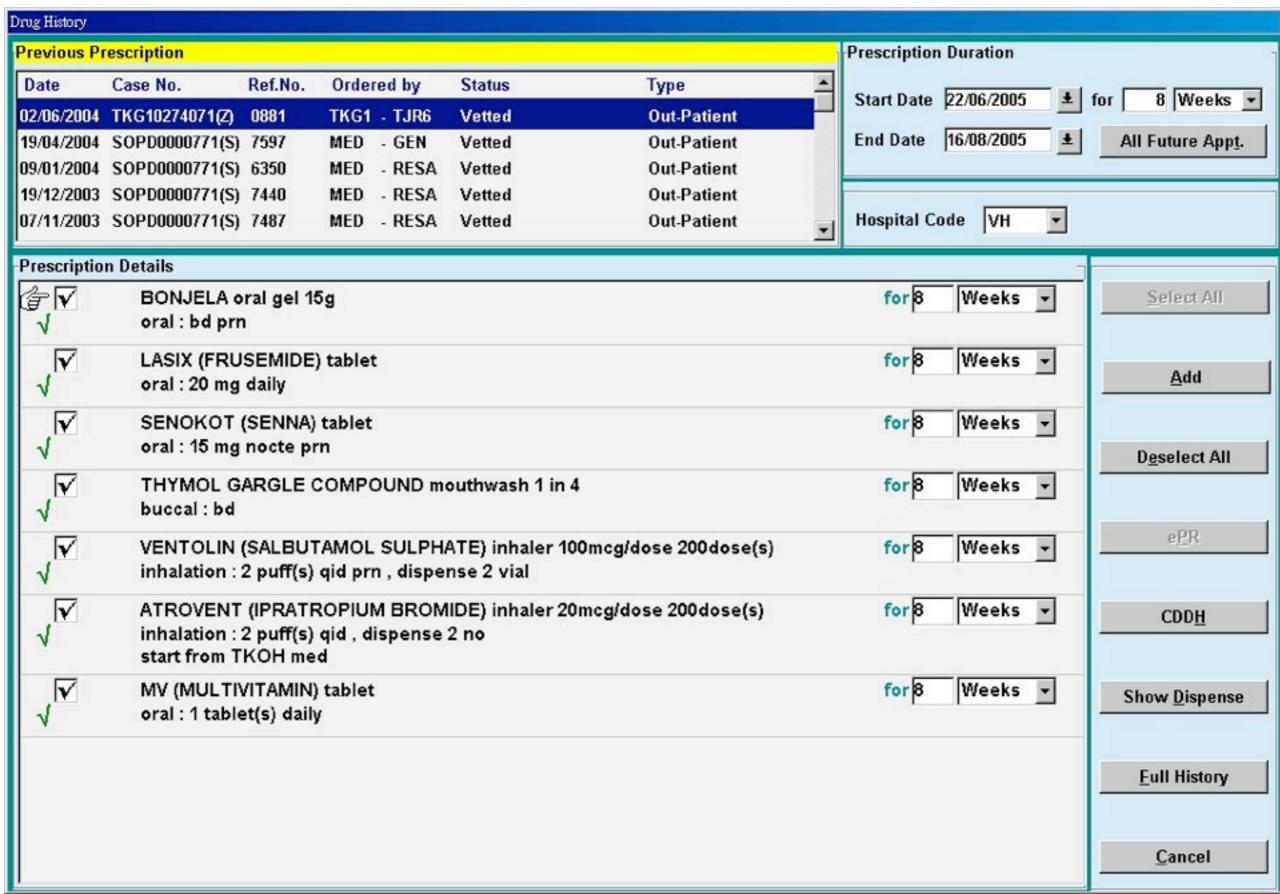


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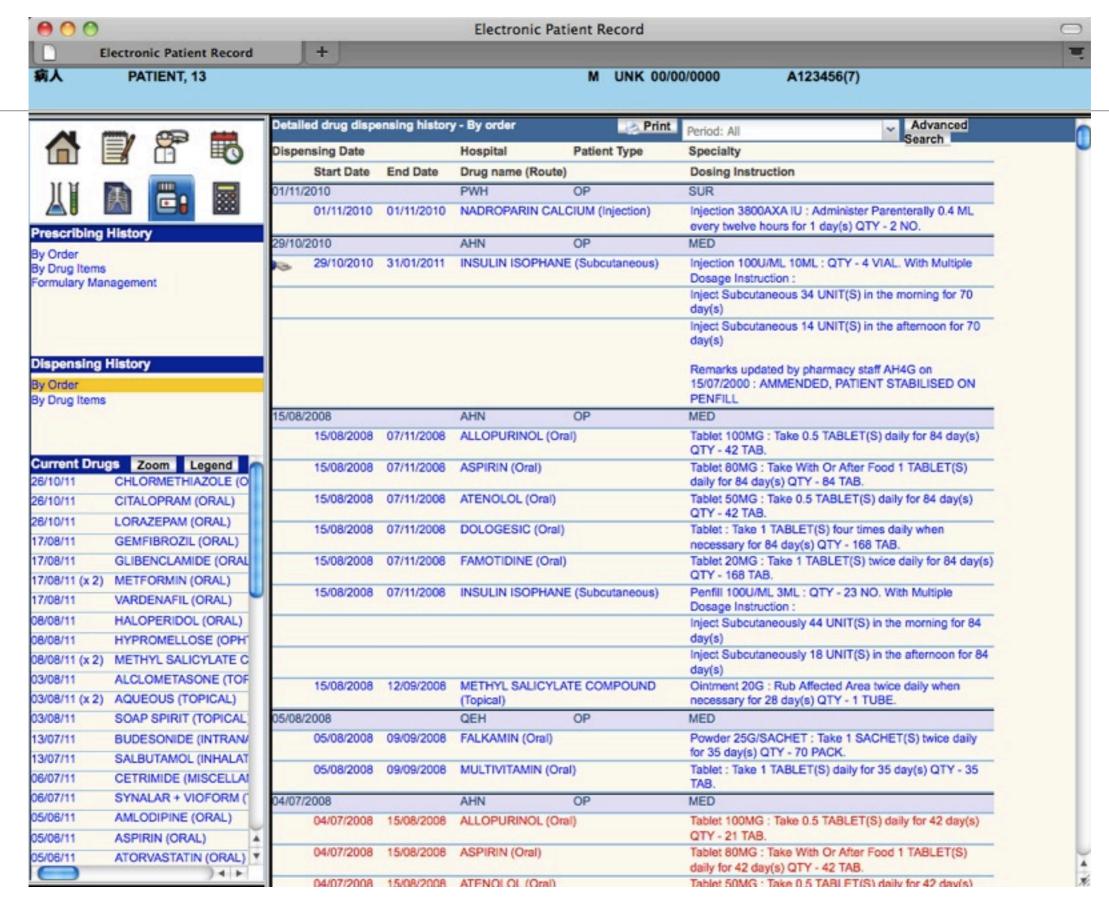
#### Development in the HA -A long journey

- →1990 "Green fields"
- →1991 Patient Administration
- ★1992 Pharmacy system
- →1993 Lab results online
- →1994 Radiology information system
- →1995 Clinical Management System
  - Direct clinician documentation and order entry
- →2000 CMS Phase II
  - Electronic Patient Record (ePR)
- **→2003** eSARS
- →2004 ePR Image Distribution
- →2006 PPI-ePR sharing with private sector
- **→2008** Filmless HA
- **→2009** CMS III and eHR

#### Drug ordering

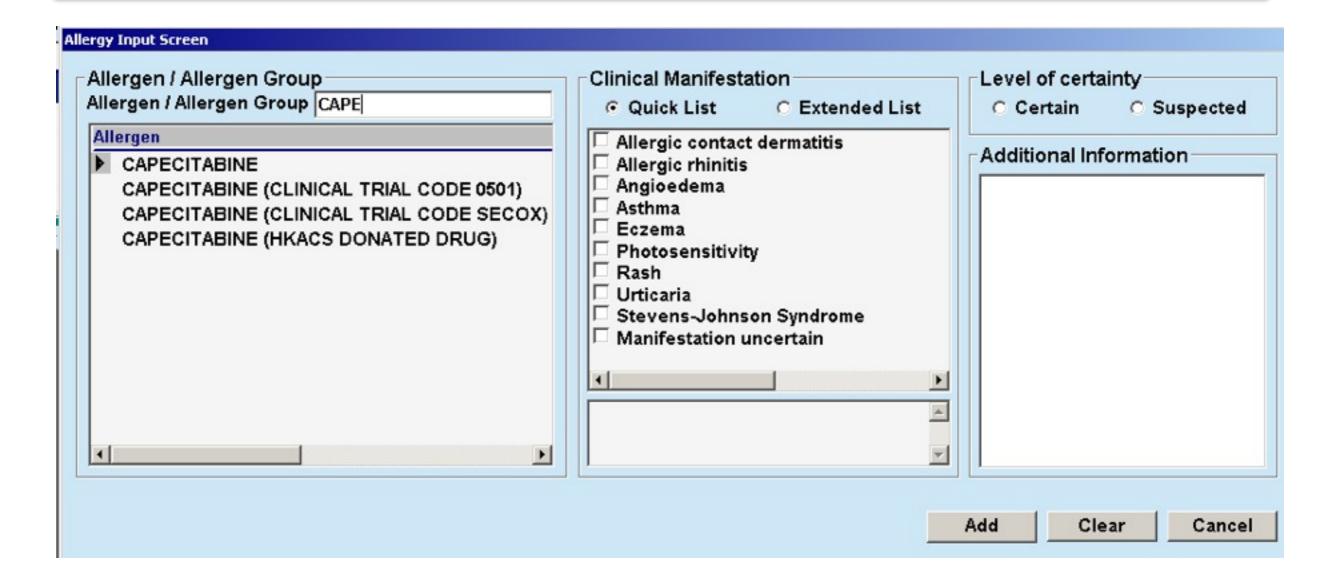


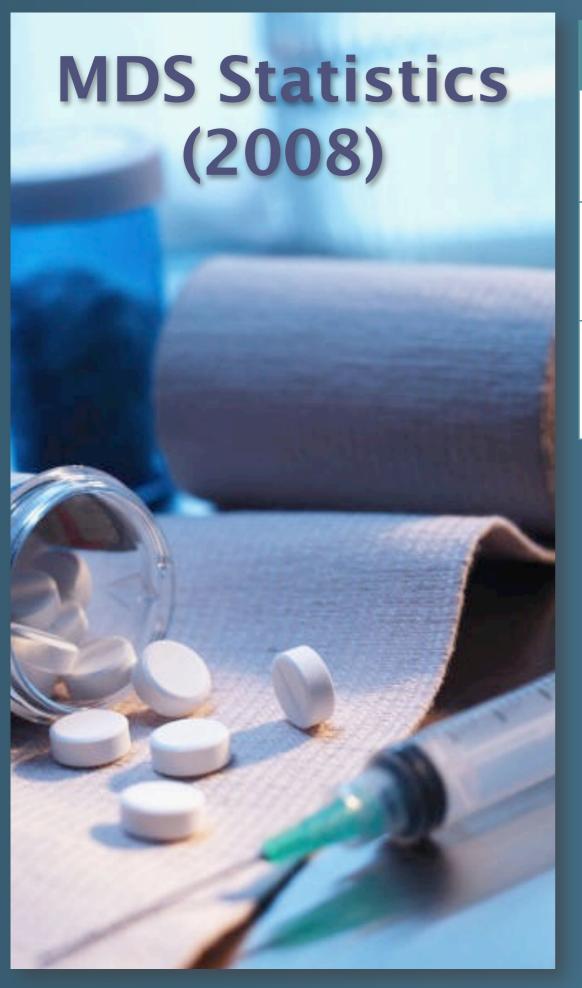
#### ePR (Drugs History)



## Allergen list

- HA allergen list
  - to support decision support (Drug allergy/ interaction)

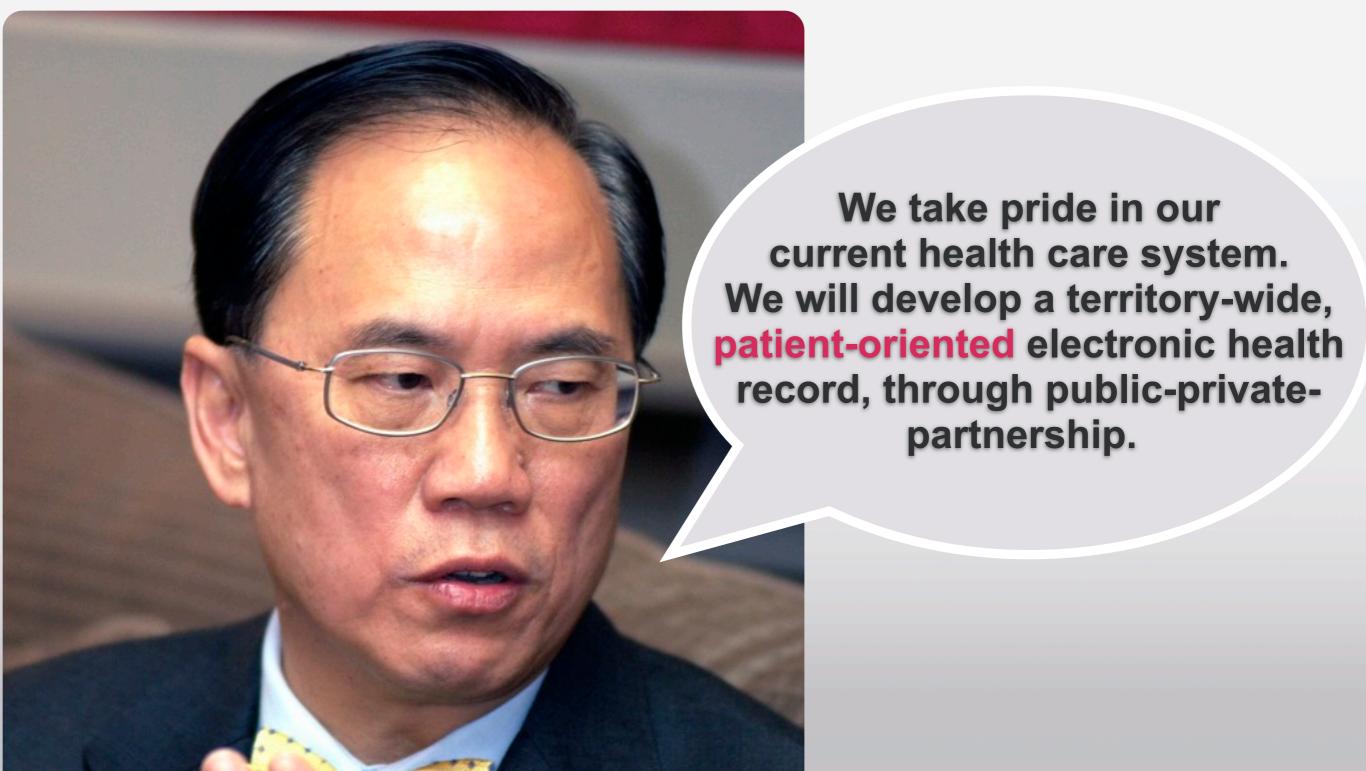




Drug Allergy Checking	
Drug Allergy Alerts Raised	68,790
Alert Accepted	32,102
	(47%)
Alert Overridden	36,688
	(53%)

#### Drug Drug Interaction Checking

10,975	DDI Alerts Raised
3881	Alert Accepted
(35%)	
7094	Alert Overridden
(65%)	



Sir Donald Tsang, CE, HKSAR Policy Address 2007

#### eHR - An essential health infrastructure



Family doctor concept; integrated primary and hospital care



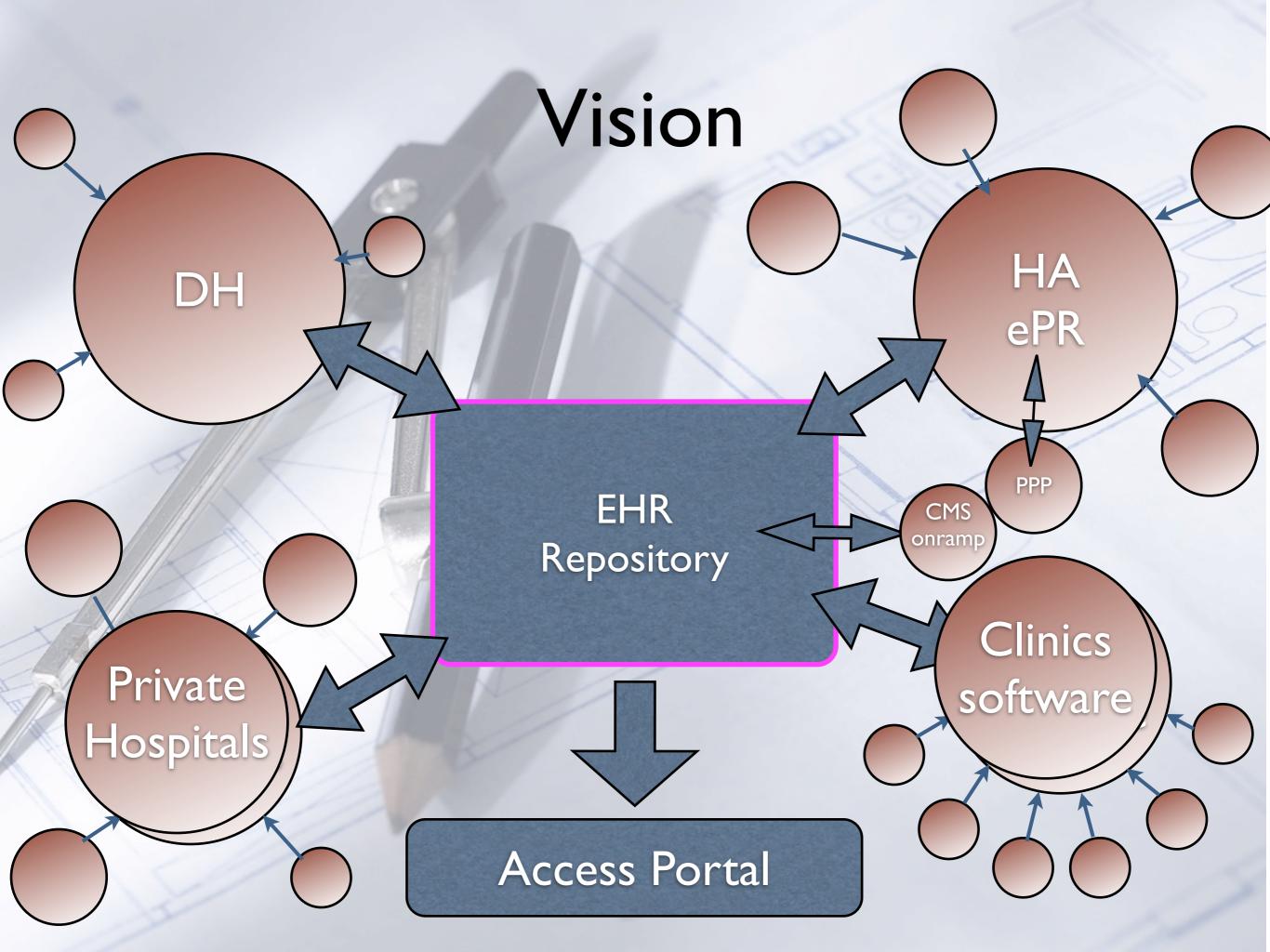
Public-private interface and partnership



**Electronic Health Records Sharing Infrastructure** 

# Guiding principles of eHR development

- 1. Government-led model
- 2. Compelling But Not Compulsory Record Sharing
- 3. Privacy and Security of Paramount Importance
- 4. Open Technical Standards
- 5. Building Block Approach



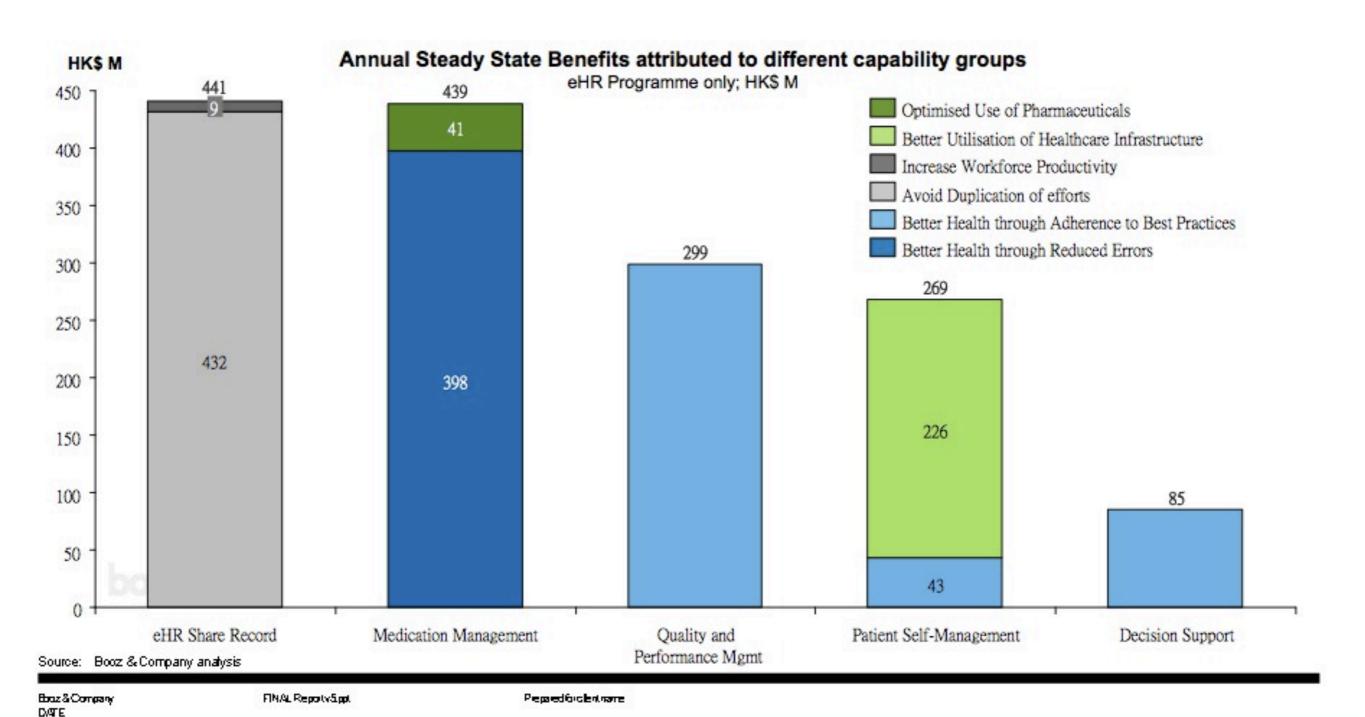
## 3 eHR workstreams

- eHR Infrastructure
  - Building the core infrastructure for records sharing
- CMS extensions
  - Making HA's eMR technology available to the private sector
- Standards
  - Enable interoperable medical records sharing and decision support

## Major Milestones

Year	Hospitals	Clinics	Ancillary		
2009	Radiological image sharing with private hospitals Integration of Healthcare Voucher scheme with el-				
2010	Pilot use of Sm auther	Laboratory sharing			
2011	CMS adaptation basic modules	Public consultation			
2012	Begin patient enrollment	CMS on ramp	HK Drug table		
2013	Shared records in Doctor Portal				

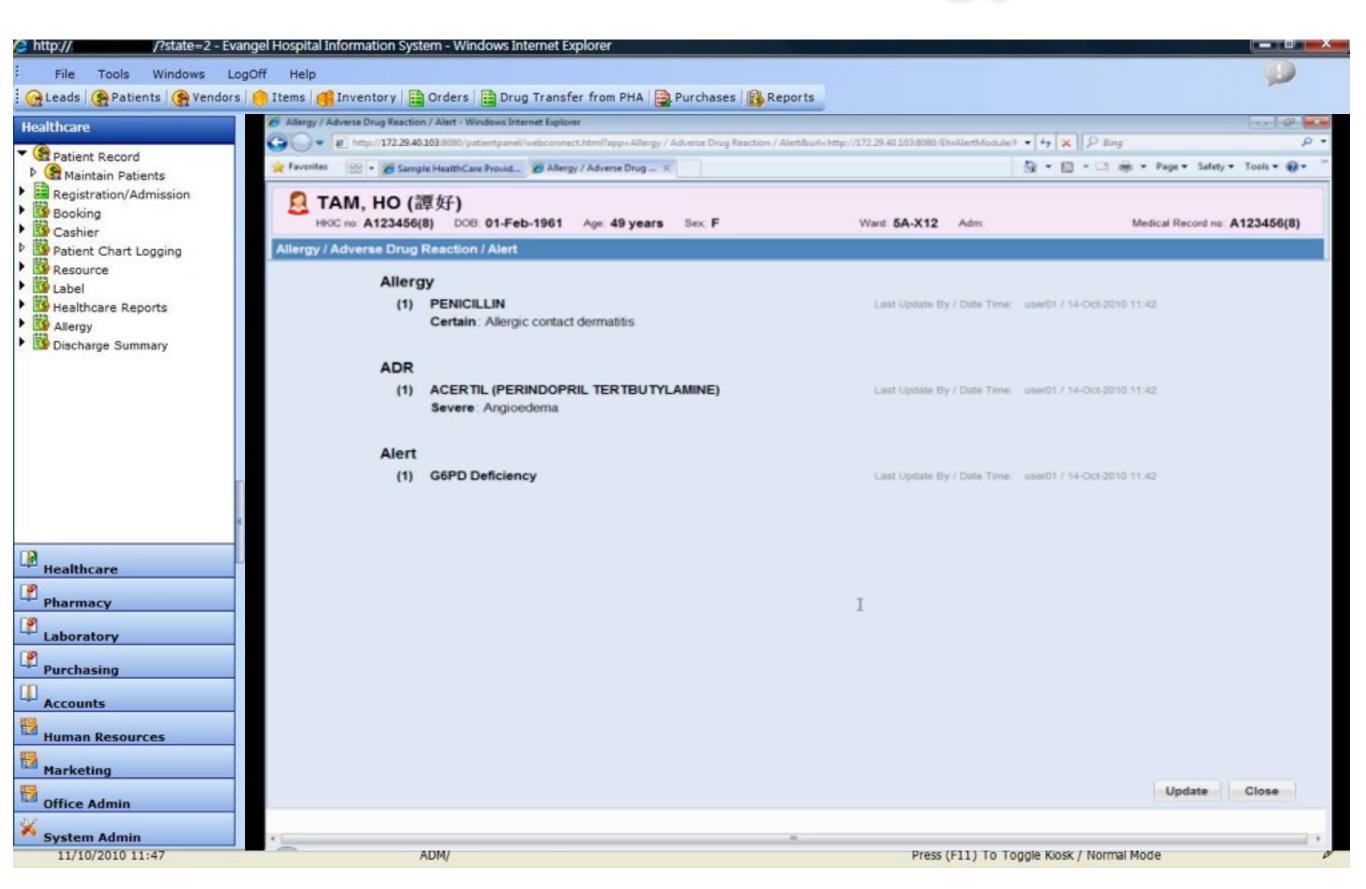
## According to the Benefits Model, eHR Shared Record and Medication Management capabilities should be prioritised



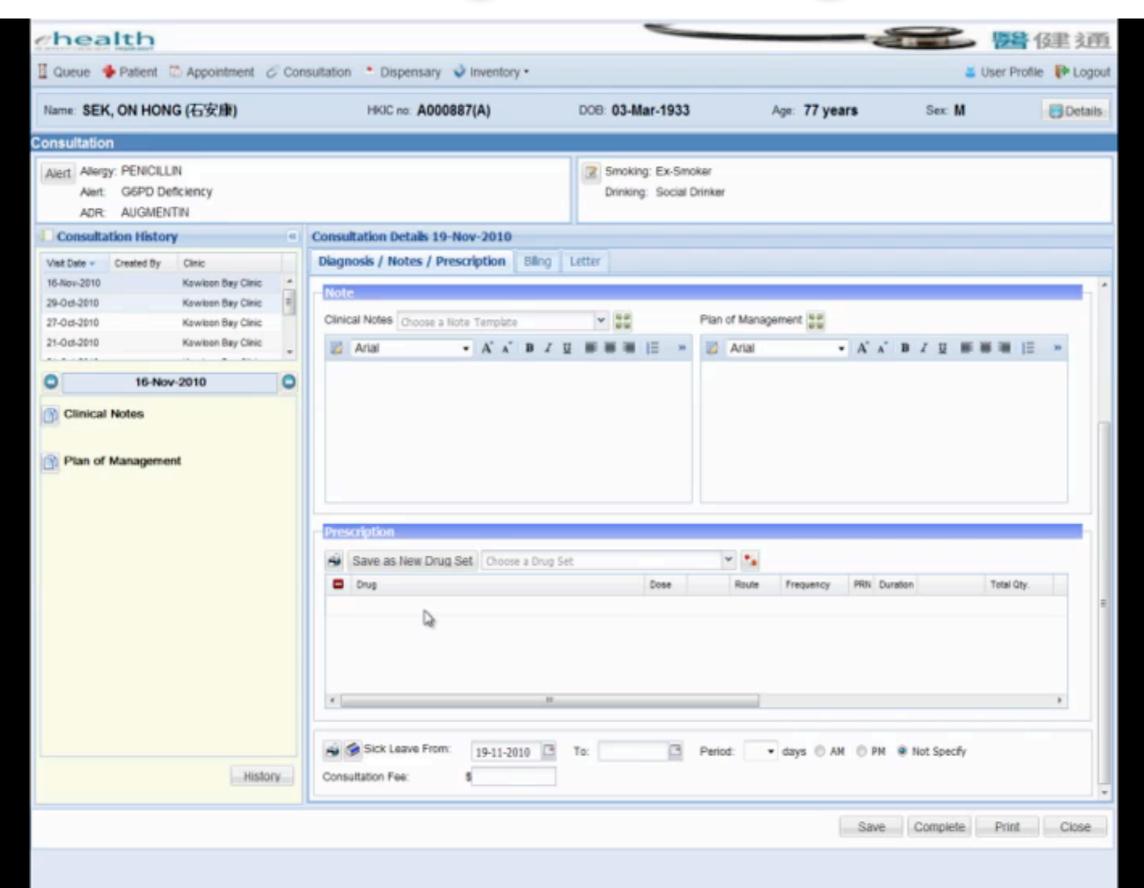
#### Building Blocks for Patient safety



## Structured Allergy



# Drug ordering



## Summary

- Medication management is one of the key benefits of the eHR
- The HK Drug Table is being built to improve patient safety and enhance improve drug related functions
- The HK-wide eHR is a major health initiative requiring the partnership of the healthcare and IT sectors