Standards Development for Hong Kong eHR

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Discussion

- Introduction
- Standards for eHR
- Implementation of eHR standards

Value of Standardisation

- Ensure accurate interpretation of health data by all parties
- Support reuse of data
- Facilitate interoperability of systems for data captured at different platforms
- Avoid duplicated efforts in data entry through data sharing
- Improve efficiency of healthcare services
 - Avoid duplicated investigations
- Assist in protection of public health



Benefits

- Better quality of healthcare
- Improved outcomes
- Reduced errors
- Improved efficiency
- Reduced costs



Benefits

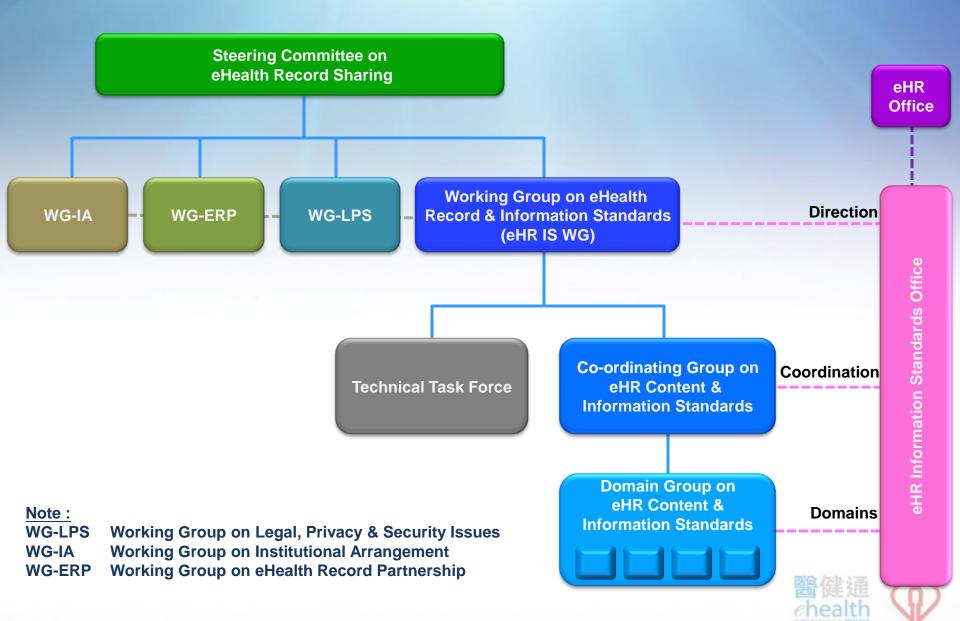
In USA, a nationwide standardized electronic health records infrastructure would save US\$77billion annually

Harvard Medical School, 19 Jan 2005

In Australia, implementation of fully standardized interoperable health information exchange transactions would have total net saving at over \$2 billion annually or 4.1% of the expenditure by Australian Governments on healthcare

Sprivulis, P., Walker, J., Johnston, D., Pan, E., Adler-Milstein, J., Middleton, B., Bates, D.W., 2005,

Organisation Structure for eHR Information Standards



Standards Management

- Reference to/adopt available international/ local standards to increase acceptability
 - Contribute to development of international standards
- Multiple implementation paths to encourage participation
- Outcome comes first for smooth implementation
 - Onramp, Adaptation, eHR viewer
- Transparent process to facilitate adoption
 - Engagement, training, publication, discussion forum
- Ongoing maintenance to keep abreast of medical science and technology evolvement



Standards for eHR

- Identification
 - HKID
 - Professional list from registration boards / councils
 - Address data infrastructure
 - ISO 10646
- eHR content
 - ASTM
 - Hospital Authority
- Terminology
 - ICD 10, ICPC2, SNOMED CT, LOINC
 - Compendium of Pharmaceutical Products
 - Hospital Authority Clinical Vocabulary Table
- Messaging
 - HL7



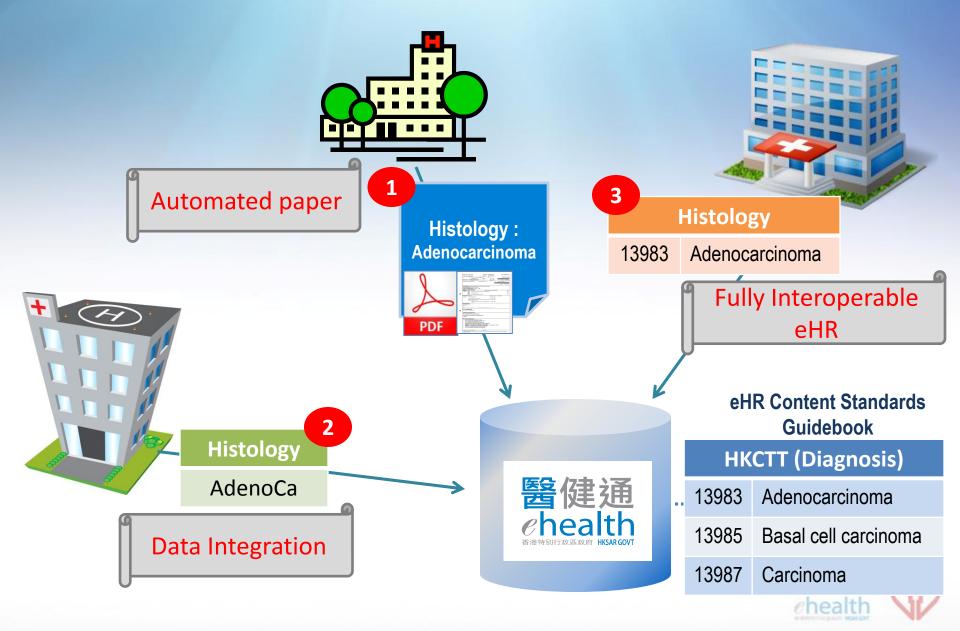


Recognised Terminologies for eHR

	Problems	Procedure	Laboratory	Drug	Vaccine
НКСТТ	Υ	Υ	Υ	Υ	Υ
SNOMED CT	Υ	Υ	Υ	Υ	Υ
ICPC 2	Υ				
ICD 10	Υ				
LOINC			Υ		
СРР				Υ	Υ



Adenocarcinoma

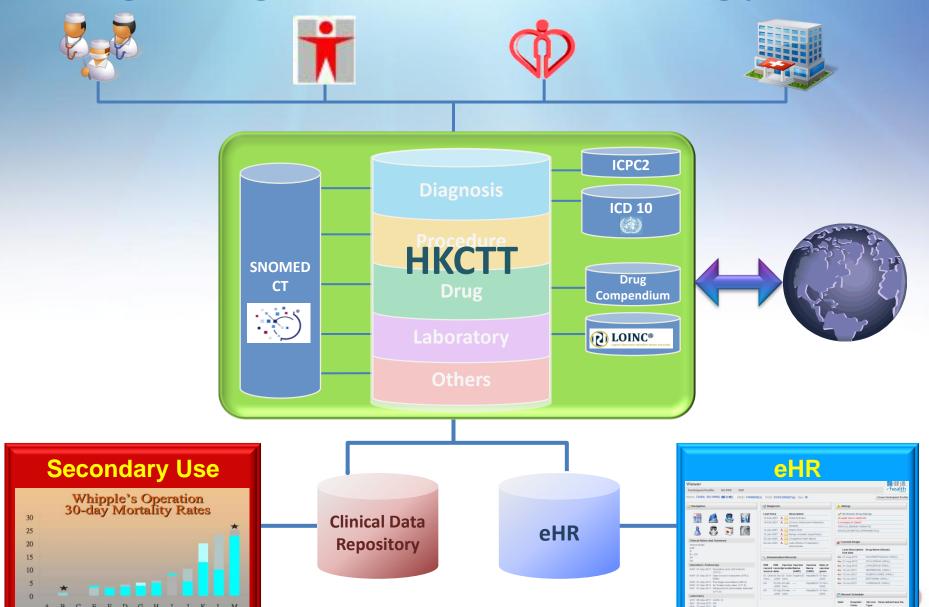


Lab Test in eHR

Date	Provider	Description	Result	Unit	Code	System
5 May 2001	Hospital C	Glucose, Random	6.0	mmol/L	14749-6	LOINC
6 Jun 2006	Dr Wong	Random Glucose	8.6	mmol/L	67483	НКСТТ
6 Jun 2005	Dr Wong	Total Cholesterol	6.4	mmol/L	14647-2	LOINC
9 Sep 2002	Dr Ho	Spot Glucose	126	mg/dL	GLU	Ho's List



Hong Kong Clinical Terminology Table



Phased Approach Implementation

eHR Content	Level 1	Level 2	Level 3
Person			
Healthcare practitioner			
Encounters			
Referral			
Episode summary			
Adverse reactions / allergies			
Problems			
Procedures			
Assessment / physical exam			
Social history			
Past medical history			
Family history	Cartification		
Medication	Certificatio	1	
Immunization			
Clinical requests			
Diagnostic test results			
Care & treatment plan			医分/法 二
			西陸地()

Key:

Phase 1

Phase 2

Phase 3

Phase 4

Phase 5



eHR Information Standards

http://www.ehealth.gov.hk/en/information_standards/information_standards_documents.html



eHealth Record Office

The Government of the Hong Kong Special Administrative Region



GOVHK香港政府一站通

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eHR Information Standards Document

eHR Information Standards Document

Compiled for the pilot use of the eHealth information standard development, these documents will be revised from time to time. You are welcome to send your comment on these documents to us at eHR@fhb.gov.hk.

eHR Content Standards Guidebook

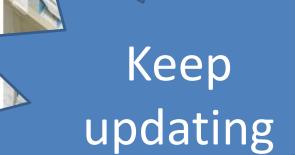
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This document defines the content of, and the information standards set out for the Hong Kong eHR.

- Appendix I eHR Contents UPDATE
- Appendix II eHR Codex UPDATE

eHR Data Interoperability Standards

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Thank You





