

Information Technology Committee ~ Dr. HO Chung Ping, MH

After a tripartite contract was signed among the HKMA, ISIA and Mobigator on July 28, a project team meeting was held on September 9 to confirm the clinic workflow and other modules of the Clinical Management System (CMS 3.0).

The basic clinic workflow was agreed to be Registration ⇄ Queue ⇄ Consultation ⇄ Dispensary ⇄ Billing. Multiple fields (i.e. Hong Kong Identity Card (HKID) number, address and date of birth) would be used as patient identifier and the system would allow holding a record while making another consultation in the queue.

The address structure would follow the "Common Schema of Address" format of the Government, which would serve a foundation stone to link with the future eHR.

Since annual subscription fee was required for the First Databank, members decided to recruit volunteers to work on a simple version of the drug-drug interaction database, CMS 3.0 would be made to show allergic history only.

Having noted that the degree of data encryption would cause performance penalty and the encrypted data would not be searchable, members decided to perform whole database encryption, if it was provided by the latest MySQL. Application accounts would be set up with different access levels and individual record lock would be allowed. It was agreed that the security level of each account would be controlled by Secure Socket Layer (SSL) Certificate. The sub-workflow chart would be provided later.

A depersonalized database with patients' names washed was sent to the Mobigator for testing data migration from other readily available clinical management software.

Members had created a wish list for add-on in the future generations of CMS. Favorable items include:

- To make clinic procedures (e.g. dialysis) an individual episode of event, or to make it part of the consultation by adding a tag in the consultation page to include the procedure code as a data field;
- To add 2 buttons at the corner of the "consultation" page to show related telephone numbers and related addresses (address of the same building, same floor and same flat) so that related consultation could be shown for viewing for matching records. That would be useful in identifying the consultation history of the related persons (e.g. family members);
- To integrate external systems (e.g. winfax) into CMS3.0 to facilitate data interfacing;
- To enable exporting record for review out of office, which would involve restructuring of the data architecture;
- To enable auto-matching the address with the Hospital Authority or Hong Kong Police Force address database on typing the first word

It was anticipated that the alpha testing would be launched in October/November 2008. The alpha community would be restricted to 6-8 HKMA IT Committee members and would be performed in groups of 2; detailed plan would be discussed in the next meeting. The ISIA would help to review the technical aspects and payment would be made after system analysis. The CMS development would complete in April 2009 and the committee would start the marketing activities in May 2009.



To have a final view of the contract to develop CMS 3.0



Tripartite contract signed by (from left) Clifford TSE of Mobigator, TSE Hung Hing of HKMA and Aldous NG of ISIA