Easy access to Electronic Health Record Sharing System (eHRSS) via Clinical Management System (CMS) Extension On-ramp system by Hong Kong healthcare providers in private sectors

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Introduction

Electronic Health Record Sharing System (eHRSS) provides a platform, with patient's consent, for healthcare providers in both the public and private sectors to maintain, upload and view the health record for patients. To facilitate healthcare providers in private sectors to access to eHRSS and share sharable data, the Hong Kong government developed the CMS extension component called the CMS On-ramp (an all in a glance clinical management system) for the private healthcare sectors to deploy.

Methodology

The connectivity for accessing to eHRSS via Clinical Management System (CMS) On-ramp system and other modes of connection were reviewed. eHR standards for data upload via CMS On-ramp was also reviewed.

Result and Discussion

Many healthcare providers in private sectors are currently using various kinds of clinical systems available in the market. However these systems may not support the input of data in a structured format or simply in free text nature. Data upload to eHRSS should be based on pre-defined technical and eHR standards (within the sharable data scope). CMS On-ramp facilitates the healthcare providers to input Allergy, Diagnosis/ Procedure, Medication Order Entry via a structured list behind the system. This facilitates them to share standardized data (within the sharable data scope) to the eHRSS easily.

Majority healthcare providers who are using other clinical systems, it is needed to switch to another browser when accessing to the eHRSS. The user interface design for CMS On-ramp allows users to build consent and access to eHRSS in the same browser as the CMS On-ramp. The build consent procedure can be simply done in the registration function of the system. During consultation, user can access to the eHRSS via the same system such that select patient and switch between browsers are not needed. It decreased the risk for accessing the wrong patient record and minimized the errors.

<u>Conclusion</u>

Using CMS On-ramp can facilitate healthcare providers in private sectors to input standardized record easily. These data are in eHR standard. CMS On-ramp also facilitates easy access to the eHRSS which help to minimize clinical errors.