# Functional Design of Personal Health Record Mobile Application facilitating Patient Reported Immunization Records

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## Background

The Hong Kong Government intends to extend the sharing of clinical information from eHealth Record Sharing System to its citizens via a Personal Health Record (PHR) mobile application. Through the mobile application, citizen will be able to access the immunisation records available on eHRSS as well as contribute immunisation records to the eHRSS for a more complete immunisation history and to facilitate sharing with healthcare providers.

## Objective

The objective of this study to examine the functional design of a    PHR mobile application that is necessary to encourage, empower and engage citizens to report their own immunisation records easily, considering the bilingual characteristics of the population and health literacy.

## Methodology

The functional design will be examined through analysis of data requirement, user interface and mobile application functionalities, with the consideration that Hong Kong citizens and their healthcare providers are mainly using different languages, Chinese and English respectively, for reporting immunisation records.

## Result and Conclusion

While provision of bilingual clinical information is essential in the mobile application design, it is also important to consider the common terms that the citizens are familiar with. When developing the User Interface and functionality, it is necessary to consider citizens of different age group/ with different health literacy who may have difficulty in entering a structured text record. Leveraging on smartphone functions such as barcode scanning and photo taking, it is possible for general public to report immunisation information in a convenient manner and with higher accuracy.