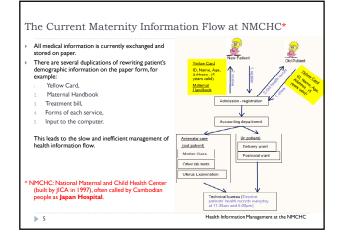


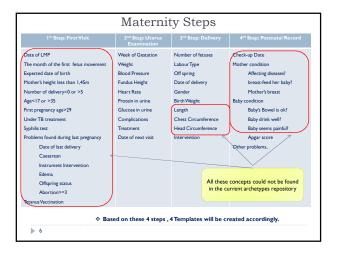
## Objectives of the Research Study

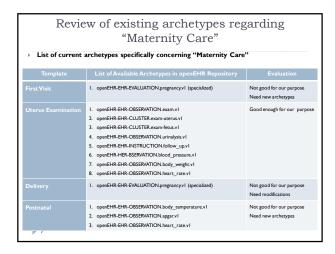
- To identify the flow of medical information regarding maternity care. A case study is done at the National Maternal and Child Health Center (NMCHC) in Phnom Penh;
- ▶ To identify the issues and challenges in developing EHRs;
- To design and provide an openEHR based Maternity care EHR
- ▶ To identify problems if EHRs have to be adopted in the hospital;
- and finally, to set a clue if maternity EHRs will replace maternal handbook.

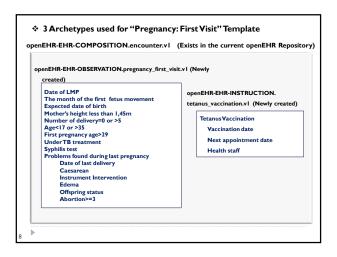
## The Maternity Care Status in Cambodia

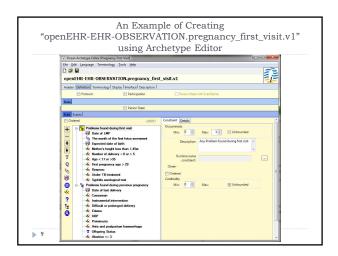
- Population: 15 million, roughly 20% of total population living in capital city, Phnom Penh
- Annual population growth: 1.8%
- Total fertility rate: 3.3
- Every year more than 2,000 women die of maternity-related complications
- Over half of mothers do not receive any health care during their pregnancy.
- There are significant regional differences in antenatal care:
- 84% of expectant mothers in Phnom Penh come to health care facilities
  Out of Phnom Penh, the proportion of births delivered in health facilities is low in
  all regions (14% or less). 66% of childbirths are assisted by traditional birth
  attendants (TBAs).
- The current maternity medical record system is paper based.

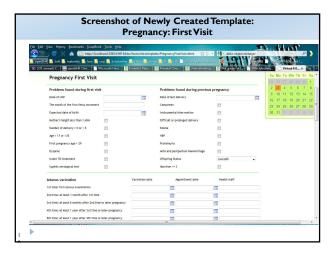


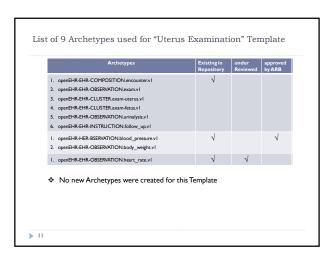


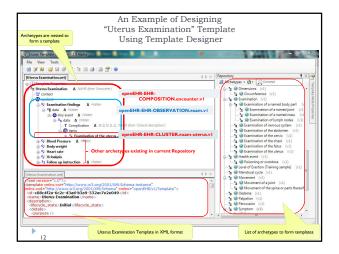


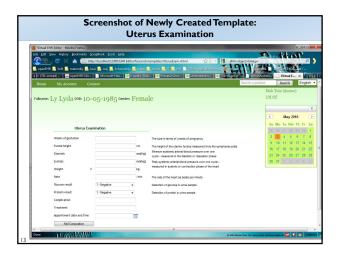


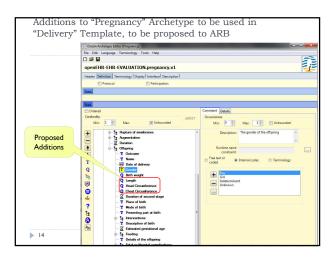


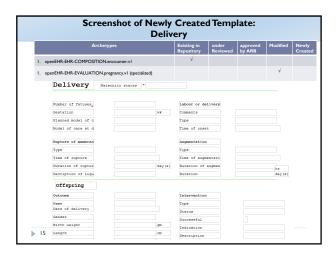


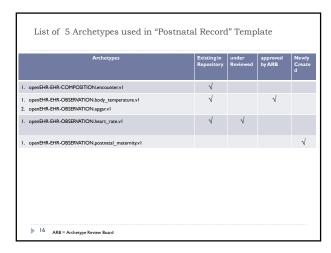


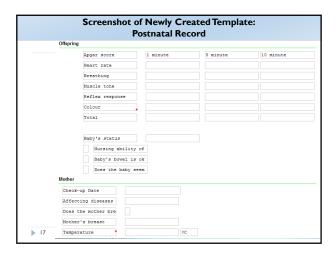




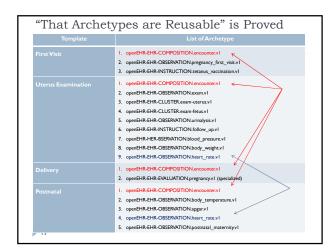


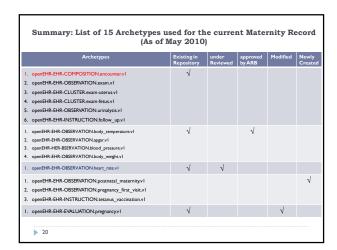












## Further Activities To Develop Maternity EHR System in Cambodia: Do experiment of openEHR based Maternity Record System at Japan Hospital, as the first step To Contribute to openEHR Community: Join Archetype discussion on openEHR Clinical Knowledge Manager: <a href="http://www.openehr.org/knowledge/">http://www.openehr.org/knowledge/</a> Submit newly created archetypes to CKM for review by ARB Create new templates and submit to CKM for reference Help review the current draft archetypes and templates

Conclusion

Merits

Archetypes and templates illustrated above show a strong basis for developing EHR.

As the archetypes and templates can be easily created, those new needed templates can be added to the existing EHR System in the future.

The feedback from the experiment at Japan Hospital, will help improve the quality of existing templates, or create new templates, if needed.

As the Japan Hospital is a National hospital specializing in obstetrics-gynecology, the positive feedback from this hospital will also have influence on other public and private hospitals to introduce the openEHR based maternity EHR System to their hospitals

Issues for further study

The level of lab tests in maternity care may be different based on the available resources of each hospital or health center.

Therefore, the four above created templates may not be sufficient to serve other maternity hospitals or health centers