

Mobile Software Engineering for Reproductive Health Services

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The objective of the seminar is to present the project NAS-USAID PEER 7-246 titled "Facilitating access to reproductive health services for refugee women in Morocco ". The objective of this project is to institute comprehensive reproductive health services including contraception, prenatal/obstetric and postpartum care services. The project will develop and evaluate a complete Information and Communication Technology-based solution to improve the quality of reproductive health services, which comprises a pregnancy monitoring mobile Personal Health Records (mPHR), an Electronic Health Records (EHR), a gamified contraception app, and a gamified postpartum app. In this pilot study, 50 pregnant and 20 non-pregnant women will use and assess the mPHR and the contraception and postpartum apps respectively while five gynecologists will use and evaluate the EHR.

The primary outcome measure is twofold and lies in: 1) the potential of the proposed Information and Communication Technology based solution in improving access to reproductive health services; the potential is the compliance of the participants in terms of rating scores with the EHR, contraception and postnatal apps along with the mPHR for pregnancy monitoring; and 2) the core quality characteristics to be implemented in an ICT-based reproductive health solution to improve its usability and usefulness. The core quality characteristics will be determined by means of regression formulae associating the quality characteristics of the standards ISO 25010 and the participants' rating scores.