**Program/Project Purpose:** Recent epidemics in Africa and natural disasters across the world have shown the challenging aspects of handling additional burdens on health care facilities in a resource-constrained environment. There is a need for technology innovation to address global health infrastructure limitations. The implementation of a mobile facility engineered with a smart monitoring system allows for rapid augmentation of medical resources to meet increased medical needs in these settings.

**Structure/Method/Design:** In conjunction with custom-developed patient tracking software and a video interfacing system, we conducted a proof of concept study validating a smart monitoring system in the emergency smart pod in Houston, Texas. The system also incorporated wireless, multiparametric patient sensors that allowed continuous vital sign monitoring and transmission connected to the wireless patient monitoring system. The patient cohort participated in three different scenarios (emergency response, critical care, and triage) and were monitored for different time spans according to their needs. Incremental data analytic assessment was used to provide onsite staff with enhanced clinical educational support and ensure efficient use of the wireless smart pod system.

**Outcome & Evaluation:** During the 3-week study period, all eligible subjects \((n=20)\) admitted to the emergency smart pod were enrolled in the study, generating a total of 21.7 hours \((1.08 \text{ hours/patient})\) of periodic vital sign data (including heart rate, blood pressure, and respiratory rate), heart rate variability monitoring, and heart waveform analysis. Remote communication with off-site physicians allowed for expanded care and real-time feedback. All patients tolerated the sensor monitoring without problems, with manually determined and automated vital signs well correlated with one another. This study showed that a smart monitoring system in a mobile facility is instrumental in addressing patient needs in a range of emergency crisis and disaster situations. Feedback was provided to collaborators to support smart monitoring system improvement.

**Going Forward:** Additional validation phases will incorporate modeling of interactions of multiple mobile facility units and field testing in a healthcare resource-constrained location to be determined.

**Source of Funding:** Paul G. Allen Family Foundation USAID Ebola Grand Challenge.

**Abstract #:** 1.075_HHR

**An Assessment Toolkit for Measuring Outcomes in Nursing Study Abroad Programs**

**S. Kirby:** University of Utah, Salt Lake City, UT, USA

**Background:** International experiences and study abroad have become a common type of experiential learning in higher education, including nursing. However, a lack of outcomes measures in nursing study abroad programs, particularly from validated and reliable tools, has been identified in the literature. This poster is the result of a Doctor of Nursing Practice project to develop a toolkit that may be used to measure outcomes in nursing study abroad.

**Methods:** Outcomes from nursing study abroad programs were identified in the literature. Validated, reliable tools to measure these outcomes were identified through further search, and through an online survey sent to study abroad directors at randomly selected colleges of nursing that have membership in CUGH.

**Findings:** Tools were identified for many of the identified outcomes. Those that are available for use along with cost, means of obtaining permission, and psychometric data were incorporated into a toolkit for use by nursing study abroad directors.

**Interpretation:** Validated and reliable tools are available for many of the identified outcomes in nursing study abroad. These may be utilized to meet the identified need for outcomes measures in nursing study abroad programs.

**Source of Funding:** None.

**Abstract #:** 1.076_HHR

**Factors Influencing Retention, Job Satisfaction, and Motivation among Jordanian Health Workers**

M. Dieleman1, E. Klein2; 1HRH2030/KIT, Washington, District of Columbia, USA, 2HRH2030, Washington, USA

**Program/Project Purpose:** In Jordan, about 3.78 million people, including refugees and marginalized populations, living in remote areas rely on Ministry of Health (MoH) services. The MoH’s 2013-2017 strategic plan lists retention of staff and attracting new talent into the public health system as two of its biggest challenges. USAID’s HRH2030 program performed a national level research study to identify factors influencing retention, job satisfaction, and motivation among doctors, nurses, and midwives within MoH health facilities and to provide evidence-based recommendations to support the MoH in formulating policies to improve staff retention and recruitment.

**Structure/Method/Design:** HRH2030 used an exploratory, mixed methods design combining both quantitative (questionnaires and a validated tool) and qualitative (semi-structured interviews and focus group discussions) data collection techniques. The study approached 1,565 health workers in 67 primary health centers, 31 comprehensive health centers, and five hospitals across the four governorates of Irbid, Ma’an, Zarqa, and Amman.

**Quantitative data analysis:** Responses to individual questions were described and analyzed using frequency distributions, mean, and median scores. Multivariate regression analysis was performed to test the association and contribution of different factors to motivation and satisfaction. Data were disaggregated by cadre, facility type, governorate, and gender.

**Qualitative data analysis:** Responses were analyzed per group of respondents and by research question, using a framework approach based on the research questions and leading issues in the topic guides. We added new items emerging from the interviews and focus group discussions. Answers between and within groups were compared and contrasted, paying particular attention to differences between cadres and genders.

**Outcome & Evaluation:** The study found that the top satisfaction factors were patient appreciation, interpersonal relations with colleagues and manager, and working arrangements. The most frequently dissatisfying element was insufficient financial incentives,