I. Demographic Information

1. City & State
Juba, Central Equatoria, Republic of South Sudan

2. Organization:
Real Medicine Foundation, South Sudan (www.realmedicinefoundation.org).

3. Project Title:
Juba Teaching Hospital: Health Systems Strengthening

4. Reporting Period:
January 1 – March 31, 2016

5. Project Location (region & city/town/village):
Juba Teaching Hospital, Juba County, Central Equatoria State, Republic of South Sudan

6. Target Population:
Direct project beneficiaries are approximately 444,680 people living in Juba and the immediate surrounding areas, projected from the 2008 South Sudan Population and Housing Census. Including referrals from South Sudan’s 10 states, the hospital serves the country population of 9.86 million indirectly.

II. Project Information

7. Project Goals:
To improve the quality and sustainability of medical and surgical services provided at Juba Teaching Hospital (JTH).

Juba Teaching Hospital is the only national referral hospital in the whole country of South Sudan and is located in the capital city of Juba, Central Equatoria State. With an estimated population of 9.86 million (based on annual population growth of 3% from a population census conducted in 2008) and lack of proper functioning primary health care facilities upcountry, many South Sudanese have nowhere to go but to this national referral hospital. Some military and police personnel also share these limited facilities with civilians.

Juba Teaching Hospital is directly funded by the central government through the National Ministry of Health. Medical supplies and maintenance are handled through the National Ministry of Health of South Sudan with supplements coming from United Nations agencies and NGOs. The supplies are irregular, forcing patients to buy most of the consumables and pharmaceuticals from private pharmacies. Due to the high level of poverty, most vulnerable patients are not able to afford modern medicine, hence increasing patient mortality in Juba.

8. Project Objectives:
- Improve patient wards and build infrastructure within Juba Teaching Hospital.
- Assist in improving conditions for providing health care at Juba Teaching Hospital, including the policies and management of regular and medical waste.
- Rehabilitate and/or purchase new medical equipment.
- Provide basic medical supplies, disposables, and pharmaceuticals for Juba Teaching Hospital starting with the Pediatric Department, complementing those provided by the Ministry of Health.
• Organize on-site clinical training, including general equipment usage, respectful maternity care and respectful health care, and psycho trauma support.

9. Summary of RMF/MMI-sponsored activities carried out during the reporting period under each project objective (note any changes from original plans):

• Completed the improvement/refurbishment and installation of an air conditioning system at the Antenatal Care Unit.
• Procured and delivered examination couches for the antenatal clinic.
• Procured and installed an air conditioning system at the maternity operating theatre.
• Continued support of high speed WIFI internet service for RMF office and Maternity Unit.
• Facilitated publication of the Maternal Near-Miss Audit final results; the audit was conducted at Juba Teaching Hospital (refer to detailed Near-Miss Audit report).
• Continued monitoring and mentorship of the trained healthcare professionals on the usage of Health eVillages tablets.
• Procured and provided adequate cleaning materials to Pediatric department to keep the wards clean.
• Procured and delivered 5 desktop computers for RMF’s Juba coordination office.
• Procured and delivered additional office furniture for RMF Juba coordination office.
• Procured an office Thuraya (satellite) phone to enable easy coordination with field operation sites.
• Facilitated a rapid health needs assessment of Boma County Hospital in the Greater Pibor area (refer to detailed Boma assessment report).

10. Results and/or accomplishments achieved during this reporting period:

RMF’s Health Systems Strengthening project, with focus on Juba Teaching Hospital (JTH), has achieved many notable milestones during this reporting quarter through our committed partnership with the National Ministry of Health, JTH administration, and JTH staff.

• The improved/upgraded and well-furnished Antenatal Care Unit has changed the face of the Maternity Department at JTH: There is improved service delivery and increased antenatal attendance. The unit is now amply supplied with furniture and equipment.
• The maternity operating theatre continued to provide emergency obstetric services, further improved by the installation of an air conditioning system.
• The two Health eVillages (HeV) master trainers, along with Juba Teaching Hospital's nurses, midwives, and doctors continued to benefit from the HeV tablets. JTH staff is now able to do quick reference checks, hence improving the quality of care and general services they provide.
• We collected the monthly report from healthcare professionals on the usage of HeV tablets and patients’ responses to how the application of the tablets influenced their healthcare experience. This is to evaluate the impact of the Health eVillage project (the evaluation is still ongoing).
• Final results of the Maternal Near-Miss Audit were published, enabling decision makers to address issues related to maternal mortality in Juba Teaching Hospital and the whole country.
• Monthly provision of adequate cleaning materials to the Pediatric department ensured proper cleaning and maintenance of hygiene in the wards and the surroundings.
• We facilitated and performed regular monitoring and supportive supervision of JTH healthcare workers and janitors on implementation of waste management policy guidelines.
• RMF continued to work closely with JTH administration and public health officers to ensure proper implementation of waste management policy guidelines and regular waste removal.
• We continued to support high speed WIFI internet service at both the maternity ward and RMF’s office, providing internet access to doctors, nurses, and RMF’s Juba team.
• RMF Juba based nutrition staff is benefitting from the provided desktop computers, which improve coordination and program performance.
• RMF’s Juba office is now fully supplied with furniture and equipment.
• RMF’s Juba team is now able to communicate with all field sites with the Thuraya phones.
• We prepared and submitted a proposal for improving JTH’s water and sanitation system.
11. Impact this project has on the community (who is benefiting and how):

- We prepared and submitted a proposal for providing healthcare services at Boma County Hospital.

- The upgraded/improved Antenatal Care Department has changed the face of the Maternity Department at JTH; pregnant women, their partners, and healthcare providers are comfortable in an environment that is now clean and well organized.
- The waiting time is reduced as there are three well-furnished examination rooms compared to only one before the renovation. This has a very positive effect, as the women getting quality services are encouraging the community by word-of-mouth recommendation to come to JTH, hence improving the rate of institutional deliveries and overall pregnancy outcomes.
- Privacy: the remodeled Antenatal Care Department has three furnished examination rooms, which ensures privacy and encourages women to share their concerns and pregnancy related complications with healthcare providers. This plays a significant role in the overall outcomes of their pregnancies.
- There is now an adequate waiting area for conducting health education, which is positively influencing the health habits of women and thus pregnancy outcomes; it is also encouraging child spacing and family planning services.
- There is now space for pre- and post-test counseling of pregnant women and their partners during their antenatal visits.
- Students from JCONAM, Juba Nursing School, and Juba Health Training Institute now have adequate learning space and are interacting better with the pregnant women, tutors, and ANC midwives.
- The RMF coordinating team in Juba is now able to perform its functions without interference as we have a backup source of electricity from the generator stationed at the JCONAM students’ hostel.
- The high speed WIFI internet service at the Maternity Department and RMF office provide internet access to doctors, nurses, midwives, and RMF’s team, facilitating research and improving continuous medical education for healthcare professionals and coordination for RMF’s team.
- The healthcare professionals supplied with HeV tablets continued to provide evidence based healthcare services for patients through usage of the devices as a guide.
- The RMF-trained master trainers are able to train more healthcare professionals on the application of the HeV resources which is more sustainable and builds significantly more capacity than hiring a consultant to disseminate the information to healthcare workers.
- The Pediatric inpatient wards are kept clean, reducing nosocomial infections, and the premises are conducive to the health and well-being of healthcare providers, patients, and visitors.
- The JTH premises and the surrounding areas are preserved and kept clean and safe through regular removal of the waste which had posed a threat to the healthcare workers, patients, surrounding community, and the environment.
- The working conditions of JTH’s janitorial workers have been improved through implementation of the waste management policy, developed with the support of RMF staff.
- There is general improvement in patient care and data collection in the Maternity Department following completion of the Maternal Near-Miss Audit and continuous training of maternity staff on Respectful Maternity Care/Respectful Health Care.
- There is also general improvement in patient care in all departments at JTH following the training on psycho trauma support, as most of the healthcare professionals are now able to provide comprehensive healthcare services including identification and management of traumatized patients.
- Schoolteachers trained in psycho trauma support by RMF continued to provide services for traumatized students, hence improving the general performance and school attendance of children and young adults.
- RMF’s Juba based staff continued to perform their duties satisfactorily in the well-furnished, well equipped office.
12. Number served/number of direct project beneficiaries:

- Direct project beneficiaries are approximately 444,680 people living in Juba and the immediate surrounding areas, projected from the 2008 Sudan Population and Housing Census.
- Students from JCONAM, Juba Nursing School, and Juba Health Science Training Institute are also direct beneficiaries of this project since they all do their clinical practice at Juba Teaching Hospital.

13. Number of indirect project beneficiaries (geographic coverage):

1. 9.86 million South Sudanese from all ten states, as per the 2008 Sudan Population and Housing Census. Juba Teaching Hospital is the only national referral hospital for the entire country.
2. All business communities from neighboring and other African countries, the working class from NGO/INGOs, UN Agencies, etc.

14. If applicable, please list the medical services provided:

N/A

15. Please list the most common health problems treated through this project.

- Malaria
- Diarrheal Diseases
- Intestinal Worms
- Respiratory Tract Infections
- Urinary Tract Infections
- Skin Infections
- Measles
- Malnutrition
- Enteric Fever
- Burns
- Trauma (i.e. Traffic Accidents)
- Gunshot Wounds

16. Notable project challenges and obstacles.

The project has made notable progress during this reporting quarter, but has also faced challenges in the following areas:

1. The operating theatres in the Accident and Emergency (A&E) Department are not functional due to lack of some essential equipment. This in turn hinders the performance of minor surgeries since the main operating theatre is always fully booked.
2. After being used for burn victims following the Maridi tanker accident in 2015, two blocks of JTH’s A&E Department are again unoccupied as per Ministry of Health (MOH) orders, yet patients are lying on the floor due to lack of space. RMF continues advocating with decision makers at MOH to have this situation fully and satisfactorily resolved.
3. Power instability at Juba Teaching Hospital hinders effective and efficient service delivery, especially at night. For several weeks in December 2015/January 2016, the MOH instructed that fuel for the generators at JTH was not permitted.
4. Frequent interruption of running water in the hospital compromises cleaning and effective infection control measures.

17. If applicable, plans for next reporting period:

- Implementation of RMF annual work plan guided by our MOU with the MOH.
- Follow up on our proposal for improving Juba Training Hospital’s water and sanitation system.
- Prepare a proposal for the upgrade of JTH’s maternity unit.
- Continue advocacy with JTH administration, MOH, and the health cluster to make the two fully renovated and upgraded A&E Department blocks available for patients.
- Continue to monitor the impact of the Health eVillages project.
- Follow up on recommendations drawn from the final results of the Maternal Near-Miss Audit.
- Continue rehabilitating the equipment set at Juba Teaching Hospital with focus on the Pediatric department.
- Continue to provide basic medical supplies, disposables, and pharmaceuticals for JTH, especially the Pediatric department, complementing those provided by the Ministry of Health.
- Continue to organize on-site clinical training.
- Continue to monitor and evaluate the impact of RMF’s Respectful Maternity Care project through continued supervision guided by RMF’s RMC supervisory checklist, specifically developed for this purpose.

18. If applicable, summary of RMF/MMI-sponsored medical supply distribution and use:

N/A

19. Success story(s) highlighting project impact:

See Project Photos

20. Recommendations by the Juba Teaching Administration and MOH to RMF for Quarter 2, 2016:

- To install a water storage tank for the main operating and maternity theatres.
- To improve the Pediatric Ward 5 emergency section.
- To improve and furnish the Maternity block.
- To procure a generator for the Maternity unit.

III. Financial Information

21. Detailed summary of expenditures within each budget category as presented in your funded proposal (file attachment is fine). Please note any changes from plans.

Provided separately

**Project Photos**

- Desktop computers procured and delivered to RMF’s Juba office
- An IT technician assembling and setting up the newly delivered desktop computers
A logistics intern happily using a new desktop computer

RMF logistics coordinator checking the newly procured Thuraya satellite phones

Office furniture procured for RMF’s Juba team

A technician assembling the procured furniture

Assembled office chairs for RMF’s coordination office

A new air conditioning system procured for the Maternity operating theatre
Technicians installing the air conditioning system at the Maternity operating theatre

Well installed air conditioning system in the Maternity Unit's operating theatre

Technicians assembling examination couches procured for the upgraded Antenatal Unit

Jubilant antenatal staff receiving the three examination couches

A child recovering from a snake bite in the well maintained Paediatric Ward 5

A child recovering well from a bullet wound in the RMF-renovated Paediatric Ward 5
A child in treatment for cellulitis admitted to the RMF-renovated Paediatric Ward 5 surgical area

A child well recovered from abdominal laparotomy

A child on treatment for severe malaria complicated by severe anaemia

A severely ill child on blood transfusion and IV quinine for severe malaria

A child in treatment for gastroenteritis and severe malaria

A child recovering well from gastroenteritis and severe malaria
A child in treatment for cellulitis

A child recovering well from bronchopneumonia