

Juba Teaching Hospital, South Sudan Health Systems Strengthening Project

Date: 30 th April 2015	Prepared by: Dr. Taban Martin Vitale and Okang Wilson Ezekiel
1. City & State Juba, Central Equatoria, Republic of South Sudan.	
2. Organization: Real Medicine Foundation, South Sudan (www.realmedicinefoundation.org). Medical Mission International (www.mminternational.org.uk).	
3. Project Title: Juba Teaching Hospital: Health Systems Strengthening.	
4. Reporting Period: 1 st January to 31 st March 2015.	
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 who are living in Juba and the immediate surrounding areas projected basing on 2008 South Sudan Population and Housing Census and referrals from all the 10 states to serve 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. Juba Teaching Hospital is the only national referral hospital in the whole country of South Sudan and is located in Juba City, 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 of the military and police personnel also share these limited facilities with the 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: <ol style="list-style-type: none"> 1. Improve patient wards and build infrastructure within Juba Teaching Hospital. 2. Assist in improving conditions for providing health care at Juba Teaching Hospital, including the policies and management of regular and medical waste. 3. Rehabilitate and/or purchase new medical equipment. 4. Provide basic medical supplies, disposables and pharmaceuticals for Juba Teaching Hospital starting with the Pediatric Department, supplementing those provided by the Ministry of Health. 5. Organize on-site clinical trainings, beginning with general equipment usage and Respectful 	

Maternity Care.

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

1. Facilitated the coming of RMF Founder and CEO Dr. Martina Fuchs to Juba, South Sudan to support the in country team as several new programs were launched, and facilitated her visit to Bor, Jonglei State, to sign agreements with the State Ministry of Health.
2. Facilitated the coming of RMF Director, Global Programs Cindy Aliza Stein to Juba to launch our new Health eVillages project.
3. Conducted training on Health eVillages tablets for the two RMF Master Trainers.
4. Trained nurses, midwives, and doctors on application of Health eVillages tablets particularly on how to use the preloaded devices to access medical information.
5. Provided tablets preloaded with medical materials to the trained nurses/midwives, doctors and consultants working in JTH Pediatric and Obstetrics/Gynecology departments.
6. Installed high speed WIFI internet services in Maternity block serving both Pediatric and Obstetrics/Gynecology departments.
7. Conducting Maternal Near-Miss Audit at Juba Teaching Hospital (studies still ongoing).
8. Renovation of the *Accident and Emergency Department* at Juba Teaching Hospital (successfully completed).
9. Facilitated the repainting of the external walls of the *Accident and Emergency Department* worth \$4,000.
10. Procured and provided adequate cleaning materials to Pediatric department to keep the wards clean.
11. Continued implementation of waste management policies and waste removal at JTH.
12. Continued support of high speed WIFI internet services for RMF office.

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

The Health Systems Strengthening project with focus on Juba Teaching Hospital has achieved many notable milestones during the reporting quarter through the committed partnership with the National Ministry of Health, JTH administration and its staff.

1. The improvement work of the *Accident and Emergency Department* was successfully completed (refer to separate A&E final reports).
2. 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, and facilitated and performed regular monitoring and supportive supervision of the JTH healthcare workers and janitors on implementation of waste management policy guidelines.
3. Monthly provision of adequate cleaning materials to Pediatric department and special wing ensures proper cleaning and hygiene maintenance in the wards and their surroundings.
4. Health eVillages project introduced to JTH.
5. Two master trainers (national tutors from Juba College of Nursing and Midwifery) identified and trained on Health eVillages project, now able to train more healthcare professional at JTH.
6. Nurses, midwives, doctors and consultants working in Pediatric, Obstetrics and Gynecology departments were trained on Health eVillages tablets and provided with tablets loaded with medical information to serve as reference guide.
7. Collection of monthly report from the healthcare professionals on the usage of the preloaded tablets and patients' response on how the application of the tablets influenced the care provided by the healthcare professionals, this is to evaluate the impact of the Health eVillages project (evaluation still ongoing).
8. Recruited and trained staff to conduct the Maternal Near-Miss Audit at Juba Teaching Hospital (studies still ongoing, results will be published after completion).

<p>9. Support of high speed WIFI internet services both at the Maternity department and RMF office provide internet access to doctors, nurses and RMF team.</p>
<p>11. Impact this project has on the community (who is benefiting and how):</p> <ol style="list-style-type: none"> 1. The well improved <i>Accident and Emergency Department</i> at JTH has changed the face of the hospital and the community feels JTH is a place for the population to seek healthcare services. 2. The organized patients' flow at the Outpatient unit and operational Inpatient Medical block of the A&E Department has reduced the risk of nosocomial infection; patients, visitors and healthcare professionals feel very comfortable in the A&E Departments. 3. The improved infrastructure and services at A&E Department have increased patient turnover at JTH since the community is now building trust on the government's health facilities. 4. The healthcare professionals provided with the tablets are now able to provide evidence based healthcare services for the patients through usage of the devices as a guide. 5. The trained master trainers are able to train more people on the application of the devices provided by Healthy eVillages which is more sustainable and economic than hiring consultants to disseminate the information to more healthcare workers. 6. The final outcome of the ongoing Maternal Near-Miss Audit at JTH will be able to guide how to intervene and improve maternal healthcare at JTH and other states in South Sudan. 7. The Pediatric inpatient wards are kept clean reducing nosocomial infections and the premises are conducive for the healthcare providers, patients and visitors. 8. 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. 9. The working condition of the hospital's janitorial workers has been improved through implementation of the waste management policy, developed with the support of RMF staff. 10. The high speed WIFI internet services at the Maternity department and RMF office provide internet access to doctors, nurses, midwives and RMF team, facilitate research and improve continuous medical education for healthcare professionals and coordination for RMF team. 11. The coming of RMF founder and CEO Dr. Martina C. Fuchs and Global Program Director Cindy Stein have improved the capacity of the in country team in running RMF South Sudan Programs.
<p>12. Number served/number of direct project beneficiaries:</p> <ol style="list-style-type: none"> 1. Direct project beneficiaries are approximately 444,680 people who lived in Juba and the immediate surrounding areas projected basing on 2008 Sudan Population and Housing Census. 2. Students from JCONAM, Juba Nursing School and Juba Health Science Training Institute are also direct beneficiaries of this project since all do their clinical practice at Juba Teaching Hospital.
<p>13. Number of indirect project beneficiaries (geographic coverage):</p> <ol style="list-style-type: none"> 1. 9.86 million South Sudanese as per the 2008 Sudan Population and Housing Census from all the ten states of South Sudan as Juba Teaching Hospital is the only referral hospital for the entire country. 2. The entire business community from neighboring and other African countries, the working class from INGOs, UN Agencies etc.
<p>14. If applicable, please list the medical services provided: N/A</p>
<p>15. Please list the most common health problems treated through this project.</p> <ol style="list-style-type: none"> 1. Malaria 2. Diarrheal Diseases 3. Intestinal Worms 4. Respiratory Tract Infections

5. Skin Infections
6. Measles
7. Malnutrition
8. Enteric fever
9. Burns
10. Trauma (Road Traffic Accidents and Gunshots)

16. Notable project challenges and obstacles.

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

1. Two blocks of the improved A&E Departments are not in use because of inadequate quantity of beds and mattresses provided by MOH for A&E Department. This is causing congestion in the wards and surgical emergency cases are still being housed in the Pediatric ward 5 medical compromising the admission of Pediatric patients due to limited available space and hindering our work for the Pediatric department.
2. The operating theatres at the A&E Department are not functional due to lack of some equipment; this in turns hinders the operation of minor surgeries since the main operating theatre is always fully booked.
3. Slow response from MOH in providing all the needed furniture and equipment to A&E Department.
4. Power instability at Juba Teaching Hospital hinders effective and efficient service delivery especially at night.
5. Frequent interruption of pipe water in the hospital compromises cleaning and effective infection control measures.

17. If applicable, plans for next reporting period:

1. Implementation of RMF annual work plan guided by our MOU with MOH
2. Continue to monitor the impact of the Health eVillages project.
3. Complete and produce the results of the Maternal Near-Miss Audit at JTH.
4. Continue rehabilitating the equipment set at Juba Teaching Hospital with focus on the Pediatric department.
5. Continued provision of medical supplies, disposables and pharmaceuticals for JTH especially the Pediatric department, complementing those provided by the Ministry of Health.
6. Continue to organize on-site clinical trainings.
7. 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 Appendix A

20. Recommendations by the Juba Teaching Administration and MOH to RMF for Q 2, 2015

1. To install Air Conditioning in some of the rooms in A&E Department, this will make the place more conducive for the patients, visitors and healthcare providers.
2. To improve the Pediatric ward 5

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



Siamsa, RMF Master Trainer conducting training on Health eVillages devices for nurses, midwives and doctors



Jemelia, RMF Master Trainer conducting training on Health eVillages devices for nurses, midwives and doctors



Dr. Taban Martin Vitale demonstrating to the trainees the use of the devices which are preloaded with medical information



Dr. Taban Martin Vitale demonstrating to the trainees the use of the devices preloaded with medical information



Consultant Gynecologist, Dr. Mergani using the provided device as a medical reference guide to access information



Consultant Gynecologist, Dr. Kuma Chol, current head of Obstetrics and Gynecology at JTH using the provided device to obtain medical information



Joice Chrispo, a midwife in the ANC, educating pregnant women and showing them birth in different positions



Judith Cinea, a midwife in the Labour unit, attending to a pre-eclamptic woman who is at term



Amani Kaku, a nurse in the Pediatric department, attending to a colleague Joice Naku on treatment for Malaria



Amani Kaku, a nurse, educating a mother on prevention of malaria using the device as a guide



Jacqueline, a nurse, using the device to get the right dose of a drug before administering to the patient



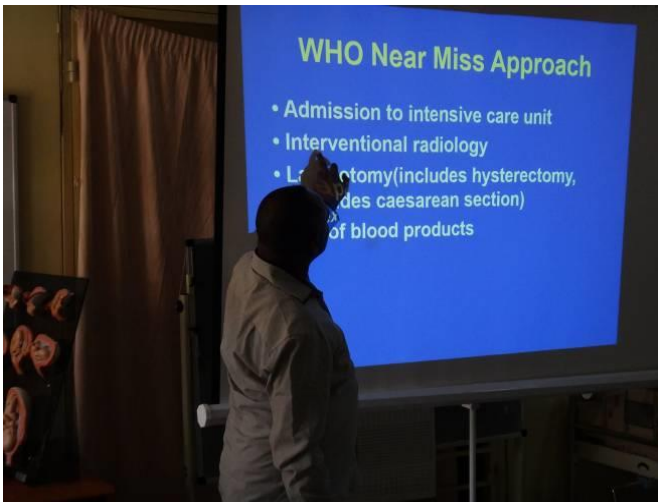
Nako Joice, a nurse in the Pediatric department, using the device to make a nursing diagnosis and calculating the dose of medication



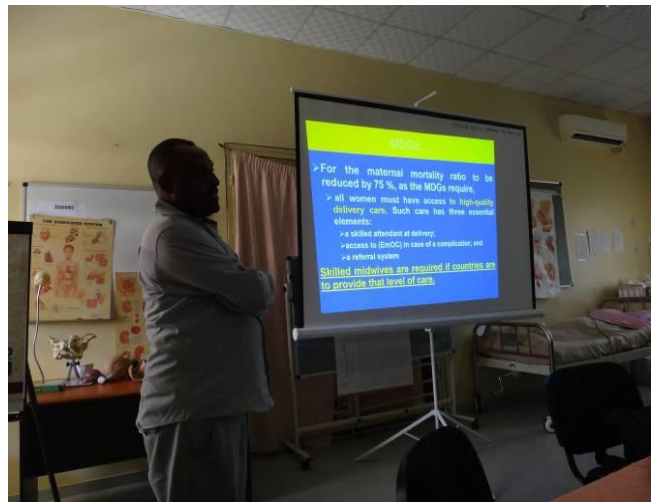
Joice Naku using the device to provide guidance on nutrition to a mother whose child is malnourished



Joice Naku using the device as a guide to provide evidence based care for a child on treatment for pneumonia



Lead investigator Fekadu conducting orientation workshop for the team who is to conduct Maternal Near-Miss Audit at JTH



Fekadu conducting orientation workshop for the team who is to conduct Maternal Near-Miss Audit at JTH



Participants attending the Near-Miss workshop



Participants attending the Near-Miss workshop



Participants attending the Near-Miss workshop



Participants attending the Near-Miss workshop



A small group of data collectors discussing the challenges and the way forward to ensure the quality of the ongoing study on Maternal Near-Miss



Fekadu (Front-R) taking the team through the questionnaire and addressing areas of concern to ensure quality and to avoid errors in data collection processes



(R-L) Fekadu, Jennifer and Judith with the three JCONAM students who are helping in quantitative data collections



Jennifer (L) checking the quality of the completed questionnaires provided by midwife Elizabeth (R)



Pediatric ward 5 renovated by RMF in 2013



Pediatric ward 5 renovated by RMF in 2013



A child recovering well in surgical unit of Pediatric ward 5 after amputation following a gunshot



A child recovering well in surgical unit of Pediatric ward 5 after amputation following a chronic limb infection



A child recovering well in surgical unit of Pediatric ward 5 from open head injury following RTA



A child recovering well in surgical unit of Pediatric ward 5 from open head injury following bomb blast



A bright looking child in Pediatric ward 5 responding well to treatment for pneumonia



A child fully recovered from malaria, discharged on oral medication to continue at home



A child recovering well in surgical unit of Pediatric ward 5 from severe scalp infection



A child on traction for fractured Lt. Femur following a trauma, he is responding well under the management



A child (L) well recovered from burns now together with the brother (R)



A child with second degree burns on care in Pediatric ward 5, supported by the father



A 2-month-old infant born with congenital anomaly, awaiting referral to Uganda, mother seeking financial support



A woman in Pediatric ward 5, sustained knee injuries following RTA



A woman in Pediatric ward 5 on care for severe burn following domestic violence



A woman in Pediatric ward 5 on palliative care for breast cancer



A counselor giving education for mothers at ANC



Angelina Paul, a midwife, attending to a mother in Maternity unit



Regular waste at JTH awaiting to be transported to the designated site



A company contracted by MOH loading the waste to be transported to the designated site



Cleaning company slashing the JTH compound



Cleaning company slashing the JTH compound



Janitors performing general cleaning of the hospital



Janitors performing general cleaning of the hospital



A janitor cleaning around the A&E Department



A janitor (L) assigned to clean in the A&E Department



L-R: Dr. Makur (Undersecretary MOH), Dr. Martina and Dr. Taban during the final evaluation of the A&E Department



Surveyor (L) from Ministry of Housing congratulating RMF on well job done



The joint team pointing to areas which needed more improvement



Jacob (R), Pan Koung Company engineer, committing to the team that they will fix those areas needing more improvement



Dr. Martina interviewing the Undersecretary of MOH at the end of the tour



Dr. Wani Lolik (R) discussing with the surveyor the quality of the work done



Dr. Taban touring the A&E Department with medical team from USA



Dr. Taban touring the A&E Department with medical team from USA



Dr. Taban in the A&E dispensing pharmacy, the staff are happy for the improvement



Dr. Abraham (L), Director of the A&E Department, thanking the team for visiting JTH



Exterior wall of former lab block after repainting with weather guard



A janitor washing the exterior wall of surgical block after repainting with weather guard paint



Exterior wall of Surgical block after repainting with weather guard



Exterior wall of Surgical block after repainting with weather guard



Interior of one of the rooms after repainting the areas identified during the last evaluation



Interior of one of the rooms after repainting the areas identified during the last evaluation



A triage area which is also used for resuscitation of critically ill patients



Well cleaned triage area, flow of patients now controlled to ensure privacy



Operating table procured by MOH placed in one of the A&E theatres



Patient examination bed and screen procured by MOH placed in one of the consultation rooms



Patient trolleys procured by MOH



Furniture procured by MOH



Weighing scales and furniture procured by MOH



Waste collection bins procured by MOH



SINCO Medical Supplies, company contracted by MOH to supply beds and mattresses for A&E Department



SINCO marketing manager (L) with his colleague in front of the mattresses supplied by them



R-L: SMO, DG, MOH representative, marketing manager- SINCO & a technician assembling the bed



SINCO technicians assembling the beds



Beds and mattresses in surgical unit of A&E Department



Beds and mattresses in medical unit of A&E Department



Medical block of A&E, male unit fully occupied



Medical block of A&E, male unit fully occupied



Medical block of A&E, female unit fully occupied



Medical block of A&E, female unit fully occupied