



Annual Report 2016

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Which brings us to the best part of our visit – the staff! We knew the doctors we had met two years before had been enthusiastic to learn, but we didn't have the opportunity to work with the nursing staff as much then. The staff in the "Operating Theater" wanted to review proper scrub procedures, the maternity staff sought information on post-partum hemorrhage, the staff in the outpatient clinic asked about cervical cancer screening, the doctors questioned surgical techniques.... We have never met a group of people so dedicated to the work they have chosen and so intent on improving their own abilities so that the care they provide is the best it can be. The new doctors and nurses added to the staff are just as enthusiastic as the "veterans" from our first visit. It is truly humbling to help take care of more exceptionally high risk patients in 2 weeks than we would see in months, if not years, in the US.

- Mark LaRose, MD

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Letter from the Co-Founders

Since our inception in 2002 and the subsequent opening of FAME Medical in 2008, FAME has become an organization recognized for providing quality medical care to underserved communities in rural Africa, specifically the Northern Highlands of Tanzania. We have achieved this success by promoting a patient-centered culture, by providing our local team with the support and resources they need to serve patients, and by partnering with volunteers and consultants from overseas medical communities to mentor, support and train our Tanzanian doctors, nurses and managers to be the best that they can be.

“Access” is not just a question of people having the resources or knowledge to engage in responsible health-seeking behavior; it is also a question of them reaching facilities that can actually help them. Far too many Tanzanians, particularly in the most rural parts of the country, still find themselves in poorly equipped, poorly staffed clinics and hospitals, even after traveling great distances for care. With the government struggling to provide only the most essential of services in rural areas like ours, and for profit entities beyond the means of the average person in our catchment, FAME is filling an enormous gap. It is bringing a quality of care and breadth and equity of service our community needs and deserves.

Increasing access to critical services for women and newborns was a major focus in 2016, as was introducing technology designed to guide doctors through life threatening emergencies. We are proud of several accomplishments:

- A 137% increase in deliveries at FAME Medical, including an uptick in referrals from Traditional Birth Attendants and low resource dispensaries in the most remote parts of the District.
- Recognition by the District Medical Officer as a “Designated Center for Obstetrical Emergencies”.
- Capacity building efforts that resulted in 73% of our doctors and 52% of our nurses being certified in Advanced Life Support in Obstetrics and/or Helping Babies Breathe.
- A doubling of participation levels in our prenatal program.
- The roll out of X-ray and CT services

These are just a few of the many highlights that reflect the incredible work of the FAME team in 2016. We are so proud of our Tanzanian team and their unrelenting dedication to serving our patients. We are equally grateful for our volunteers and the role they played in supporting, guiding and mentoring our providers through the many challenges they faced throughout the year.

It is our hope that these pages not only capture the spirit of FAME’s work but also bring into focus the enormous influence of our donors and partners, without whom none of this would be possible. We feel privileged to be on this journey with you.

Frank & Susan



Letter from Board Chairman Craig Wainscott

If you ask FAME's co-founder, Dr. Frank, what he wants to be when he grows up, he would probably reply, "I'll let you know when I get there". Along with his wife and co-founder, Susan Gustafson, they imprinted the same "focus-on-the-now" philosophy at FAME. That's not to say FAME lacked direction. Bringing health care to rural Tanzania has always been the mission. But the destination wasn't always obvious. However, if we step back, and look at FAME today, we see an institution that looks pretty "grown up", or at least well on its way.

By any measure, the recent growth spurt is nothing short of remarkable. Outpatient and laboratory demand continues to soar each year and now surgeries are performed almost every day. Patients can get an X-ray, and even a CT scan! Probably the biggest success story is the overwhelming response to our maternal health initiative. Healthy babies, lots of them! The list of achievements is long and exciting. Take your time going through this report. It will make your day – I promise. Soak up the stories and wonder at the dedication that makes it all possible.

On behalf of the Board, Dr. Frank and Susan, and the staff and volunteers at FAME, I want to thank you for joining us on this journey. Your support and generosity makes a corner of Tanzania a healthier, safer place – saving and changing the lives of countless, and very grateful, patients. They say "growing up is hard to do", and it is. But your support makes it possible. Our budget has grown along with our patient demand, so please keep FAME in mind when you plan your giving. I am confident you will be hard pressed to find another organization that has a greater dollar-for-dollar impact. We know we can't address all the health needs of our community – but with your continued support we can meet more than ever before.

With appreciation and gratitude,

A handwritten signature in black ink that reads "Craig". The signature is stylized, with a large, sweeping 'C' and the name 'Craig' written in a cursive-like font.

Outpatient Department & Specialty Clinic

Our outpatient department continues to grow, reaching almost 25,000 visits this year. The clinic expansion was completed in March. With a dedicated vitals station and expanded pharmacy, a space designated for medical records, eye exams and EKG's and five additional doctor consult rooms, patient flow and overall efficiency is much improved. While our OPD numbers only grew by 10% this year (as compared to 29% in 2015), the number of minor surgical procedures performed increased substantially. We went from 754 minor surgical procedures in 2015 to 1,117 this year, a 48% increase. Of these, 72% were wound dressings. We continue to offer endoscopy, with Dr. Gabriel Kissima independently performing 24 Gastrosopies. Chronic disease is getting increasing attention in Tanzanian media and is certainly showing up more and more at FAME, with our team managing a growing number of patients with diabetes, hypertension and heart disease. With the help of volunteer cardiologist, Dr. Reed Shnider and our own Dr. Gabriel, we continue to provide cardiac echo services as well. GE Healthcare Africa contributed enormously to this program by donating a high end ultrasound machine capable of identifying valvular disease.

Our neurology program at FAME continues to make great strides, with 546 neuro patients diagnosed and/or treated during two nearly three week drop-in clinics held at FAME and in the field. This represents a 39% increase over last year in attendees to this specialty service. Neurologist, Dr. Michael Rubenstein, along with residents and fellows from University of Pennsylvania Residence Program, the Hospital of the University of Pennsylvania (HUP) and Children's Hospital of Philadelphia (CHOP) worked from dawn till dusk helping patients presenting with everything from seizures and stroke to head injuries and cerebral palsy. Stephen and Lizabeth Raynes, in support of this vital program, donated the funds necessary to build our fourth volunteer house, a 4-bedroom, 4 bath cottage that Dr. Michael and his team will be able to call "home" during their visits.



TOP FIVE DIAGNOSES
for Children under 5
in the outpatient department:

Upper Respiratory Infection
Pneumonia
Diarrheal Disease
Skin Infection
Anemia

Inpatient Department

We approached 1000 admissions this year at FAME Medical, treating everything from infectious pneumonias and diarrheal diseases in the young to diabetes mellitus and congestive heart failure in the elderly. We also saw our first case of cholera shortly after the first cases in the District were identified in the Lake Eyasi area. Our team responded swiftly and professionally, providing immediate treatment to the patient, confirming their clinical diagnosis with the LFA Cholera test, and informing the District Medical Office of the situation. We were also able to assist the District Health Office with much needed IV fluids, gloves and doxycycline for under-resourced facilities in the area in response to this public health emergency.

With our pediatric patients often among the most vulnerable, we are thrilled to report that FAME was able to introduce a very special fund this year, Barbara's Fund for FAME's Children. Created by her family, the fund is in loving memory of Barbara Determann and the inspiring life she lived. This fund will support programs and services for FAME's pediatric patients. A nurse by profession, Barbara's great passion was serving children in need in Tanzania. We are honored to be the recipients of this gift from her family and deeply appreciate the role Friends of Children Concern played in bringing us all together.

TOP FIVE DIAGNOSES

for Children under 5

In the inpatient department:

Pneumonia,
Upper Respiratory Infection
Septicemia
Malnutrition
Anemia



Maternal Health - Labor & Delivery

429

Deliveries

150

C-sections

We first introduced Labor & Delivery services at FAME Medical in September of 2014. In 2016, just 27 months later, we delivered 429 babies at FAME Medical. Compared to last year, this represents a 137% increase in deliveries. FAME increasingly serves as a referral destination for low-resource health facilities and Traditional Birth Attendants throughout our rural District. One of the unique roles we play is in the provision of emergency obstetrical care.

Comprehensive antenatal care, well-trained and equipped healthcare providers and the necessary infrastructure to handle obstetrical emergencies have all played a central role in FAME's rapidly growing maternal health program. Relationship building in the community, particularly with Traditional Birth Attendants, has helped to raise awareness around the variables that contribute to safe motherhood experiences. Communities and health professionals in our catchment area now know where we are located and what they can expect should they need our help.

Most Common
Reasons for C-section:

Previous C-section
Fetal Distress
Obstructed Labor
Cephalopelvic disproportion
Transverse
Eclampsia



FAME Blog Excerpt - Oh How Things Have Changed

by Volunteers, Dr. Mark LaRose & Dr. Monica Norwick

“If you build it, they will come.”

Although that quote was most famously related to a baseball field in “Field of Dreams”, it applies to the Obstetric unit at FAME Medical as well. We first came to volunteer at FAME in December 2014, just a few months after the opening of the new unit. During our 2 week visit, we assisted in 2 deliveries and 2 hysterectomies. We also saw patients with the FAME doctors in the outpatient clinic. Although we didn’t have as many operative teaching opportunities then as we had hoped, we both were overwhelmed by the enthusiasm of the doctors and staff and their genuine desire to gain as much clinical information as we could provide. We planned to be back for another visit as soon as we could arrange it. In the same way that this blog was going to be sent to Susan within 2 weeks (it’s now been 6!), our next opportunity had to be delayed until we could schedule it in December 2016. Oh, how things have changed! Whereas we had only 2 deliveries in 2 weeks in 2014, there are now more than 40 per month....In this two week visit, we assisted the FAME doctors with several Cesarean deliveries, including for the mother who had the first Cesarean delivery at FAME, returning for her repeat Cesarean. Another was for a mother with spontaneous triplets diagnosed only three weeks before she presented to FAME at 32 weeks with leaking fluid. One week later, all three babies were gaining weight and were able to go home... We had the opportunity to participate in several other surgeries as well, tubal ligations, cervical cerclage, myomectomies: we began to wonder what we had wished for in 2014!



The donations that allow FAME to continue to expand have also funded an infant warmer, without which many babies might not have survived. The most astounding example is the infant born at least 12 weeks early (may have been more like 15 weeks early, as gestational age is sometimes difficult to document in Tanzania) who weighed <500 grams (1 lb 1.5 oz) at birth. We were blessed to be there the day the little one surpassed the 1 kg milestone! That is a miracle anywhere in the world, even more so in rural Tanzania. There isn’t a way to describe the joy in the mother’s smile as the staff nurse showed her the baby’s weight on the scale.

Which brings us to the best part of our visit – the staff! We knew the doctors we had met two years before had been enthusiastic to learn, but we didn’t have the opportunity to work with the nursing staff as much then. The staff in the “Operating Theater” wanted to review proper scrub procedures, the maternity staff sought information on post-partum hemorrhage, the staff in the outpatient clinic asked about cervical cancer screening, the doctors questioned surgical techniques.... We have never met a group of people so dedicated to the work they have chosen and so intent on improving their own abilities so that the care they provide is the best it can be. The new doctors and nurses added to the staff are just as enthusiastic as the “veterans” from our first visit. It is truly humbling to help take care of more exceptionally high risk patients in 2 weeks than we would see in months, if not years in the US. Two women presented with eclamptic seizures and several more with severe hypertension in pregnancy, one with a severe shoulder dystocia at delivery, another with post-partum bleeding, a case of infection after a miscarriage.... And the doctors at FAME take it in stride. Cases like these can intimidate anyone, even when the best facilities in the world are available. Watching the staff at FAME provide excellent care in creative ways, using the available equipment, is amazing. We can’t wait to see what they are able to accomplish by the time we return next! Best wishes to the entire FAME family in 2017, with profound thanks to all of the friends and donors who have helped make FAME possible.

Maternal Health - Reproductive and Child Health

Comprehensive prenatal care plays a central role in insuring positive outcomes for pregnant women and newborns. Thanks to *Every Mother Counts* and other key partners, we have been able to make these services both accessible and affordable for the pregnant women in our community. For just \$2.50 a pregnant woman has access to 4 prenatal visits and 2 ultrasounds, labs, prenatal vitamins and any treatment she may need during her pregnancy. This program saw 433 new enrollees in 2016, doubling participation levels from the previous year.

433

New Enrollees to
Prenatal Program

Currently located in a cramped space within our lab, we are excited to report that this program will soon be relocating to a new building on the FAME campus. Thanks to a long-time supporter and friend, we have completed construction on a building that will not only be home to our prenatal program but also our Under-5 Vaccination Program, Family Planning Program, and soon to be introduced Cervical Cancer Screening Program. Once equipped and furnished, we will make the move. We anticipate moving into this new, dedicated space early next year.

145

New Enrollees in our
Under-5 Vaccination
Program



FAME Blog Excerpt - Hope Prevails - Tasiana's Story

When the world says, "Give up," Hope whispers, "Try it one more time."

– Author Unknown

Family is important in Tanzania. It is important the world over. For 35 year old Tasiana, starting a family was beginning to seem like an impossibility. After multiple doctors and hospitals, and 4 unsuccessful pregnancies, two of which were stillbirths at term, she was beginning to think she would never be a mother. Pregnant with her 5th child, she was desperate to get some answers. That's when she found Dr. Walii Msuya and FAME Medical. After taking a complete history and reviewing her records during that initial consult, Dr. Msuya made a commitment to Tasiana – he would do his level best to determine what was causing her inability to deliver a healthy baby. Reaching out to volunteer US-based OB/GYN consultants and his colleagues at home, studying on-line journals, and using his own clinical skills in the days and weeks to follow, he came up with a working diagnosis—Antiphospholipid Syndrome or APS. APS is a autoimmune disorder in which the body recognizes certain normal components of the blood and/or cell membrane components as foreign substances and produces antibodies against them. In pregnancy, this is a very high-risk situation for both mother and unborn baby, with mother's body essentially attacking the placenta which damages the blood supply to the baby and usually causes death to the unborn child. Needless to say, the management is exceedingly delicate, requiring closely controlled anticoagulation for the mother during pregnancy.

Anxious to get high quality prenatal care, Tasiana began FAME's prenatal program in March, while Dr. Msuya and our maternal health nurses followed her closely. Following treatment protocols for this condition, she was admitted to the labor ward at 38 weeks for close observation and fetal monitoring, with a scheduled C-section to follow a few days later. Both Tasiana and her unborn baby remained stable, so she was taken to the Operating Room on August 23rd where she delivered a strong 7 pound baby boy. And after just a few short days in the hospital, Tasiana was able to take her healthy newborn home — her hope renewed, her dream finally a reality.

A culture of patient-centered care and life-long learning is what we try to cultivate at FAME Medical. Dr Msuya exemplifies both. A doctor who treated this woman like a member of his own family, a doctor who committed himself to finding some answers that would make a difference in a family's life, and a doctor courageous enough to step up to the plate despite the challenges, knowing that Tasiana was out of options. Thank you, Dr. Msuya. We are proud to have you on the FAME team!



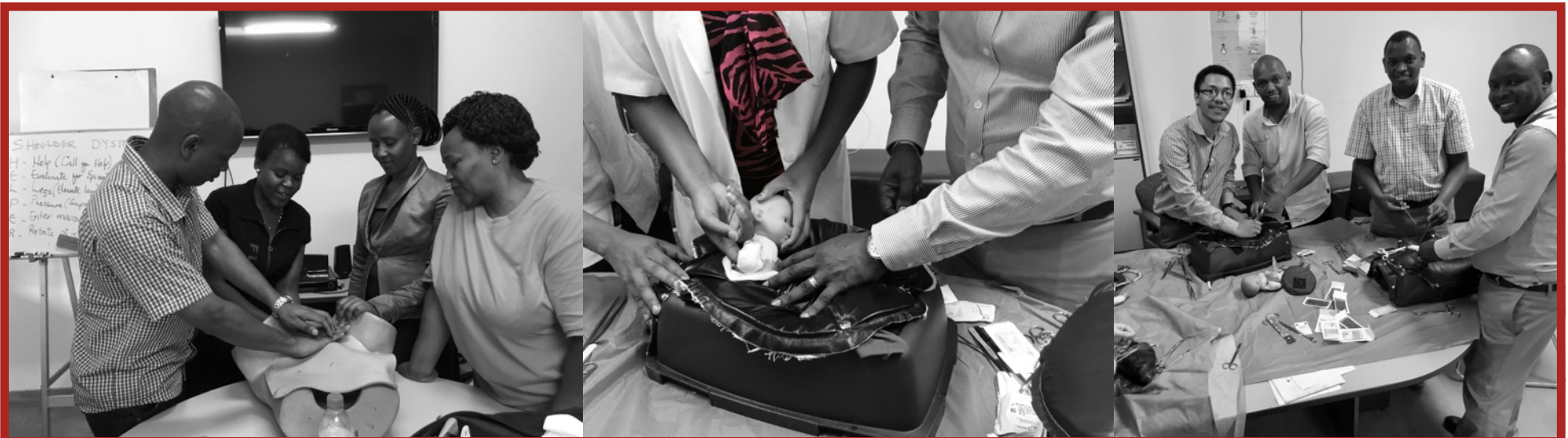
Maternal Health - Building Local Capacity



Capacity building is central to FAME's mission. With maternal and newborn health being one of our health priorities, we focused our 2016 educational efforts on equipping our doctors and nurses with the skills they need to support pregnant women throughout the labor and delivery experience and to respond quickly and proficiently to obstetrical emergencies. Trainings were conducted in *Advanced Life Support in Obstetrics (ALSO)*, *Structured Operatives in Obstetrics (SOO)*, *Helping Babies Breathe (HBB)*, and *Advanced Nursing in Obstetrics*. Given the nature and number of emergencies our team faced this year, these critical skills have no doubt contributed to many lives being saved.

31

Staff trained in
emergency obstetrical
care



Maternal Health - Community Outreach

Building on our 2015 Maternal Health Outreach, the FAME team revisited village leaders and under-resourced dispensaries in 15 villages this year to address maternal health challenges in our area. These visits resulted in the relationship FAME now enjoys with Traditional Birth Attendants (TBA's) in our area and resulted in 89 TBA's visiting FAME, meeting our Nurse Midwives and Doctors and seeing our facilities firsthand. When they arrived, our team gave them "welcome kits" that included 5 pairs of exam gloves, a \$1 phone voucher, an educational booklet on contraception, and a printed group photo of the previous village visit. Historically, TBA's have not felt welcome at hospital births. This has deterred some from seeking help for high-risk women who want them at their side. We aim to provide them with a very different experience at FAME and have already had 35 women enroll in our prenatal program as a direct result of this outreach.

"I wish I could go back in time and deliver here."
-Visiting TBA comments on our Labor Ward

89

TBA's visited FAME
Medical in response to
outreach

35

Women enrolled in our
prenatal program as a
direct result of our
outreach



Diagnostic Services - Laboratory

This has been another banner year for the FAME laboratory. At the core of any quality lab is the expertise and performance of the staff members. FAME now employs 14 people, 13 of whom have certificates or diplomas in laboratory technology. In her 7th year with FAME, long-term volunteer, Dr. Joyce Cuff, has instituted more regular lab training/refreshers sessions geared toward preparing staff for new initiatives, such as microbiology culture and sensitivity, and also reviewing areas where new regulations are in place or new strategies are called for, such as infection prevention and control. The lab staff is hard-working and always eager to learn more.

The number of patients served increased by 11% over last year, but the number of tests increased even more, so the total number of tests performed in 2016 was 43% more than that of 2015. Women of childbearing age continue to constitute over 50% of our patient population.

The biggest change in laboratory services in 2016 was the conversion to electronic data compilation and reporting. Doctors now receive printouts of patient test results and all results are recorded as performed, cutting down significantly on transcription errors and difficulties reading patient information.

An area of major expansion in the lab has been blood donation and cross-matching for transfusion. Patients who come to us severely anemic, including many women who have had post-partum hemorrhaging, have generated a large demand for blood. FAME has continued to meet this need without compromising the quality of other lab services.

As RCH prepares to move into a new building, the lab prepares to move into space made available by the RCH move. With the expansion of lab staff numbers and services, gaining a bit more space for growth is critical. Physical preparation for initiating microbiology culture and sensitivity is almost complete. A productive visit was made to KCMC's microbiology lab as part of our preparation and focused training of staff is scheduled to begin in February. This is a major new initiative for FAME and will be introduced gradually so that the quality of all lab services will be maintained.

170

Life saving Blood
Transfusions



Diagnostic Services - Radiology comes to FAME

The FAME Radiology Program is finally in full swing! In March of this year, GE Healthcare's extraordinary gift arrived: an X-ray machine, CT scanner, ultrasound machine, two anesthesia machines with monitors, and two ventilators. They added to this already jaw dropping gift a 220KVA generator and the electrical engineering expertise to help this program take flight. This was, indeed, the single most challenging construction/infrastructure project we've tackled to date, and we could not have done it without the support of GE Healthcare Africa. In August, we were finally inspected by the Tanzanian Atomic Energy Commission and passed with flying colors. Also in August, we welcomed the first of several trainers from GE to orient our radiographer and doctors on the new equipment. The initial orientation focused on the CT machine, both its technical features and diagnostic capabilities. The training was intense and thorough, resulting in FAME's very first CT scan being performed on August 22. Then, after a few technical hiccups and transport delays, we were also able to roll out our long-awaited X-ray services, and what a joy it was. On October 26, FAME radiographer, Onaely Mullumba, performed our very first X-ray on a little boy with an injured arm and elbow. He had fallen at school and was subsequently referred to us by Rift Valley Children's Village.

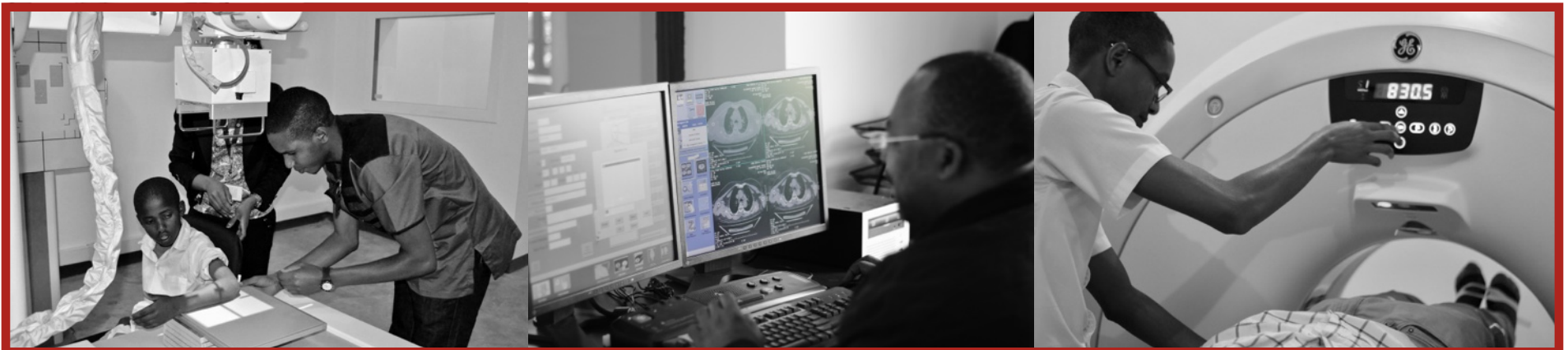
We are now in the process of building relationships with two tele radiology programs that read digital images for remotely located medical facilities in Africa, one in Dar es Salaam and another in the UK that focuses on pediatric radiology. In the meantime, we have volunteers — individual radiologists in the US who embrace our mission and are graciously reading and interpreting digital images for us! It does, indeed, take a “global” village. No program illustrates this better than this one.

156

X-rays in just over 2
months time

30

CT Scans in just over 4
months time



General Surgery

The FAME team performed 234 major surgeries this year, of which 64% were C-sections. While our capacity for performing C-sections is strong, our capacity for doing General Surgery is developing at a much slower pace. While in the US surgeons typically spend 5 years in a surgical residency, the vast majority of Tanzanian doctors build their surgical skills through experience and mentoring models, particularly in rural areas where patients rarely have access to MD's with advanced training in surgery. In fact, Tanzania only has an estimated 110 general and sub-specialty surgeons in the entire country, giving it one of the lowest ratios in Sub Saharan Africa. Of these, the majority are in city centers, medical schools or administration. This being the reality, we have relied heavily on volunteer doctors to provide training to our team in life-saving and disability-preventing surgical care. We had the privilege of hosting three surgeons this year who mentored and trained key FAME doctors in surgery: Dr. Duane Koenig, Dr. Loie Sauer and Dr. Joe Neal. While all specialists and some sub-specialists, they went back to their roots in General Surgery to support and train our team. Unfortunately, these three individuals were not in a position to stay long-term, so we continue to search for volunteer General Surgeons able to stay and work with our team in a training capacity on a long-term basis. In our efforts to better address systemic issues in the department, we promoted one of our very talented nurses into the position of OR supervisor. With the help of volunteers, he is working hard to get systems, schedules and procedures in place that are essential to running a safe and efficient department. Additionally, we introduced 2 recovery beds with monitoring systems, situating them in a strategic location next to the OR. Our anesthetists, Sehewa, Camilla and Linda recover our patients here, before shifting them to the General Ward for further observation. Moving forward, it is our goal to find long-term volunteers interested in helping our team grow these vital services. As a capacity building model, the ideal will be to find individuals who can stay with us for 6 months to a year, working to replicate their skill set in a Tanzanian partner and counterpart.

234

Surgeries
Of these, 150 were
C-sections



FAME Blog Excerpt - Building Surgical Capacity

By Volunteer Surgeon Loie Sauer

In clinic one day, a woman presented with signs of appendicitis. Dr. Msuya and Dr. Lisso recommended appendectomy, and we proceeded to the “operating theater”. She was skillfully put under general anesthesia by one of FAME’s two nurse anesthetists. As we were halfway through the procedure, I could have closed my eyes and felt like I was in any operating room anywhere in the world, as it is an environment so consistent to those of us who spend much of our lives in them. The familiarity of being in gown and glove. The sterile field. The friendly chatter. The sound of the cautery machine. Sometimes the music. But always the sense of teamwork and the intense focus when the procedure calls for it.

This really rang true when toward the end of the procedure, I felt a little something moving on my shoulder. It was Siana, the scrub nurse, doing what all of us do when our nose itches and we can’t scratch it with our sterile gloves: we rub our nose on the shoulder of the person next to us. I laughed out loud because that same gesture occurs zillions of times per day in operating rooms around the globe.

FAME’s two operating rooms are beautiful. Nice lights. Natural light through windows. Pristine clean. Cabinets housing supplies of all kinds. What is remarkable is that it is revolutionary in the region.

You see, in places like East Africa, and other low or middle income countries, death rates are high for common, easily treatable conditions like appendicitis, hernia, obstructed labor, bowel obstruction, and burns, for lack of surgical capability. Last year, the global health attention was riveted on the report of the Lancet Commission on Global Surgery, which reported that 5 billion people worldwide do not have access to safe, affordable surgical and anesthesia care when needed. In addition, the absence of a safe blood supply is a crucial problem globally in treating surgical conditions.

FAME, by virtue of offering primary surgical services, reliable anesthesia services, and a safe blood supply, offers residents of the Karatu region what many in the world do not have.

Our patient did well and went home in a day. While at FAME I participated in procedures such as C-section, hernia, tonsillectomy, burn management, breast abscess, and appendectomy. Using teaching tools from UCSF that included videos, knot tying boards, suture practice materials, we had fun working on surgical skills. FAME, you all are awesome!



Empowering Through Education

Our Scholarship Recipients

In addition to in-house continuing medical education, FAME is committed to providing outside educational opportunities for promising and motivated staff. Thanks to sponsorships from FAME supporters, the following individuals graduated from programs within Tanzania and returned to FAME with additional knowledge, skills and qualifications.

Dr. Ken Karanja returned to FAME in October after graduating from the AMO Training Program at the Tanzanian Training Center for International Health.

Lab Assistant, Barnabas William, completed his diploma in Medical Laboratory Sciences at Nkinga College, returning to us in October.

Martin John, initially a groundsman at FAME Medical, completed his program in Basic Medical Lab Sciences at Mount Ukombozi College in Dar es Salaam and returned to work in the FAME Lab in October.

Professional development in the form of “real world exposure” in the work place is also a priority for FAME:

William Mhapa, our Human Resources Manager, spent 2 weeks with a management team in the US, shadowing and learning from high level managers in the health sector.

We currently have two staff members in training programs to upgrade their skills. These include:

Clinical Officer, Anne Ghati, who started the AMO Training Program at the Tanzanian Training Center for International Health in September.

Registered Nurse Edward Valentine, who is currently training at Kilimanjaro Christian Medical Center (KCMC) and will soon be returning to us with an additional qualification as a Nurse Anesthetist.



Pictured from left to right: Edward Valentine, Ken Karanja, William Mhapa, Anne Ghati, Barnabas William, Martin John

FAME Blog Excerpt - Allen's Story

At some point in the next year or two, Allen will be strong enough for a life changing surgery. He will wake up groggy in bed, free of his G-tube, with his mom nearby. He will take a few weeks to heal. And then he will sit down to the first proper meal of his life...
— Volunteer, Angel Hertslet

Six-year-old Allen came to FAME suffering from severe malnutrition and pneumonia. The malnutrition was the result of a congenital problem, a stricture in his esophagus, that prevented him from swallowing food. Well, life took a dramatic turn for Allen this year. He and his Mother traveled to Switzerland with volunteer pediatrician, Dr. Verena Moreno on November 5th, and on November 11th he had the surgery he's been waiting for his whole life: A resection of the narrowed part of his esophagus and an end-to-end anastomosis reconnecting his esophagus to the stomach. Of course, this journey did not materialize overnight.

The complex surgery Allen needed is not yet performed in Tanzania. We had to find a surgeon and a hospital willing to do the surgery AND we had to keep Allen alive long enough to make it happen. For 10 long months, Dr. Verena and the FAME team have been caring for Allen, treating him when he got sick, providing the nutritional supplements he needed to build strength, and teaching his mother how to mix the F-100 nutritional formula and give it to him thru his feeding tube on a daily basis. Mind you, Allen and his mother have no running water in the poor, rural village where they live. Nothing is easy to keep clean, let alone a feeding tube inserted in the stomach. While only a short-term solution, it was a successful one – one in which Allen's mother played a central role. She made absolutely sure he received the nutritional formula thru his feeding tube on schedule. She was religious about keeping it clean, and she arranged to bring him in to FAME whenever she had a concern or felt something was amiss. Slowly, Allen began to gain the weight and strength necessary to stay alive while waiting for a miracle. And the miracle finally came. Dr. Verena received word that a surgeon and hospital in her home town of Bern were willing to donate their time, expertise and facility to perform the surgery that would save Allen's life.

The latest update from Dr. Verena on November 19th was very encouraging, "Allen is recovering well. He is still in the hospital because he has some drainages, nasogastric tube and IV ailmentation. On Monday they will do an X-ray (Barium meal) to see if the anastomosis they did is functioning well. Afterward the drains and the NGT can be removed and I think mid-week he will leave the hospital. The convalescence will be at my home." Allen is only one of many, many children cared for by the FAME team. Fortunately, the vast majority can be treated right here at FAME Medical. We have been able to maintain and grow our "in-house" programs and services thanks to the generosity and ongoing commitment of our supporters and friends. Thank you for helping us care for the most vulnerable among us – in a place where the usual safety nets simply do not exist. You are their heroes and ours.



Top to Bottom: Allen with his surgeon Prof. Dr. Berger in Switzerland; Allen and Dr Verena Moreno; Allen at FAME before his surgery

Volunteer Program

As always, we had an AMAZING contingent of volunteers this year at FAME. Of the 28 individuals who joined us, 19 were specialists from overseas medical communities. Their specialties included: Obstetrics & Gynecology, Pediatrics, General Surgery, Diabetes, Cardiology, Neurology and Oncology. We also had a number of very talented people sharing non-medical but critical skills with FAME this year — experts in architecture, education, IT, biomedical engineering and accounting.

We faced some sad farewells this year, with Clinical Education Coordinator, Brad Snyder, returning to Washington DC and Volunteer Coordinator, Pauline Diaz, heading to Mombasa, Kenya. Both were with us for over a year. They will be deeply missed. No doubt they will continue to make this world a better place wherever they go.

We were thrilled to bring a new Volunteer Coordinator on board in August. From Michigan, Alex Girard slid into the role seamlessly. Having worked in both corporate settings and the Amazon jungle, Alex is multi-talented and easily adaptable. Our volunteers are definitely in good hands.

Another very special contingent of people we wish to acknowledge are those who consult for us from afar. Not everyone is in a position to spend time with us here in Tanzania, but there is a critical role to be played. We are forever grateful to the specialist doctors who regularly consult with our team on difficult cases via email and digital images. While we don't yet have a sophisticated system of telemedicine in place, we do have a strong contingent of committed doctors providing life saving and life changing feedback on patients who are out of options. In the vast majority of cases, we have the available medicine and equipment to help them. All we lack is the clinical guidance. You provide that, and we are grateful.



Volunteer Program

Regarding those volunteers, we would like to say “THANK YOU” to the following individuals for their enormous contribution in 2016...

Angel Hertslet, non-medical
Barbara Flury, RN, Pediatric
Claudia Goff, RN, Ob/Gyn
David Morris, MD, Internal Medicine
Jackie Herold, MD, Pediatric Neurology
Jessica Weinstein, MD, Neurology
Joe Neal, MD, Surgery
Janet Neal, non-medical
Kelly Brennan, NP, Women's Health
Kelley Humbert, MD, Neurology
Laura Mainardi Villarino, MD, Neurology
Liz Stoebe, PA, Cardiology
Mark LaRose, MD, Ob/Gyn
Michael Rubenstein, MD, Neurology

Monica Norwick, MD, Ob/Gyn
Nick Patton, non-medical
Barb Dehn, NP, Womens Health
Reed Shnider, MD, Cardiology
Samantha Lim, RN
Sue Miesfeldt, MD, Oncology
Nancy Allard, RN, Nursing & Architecture
Duane Koenig, MD, Family Practice & Surgery
Brad Snyder, NP, Clinical Educator
Verena Moreno, MD, Pediatrics
Joyce Cuff, Prof. Microbiology
Terry Cuff, non-medical
Jeanne Artress, Accounting
Loie Sauer, MD, Surgery



Capital Projects - Construction and Equipment

Construction

This was a very exciting year on the construction front, with the Outpatient Clinic extension completed and fully equipped in March and our new Reproductive & Child Health Services Building and new Volunteer House (The Raynes House) nearing completion.

Equipment

In addition to our very special delivery from GE Healthcare, we received funding for equipment critical to our outpatient and inpatient services. Toni and Will Leavitt enabled us to purchase a much needed EKG machine. Meghan and Michael Zimmerman and The Kansha Foundation provided the funds necessary to equip our new doctor consult rooms with exam tables and office furnishings, as well as Welch Allyn wall mounted blood pressure and odoscope units.

Thanks to Ken Fisher, we were able to purchase a much needed incubator and phototherapy light for our Labor Ward. Ken donated the funds for these vital pieces of equipment in loving memory of Dr. Glen Alper, who began supporting our work in 2013, after visiting FAME Medical with his family.

Thanks to supporters Marshal Merriam, John Larsen and Gale Picker and Dr. Ron and Patsy Lowry, 2017 is also shaping up to be an exciting year for capital projects. Nancy Allard, our volunteer architect, already has the following projects on the “drafting board”:

- Three 100,000 liter water tanks for water storage
- A duplex bungalow for long-term volunteers
- A dedicated Maternity Wing for which we have nearly half the money already raised.

Construction of a new (high temperature) incinerator and creation of a recycling area for plastic bottles and glass will also soon be underway.



Fundraising

It was another exciting year for FAME on the fundraising trail, reconnecting with long-time supporters and introducing FAME's work to people for the very first time. Individuals and small groups of friends stepped up once again to graciously host events across the US. They played a key role in raising public awareness about our work in Tanzania and the enormous role individuals on the other side of the globe can play in saving and changing lives. Thank you to the following individuals for serving as a bridge — between those eager to give of their resources to make a tangible difference in Africa and FAME in Tanzania.

Toni & Will Leavitt, Fort Worth, TX

Drs. Margreete Johnston & Bill Doak, Nashville, TN

Dr. Howard and Robyn Silk & Jan Smith, Atlanta, GA

Dr. Duane & Vi Koenig, Beatrice, NE

Jeanne Artress, Redding, CA

Marcie Nicholson, Rita Rossman & Mike Schoonover, Escalon, CA

Dr. Gary & Cynthia Roach, Berkeley, CA

Barb Dehn & John Alfano, Los Altos, CA

Marissa & Billy Jacobson, Washington DC

Alexa & Bryan Renehan, Darnestown, MD

Dr. Jim & Sandy Steen, Boston, MA

Kathi Anderson, Lincoln, MA

Dr. Michael Rubenstein, Nancy & Ken Malanowicz, Judy & Peter

Christis, Mark & Jane Greenberg, Philadelphia, PA

Another highlight this year was a visit from 60 Minutes! While doing a story on Rift Valley Children's Village, for whom we provide medical care, the CBS team spent a full day at FAME Medical. Their visit resulted in some great exposure on 60 Minutes Overtime. Many, many thanks to Producers Magalie Laguerre and the late Harry Radcliffe, Correspondent Bill Whitaker, and their amazing film crew for being such wonderful ambassadors for FAME.



Going Forward – The Next Five Years

Since our inception in 2002 and the subsequent opening of FAME Medical in 2008, FAME has become an organization recognized for providing quality medical care to underserved communities in rural Africa, specifically the Northern Highlands of Tanzania. We have achieved this success by promoting a patient-centered culture, by providing our local team with the support and resources they need to serve patients, and by partnering with volunteers and consultants from overseas medical communities to mentor, support and train our Tanzanian doctors, nurses and managers to be the best that they can be.

We believe every one, regardless of their place in life, should have access to quality medical care. In a country with almost no safety nets, this mission is especially critical. In order to insure positive outcomes for our patients, we must continually seek to understand the most pressing needs of the communities in which they live. We must also generate innovative ways to meet those needs in a setting where the needs will always exceed the resources. To ensure that FAME remains a vital organization, our management team at FAME Medical, will be entering into a Strategic Planning Process early next year. This process will be tailored to guide our future development as an organization and hospital and result in Strategic Health Priorities for the next 5 years, as well as a Strategic 2017-2022 Fundraising Plan to insure financial sustainability well into the future. As a medical facility in Tanzania, we are approaching our 10 year anniversary. There is no better time to think strategically about where we wish to go over the next 5 years and how we will get there. FAME has demonstrated its unique ability to fill gaps in Tanzania's regional health-care system, particularly gaps related to access and equity of service that public sector hospitals nor for-profit facilities can address. In order for us to maintain quality of care, we need to be very intentional about where we can be of the greatest service. While we will always step up to meet immediate needs as they arise, we cannot excel at everything. That said, we need to be vigilant about two things over the next five years: 1) making conscious decisions now about what we will and will not do going forward; and, 2) maintaining and improving upon what we already do well, essentially striving towards making these domains "centers of excellence". No doubt our primary care services will remain central to what we do in Karatu as will our programs and services for patients facing chronic disease. Two programs that will receive increased attention include Maternal and Newborn Health services and our capacity for General Surgery. We also look forward to developing our radiology service to fully address the needs of our patients. And of course, building local capacity will be central to everything we do. We are very excited about what the future holds. While FAME was founded under very unique circumstances, the vision became a reality because our supporters, partners and friends could and did envision it with us. Let's keep the vision first and foremost in our minds, as together, we take FAME to the next level.



Our Supporters - Making It All Possible

Our heartfelt thanks to every single individual who gave of their financial resources to help FAME save lives. Collectively, you are changing the world for an entire community in rural Tanzania.

And to the foundations and major partners who continue to embrace our vision and forward our work, our deepest gratitude. You are changing the face of healthcare in the District of Karatu and beyond.

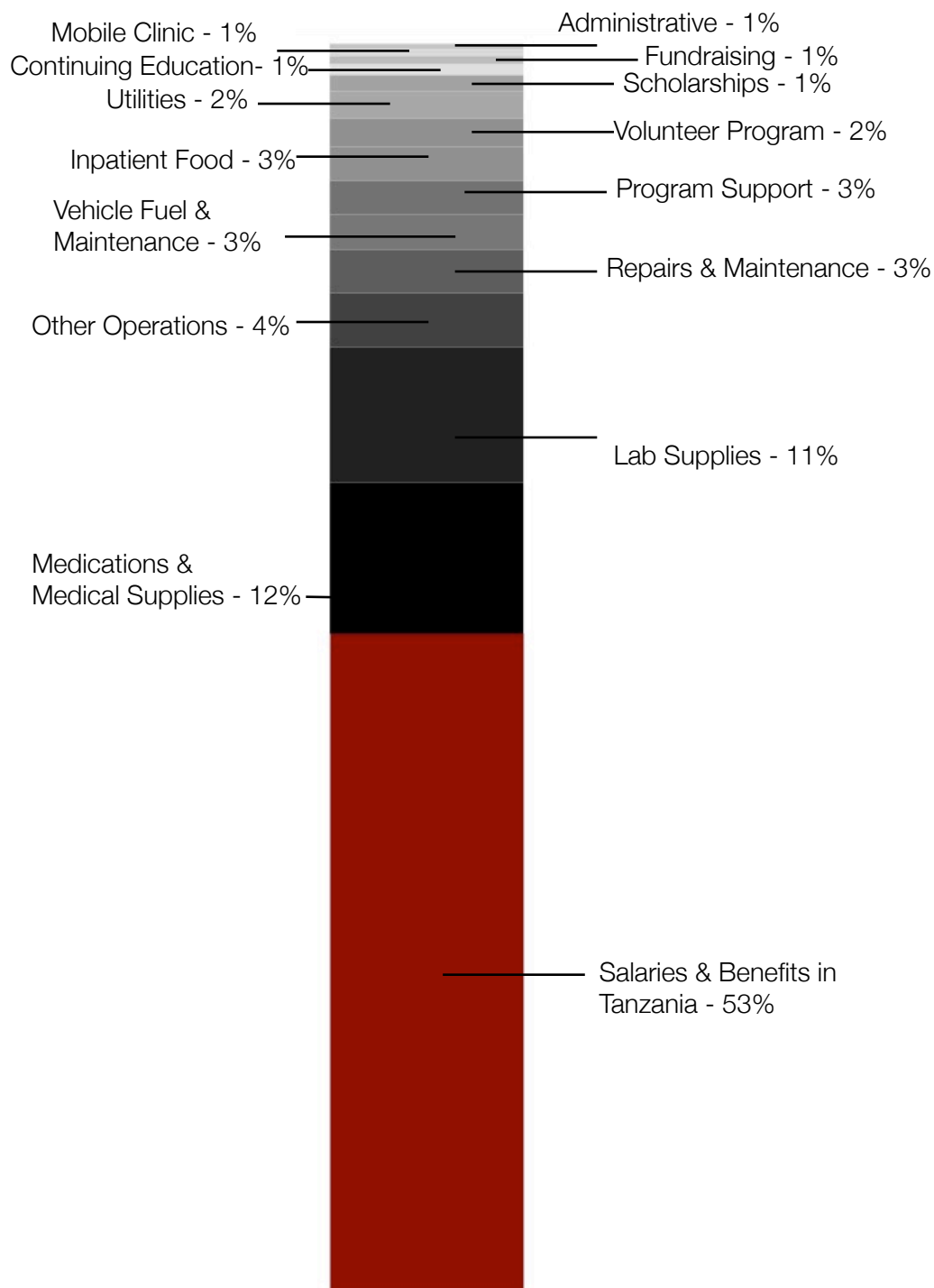
Segal Family Foundation
Every Mother Counts
Izumi Foundation
Marcy Gringlas and Joel Greenberg via Seed the Dream Foundation
GE Healthcare
Marshal F. Merriam
Dr. Duane and Vi Koenig
Dr. Ron and Patsy Lowry
John Larsen and Gale Picker
Andy Rockefeller
Roger and Jane Goodell

Prof. Dr. Berger, Dr. Verena Moreno,
and the team at the University Hospital Bern
Bob and Sarah Gould
Bill and Harriet Harris
David and Lisa Meaney
Prudence Hay
Stephen and Elizabeth Raynes
Friends of FAME Netherlands
The Kansha Foundation
The Family of Barbara Determann

Many thanks also to those of you who donated critical medical supplies this year. It makes a difference!

And to our dedicated staff at FAME Medical, who are serving patients in the trenches every day, thank you for bringing hope and healing to our community and beyond.

Finally, we would like to acknowledge the Tanzanian Ministry of Health and Social Welfare and their Regional and District Representatives for continuing to support our efforts in the District of Karatu.



Financial Report & Summary

Statement of Operations

Revenues for FAME US for the year ending December 31, 2016 totaled \$1,339,288. Of this, contributions of \$1,013,396 were received from 865 donors. Grants totaled \$297,700 from 3 foundations. Volunteer Program Fees to offset program costs in Tanzania totaled \$22,510. Interest income for the year was \$5,682.

FAME (Tanzania) was successful in fundraising as well, receiving \$7,220 in grant funding. In addition, individual contributions in the amount of \$41,115 were received. Patient fee income from the outpatient clinic and inpatient facility increased from \$292,962 in the prior year to \$350,037 in 2016, an increase of 19%. Patient fees for service covered 23% of the operating costs at FAME Medical with donor support covering the other 77%. Interest income for the year was \$56. The total amount that FAME (Tanzania) raised was \$398,428.

Operating expenditures for FAME (USA) and FAME (Tanzania) combined were \$1,602,908. Of this, fundraising expenses and administrative costs were 1.1%, while salary & benefits, medications, medical supplies and lab supplies combined accounted for 76% of all operating expenses.

Total capital expenditures for the year were \$312,016. This represents 16% of total expenditures and mainly went towards the radiology building, reproductive and child health building, clinic extension, volunteer house, medical equipment, electrical infrastructure and site development.

Financial Summary 2016

Statement of Activities for FAME US and FAME Tanzania

Support and Revenue

Donations by designation received in the US

Unrestricted	688,264
Grants	297,700
Maternity Wing & Maternal Health	228,000
Water System	40,000
Patient Referral/Special Care	6,069
Volunteer House Furnishings	4,800
Medical Equipment	17,500
Scholarship	12,963
iPads	2,000
Neurology	2,400
Sponsored Consultants in Tanzania	11,400

Total Donations at FAME US 1,311,096

Donations by designation received in TZ

Unrestricted	10,075
Family Planning	1,000
Pediatric Care	30,040
Grants in Tanzania	7,220

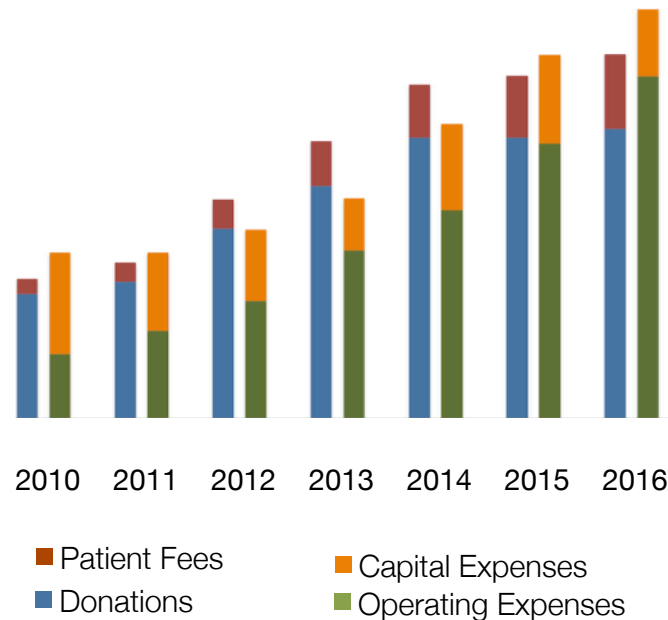
Total Donations at FAME TZ 48,335

Other Revenue

Patient Fees for Service	350,037
Volunteer Program	22,510
Interest at FAME TZ	56
Interest at FAME US	5,682
Total Other Revenue	378,285

Total Income for FAME US & TZ 1,737,716

FAME's financial growth in the last six years



Statement of Financial Position for FAME US

Assets	1,147,102
Total Assets	1,147,102
Unrestricted Assets	1,038,019
Designated Funds	109,083
Total Net Assets/Fund Balance	1,147,102

Total Net Assets 1,147,102

Expenses

Operations

Staff Costs	844,950
Medication & Medical Supplies	194,679
Lab Supplies	172,590
Vehicles	45,429
Program Support	43,224
Maintenance & Repairs	55,873
Administration	7,099
Inpatient Food	42,701
Fundraising Expenses/Travel	10,790
Continuing Education	13,659
Other Operations	71,037
Utilities	34,673
Volunteer Program	37,165
Scholarships	20,251
Mobile Clinic	8,788

Total Operating Expenses 1,602,908

Capital Expenditure

Radiology Building	21,737
RCH	71,449
Volunteer House	76,425
Medical and Lab Equipment	37,738
Clinic Extension	26,177
Incinerator	8,714
Furnishings & Equipment	11,710
Electrical Infrastructure Upgrade	18,502
Education Equipment	6,008
Software/Hardware	8,400
Structural Landscaping/	
Laundry Area Roofing	21,384
Other	3,772

Total Capital Expenses 312,016

Total Expenses for FAME US & TZ 1,914,924

*All numbers are in US Dollars and an average exchange rate of 2180 TShillings was used for expenditures in Tanzania



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