



SHIRATI KMT HOSPITAL PROJECTS

A Snapshot of CACHA's Activities and Results led by Lloyd and Erla Koch 2009 - 2023

2009 – 7 Volunteers - \$30,000 Donated	
ACTIVITIES	RESULTS
<ul style="list-style-type: none">• Collected items from Ontario hospitals and schools, then shipped and installed a container of reconditioned medical equipment and computers	<ul style="list-style-type: none">➤ Equipment contributed to improvements in the delivery of patient care
<ul style="list-style-type: none">• Created the hospital's first Strategic Plan	<ul style="list-style-type: none">➤ Strategic Plan generated support for stabilizing water and electricity supply and improved medical services. Detailed action plan for improving all departments over 5 years. Government approved Shirati as their CDH for the District, with associated funding increases.
<ul style="list-style-type: none">• Re-opened plugged drains and sewers in hospital wards.• Installed energy efficient lights everywhere in hospital	<ul style="list-style-type: none">➤ Monthly savings on maintenance and electricity costs
<ul style="list-style-type: none">• Repaired and reactivated small original solar electrical system	<ul style="list-style-type: none">➤ Solar system provides emergency lighting in all wards;
<ul style="list-style-type: none">• Installed office computers and trained staff in computers	<ul style="list-style-type: none">➤ Staff better positioned to accept computerization
2010 (2 Mission Groups)-21 Volunteers - \$17,500 Donated	
ACTIVITIES	RESULTS
<ul style="list-style-type: none">• Installed computer network and provided additional training in computer skills	<ul style="list-style-type: none">➤ Business and administrative offices now completely computerized and this



<ul style="list-style-type: none"> • Taught English to hospital staff 	<ul style="list-style-type: none"> ➤ Staff better able to complete charting and reports, and interact with English speaking visitors
<ul style="list-style-type: none"> • Medical team of volunteers from CACHA and Shirati visited 8 villages and provided free health care to 2200 persons 	<ul style="list-style-type: none"> ➤ Remote villagers had health issues addressed and acquired better awareness of services available at Shirati Hospital.
<ul style="list-style-type: none"> • Two volunteers assisted teachers at local nursery school for 3 months 	<ul style="list-style-type: none"> ➤ Students got more attention and learned more English
2011 (2 Mission Groups)-17 Volunteers - \$74,000 Donated	
ACTIVITIES	RESULTS
<ul style="list-style-type: none"> • Provided uninterrupted power supply (UPS) for computers 	<ul style="list-style-type: none"> ➤ Financial system remained reliable during power failures
<ul style="list-style-type: none"> • Investigated possible hospital-wide computer system 	<ul style="list-style-type: none"> ➤ Preferred system identified, to be examined in more detail
<ul style="list-style-type: none"> • Supervised a well-drilling project to supply drinking water 	<ul style="list-style-type: none"> ➤ No ground water located. Lake water will need to be purified for drinking instead
<ul style="list-style-type: none"> • Medical team of volunteers from CACHA and Shirati visited 9 villages and provided free health care to 5000 persons 	<ul style="list-style-type: none"> ➤ Remote villagers had health issues addressed and acquired better awareness of services available at Shirati Hospital
2013 – 8 Volunteers - \$23,000 Donated	
ACTIVITIES	RESULTS
<ul style="list-style-type: none"> • Painted all buildings and replaced window screens on the hospital compound. 3 weeks of work for Canadian volunteers plus 9 local painters for 3 months 	<ul style="list-style-type: none"> ➤ 10 years later buildings still look great. ➤ Hospital staff exceptionally proud of their clean and shiny hospital!
<ul style="list-style-type: none"> • A retired Canadian midwife reviewed maternity and midwifery program for quality and patient satisfaction 	<ul style="list-style-type: none"> ➤ Recommendations discussed with staff and CEO. Maternity program has an exceptionally high utilization rate
<ul style="list-style-type: none"> • Developed a new Strategic Plan 	<ul style="list-style-type: none"> ➤ 9 priorities identified and action plan developed to ensure implementation across all departments over 5 years



2014 – 6 Volunteers - \$35,000 Donated	
ACTIVITIES	RESULTS
<ul style="list-style-type: none"> • Repaired/replaced water distribution system. Pipes, showers, sinks, toilets updated • Identified need to replace leaking water storage tank • Construction of Kisare Secondary Technical School begins • Taught English at Diocese 	<ul style="list-style-type: none"> ➤ All areas of the hospital now have water with good pressure, toilets that flush and showers on each ward. ➤ Plan devised to ship a steel tank from Canada ➤ Buildings take shape and Shantz Mennonite Church begins multi-year support led by Terry Janzen through CACHA MOU. ➤ Noticeable improvement in English capability each year
2015 – 6 Volunteers - \$27,000 Donated	
ACTIVITIES	RESULTS
<ul style="list-style-type: none"> • Collected parts for a reconditioned Harvestore silo, medical equipment, dried food, clothing, etc. • Loaded and shipped in a container, then silo rebuilt as a 200,000-liter water tank. Other items distributed to needy 	<ul style="list-style-type: none"> ➤ Water tank has been completely reliable, supplying needs of hospital, staff, students and community. ➤ Container with dried food supported HIV clients for a year
<ul style="list-style-type: none"> • Planning for hospital-wide computer system 	<ul style="list-style-type: none"> ➤ Funding and site visits will need to be arranged
<ul style="list-style-type: none"> • Review of hospital achievements since first strategic plan. New Strategic Plan written. 	<ul style="list-style-type: none"> ➤ 32 improvements identified as implemented! ➤ Priorities identified. Action Plan developed to ensure implementation
2016 – 13 Volunteers - \$20,000 Donated	
ACTIVITIES	RESULTS
<ul style="list-style-type: none"> • Construction of 5 bed ICU by renovating the previous pediatric ward which had moved to a new building. 	<ul style="list-style-type: none"> ➤ After official opening in 2019, patient's lives were saved, other critical cases avoided long transfers to Mwanza for



<ul style="list-style-type: none"> • Completion of Phase 1 	<p>care. Income supports the hospital. Local doctors upgraded their skills with certified training. Expanded during COVID to 11 beds to care for many patients with critical respiratory conditions.</p>
<ul style="list-style-type: none"> • Identification of staffing, equipment and supplies needed to operate ICU 	<ul style="list-style-type: none"> ➤ List provided to hospital. Another charity sent equipment required, and operation began in 2019 when staff was acquired and trained.
<ul style="list-style-type: none"> • Nurses with advanced skills taught at School of Nursing 	<ul style="list-style-type: none"> ➤ Nursing staff were able to treat critical patients better
<p>2017 – 6 Volunteers - \$40,000 Donated</p>	
ACTIVITIES	RESULTS
<ul style="list-style-type: none"> • Medical Laboratory construction- Phase 1 	<ul style="list-style-type: none"> ➤ Medical laboratory designed to accommodate 2 smaller lab units and an expanded teaching program will move into one large under-utilized building. This freed up space for improved diagnostic equipment. Phase 1 completed
<ul style="list-style-type: none"> • Water purification system designed and equipment purchased to purify all water pumped to hospital tank from Lake Victoria. 	<ul style="list-style-type: none"> ➤ When a larger solar pump was installed by another charity, our system could not handle the increased pressure, so it was swapped for a smaller free-standing system providing purified water in separate lines to each ward in 2019
<ul style="list-style-type: none"> • Taught auto mechanics at Kisare Technical School 	<ul style="list-style-type: none"> ➤ Students appreciated being taught for 6 weeks by a trained Canadian Auto Mechanic teacher
<ul style="list-style-type: none"> • Taught theology at the Musoma Theological College 	<ul style="list-style-type: none"> ➤ The Canadian female pastor’s lectures on pastoral care provided a positive role model for women in church ministry.
<ul style="list-style-type: none"> • Strategic Plan updated 	<ul style="list-style-type: none"> ➤ Priorities identified. Action Plan put into place to ensure leaders were accountable for their portion of the plan



2019 – 9 Volunteers - \$48,500 Donated

ACTIVITIES	RESULTS
<ul style="list-style-type: none">Completed Medical Laboratory and moved into major improved space	<ul style="list-style-type: none">Laboratory functions extremely well, with excellent layout of equipment for efficient collection, flow and reporting of results. Patients can comfortably wait in chairs on the covered veranda. The hospital has received accolades from the Ministry of Health.
<ul style="list-style-type: none">Furnished ICU, moved in, staff training initiated and first patient admitted for care	<ul style="list-style-type: none">This was a major clinical service established for the first time in Rorya district.
<ul style="list-style-type: none">Revised filtration and chlorination system was installed to provide clean and safe drinking water through 50 separate taps across all wards, food preparations areas, and public drinking stations.	<ul style="list-style-type: none">Clean and safe drinking water available across the hospital is a first for Tanzania. No need to boil drinking water or purchase bottled water. Government testing in 2023 has confirmed it to be clean, properly chlorinated and monitored by hospital maintenance and laboratory technicians on a twice-weekly basis. Filters are scrubbed on a prescribed schedule.
<ul style="list-style-type: none">Taught Auto Mechanics at Kisare schoolTaught English to Diocese staff	<ul style="list-style-type: none">There have now been many graduates from this school, most of which are employed.Noticeable improvement in English skills



2020 – 7 Volunteers - \$56,500

ACTIVITIES	RESULTS
<ul style="list-style-type: none"> Collected parts for a second reconditioned HarvestStore silo, medical equipment, dried food, clothing, Days for Girls kits, bikes, etc. 	<ul style="list-style-type: none"> Container’s load of dried food fed HIV clients for a year, used car parts became working models for auto mechanics students, medical supplies helped hospital cope with COVID, and needy community members received blankets, bikes and many other items. Hundreds of girls were able to attend school regularly because they received a free menstrual kit.
<ul style="list-style-type: none"> Loaded and shipped in a container, then silo rebuilt as a 280,000-liter water tank to replace the leaking secondary storage tank. 	<ul style="list-style-type: none"> The hospital’s 2 tanks now provide a 10-day supply of water (280,000 liters) with enough pressure to reach all areas of the campus. Sale of water to the community at a discounted rate. Pumping from Lake Victoria to the tanks is by a reliable solar pump.
<ul style="list-style-type: none"> Taught Auto Mechanics at Kisare school 	<ul style="list-style-type: none"> Students appreciated the classroom models of a car engine and transmission sent in the container, and explained by their Canadian teacher
<ul style="list-style-type: none"> In December of this same year \$20,800 of Respiratory equipment was sent to help care for COVID patients 	<ul style="list-style-type: none"> COVID equipment helped expand the hospital’s ICU capacity to 11 beds.

2023 – 11 Volunteers - \$60,000 Donated

ACTIVITIES	RESULTS
<ul style="list-style-type: none"> Constructed a secure 2,000 sq. ft pharmacy warehouse for receiving, storing and distributing medical supplies and drugs. This frees up space across the hospital that can now be used more effectively and keep valuable items secure. 	<ul style="list-style-type: none"> Pharmacy and medical supplies warehouse has been a major boost to the hospital operations, safely securing, organizing and controlling these valuable items and ensuring they are available of patients quickly. The Ministry



	of Health inspectors praised the hospital for achieving this standard.
<ul style="list-style-type: none"> Review of hospital finances. Three-year comparison Review of efficiency opportunities Audit of nursing notes and workshop to improve practices 	<ul style="list-style-type: none"> The reviews with recommendations for Finance, nursing notes, and general efficiency were much appreciated by hospital leadership and are leading to improvements in these services.
<ul style="list-style-type: none"> Review of infant malnutrition screening and feeding program 	<ul style="list-style-type: none"> Infant malnutrition review led to incorporating new WHO standards for these vulnerable clients.
<ul style="list-style-type: none"> Review of improvements to facilities and programs since 2017 	<ul style="list-style-type: none"> 26 improvements were identified. Most had been listed as objectives in the previous Strategic Plan. This confirms the value of doing strategic plans!
<ul style="list-style-type: none"> Completion of another Strategic Plan for the next five years 	<ul style="list-style-type: none"> 9 priorities identified. Action plan put into place to outline who will ensure each step is completed on time.
<ul style="list-style-type: none"> Taught Auto Mechanics at Kisare Technical Open School Terry Janzen, CACHA project lead for the Community Development & KMT-NMD Bishop Kisare Technical School Project, has led the CACHA support for the school since 2014 	<ul style="list-style-type: none"> Since opening in 2016 until 2023, Kisare Technical Open School has graduated 902 students: Driving=182; Computers=261; Carpentry=42; Electrical=111; Mechanics=116; Tailoring=80; Secretarial=48; Welding=62. Courses range from 6 weeks to 2 years in length. Graduated technical students are a very valuable contribution to the local community and beyond.
<ul style="list-style-type: none"> Conducted an evaluation of the impact of the 11 CACHA Infrastructure missions since 2009 led by Lloyd and Erla Koch. 	<ul style="list-style-type: none"> The evaluation found that there has been a significant impact on the hospital and its surrounding community. This report provides the details.

SUMMARY FOR 13 MISSIONS 2009-2023

Total donations: \$431,500

Total volunteers: 111

Total volunteer weeks: 475 (or 9.1 years of work)

