

Issue
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30th September 2018

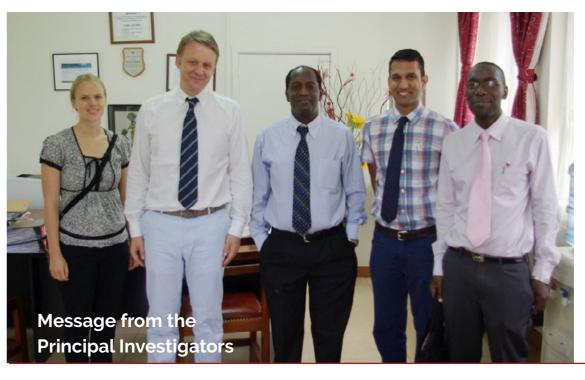
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From right to left:
Dr. Robert Kalyesubula,
Trishul Siddharthan,
Prof Moses Kamya,
Prof Felix Knauf, and
Nora Anton

t gives us immense pleasure to share with you our progress during the second year of operations since we received a three-year grant support from your foundation. Noncommunicable diseases remain a major cause of morbidity and mortality which mostly affects low income countries such as Uganda. Therefore, we are most grateful for the support we have received. This year's report summarizes the achievements of the ACCESS Uganda partnership with colleagues from Charité Universitätsmedizin

Berlin, Yale University, Johns Hopkins University and Makerere University.

We have been able to follow up the patients screened from the NCD survey in year 1 and have gone ahead to work with the Ministry of Health and Nakaseke Hospital to set up the first integrated Clinic for NCD care in the district.

Alongside, we have been able to train 20 community health workers as well as 27 Health professionals who have multiplied our impact in the community.

Fresenius-Stiftung for supporting this vision and contribute to efforts that have enabled us to reach out a great number of community members with health services.

We thank the Else Kröner

Happy reading!!

Felix Knauf Trishul Siddharthan Robert Kalyesubula

INTRODUCTION



INTRODUCTION

EXECUTIVE SUMMARY

he EKFS (Else Kröner-Fresenius Stiftung) medical-humanitarian funding was established in September 2016 in Nakaseke district of Uganda to promote patient-centered care for non-communicable diseases (NCDs), in order to foster the development of a Center of Excellence for NCDs in rural Uganda. A full report of our activities from September 2017 to September 2018 has been compiled and presented separately.

Major events in the past year have been the training of 27 health care workers (HCWs); establishment of a rural NCD clinic at Nakaseke General Hospital; development of NCD charts approved by the Uganda Ministry of Health (MoH), training of 20 Community Health Workers (CHWs), integration of CHW model into NCD care program; testing the feasibility of NCD PocketDoktor booklets on 100 selected participants with NCDs in Nakaseke.

We have developed. translated and field-tested PocketDoktor booklets for hypertension, diabetes mellitus and chronic kidney disease. We currently provide chronic care to over 300 patients through the newly established NCD clinics at Nakaseke and Life care center. We have trained 7 students in global health from Uganda, USA and Germany. We set up the NCD fellowship program in collaboration with the Uganda Ministry of Health and our first candidate is finishing in this year.

We continue to offer scholarships to nursing students with 3 new candidates selected for the awards.

As a way of reaching out to the community, we have adopted this CHW model to disseminate NCD-related health education, screen for NCDs and refer community members diagnosed with NCDs to Nakaseke NCD clinic and ACCESS life care center. In addition, the program has also strengthened NCD global health education component through supporting both local and international fellows.

Recently we hosted three medical students from Makerere University College of Health Sciences through Makerere University-Yale University collaboration (MUYU) programme. We also hosted one student from Yale School of Medicine, USA and one student from Germany..

he Rural NCD project is a strategic initiative designed to establish a center of excellence in the care and management of non-communicable diseases in rural Uganda. We envision enhanced clinical capacities and improved patientcentered care for NCDs in rural Uganda; improved knowledge on feasibility and effectiveness of patient-centered care in resource-limited settings and promoting collaborative global health training platforms for local scholars

with interest in NCD health.

Our goal is to contribute to the realization of this vision in rural Uganda.

Since its inception in September 2016, our work has progressed in three main themes:

1.Enhancing clinical capacities and establishing patient-centered care for NCDs.

2.Improving knowledge on the feasibility and effectiveness of patientcentered care. 3.Global Health Education. In this document we provide an update using the three theme headings, with particular attention to the work that has been accomplished in the second year of the programme.

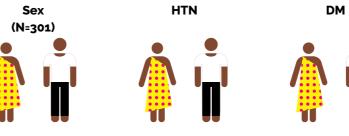
INTRODUCTION

Enhancing clinical capacities and establishing patient-centered care for NCDs



Patients at the NCD
Clinic funded through
EKFS awaiting to be seen
by the health workers.

Clinical characteristics of patients recruited from NCD clinic

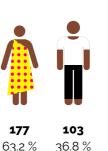


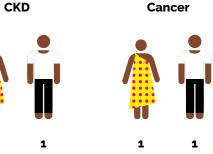
103

31 %

177

69 %





Other NCDs

Improving infrastructure, transport and medical equipment at ACCESS for district-wide NCD health management:

n addition to the achievement of obtaining a vehicle for the programme in the first year, we have been able to establish ACCESS-EKFS-Nakaseke NCD clinic at Nakaseke General Hospital. The clinic runs every Friday of the week by a qualified programme physician who is employed fulltime thanks to the EKFS funding to see NCD patients. He is supported by a team of nurses who were trained to use WHO pen protocol.

In addition, to simplify data collection in the clinic, the programme developed patient NCD charts which were approved by the Uganda Ministry of Health (MoH). The clinic officially opened in January 2018. Since then, we have been able to attend to over 300 NCD patients. the ACCESS Nursing school while 46 community healthworkers have been trained and commissioned to support the community.

The third strategic pillar is about economic empowerment where the target beneficiaries are the elderly and adolescent youth who are provided with small start-up grants to generate income for sustainable improvements in their lives.

Developing Luganda Pocket Doktor tools for management of HTN, DM and CKD:

110

36.5 %

191

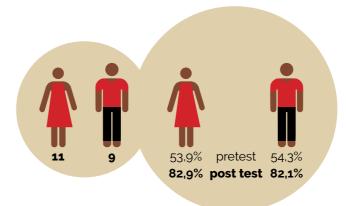
63.5 %

uganda is the language spoken In the district of Nakaseke. In the second year of the programme PocketDoktor booklets in the language Luganda were developed, reviewed by experts in NCDs and tested on NCD patients at Nakaseke NCD clinic. A total of 200 copies of PocketDoktor booklets for hypertension, diabetes mellitus and kidney disease have been printed in Luganda version.

These booklets are currently being distributed to patients attending the Nakaseke NCD clinic.

BUILDING CAPACITIES





The number of CHWs who attended the workshop (left) and percentage gain in knowledge of CHWs about NCD care and management (right)..

Community
Health Worker
Training
Workshop:

ver 20 CHWs (55% Male, 45% Female) were trained in NCD care and management. This was a three-day workshop which took place at ACCESS life care center in Nakaseke from Wednesday 30th May to Friday 1st June 2018. The main objective of the workshop was to train CHWs in NCD management and equip them with basic research skills. We selected 20 CHWs from rural communities of Nakaseke.

The training followed two main modules.

In module 1, we provided trainees with knowledge and skills required to teach the community on the significance of change in life style in prevention and control of Diabetes, Hypertension and Chronic Kidney Disease. In addition, we provided trainees with knowledge and skills required to detect NCDs.

In module 2, we provided trainees with knowledge about NCD health promotion and education. We conducted pre- and postworkshop assessments to document gain in knowledge about NCDs.



The CHW Training Workshop with the Modules 1 & 2

SCHOLARSHIPS



Nakaseke Hospital nurses taking preworkshop test



Dr Ben Bodnar and Dr. Munana Richard conducting the HEARTS protocol training at Nakaseke hospital

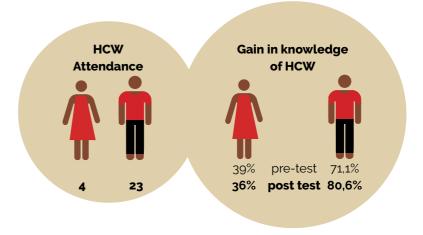


Nakaseke Hospital staff taking a post-workshop test

WHO PEN II Protocol Training Workshop

e conducted a two-day WHO pen II protocol training workshop at Nakaseke General Hospital from 8th to 9th Febraury 2018. The main objective of the training was to train nurses, clinical officers and Medical officers into HEARTS, a technical package for cardiovascular disease management in primary health care. Over 27 participants from ACCESS NCD clinic and ACCESS-EKFS-Nakaseke hospital NCD clinic attended the training.

The workshop was moderated by Dr. Benjamin Bodnar from Johns Hopkins University, an expert in the field of NCDs. He was assisted by Dr. Richard Munana from ACCESS, Nakaseke.



The pie chart represents the number of health care workers who attended the HEARTS protocol training. The bar graph shows the gain in knowledge of participants after being trained in the use of the HEARTS protocol.

NCD-TRAINING

One of our trained CHW (left) teaching about hypertension to a client (right) using pocket doktor booklet for hypertension.



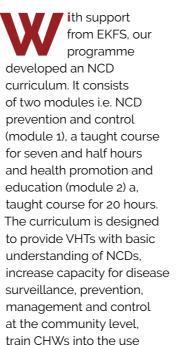
Building a network of **Community Health Workers** in Nakaseke district

network of 20 well trained and competent CHWs who have been utilized to conduct NCD patient education using PocketDoktor booklets for hypertension, diabetes mellitus and kidney disease at ACCESS-EKFS-Nakaseke NCD clinic. Our CHW team has been able to reach out to 100 patients diagnosed with selected NCDs as illustrated in the graph below.

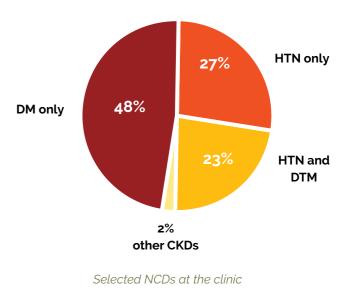
These selected patients have been followed-up on a monthly basis to monitor their hard outcomes like blood pressure profiles in order to assess for control. We have employed this model to design a community base programme through which our team of CHWs will conduct NCD patient education, screening and referral of patients to ACCESS-EKFS-Nakaseke NCD clinic for NCD management by our physicians.



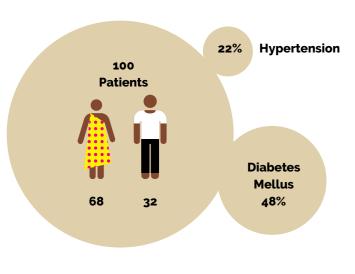
The NCD-training curriculum for Community **Healthy Workers:**

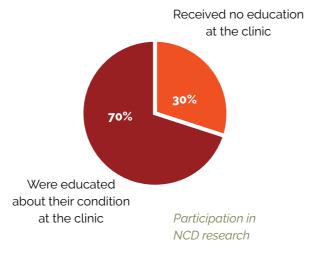


of NCDs screening tools and to acquire health promotion and education skills. The curriculum targets candidates who are citizens of either Nakaseke Town Council, Kasangombe Sub County or Nakaseke Sub County, are willing to work in these sub counties, are 18-40 years old, have a minimum qualification of Uganda Certificate of Education (ordinary level) and are able to communicate in both local language (Luganda) and English. On completion of the basic training, the successful CHWs is awarded a certificate in Community NCD Practice. This certificate allows them to mobilize and educate communities on prevention, control and management of NCDs at household level. The curriculum implores the trainers to use interactive and learner centered methods to stimulate active participation and ensure that learning objectives are met. Competence is assessed through practical assessment, written exam/ test, oral questioning and project work.



NCD CENSUS





Theme 2: Improving knowledge on the feasibility and effectiveness of patient-centered care

ince August 2018, we have been conducting a prospective cohort study designed to run for 6 months. In this study, we are implementing and evaluating the impact of a validated patient-centered education tool (PocketDoktor booklets) among 100 patients diagnosed with hypertension and/or diabetes in a rural outpatient setup of Nakaseke NCD clinic.

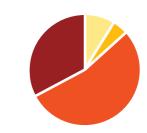
The PocketDoktor booklets are being administered by our team of trained CHWs on these selected patients. Our study outcomes include patient satisfaction measured by patient activation measure (using PAM-13 tool) and health outcomes measured by hard outcomes such as systolic and diastolic blood pressure. We have recruited 100 patients (68% females) diagnosed with either hypertension (22%) or diabetes mellitus (48%).

We administered a PAM-13 questionnaire at baseline and measured clinical and sociodemographic characteristics of these individuals. In three months time post recruitment, we will assess the PAM-13 score and clinical parameters like blood pressure in these individuals to determine if there has been any impact by our intervention.

Publishing NCD Community Census conducted during year 1

e have been able to complete one manuscript from the NCD census which was conducted in year 1 of the programme. The manuscript is titled "The Rural Uganda Non-Communicable Disease (RUNCD) Study: design, methods, and self-reported disease". In this write up, we have described a rural cohort of individuals with self-reported NCDs. We have presented the establishment of the RUNCD study in response to the epidemic of NCDs in low- and middleincome countries and the

acknowledgment that existing studies provide an incomplete understanding of the burden of NCDs. We demonstrated successful enrollment of 16,272 rural Ugandan residents at a response rate of 99.2%. And these participants were systematically captured from three sub-counties of the larger Nakaseke Health District representative of the Ugandan rural setting.



Overall satisfaction with NCD education



Satisfied with management plan



Satisfied with nature of my condition



Satisified with being informed about treatment options



Satisified with being informed about disease prevention

Extremely dissatisfied

Moderately dissatisfied

Moderately satisfied

Extremely satisfied



RESEARCH FELLOWS

Research fellows for EKFS project



Dr Munana Richard attending to a patient at the NCD clinic

GLOBAL HEALTH

EDUCATION

e successfully hosted two female and two male 4th year medical students from Makerere University College of Health Sciences for a three days placement. The main objective of the visit was to expose these selected students to research opportunities in NCDs at ACCESS and familiarize them with community based solutions to medical care.

The students appreciated our CHW model in delivering NCD care at Nakaseke hospital, participated in patient care through bedside teachings and ward rounds. At the end of the visit, students had a general picture of NCD management program at ACCESS, the role Community Health Workers (CHWs) and the community in championing NCDs care and management.

FELLOWS FROM UGANDA

ur program recruited Dr. Richard Munana. a fulltime research fellow based at ACCESS Uganda and mentored by experts in the field of NCDs from Johns Hopkins University, USA. His dream is to become a master of protocol driven care of NCDs in rural Ugandan settings like Nakaseke. He has played a critical role in the establishment of the Nakaseke NCD clinic. He runs the clinic every Friday screening and treating for NCDs.

He has been key in documenting patients seen at the clinic. He has established a database of patients with NCDs. Currently, his research area focuses on the implementation and assessment of the impact of the WHO HEARTS protocol among hypertensive and diabetic patients of rural communities of Nakaseke. Briefly, the HEARTS protocol is a technical package for cardiovascular disease management and care in the community, hospitals and by low level health

care cadres. It consists of modules developed under the auspices of the Global Hearts Initiative, led by WHO and the US Centers for Disease Control and Prevention. The fellow has participated in the initial training of 18 nurses at Nakaseke General Hospital with the Johns Hopkins NCD expert on the use of the HEARTS protocol in NCD care. He has further developed a protocol to assess the level of awareness and fidelity to implementation of WHO HEARTS protocol

in rural settings, the impact of WHO HEARTS protocol driven care for hypertension and diabetes on patient outcomes and the barriers and enablers to implementing protocol based non-communicable disease care. We hope that during the 3rd year of the programme, our fellow will gain a deeper appreciation of the HEARTS protocol and its impact on the rural community.

Richard Munana

RESEARCH FELLOWS

Research fellows for EKFS project



Dr. Kast shares a light while attending to a client in the NCD clinic



Theresa takes the CHWs through diabetes and the diabetic booklet during the CHW training.

FELLOWS FROM GERMANY

members on the EKFS project based in Germany for a week's rotation from 19th-24th February. The main aim of her visit was to get acquainted with the works of ACCESS and explore possible areas of future collaborations. During her visit, she was part of various ACCESS activities such as visiting some of the Health Centers that ACCESS works hand in hand with to extend reproductive health services in Nakaseke.

In addition, she visited Global Health Uganda, which currently assists in the ACCESS-EKFS NCD center of excellence. Dr. Kast received various HEARTS materials and the Uganda clinical guidelines. On 23rd February 2018, she ran the Nakaseke hospital based NCD clinic and gave a teaching to global health students Jamon and Stephanie from Touro University, USA.

heresa is a German medical student that visited ACCESS for a four weeks' period. During her stay at ACCESS, she rotated with four other global health students from the USA. She received various lectures in NCDs, tropical medicine and reproductive health. These were provided by the team at ACCESS and Nakaseke hospital. She also received training in HEARTS materials and was involved in caring for the NCD patients in both the Nakaseke based and

ACCESS based NCD clinics.

She interacted with the EKFS Yale sponsored students who visited ACCESS during her rotation. She participated in the training of the NCD CHWs that took place at the ACCESS premises in Nakaseke.



OUR **PEOPLE**

OUR PEOPLE

Miss Estherloy Katali

She is the managing director of ACCESS since January 2018. She has been keen in supporting implementation the EKFS-NCD program activities and overseeing the overall management of

Estherloy earned her

University.





James Ssewanyana

He is a clinical officer by training, co-founder and deputy executive Director of ACCESS Uganda. He is known in Nakaseke as Musawo (doctor).

He lives and works with ACCESS in Nakaseke. James serves as the primary clinician at Life Care Center, and oversees ACCESS programs in Nakaseke.



Alex Kayongo

He is a postgraduate research fellow serving as a research scientist under the EKFS funded Center of Excellence for NCDs in Nakaseke district.



Mrs. Faith Nassali

our NCD Project Coordinator, who is currently pursuing a Master's degree in Public Health at Makerere University School of Public Health. She has played a significant role in implementing the



Kyanzi Taddeo

Meet Mr. Kyanzi Taddeo, the driver for the EKFS-ACCESS NCD program. He has been key in ensuring that our staff are transported for outreach programs.

He is a medical doctor and currently a master's student in Immunology and Clinical Microbiology at Makerere University College of Health sciences. His passion is to understand the interaction between NCDs and HIV in rural Uganda. He has been very key in designing and implementing protocols in the program including hospital and community components of the PocketDoktor study. He has also played a key role in teaching visiting fellows from Germany and the United states.

NCD project. Faith has been key in organizing protocol training sessions, good clinical practice (GCP), protection of human research participants (PHRP) workshops for Community Health Workers (CHWs) implementing the PocketDoktor study. In addition, she has been conducting quality assurance (QA) sessions for the project, holding monthly meetings with CHWs to go over SOPs for the project. She has also assisted in preparing monetary reports and working on requisitions to ensure smooth running the program activities.

He has also been helpful in picking and dropping off visiting scientists from the airport.

Dr. Robert Kalyesubula — Winner of the 2018 Grassroots Champion Award!





OUR **HONOR**

he Segal Family
Foundation believes
in a world where
development is steered
by grassroots leaders and
power is shifted into the
hands of communities.

The Foundation works across Sub-Saharan Africa and strive to be true partners to our grantees. They want to change the power dynamics inherent in traditional philanthropy and prove that a new, more equitable, and responsive approach is not only more fair, but more effective.

They are building an equitable community of visionary organizations—both doers and donors—across Sub-Saharan Africa so that together they can improve the lives of millions.

Outstanding leaders are at the helm of the exemplary partner organizations. Each year the Segal Family Foundation recognize these hard-working leaders during their Annual Meeting. e's a doctor, a senior lecturer, a PhD candidate, and the founder of our partner African Community Center for Social-Sustainability (ACCESS).

And now he's the winner of our 2018 Grassroots Champion Award! Please congratulate
Dr. Robert Kalyesubula,
who has maintained
deep connections with
his community in Uganda
through establishing a
nursing school, a clinic, and
a network of community
health workers, as well as
supporting orphans and
vulnerable children through
scholarships."



SHARING THE IMPACT

Hope of a heart diseased patient restored through generous holistic care and support by Else Kröner-Fresenius-Stiftung.



Musawo Sewannyana assessing Janet. Photo taken with Janet's permission

SHARING THE IMPACT OF

protocol received Janet and eet Janet, a 65 year old female peasant from assessed her condition. He found Kyanika Bamunanika out that Janet's condition was in Luwero. She was diagnosed indeed more than hypertension with high blood pressure 5 years and malaria. "Janet had a low ago. Despite the effort to look grade fever" he reported. What for blood pressure medications was astonishing was a finding of a from different health Centers in systolic murmur and an irregular Nakaseke and medical camps. heartbeat. Musawo Sewannyana sometimes she could go without measured her blood pressure taking any medications to control and random blood glucose her blood pressure. Six months which he found at 140/80 and ago, adding to the already 6.5mg/dl respectively. He also complicated health of Janet, she measured her weight, height and waist circumference. With the developed relentless on and off fevers and joint pains which newly developed NCD charts at she initially thought was malaria. the clinic, Musawo Ssewanyana Musawo Ssewanyana, a health was able to perform a relevant care worker based at ACCESS assessment of the patient.

NCD clinic and trained in HEARTS

In a found whith the sion the war and the sion the war and the sion at the sion and the sion and

In addition he performed an ECG which revealed atrial fibrillation, a heart rhythm disorder affecting the upper chambers of the heart and left ventricular hypertrophy. He wasn't in position to do further tests given the lack of capacity at the clinic. He instead instituted treatment for high blood pressure, gave an antibiotic and counselled the patient on healthy lifestyle including reduction on salt intake. Janet has been attending care at ACCESS for the last six months. She reports that her general health has improved significantly thanks to the care at the NCD clinic.

Four of five people who die from CVD are killed by either a heart attack or a stroke according to World Health Organization. When the community is empowered through taking charge of their health, the impact can be enormous. This story illustrates how learning and putting into practice skills of assessing patients with suspected cardiovascular diseases (CVD) by lower health care workers can have long lasting impact on the health status of peasants who can not afford care from tertiary centers or highly specialized personnel (cardiologists).

Many thanks to Else Kröner-Fresenius-Stiftung which sponsored the pilot phase of the HEARTS protocol training in 2017 at Nakaseke General Hospital. Through continued support, we plan on continuing with the HEARTS training targeting low cadre health workers and Village health Team (VHTs) to increase awareness of CVD in the community.

EKFS SUPPORT AT ACCESS

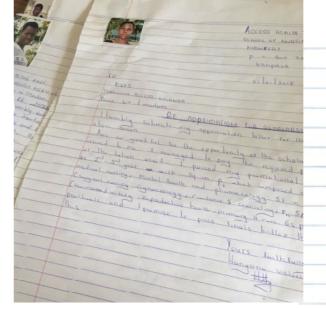
We hope that our efforts will curb the raising prevalence of CVDs in rural communities of Nakaseke. Let us all work together to achieve the 25 by 25 goal of reducing premature mortality from NCDs by 25% by 2025.

CONFERENCE CALLS

FOR CAPACITY BUILDING

l o monitor project progress and increase rigor of the program, we have been having twoweekly conference calls attended by the project principal investigators from Germany, USA and Uganda, the implementation team in Uganda comprised of the program director, administrator, and research fellows.

During these conferences, we discuss weekly updates from the assigned team, troubleshoot challenges faced during implementation, go through data collected from our current research projects, discuss possible publications and grant applications to continue supporting the program.



THANK YOU!

1st. february 2017 ACCESS HEAGH TRAINING MISTING 10: CKF S Sponsor RE: THANKING YOU FOR SCHOLARSHIP. I am by names of Heimenta Cherry a student midwigging of sects completing in november 2013. I am grateful to write to you at this moment thanking you for the contribution, you have rendered towards my course in veniter pour. I was trinking about where to get money from to complete my course offer loving my father who was paying my totion but now I am convertising in class and I am performing well I got a credit in my promotionals of 1st. 2nd year and iam 31 promising to improve and get a distinction the next exame on going to do. I am now stress free thanks for the love you have Whown me and upu have really helped me. I also worked of Marind Haspital for my intern to improve on on my procticals and i gained while. May the lord give you blessings in whatever you are doing I will be grateful if my thanks are postively Convidered.

P.O BOX 28993

