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## **CENTRE FOR GLOBAL HEALTH RESEARCH (CGHR), KISUMU, KENYA**

### **PARENT ORGANIZATION: KENYA MEDICAL RESEARCH INSTITUTE**

**VISION:** To be a leading centre of excellence for research in human health

**MISSION:** To improve human health and quality of life through research, capacity building, innovation and service delivery

**MOTTO:** “In search of better health” towards the realization of our vision

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### **LOCATION: KISUMU, WESTERN KENYA.**

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1. Initially named Malaria and Other Protozoal Diseases Centre (MOPDC)
2. Later changed to Vector Biology and Control Research Centre(VBCRC)
3. Then: Centre for Vector Biology and Control Research (CVBCR)
4. Finally in 2006 Centre for Global Health Research (CGHR)

## **CENTRE FOR GLOBAL HEALTH RESEARCH: MANDATES**

- **Epidemiology and control; Infectious/non-communicable/lifestyle diseases**
- **Molecular biology, Immunology, pathophysiology and genetics of diseases of public health importance.**
- **Vectors of diseases: Biology/ecology/development/control tools**
- **Insecticide resistance**
- **Clinical trials and monitoring drug resistance.**
- **Climate change and human health.**
- **Behavioral/social science research in public health**
- **Emerging and re-emerging diseases.**
- **Training and capacity building in public health.**
- **Providing leadership in health research**

## ***INFRASTRUCTURE: AERIAL VIEW OF CGHR: KISIAN***



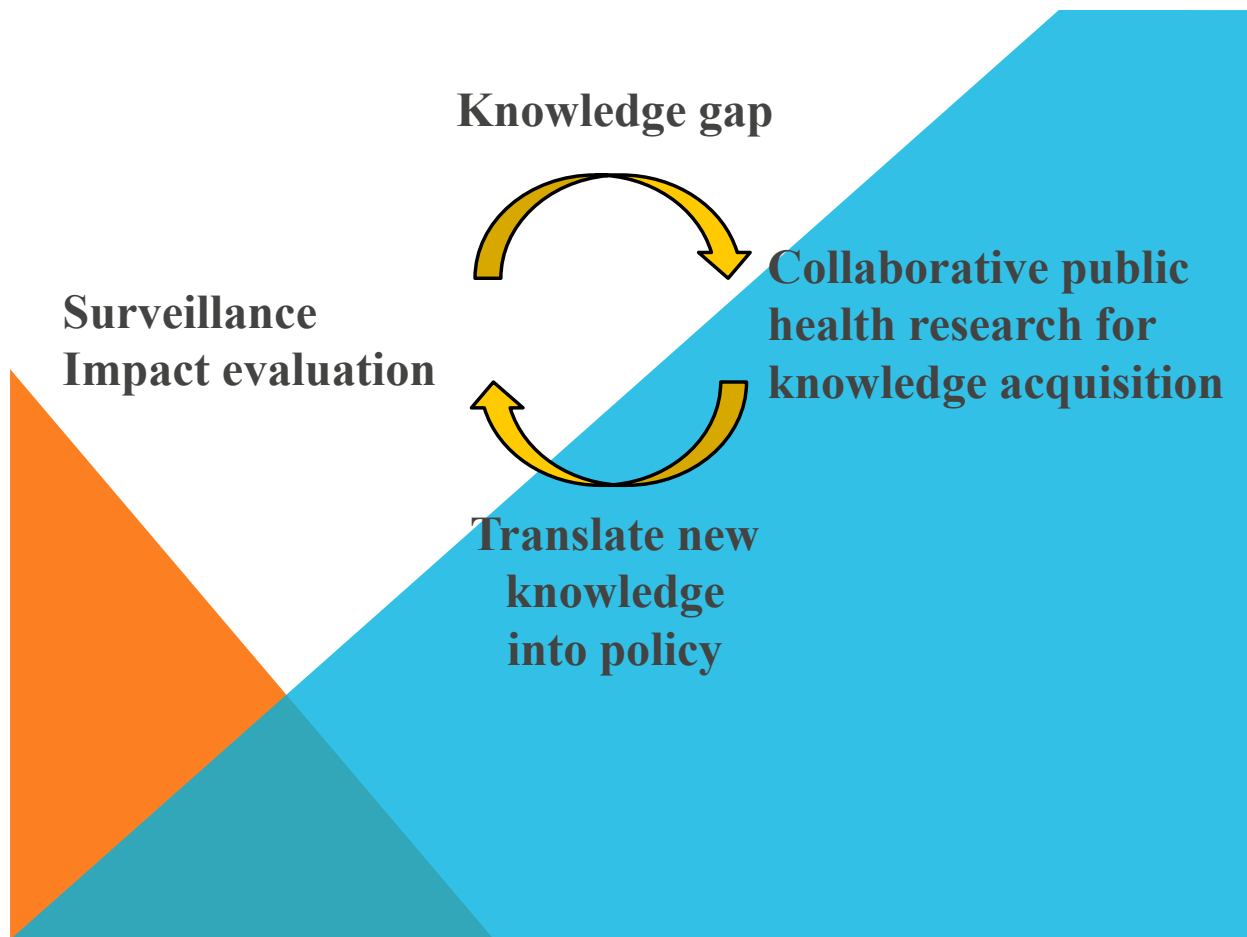
## CLINICAL RESEARCH CENTER LABS : NEW NYANZA PGH GROUNDS

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## ENTOMOLOGY AND INSECTORY LABORATORIES KISIAN





## NYANZA REGION

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- Malaria: Highest incidence in country;  
High prevalence of drug resistance
- HIV: Highest prevalence in country  
Well-developed programmatic support (testing, care, treatment)
- TB: Greatest burden in Kenya
- Other infectious diseases:
- Schistosomiasis endemic
  - Diarrhea (*Shigellae* including *dysenteriae*, cholera, rotavirus)
  - Cancers and lifestyle diseases



## ACTIVITIES: PAST AND PRESENT

- 1979 - focus on malaria
- 1980s -Mosquito work (ecology etc) and community malaria control
- 1990s - ITN efficacy trials, Insecticide resistance work
  - Malaria and pregnancy studies
    - IPTp clinical trial establishing efficacy
    - Vertical transmission study
- 2000s
  - Climate and human health
  - Schistosomiasis and NTD
  - Continued malaria research (malaria vaccine)
    - Established Demographic Surveillance System (DSS)
  - HIV research (HIV-R)
    - Development as PAVE-100 HIV vaccine site
  - International Emerging infections Program (IEIP)
    - Rotavirus vaccine trial began in 2007
  - TB research and development as TB vaccine trial site
  - Global Aids Program/Programmatic work

## LIST OF RESEARCH ACTIVITIES

- Health and Demographic Surveillance
- Malaria Research
- Tuberculosis Research
- HIV Research
- Neglected Tropical Diseases
- Epidemiology, Surveillance, and Informatics
- Laboratory, Blood Safety, and Infection Control
- International Emerging Infections Program (IEIP)
- Influenza Program
- Refugee Health Program
- Field Epidemiology Training Program
- Integrated Animal-Human Health Program
- Emergency Health and Preparedness
- Diagnostics and Laboratory Support Program

## RESEARCH CAPACITY (SUPPORT STRUCTURES)

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ICT

Finance/Accounts

Administration/HR/Communication

Procurement and supplies

Library

Maintenance and engineering

Staff Clinic



### HUMAN RESOURCE ESTABLISHMENT

	scientists	technologist	Support/ Other	Total
<b>KEMRI</b>	<b>17</b>	<b>9</b>	<b>66</b>	<b>92</b>
*CDC	50	100	1100	1250
*UNM	5	3	12	20
*ITM	3	0	5	8
*CWRU	5	2	20	27
*UGA	1	2	5	8
*UM	3	1	23	27
*Others	8	5	10	23
<b>Total</b>	<b>92</b>	<b>122</b>	<b>1241</b>	<b>1455</b>

## CHALLENGES

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Space issues

Resources

Timely response/communication from HQ

Staffing – retention, attracting especially those on contracts

Infrastructure maintenance

Centralized operations



## STRENGTHS

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Location

Infrastructure

Trained and dedicated staff

Community liaison and dissemination

Excellent Research track record

- Large no of completed projects (funder confidence)
  - Large number of on going projects
  - Large no of collaborators
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EMPOWERING COMMUNITIES  
SPREADING HEALTH  
CHANGING LIVES

**COHESU**

COMMUNITY HEALTH SUPPORT PROGRAMME

Goals and objectives:  
To promote and implement sustainable health practices that promote individual and community well-being while maintaining gender, age and environmental sensitivity

## LOCAL PARTNERS





# REGULAR LOCAL PARTNERS

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- **U-WASH** – KISUMU COUNTY (Community Water and Sanitation)
- **WEWOCS** – VIHIGA COUNTY (Women, Widows, Orphans, Vulnerables)
- **SOLOGO** – VIHIGA COUNTY (Youth Rehabilitation)
- **FASCOBI** – KISUMU COUNTY (Family Health)
- **LIFE FOR CHILDREN MINISTRY** – KISUMU COUNTY (Orphans, Vulnerables)
- **AMATEUR** – BUSIA COUNTY (Community Health – Using the Arts)
- **TOMS-RED CROSS; AHADI KENYA; CAROLINA FOR KIBERA; ETC (9)-NATIONAL**
- **ADAMS SCHOOLS** – RUSINGA ISLAND (Vulnerable children)



## CURRENT FOCUS

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- **Water and sanitation**
- **Soil transmitted diseases**
- **Health communication**
- **Orphans and vulnerable children:**
  - School feeding program
  - Uniforms
  - Fees





**USOMA VILLAGE**

- Proposed Borehole Site
- Donated Land Parcels
- Shallow Wells

- Beach / Fishing Centers
- Airport / Roads Construction
- Airport

- Usoma Dispensary
- Seasonal Dams
- Kenya Pipeline Depo

**BURDEN OF WATER- UNSAFE WATER FOR COMMUNITIES AROUND THE LAKE**



**LAKE VICTORIA:- UNSAFE WATER FOR DOMESTIC CONSUMPTION**

## HAPPY MOMENTS - UWASH WATER AND SANITATION



## HAPPY MOMENTS - SAFE WATER AND SANITATION



# SCHOOLS AS A PLATFORM FOR HEALTH PROGRAMS

COHESU EXPERIENCE - THE YOUNGER THE BETTER

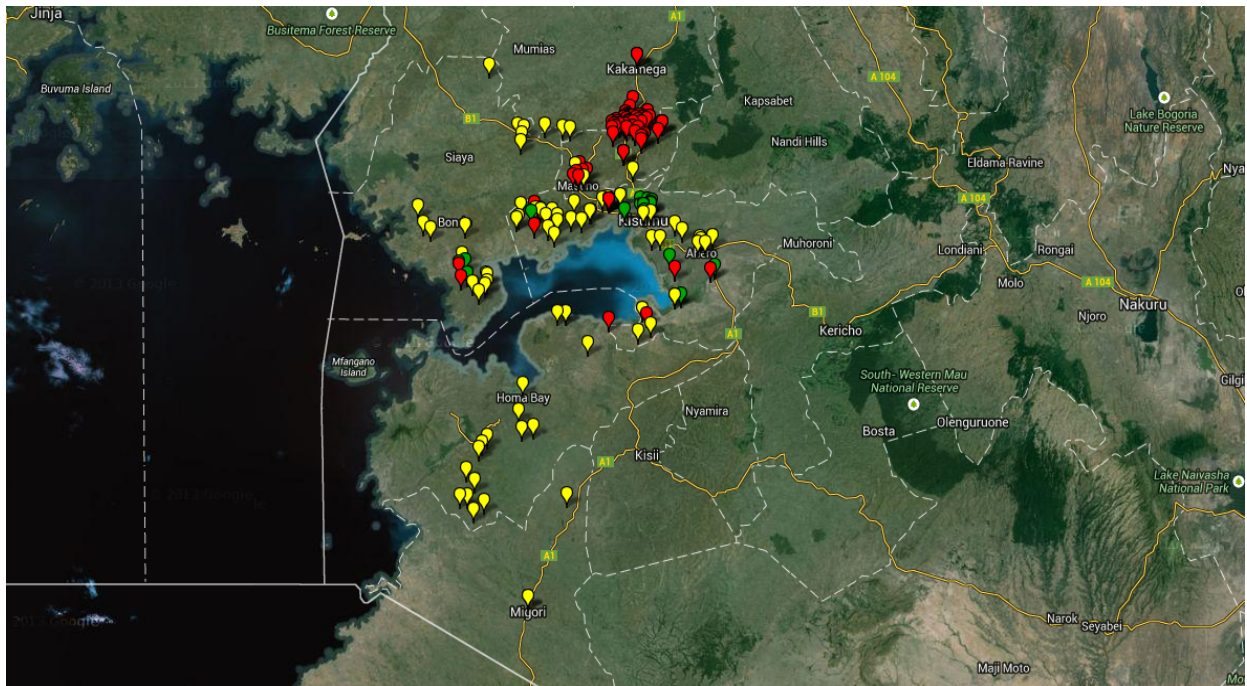
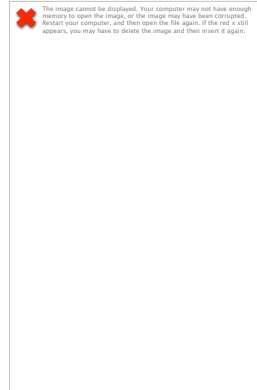
TOMS

One for One



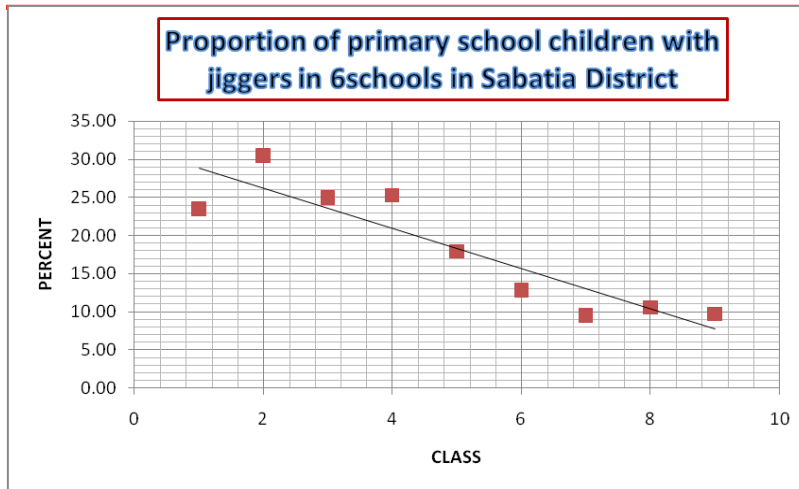
TEACHER  
TRAINING FOR  
SHOE GIVING

# HAPPY RECIPIENTS OF TOMS SHOES



## MAPPING OF JIGGERS IN WESTERN KENYA (ONGOING)

# RATES OF JIGGERS IN WESTERN KENYA



## JIGGERS TREATMENT



## GIRL-CHILD-PADS ON TOMS PLATFORM



## ORPHANS ON A SCHOOL LUNCH/UNIFORMS PROGRAM-



## HEALTH COMMUNICATION



**HEALTH INFORMATION FOR SCHOOLS WHERE STUDENTS HEALTH QUESTIONS CAN BE ADDRESSED AND STUDENTS CAN EXPRESS THEIR CONCERNS THROUGH ART AND ESSAY WRITING**

**THANK YOU**

