UNIVERSITY OF NAIROBI  
COLLEGE OF HEALTH SCIENCES  
INSTITUTE OF TROPICAL & INFECTIOUS DISEASES (UNITID)  

ANNUAL REPORT 2012

Director: Prof. Walter Otieno Mwanda  
Deputy Director: Prof. James Machoki M’Imunya  
Administrator: Ms. Elizabeth Wanjiru Kibuna

Introduction

UNITID is in its nine (9) years of existence since its establishment in 2003. Both the Director and Deputy Director remained in office until 17th December, 2012, when a new Director was appointed. The Institute has one Administrative Assistant.

Courses Offered

As in the past, only Postgraduate courses are offered in the Institute. These include: Postgraduate Diploma on Research Methodology (PGDRM), Master of Science in Tropical and Infectious Diseases (MSC. TID), Master of Science in Medical statistics (MSC. MEDSTAT) and PhDs.

<table>
<thead>
<tr>
<th>Programme</th>
<th>Programme Duration</th>
<th>Year of Study</th>
<th>No. of Students</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Postgraduate Diploma in Research Methodology (PGDRM)</td>
<td>9 months</td>
<td>2011/2012</td>
<td>6</td>
</tr>
<tr>
<td>2. MSc. Tropical and Infectious Diseases (MSC. TID)</td>
<td>2 Years</td>
<td>Year 1</td>
<td>9</td>
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<td></td>
<td></td>
<td>Year 2</td>
<td>9</td>
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<tr>
<td>3. MSc. Medical Statistics (MSC. MEDSTAT)</td>
<td>2 Years</td>
<td>Year 1</td>
<td>7</td>
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<td></td>
<td></td>
<td>Year 2</td>
<td>8</td>
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<tr>
<td>4. UNITID Fellowship</td>
<td>2 Years</td>
<td>Year 1</td>
<td>14</td>
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<td></td>
<td>Year 2</td>
<td>12</td>
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<tr>
<td>5. PhDs</td>
<td>3 Years</td>
<td>Year 3</td>
<td>7</td>
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</tbody>
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Short Courses

1. A 2-week international course in Multi-Variable Statistics Using Stata 12 Software was held between 20th August, 2012 to 31st August, 2012. Participants were drawn from the following countries: Kenya (9), Ethiopia (1), Zimbabwe (1), Uganda (1), Ghambia (1) and Tanzania (1). Sponsorship: Danida through the DBL Centre for Health Research and Development, University of Copenhagen.
2. Micro-Research workshop: A two weeks workshop on community based research was held between 15th October, 2012 to 28th October, 2012 in collaboration with staff from Dalhouse University, Nova Scotia, Canada.
3. UNITID-Fellowship Programme short courses:
   - HIV Epidemiology course was held between 30/1/2012 to 1/2/2012 in Nairobi. 45 Participants were trained.
   - Monitoring and Evaluation for Health Programs course was held between 13/2/2012 to 15/2/2012 in Nairobi, 42 Participants were trained.
Human Capital Development for Health Programs course was held between 5/3/2012 to 7/3/2012. 40 Participants were trained.

Project Planning and Implementation course was held between 28/3/2012 to 30/3/2012 in Nairobi. 42 Participants were trained.

Financial Management course was held between 9/5/2012 to 11/5/2012 in Nairobi. 45 Participants were trained.

Biostatistics course was held between 25/6/2012 to 29/6/2012 in Nyeri. 40 Participants were trained.

Development and Implementation of M&E Plans course was held between 2/7/2012 to 6/7/2012. 45 Participants were trained.

Biostatistics course was held between 30/7/2012 to 3/8/2012 in Eldoret. 38 Participants were trained.

Development and Implementation of M&E Plans course was held between 26/8/2012 to 1/9/2012. 45 Participants were trained.

ICT Enabled Health Data Management course was held between 3/9/2012 to 7/9/2012 in Mombasa. 47 Participants were trained.

Biostatistics course was held between 30/9/2012 to 6/10/2012 in Nairobi. 33 Participants were trained.

Research Activities

The following research activities took place or continued in 2011/2012 academic year:

1. Alleviating childhood malnutrition by improved utilization of traditional foods (WINFOOD)
2. Treatment of childhood under nutrition: Development of and access to improved foods (TREATFOD)
3. A clinical trial agreement on phase III open label randomized comparative study to evaluate Azithromycin + Chloroquine and Sulphadoxine + Pyrimethamine combinations for intermittent preventive treatment (IPT) on falciparum malaria infection in pregnant women in Africa. A multicentre clinical trial project involving Siaya District Hospital. Protocol # A06611158 – 1004
4. A clinical trial agreement o phase III open label, non comparative study to evaluate parasitological clearance rates and pharmacokinetics of Azithromycin and Chloroquin (AZCQ) in asymptomatic pregnant women with plasmodium falciparum parasitaemia in sub-saharan Africa. Protocol # A0661201 – 104
5. Harnessing mobile phone usage for HIV and horizontal health systems improvements (PMTCT)
6. A Double blind, randomized trial of monthly treatment with tropical metronidazole co-formulated vaginal suppositories versus placebo for preventing vaginal infections in HIV seronegative women
7. Increased access to quality comprehensive HIV prevention services for most at risk populations in Nairobi County
8. Pregnancy & HIV risk infections (HAPI Study) Nyando District, Kisumu
10. Gender – Specific combination HIV prevention for Youth in High Burden settings (MP3 – Youth)

Collaboration & Linkages

The following links and partnerships were established during the 2011/2012 academic year and are still on going:

International

1. The University of Nairobi/ University of Manitoba, Canada
2. The University of Nairobi/ University of Washington, Seattle
3. The University of Nairobi/ University of Copenhagen, Denmark
4. The University of Nairobi/ Centre for Disease Control & Prevention (CDC)
5. The University of Nairobi/ Pfizer Laboratories, South Africa

Local

1. Nairobi City Council/ Public Health Department
2. Pumwani Maternity Hospital
3. Tigon District Hospital
4. Kenya Medical Research Institute (KEMRI)
5. Kenyatta National Hospital
6. Siaya District Hospital

PUBLICATIONS IN REFERRED JOURNALS

1. Peter Kipkurui Yegon: Predictors of Early Mortality in HIV Infected Patients starting 1st Line ART, 2010/2012
3. Dr. Lillian Nkirote Njagi: Antimicrobial Susceptibility Patterns of Bacterial Isolates from Urine Samples Amongst Paediatric Patients As Seen on Routine Bench in Bacteriology Lab in a Private Sector City Hospital. A Retrospective Study, November 2012
4. Dr. Nernard Mokaya Nyakundi: Assessment of Laboratory Diagnostic Tests and Antimicrobial Treatment Typhoid at the University of Nairobi Health Services, November 2012
5. Jacklyne Ashubwe-Jalemba: Prevalence of Astroviruses in Children Under Five Years With Acute Diarrhoea At the Kenyatta National Hospital, November 2012
11. Dr. Eric Munene Muriuki: Appraisal of HIV Post Exposure Prophylaxis Program amongst Sexual Assault Victims at Kenyatta National Hospital, October, 2012
14. Dr. Evelyn Ndunge N. Determinants of adherence to Postnatal PMTCT Program Amongst HIV+ Mothers in KNh, November, 2012
15. Samuel Kanerere Njenga: Bacterial Enteropathogens in Adult Acute Diarrhoea: A Retrospective Survey at the Kenyatta National Hospital, July 2012
Consultancies

1. Malaria Case Management Training Consultancy in Central Province
   A Phase 3 Open Label, Randomised Comparative study to evaluate Azithromycin plus Chloroquine and sulfadoxine plus pyrimethamine combinations for intermittent preventive treatment of falciparum malaria infections in pregnant women in Africa.

2. An Open Label, non-comparative study to evaluate parasitological clearance rates and pharmacokinetics of Azithromycin and Chloroquine following administration of a fixed dose combination of Azithromycin and Chloroquine (AZCQ) in asymptomatic pregnant women in Plasmodium falciparum parasitemia in sub-saharan Africa.

2011/2012 Graduants in the Institute

1. MSc. Tropical and Infectious Diseases 9
2. MSC. Medical Statistics 5
3. Postgraduate Diploma in Research Methodology 12
4. UNITID-Fellowship Graduants in 2012 1