



Malaria Diagnostic Centre of Excellence

KEMRI-Walter Reed Project



Malaria Diagnostic Centre of Excellence
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Introduction

Malaria Diagnostic Centre of Excellence (MDCoE), KEMRI-Walter Reed Project, Kisumu was established in 2003. The centre conducts microscopy training twice annually and on as per request basis.

280 participants have been trained from 17 countries - Kenya, Uganda, Tanzania, Zanzibar, Rwanda, Burundi, Malawi, Mali, Nigeria, Ghana, Gabon, Gambia, Cameroon, Thailand, Senegal, Burkina Faso, Guinea Bissau.

Malaria microscopy is still the "Gold" standard for malaria prevention; drug and vaccine, treatment and diagnostic trials and for epidemiology. Though microscopy is an imperfect gold standard, it's accuracy depends on innate ability, training experience and motivation.

On methods available to quantify parasitemia this needed in management of severely ill children

Objectives

The objectives of the course are:

- Underlining the problems of microscopy in clinical trials of malaria drugs and vaccines and clinic
- Standardizing microscopy methods, procedures and practices
- Understanding Clinical management of malaria
- Emphasizing the quality assurance and quality control in malaria diagnosis
- Improving and or demonstrating improvement in proficiency testing
- Accurately enumerating of parasite density
- Evaluating microscopists on examinations of key concepts
- Sharing experience and skills among participants from different organizations and countries
- Certification of qualified Microscopists so as to perform at basic, advanced and expert levels

Entry Requirements

The training targets malaria microscopists from research and clinical laboratories.

Applicants should have:

- At least a certificate or diploma in Medical laboratory technology and one years experience as malaria microscopist.
- Be proficient in spoken and written English

Course duration

Long course Three weeks
Short course Two weeks

Course Outline

The course covers the following:

- Goals of the training
- Trials and tribulations of Microscopy
- Over view of Good Clinical and Laboratory Practice (GCLP)
- Development of Standard Operating Procedure
- Clinical presentation of malaria
- Life cycle of malaria
- Qualities of a good Microscopist
- Preparation of stains and buffer
- Slide preparation and staining
- Species identification
- Approach to mixed infections
- Artifacts, psuedoparasites and false positives
- Counting basics and techniques
- Low density infections
- Slide storage, documentation and archiving
- Malaria quality assurance and control
- Other diagnostic techniques
- Basic care, maintenance and quality control of equipment

Resources

- The venue for training is the Malaria Diagnosti Centre of Excellence, Kondele.
- Laboratories at Kondele and Kombewa sites are used for practicals
- Courses are conducted by experienced facilitators and senior microscopists
- Essential equipment and supplies are available for use
- Appropriate learning materials and tools are provided to all course participants

Teaching Methodology

Variety of techniques are used either singly or in combination to enhance maximum learning:

- Supervised Lab practicals (50% of the time)
- Lectures
- Open Lab time
- Group discussions/presentations
- Role play
- Demonstrations
- Take home assignments

Assessment

Will be done through

- Pre and post test written examination (MCQ)
- Pre and post slide reading test (Positive/Negative)
- Pre and post parasite counting test
- Pre and post species identification test
- Practical assessment on smear preparation and staining

Reference materials

- WHO Malaria bench aids, WHO Malaria yellow book, lecture notes, CD and slides are given.

Award

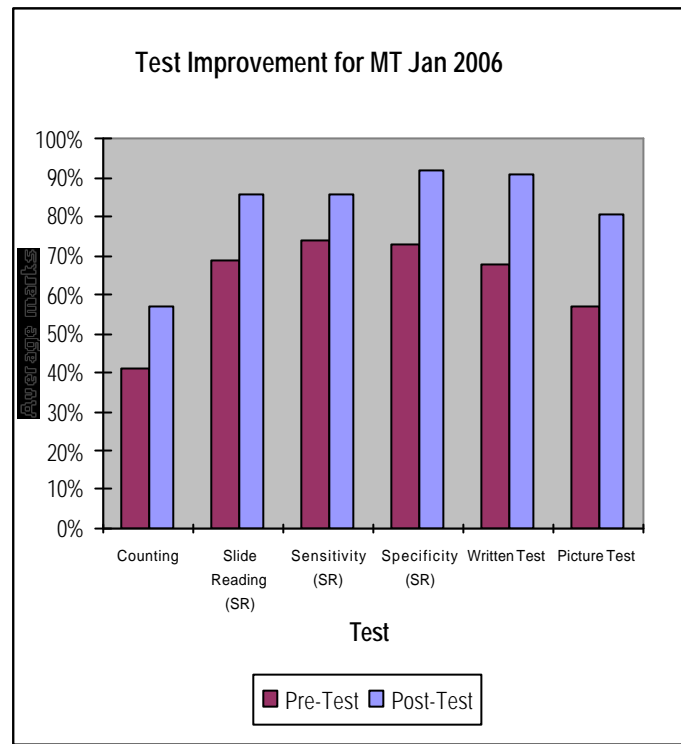
- Certificate of attendance awarded on successful completion of the course.
- Certification of microscopists from 2008.

Training

Tuition fee is Kshs 60,000 or US\$ 895 subject to change.

Sponsor to pay for travel, accommodation, meals and allowances.

- *Accommodation*
Ranges between Kshs 1,800 to 4,500
- *Meals*
At the training venue costs Kshs 500 per day
- *Transport*
Transport during the training is provided by CoE



Other Information:

Travel - By Air

- Air - Kenya Airways, Tel +254 3274747
Email reservations@kenya-airways.com
- East Africa Airline, Tel. +254 20 241124-8
Email reservations@easa.co.ke

Incase of stop over in Nairobi:

- **Accommodation:** Kenya Comfort Hotel
Tel +254 20 317 606-9 Fax + 254 20 317 610
www.kenyacomfort.com
- **Transport:** Andrew - andrewzac@yahoo.com
Tel +254 721 206 583 or +254 721 480 274

By Road

- Akamba Public Road Service, Lagos Road - Next to Marble Arch Hotel. Tel +254 20 556062
Email akamba@skyweb.co.ke
- Easy Coaches, Haile Selasie Avenue, Next Railway Uchumi Supermarket. Tel +254 20 556 773
Email easycoach@wananchionline.com

Accommodation:

- Imperial Hotel +254 57 2022211
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