BOOK REVIEW

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Title: District Laboratory Practice in Tropical Countries
Part 1 Second Edition
Author: Monica Cheesbrough

Publisher: Cambridge University Press

Part I Contents
Chapter 1 Organization and staffing of district laboratory services
1.1 Importance of laboratory practice in district health care
1.2 Structuring of a district laboratory network.
1.3 Training and continuing education of district laboratory personnel
1.4 Code of conduct for laboratory personnel and status of medical laboratory practice

Chapter 2 Total quality management of district laboratory services
2.1 Ensuring a reliable and quality laboratory service
2.2 Selection of tests and interpretation of test results
2.3 Financing district laboratory services and controlling costs
2.4 Quality assurance and sources of error in district laboratory practice
2.5 SI Units
2.6 Guidelines for preparing stains and reagents
2.7 Communicating effectively.

Chapter 3 Health and safety in district laboratories
3.1 Implementing a laboratory health and safety programme.
3.2 Safe laboratory premise and personal safety measures
3.3 Microbial hazards
3.4 Decontamination of infectious material and disposal of laboratory waste
3.5 Chemical and reagent hazards
3.6 Equipment and glassware hazards
3.7 Fire safety
3.8 Emergency First Aid

Chapter 4 Equipping district laboratories
4.1 Selection, procurement and care of equipment
4.2 Power supplies in district laboratories
4.3 Microscope
4.4 Equipment for purifying water
4.5 Equipment for weighing
4.6 Equipment for pipetting and dispensing
4.7 Centrifuges
4.8 Laboratory autoclave
4.9 Incubator, water bath, heat block
4.10 Colorimeter
4.11 Mixers
4.12 General laboratory-ware for district laboratories
Chapter 5 Parasitological tests
5.1 Parasitology in district laboratories and quality assurance of tests
5.2 Features and classification of parasites of medical importance
5.3 Direct examination of faeces and concentration techniques
5.4 Identification of faecal protozoan trophozoites, cysts and oocysts
5.5 Identification of helminth eggs and larvae found in faeces
5.6 Examination of urine for Schistosoma haematobium eggs
5.7 Examination of blood for malaria parasites
5.8 Examination of blood, lymph fluid, and c.s.f for trypanosomes causing African trypanosomiasis
5.9 Examination of blood for Trypanosoma cruzi
5.10 Examination of specimens for Leishmania parasites
5.11 Examination of blood for microfilariae in lymphatic filariasis and loiasis
5.12 Examination of skin for Onchocerca volvulus microfilariae
5.13 Examination of sputum for Paragonimus eggs
5.14 Less frequently needed tests:
1 Investigation of amoebic liver abscess
2 Investigation of primary amoebic meningoencephalitis
3 Diagnosis of toxoplasmosis
4 Diagnosis of hydatid disease
5 Examination of muscle tissue for Trichinella spiralis larvae
6 Detection of Dracunculus medinensis (Guinea worm) larvae

Chapter 6 Clinical chemistry tests
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6.2 Quality assurance of clinical chemistry tests
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6.4 Measurement of serum or plasma urea
6.5 Measurement of blood or plasma glucose
6.6 Measurement of serum or plasma bilirubin
6.7 Measurement of serum albumin
6.8 Measurement of serum or plasma alanine aminotransferase (ALT) activity
6.9 Measurement of serum or plasma alpha amylase activity
6.10 Measurement of sodium and potassium in serum or plasma
6.11 Urine tests
6.12 Cerebrospinal fluid (c.s.f) tests
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District Laboratory Practice in Tropical Countries
Part 2 Second Edition
Author: Monica Cheesbrough

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Bacterial pathogens
Fungal pathogens
Viral pathogens

COLOUR SECTION

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**Book overview**

An interesting multi-disiplinary book for investigational tests at district level. The information presented in the book cover the requirement of investigations preparation, clinical chemistry, microbiological investigations, haematological investigations and parasitological investigations. The book is suitable for laboratory investigation students training. Additionally, the book is with simplified information for students studying pathological laboratory investigations, undergraduate and postgraduate microbiology studying students.

**Aalborg Academy of Science**
**College of Medicine**

**Diploma Program in Health Profession Education**

**Program Category:** Education  
**College:** Medicine  
**Program Level:** Diploma  
**Teaching Methods:** Full- time or Part- time.  
**Program Starting Date:** open  
**Teaching Language:** English  
**Program Duration:** Full-time 1 years; Part –time: 2 years.  
**Application Date:** open  
**Credit Hours:** 40  
**Program Code:** AAS-COM  
**Program Degree:** Diploma in Health Profession Education  

**Entry Requirement:**  
Candidates who at least hold a Bachelor degree in medical sciences, nursery, and science.

**Program Description.**  
It is a professional, accelerated, feasible and affordable.  
**Professional:** focuses mainly on professional skills, rather than abstract theories, highly needed for medical educators like teaching/learning skills, curriculum design, and students’ assessment.  
**Accelerated:** 44-week.  
**Feasible:** The student may complete the program by a distance learning course that allows students to stay in their home institutions and learn interactively through e-learning.  

**Description of DHPE**  
- The DHPE is an annual 44-week credit-hour based program, conducted through distance learning.  
- It is formed of 7 blocks, six weeks each. In each of the units, various contributing disciplines are organized around a central theme.  
- The overall theme of the curriculum, which provides coherence to the program as a whole, will be ‘The competencies required for an educationalist in the health professions domain’.