

# CLS 417 Clinical Practice in Microbiology

- **INSTRUCTOR**

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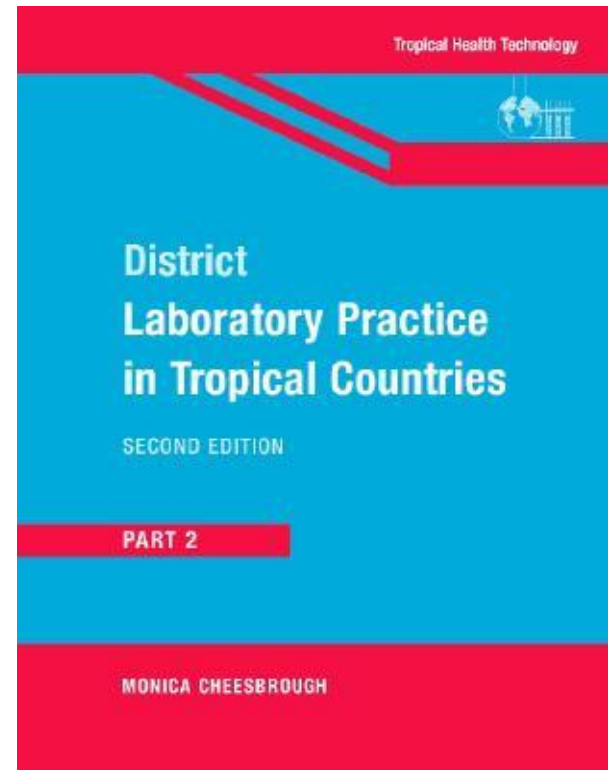
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# CLS 417 Clinical Practice in Microbiology

- **BOOKS:**

**District Laboratory Practice in Tropical Countries. Part 2. by Monica Cheesbrough.**



# CLS 417 Clinical Practice in Microbiology

- **COURSE ASSESSMENT**      Total of 100%

- 1. **Theory Part:**      Total of 70%

- First Midterm Exam : **15%**
- Second Midterm Exam : **15%**
- Final Theoretical Exam : **40%**

- 2. **Practical Part:**      Total of 30%

- Lab Reports: **10%**
- Final Practical Exam: **20%**

# Laboratory

## Safety 101:

- Always wear lab coat
- Always wear gloves when contact with contaminants
- Never eat or drink
- Closed shoes
- Never leave personal items on benches
- Always wash your hands before leaving the lab.

# CLS 417 Course Outline

1. **Introduction:** Specimen Requisition, Rejection Criteria, Critical Values.
2. **Urine Analysis:** Urine specimens types, collection, processing.
3. **Urine Culture:** processing, pathogens isolated, sterile pyuria.
4. **Blood Culture:** indications, collection, Manual / Automated processing
5. **Sputum culture:** indications, collection, routine processing.
6. **Tb Lab:** Culture, staining, automated methods + Antimycobacterial susceptibility testing

# CLS 417 Course Outline

6. **Stools specimens:** indications for culture, pathogens isolated from faecal specimens.
7. **Stools for culture:** Isolation and identification of different organisms.
8. **Parasitology lab:** most commonly isolated.
9. **General Bench specimens:** CSF / Pus / Ear/Conjunctiva / Genital / Nasal / Throat- indications, collection, processing.
10. **Serology lab:** Widal, CFT, ASO, Syphilis tests, Pregnancy test, TORCH, organ transplant, matching(MHC)& FC.
11. **Virology Lab:** Tissue culture types, CPE, CPE / EIA / Immunofluorescence.
12. **Mycology lab:** Rapid review in diagnosis of common fungal infections, microscopic examination and culture of specimens in Mycology.