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Section: Education Manual	Subject Title: Mycology - Training Manual for Students	
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MYCOLOGY - TRAINING MANUAL FOR STUDENTS

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Reference:

1. Davise H. Larone: Medically Important Fungi, A guide to identification, 3rd. Edition, ASM Press, 1995
2. Guy St – Germain, Richard Summerbell; Identifying Filamentous Fungi, A Clinical Laboratory Handbook, Star Publisher, 1996
3. Martha E Kern: Medical Mycology; Self Instructional Text, F A Davis, 1985 (1997)
4. Selected Reference Articles

The student should know the following:

1.0 ***Processing of Specimens***

- 1.1 Know about proper mycology specimen collection, transportation and planting and the use of selective and/ or non-selective media
- 1.2 State the appropriate incubation temperature and length of incubation for recovery of various pathogens

2.0 ***Direct Microscopy***

- 2.1 Demonstrate the proper of use of microscopy in the detection of fungal elements in clinical specimens using: Fungi-Fluor (FS), 10% KOH and Calcofluor White (CW)
- 2.2 Explain the different uses, advantages and disadvantages of the FS, CW and 10% KOH

3.0 ***Procedure for identification of Yeast***

- 3.1 Demonstrate the ability to identify various yeasts using Germ Tube, Oxgall, Cornmeal, Urea, EBM, Rapid Yeast ID System, API 20C procedures

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3.2 Explain the principles, uses, advantages and disadvantages of the above methods

4.0 ***Protocol for reporting results as per manual policy***

4.1 Reporting positive FS results in SOFT and phoning critical results to ward

4.2 Reporting positive culture results in SOFT and phoning ward where applicable

5.0 ***Procedures for identification of moulds***

Demonstrate the following methods used: Macroscopic Examination of Cultures, Microscopic Examination of Cultures, Scotch Tape Preparation, Tease Mount Preparation, Slide Culture and Sub-Culture. State the purpose of each step as listed above