

Maharashtra University of Health Sciences,
Nashik

SYLLABUS

Fellowship Course in Cytopathology

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I) Title of the course: **Fellowship Course in Cytopathology**

II) Aims/ Objective and desirability: To train the qualified pathologists in complexities & spectrum of diagnosis in Cytopathology

III) Eligibility Criteria for admission: **Post graduate in Pathology**

(As per general fellowship guidelines: Document)

V) Syllabus / Course contents:

- Normal cytology and cytopathology of various body tissues like lymph nodes, breast, thyroid etc. With reference to all benign and malignant lesions
- Normal cytology and cytopathology of various body fluids
- Normal cytology and cytopathology of material from respiratory tract like sputum, bronchial lavage, bronchial brush with reference to all benign and malignant lesions, Female Genital tract etc.
- CNS squash smears and its histopathologic correlation
- Study of all cytology material with reference to possible false positive and false negative diagnosis
- Study of all cytology material with reference to possible ancillary investigations likely to help in narrowing down the diagnosis (IHC, Cytochemistry etc.)
- Candidate should have adequate Knowledge of :-
Quality Control and Quality Assurance in Cytopathology
Laboratory Hazards and Precautions, Disposal of Laboratory waste

Procedural and practical psychomotor skills

- Performing FNACs of all palpable masses e.g. lymph nodes, thyroid, breast and soft tissues
- Performing guided FNACs (USG, CT)

- Learning about processing of body fluids, urine, sputa, bronchial lavage and brush etc.
- CNS squash smears
- Cytocentrifuge technique
- Performing cyto staining e.g. PAP, Giemsa etc.
- Cell block preparation procedures on cytology material
- Reporting cytology slides
- Correlation of cytology reports with other diagnostic modalities e.g. USG, Cr, Biochemical investigations
- Cytohistologic correlation
- Study of archival material

V) Teaching Scheme :

1)Lectures

2) Practical :Above psychomotor skill

3) Seminar, panel discussion

4) Clinical pathological meeting

5) Journal club

6) Research work to be presented as a paper in conference

VI) Evaluation/ Examination Scheme

1) Attendance: As per general fellowship guidelines (Document A)

2) Logbook and credit hours as per general fellowship guidelines (Document A)

3) Final written assessment: Two papers of 100 marks each

Paper 1 ; Cytology Of Head & Neck, Exfoliative cytology: body fluids, urine,sputum etc Gynaecological cytology

Paper II: Fine needle aspiration cytology of all thoraco-abdominal organs and advanced techniques in cytopathology and staining.

Final practical assessment: Techniques - will include sample processing both exfoliative & FNAC and special techniques like cell block preparation, thick & thin smears for fluids.

Preperation & processing of imprint cytology etc

Cytopathology Slides interpretation

VII) Infrastructure & Staff:

- All the basic infrastructure equipments including Cytocentrifuge , Binocular Microscopes etc are available along with the Library facility.
- Staff & workload as per general guidelines

Text Books & Reference Books

1. Cytopathology – Bibbo W. B. Saunders Company 2nd (1997)/ 3rd (2008).
2. Koss' Diagnostic Cytology and its Histopathology Bases. Fifth Edition, Lippincott Williams and Wilkins. Editor Leopold G. Koss.
3. The Bethesda System for reporting cervical Cytology – Definitions, Criteria and Explinatory Notes. Editors – Diane Soloman, Ritu Nayar. 2nd Edition (2004). Springer – Verlag, New York, Inc.
4. Clinical Cytopathology of the Head and Neck, A text and Atlas. Gabrijela Kocjan. 1st Edition 2001. Greenwich Medical Media Ltd.
5. Atlas and Text of Thyroid Cytology, Geeta Jairam. 1st Edition 2006. Arya Publications.
6. Fine Needle Aspiration Cytology. 4th Edition, 2005. Svante R. Orell. Churchill Livingston.
7. Colour Atlas of Differential Diagnosis in Exfoliative and Aspiration Cytopathology by Sudha R. Kini. Lippincott Williams and Wilkins. 1999.
8. Thyroid Cytopathology Atlas and Text Lippincott Williams and Wilkins. 1st Edition 2008, by Sudha Kini.
9. Gray's Diagnostic Cytopathology. 2nd Edition 2003. Churchill – Livingston – Elsivier. Editor Winifred Gray.
10. Manual of Cyto Preparatory Techniques. Division of Cytology Tata Memorial Hosp. Published by Tata Memorial Hosp. 3rd Edition, 2003.