



DEPARTMENT OF PATHOLOGY

शासकीय वैद्यकीय महाविद्यालय व महाराष्ट्र पदव्युत्तर वैद्यकीय
शिक्षण व संशोधन संस्था मआवि, नाशिक



GOVT. MEDICAL COLLEGE & MAHARASHTRA POST GRADUATE INSTITUTE
OF MEDICAL EDUCATION & RESEARCH M.U.H.S., NASHIK

जिल्हा रुग्णालय आवार, त्र्यंबक रोड नाशिक - ४२२००२
Civil Hospital Campus, Trambak Road Nashik - 422002
Tel: (0253) 2997296, 2539205 Fax (0253) 2539130
Website: www.muhs.ac.in, E-mail: mpgi@muhs.ac.in

LOG BOOK FOR POSTGRADUATE TRAINING PROGRAMME

2024 - 2025



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The Department of Pathology welcomes all residents.

The purpose of PG education is to create specialists who would provide high quality health care and advance the cause of science through research & training.

Every post-graduate resident has to go through 3 years (36 months) of training.

The training of postgraduate student in pathology will be conducted so as to make students professionally competent and confident in handling, processing, and giving diagnosis related to histopathology (surgical pathology), cytopathology, hematology, clinical pathology, clinical biochemistry, Transfusion medicine recent advances and techniques including Immunopathology, Cytogenetics and Molecular biology. Students should gain sufficient knowledge in working of blood banking, laboratory medicine along with understanding of general principles and methodology related to ancillary techniques. The post graduate student in Pathology should understand medical statistics and should be able to conduct research project.

*Dr. Rajendra Chaudhari
Professor & Head
Department of Pathology*

I/C
P.G. Teaching Programme



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DEPARTMENT OF PATHOLOGY

CERTIFICATE

*This is to certify that Dr. _____
has undergone training as a Postgraduate student in Pathology subject for a
period of three years from _____ to _____.
The details of the work recorded in this log book are genuine and carried out
by the candidate himself/herself.*

*Professor & Head
Department of Pathology
GMC & MPGIMER, MUHS Nashik.*



Student's Profile

Name of the Student : _____

Date of Birth : _____

Degree : _____

Institution / University : _____

Medical council Reg. No. & State : _____

Year of M.B.B.S passing: _____

Institution of internship: _____

Date of joining as PG : _____

PG Teacher : _____

Permanent Address : _____

Postal address : _____

Contact No : _____

Blood Group : _____

Email ID : _____

Local Guardian Address : _____

Contact no of Local Guardian : _____

EXPERIENCE BEFORE JOINING PG COURSE

Sr. No.	Experience in	From	To	Hospital / Institute
1	Internship			
2	Junior Residency			
3	Any other			

PG Guide
Dept. of Pathology

PG In-charge
Dept. of Pathology

HOD
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**GUIDELINES FOR COMPETENCY BASED POSTGRADUATE
TRAINING PROGRAMME
FOR
M.D. IN PATHOLOGY**

Goals for MD training programme in Pathology are:

- To gain adequate knowledge of Pathology.
- To be able to teach and train undergraduates, nurses and laboratory staff.
- Able to do Research work.
- Should be able to apply Professionalism, Ethics and Communication skills in work.

SUBJECT SPECIFIC COMPETENCIES

A. COGNITIVE DOMAIN

A postgraduate student upon successfully qualifying the MD (Pathology) examination should have acquired the following BROAD theoretical competencies and should be:

- Capable of offering an accurate diagnostic opinion in a given clinical situation with an appropriate and relevant sample of tissue, blood, body fluid, etc. for the purpose of diagnosis.
- Conversant with the standard operating procedures of various laboratories including histopathology, cytopathology, hematology and laboratory medicine
- Able to teach and share his knowledge and competency with others.
- Capable of pursuing clinical and laboratory-based research.

B. AFFECTIVE DOMAIN

1. The student should show integrity, accountability, respect, compassion and dedicated patient care and demonstrate a commitment to excellence and continuous professional development.
2. The student should demonstrate a commitment to ethical principles relating to providing patient care, confidentiality of patient information and informed consent.
3. The student should show sensitivity and responsiveness to patients' culture, age, gender and disabilities.
4. The student should demonstrate a commitment to ethical principles relating to research conduct and research publication.

C. PSYCHOMOTOR DOMAIN

1. Able to perform grossing of biopsy and surgical specimens.
2. Conversant in histopathology tissue processing techniques and troubleshooting.
3. Able to collect specimens by routinely performing non-invasive out-patient procedures and provide appropriate guidance to colleagues performing procedure.
4. Perform an autopsy, dissect various organ complexes and display the gross findings.
5. Conversant with the function, handling, and routine care of equipment in the laboratory and quality assurance.
6. Able to teach and share his knowledge and competence with others.
7. Able to pursue clinical and laboratory-based research.

At the end of the course, the student should have acquired the planned competencies as a diagnostician in:

- Surgical pathology
- Cytopathology
- Hematology
- Laboratory medicine
- Transfusion medicine
- Autopsy pathology
- Immunopathology
- Immunohistochemistry and flow cytometry
- Cytogenetics and Molecular biology
- Electron microscopy
- Enzyme histochemistry
- Quality Control
- Laboratory Safety and Good clinical lab practices
- Biomedical Waste Management

Syllabus for M.D. Pathology

(A) General Pathology	(B) Systemic Pathology
Normal cell & tissue structure & function	Blood vessels, lymphatic and veins
Acute and chronic inflammation	The Heart
Hemodynamic disorders, thromboembolic disease and shock	Lungs and Mediastinum
Genetic Disorders	The Head and Neck
Neoplasia	The Gastrointestinal Tract
Infectious Diseases	The Liver
Environmental and nutritional pathology	The Biliary tract
Disease of Infancy and Childhood	The Kidney
Immunopathology	Lower urinary tract and male genital system
	The Female genital tract
	The Breast
	The Endocrine System
	Skin and Subcutaneous tissue
	The Musculoskeletal system
(C) Hematology and Transfusion Medicine	
Biology of stem cell and Hematopoiesis	
Erythroid maturation, differentiation, and abnormality	
WBC disorders, complement and immunoglobulin biology	
Storage disorder	

ASSESSMENT

- **FORMATIVE ASSESSMENT**
- **SUMMATIVE ASSESSMENT**

FORMATIVE ASSESSMENT: Assessment to improve learning

Quarterly assessment during the MD training should be based on:

- Case presentation, case work up, case handling/management : Once a week
- Laboratory performance : Twice a week
- Journal club : Once a week
- Seminar : Once a fortnight
- Case discussions : Once a fortnight/month
- Interdepartmental case or seminar : Once a month

Note: These sessions may be organized and recorded as an institutional activity for all postgraduates.

- Attendance at Scientific meetings, CME programs (at least 02 each)

SUMMATIVE ASSESSMENT: Assessment at the end of training.

Essential pre-requisites for appearing for examination include:

1. Logbook
2. At least two presentations at state/national level conference. One paper (thesis or non-thesis related work) should be published /accepted/publication draft in an indexed journal.

The postgraduate examination shall be in three parts:

1. Thesis
2. Theory examination
3. Practical/Clinical and Oral/Viva voce examination

Theory Examination (four papers as per PG Regulations):

Paper I: Basic sciences as applied to the subject (general pathology, pathophysiology, immunopathology and molecular biology).

Paper II: (Systemic pathology – surgical and cytopathology).

Paper III: (Hematology, transfusion medicine and laboratory medicine including instrumentation and quality control).

Paper IV: Recent advances in the subject

Practical/Clinical and Oral/Viva voce examination:

Practical 500 marks (including 100 marks for internal assessment)

Distribution of practical marks:

Section I	Histopathology:	150 marks [Slides (12-15)]
Section II	Cytopathology and histo/cyto techniques	80 marks [Slides (5-8)]
Section III	Hematology, Transfusion Medicine and Clinical Pathology	120 marks
Section IV	Viva, Basic Sciences, and Communication Skills	50 marks

The final clinical examination in broad specialty clinical subjects include:

- Cases pertaining to major systems (e.g., one long case and three short cases),
- Stations for laboratory, procedural and communication skills,
- Logbook Records and reports of day-to-day observation during the training,
- It is emphasized that Oral/viva voce examination shall be comprehensive enough to test the post graduate student's overall knowledge of the subject.

**Recommended Reading
Books (latest edition)**

SR.NO	NAME OF BOOK	AUTHORS
1.	Histology for Pathologists.	Stephen S. Sternberg (Ed), Raven Press, New York
2.	Robbin's Pathologic Basis of Disease .	Ramzi S.Cotran, Vinay Kumar, Stanley L Robbins W B Saunders Co., Philadelphia
3.	Ackerman's Surgical Pathology.	Juan Rosai Mosby. St. Louis.
4.	Diagnostic Surgical Pathology.	Stephen S Sternberg. Lippincott, William Wilkins. Philadelphia
5.	Diagnostic Histopathology of Tumours.	Christopher DM Fletcher (Ed). Churchill Livingstone. Edinburgh
6.	Manual & Atlas of Fine Needle Aspiration Cytology.	Svante R Orell, et al London
7.	Theory and Practice of Histological Techniques,	Bancroft JD, Stevens A, Turner DR,Churchill Livingstone, Edinburgh.
8.	Diagnostic Cytology and its Histopathologic Basis	Koss LG, J.B. Lippincott, Philadelphia.
9.	Comprehensive Cytopathology	Bibbo M, W.B. Saunders Co., Philadelphia.
10.	Wintrobe's Clinical Hematology,	Lee GR, Foerster J, Lupeus J, Paraskevas F, Gveer JP,P, Rodgers GN, Williams & Wilkins, Baltimore.
11.	Henry's clinical diagnosis and management by laboratory methods.	Richard A.Mcpherson, Mathew R.Pincus
12.	Atlas and Text of Hematology 4th edition.	Singh T. Avichal Publishing Company.
13.	Dacie and Lewis Practical Hematology, .	Bain BJ, Bates I, Laffan MA. Elsevier
14.	Bone Marrow Pathology,	Bain BJ, Clark DM, Lampert IA, Blackwell Science, Oxford.
15.	WHO classification of tumors. IARC Lyon.	

Journals and 02 national (all indexed) journal

POSTING DETAILS

Section	Month & Year of Posting	Duration in months	In-charge Signature
Histopathology Surgical Pathology & IHC			
Hematology & Laboratory Medicine			
Blood Centre			
Cytopathology			
Posting under District Residency Programme			
Basic sciences (Biochemistry & Microbiology)/ Immunopathology/ Cytogenetics/ Electron Microscopy/ Molecular Biology / Research Techniques including Thesis			
Autopsy			
Total		36 (Including Exam)	

INTERNAL ASSESSMENT REPORT

EXAM	THEORY		PRACTICALS	
	Marks obtained	Maximum marks	Marks obtained	Maximum marks
1 st				
2 nd				
3 rd				

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