

# Department Of Pathology

## Page 1: OVERVIEW/ PATHOLOGY

Pathology is devoted to the study of the structural, biochemical, and functional changes in cells, tissues, and organs that underlie disease. Pathology forms a vital bridge between the basic sciences and the clinical subjects. It helps in understanding the exact mechanisms by which a disease process starts, spreads, produces symptoms, and poses complications in the human body. Various structural and microscopic changes are extensively examined, in adjunct with special tests to arrive at a definitive diagnosis so that proper treatment can be initiated. It creates a framework to establish a connection between the cause to the outcome of a disease process, providing rational basis for prevention and cure of the disease processes, thus developing the skills required in making the students competent for practising medicine in future.

Pathology department is a recently developed department in Government Medical College, Nandurbar which at present is conducting lectures and practicals as per the recent CBME curriculum. The department is at present getting equipped to fulfil the needs of students and make them well trained medical professionals.

### Curriculum:

As per the MUHS Nashik, Based on Medical Council of India, Competency based Undergraduate curriculum for the Indian Medical Graduate, 2018. (Vol. 1; page nos. 136-159)

### Goal:

- 1) The goal of teaching pathology is to provide undergraduate students comprehensive knowledge of the causes and mechanisms of disease, in order to enable them to achieve complete understanding of the natural history and clinical manifestations of the disease

### Educational objectives:

#### 2. Educational objectives

##### (a) Knowledge

At the end of the course, the student shall be able to –

- i. Describe the structure and ultrastructure of a sick cell, the mechanisms of the cell degradation, cell death and repair.
- ii. Correlate structural and functional alterations in the sick cell.
- iii. Explain the Patho physiological processes which governs the maintenance of homeostasis, mechanism of their disturbances and the morphological and clinical manifestation associated with it.
- iv. Describe the mechanisms and patterns of tissue response to injury to appreciate the Pathophysiology of disease processes and their clinical manifestations.
- v. Correlate the gross and microscopic alterations of different organ systems in common diseases to the extent needed to understand disease processes and their clinical significance.
- vi. Develop an understanding of neoplastic change in the body in order to appreciate need for early diagnosis and further management of neoplasia.
- vii. Understand mechanisms of common haematological disorders and develop a logical approach in their diagnosis and management.

(b) Skills At the end of one and half years, the student shall be able to –

- i. Describe the rationale and principles of technical procedures of diagnostic laboratory tests.
- ii. Interpret diagnostic laboratory tests and correlate with clinical and morphological features of diseases.
- iii. Perform simple bedside tests on blood, urine and other biological fluid samples.
- iv. Draw a rational scheme of investigations aimed at diagnosing and managing common disorders.
- v. Recognise morbid anatomical and histopathological changes for the diagnosis of common disorder. Introduction of “Communication Skills, Professionalism & Ethics in Medical Education Modules” in 2 nd Year MBBS Syllabus New Topic in Syllabus of Pathology (A.Y. 2015-16 )

(c) Integration

At the end of one year, the student shall be able to integrate the causes and mechanisms of disease most prevalent in India with their natural history for the understanding of their clinical course and management.

**Page 2: Faculty**

**A. Head of the department: Dr. Hemant Kokandakar**

Sr. No.	Name	Post	Qualification	E-mail ID
1	Dr. Hemant Kokandakar	Professor	MBBS, MD	
2	Dr. Dhiraj Nikhumbh	Associate Professor	MBBS, MD	
3	Dr. Manjusha Tambse	Assistant Professor	MBBS, MD	drmanjusha.tambse@gmail.com
4	Dr. Rajesh Thakur	Assistant Professor	MBBS, MD	drrajeshyt@gmail.com
5	Dr. Harshada Gavit	Assistant Professor	MBBS, MD	Harshadagavit1@gmail.com
6	Dr. Sarika Khatade	Senior Resident	MBBS, MD	Sarikakhatade63@gmail.com
7	Dr. Jeetesh Gaunker	Tutor	MBBS, MD	jeeteshgnkr@gmail.com
8	Dr. Ashwin Patil	Tutor	MBBS	
9	Dr. Sarang Desai	Tutor	MBBS	sarangsdesai97@gmail.com

Sr. No.	Post	Name
1	Technician	Mr. Jitendra Wani
2	Technician	Mr. Yogendrasing Rajput
3	Peon	Mr. Manvir
4	Sweeper	Mrs. Vandana

**Page 3: Duties and Responsibilities -**

**Professor in Pathology:**

- 1) To teach UG & PG students in subject.
- 2) To take tutorial classes.
- 3) To arrange teaching program of department in consultation with Dean.

- 4) To guide & conduct research in the subject.
- 5) To be in charge as HOD.
- 6) To do any other work that may be assigned to him by Dean.

**Associate Professor in pathology:**

- 1) To look after the work of pathology
- 2) To be responsible for lecture, demonstration & practical classes in the subject & any other departmental work assigned by professor & Dean.
- 3) To take part in research work & also to help professor in supervision of department work, store & verification.
- 4) To perform any other duties so may be allotted by the professor & Dean in the interest of departmental work.

**Assistant professor in pathology**

- 1) To assist the professor in teaching the subject.
- 2) To conduct tutorials and demonstrations.
- 3) To arrange and supervise the practical in the department.
- 4) To prepare specimens for museum tutorials, practicals etc. when required.
- 5) To assist professor in research.
- 6) To be responsible for the stores and laboratories under his charge.
- 7) To do after duties assigned by the professor or dean of the college.

**Page 4: FACILITIES –**

The department of pathology is at present getting equipped with the of following laboratories-

- 1) Hematology
- 2) Morbid anatomy and histopathology
- 3) Cytopathology
- 4) Research laboratory

All the laboratories are provided with adequate infrastructure and equipments to accommodate 25 students.

**Equipments:**

The department will be having all the necessary equipments as per the NMC norms.

## **Page 5: RESEARCH AND PUBLICATIONS:**

- 1)Pattern and Demographic distribution of Hemoglobinopathies in North Maharashtra. Annals of Applied Bio-Science.2016;3(2):A B3-A188
- 2)Hemoglobin patterns in Sickle cell Hemoglobinopathies-A Large prospective Study in North Maharashtra. MVP Journal of Medical Sciences. Jan-June 2017;4(1):4-8
- 3)Fine Needle Aspiration Cytology IN Thyroid Lesion and Its Cytoclinical Correlation. Indian Journal of Pathology :Research and practice Oct-December 2017;6(4):905-911
- 4)Comparison of Seroprevalence of transfusion transmissible infection between voluntary and replacement donar tertiary care center. Indian journal of Pathology and Oncology.2019;6(2) April-June:248-251
- 5)Histopathology findings of chronic liver diseases in paediatric age group. International journal of MedicalPaediatric and oncology. Jan –March 2019;5(1):31-36
- 6)Spectrum of cytology findings in patients presenting with lymphadenopathy at tertiary health care center in north Maharashtra region-A 2 year study. IP Archives of Cytology and Histopathology Research. April- June 2019; 4(2):105-109
- 7)Correlation of Transfusion Transmitted infection, Liver Function Test and Serum Ferritin with Multiple Blood Transfused Thalassemic Patients at tertiary Health care center. Indian journal of pathology. Research and Practice. May- June