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Competency Based LOGBOOK for 2nd Professional MBBS

Pathology

As per the Revised Competency-based Medical Education Curriculum (NMC)



Saumya Singh
Aditya Pratap Singh
Harendra Kumar

3rd Edition

JAYPEE

Contents

Section	Description	Page No.	Status	Signature of Teacher
			Complete/ Incomplete	
1	Competency Assessment	1		
2	Alignment and Integration Topics (AITos)	47		
3	Self-directed Learning	51		
4	AETCOM	67		
5	Humanities	77		
6	Sports/Physical Education	81		
7	Extracurricular Activities	85		
8	Attendance Records	89		
9	Records of Internal Assessment	93		

Section 1

Competency Assessment

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Skill Competencies of Pathology

S. No.	Topic	Competency addressed	Name of the activity	Date completed dd-mm-yyyy	Attempt at activity First only (F) Repeat (R) Remedial (Re)	Rating Below (B) expectations Meets (M) expectations Exceeds (E) expectations or Numerical scores	Decision of faculty Completed (C) Repeat (R) Remedial (Re)	Initial of faculty and date	Feedback received Initial of learner
1.	Cell injury and adaptation	Identify and describe various forms of cell injuries, their manifestations and consequences in gross and microscopic specimens. PA 2.8							
2.	Inflammation	Identify and describe acute and chronic inflammation in gross and microscopic specimens. PA 3.4							
3.	Hemodynamic disorders	Identify and describe the gross and microscopic features of infarction in a pathologic specimen. PA 5.6							
4.	Neoplastic disorders	Identify and describe the gross and microscopic features of Benign and malignant neoplasm in a pathologic specimen. PA 6.7							
5.	Amyloidosis	Identify and describe various forms of amyloidosis with their manifestations and consequences in gross and microscopic specimens. PA 9.2							

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S. No.	Topic	Competency addressed	Name of the activity	Date completed dd-mm-yyyy	Attempt at activity First only (F) Repeat (R) Remedial (Re)	Rating Below (B) expectations Meets (M) expectations Exceeds (E) expectations or Numerical scores	Decision of faculty Completed (C) Repeat (R) Remedial (Re)	Initial of faculty and date	Feedback received Initial of learner
6.	Introduction to hematology	Describe collection of specimens and identify coagulants and anticoagulant bulbs, instruments. PA 13.3							
7.	Lymph node and spleen	Describe and discuss the pathogenesis, pathology and the differentiating features of Hodgkin's and non-Hodgkin's lymphoma. PA 19.3							
8.	Lymph node and spleen	Identify and describe the features of tuberculous lymphadenitis in a gross and microscopic specimen. PA 19.5							
9.	Lymph node and spleen	Identify and describe the features of Hodgkin's lymphoma in a gross and microscopic specimen. PA 19.6							
10.	Hemorrhagic disorders	Define and describe disseminated intravascular coagulation, its laboratory findings and diagnosis of disseminated intravascular coagulation and diagnosis of Vitamin K deficiency. PA 20.2							

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S. No.	Topic	Competency addressed	Name of the activity	Date completed dd-mm-yyyy	Attempt at activity First only (F) Repeat (R) Remedial (Re)	Rating Below (B) expectations Meets (M) expectations Exceeds (E) expectations or Numerical scores	Decision of faculty Completed (C) Repeat (R) Remedial (Re)	Initial of faculty and date	Feedback received Initial of learner
11.	Blood banking and transfusion	Enumerate blood components and describe their clinical uses. PA 21.2							
12.	Clinical pathology	Describe abnormal urinary findings in disease states and identify and describe common urinary abnormalities in a clinical specimen. PA 22.1							
13.	Clinical pathology	Describe and interpret the abnormalities in a panel containing semen analysis, thyroid function tests. PA 22.3							
14.	Gastrointestinal tract	Describe and identify the microscopic features of peptic ulcer, intestinal ulcers and tumors of GIT PA 23.9							
15.	Hepatobiliary system	Describe and identify the microscopic features of liver diseases and tumors. PA 24.9							
16.	Respiratory system	Identify and describe the features of diseases and tumors of lung in a gross and microscopic specimen. PA 25.7							

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S. No.	Topic	Competency addressed	Name of the activity	Date completed dd-mm-yyyy	Attempt at activity First only (F) Repeat (R) Remedial (Re)	Rating Below (B) expectations Meets (M) expectations Exceeds (E) expectations or Numerical scores	Decision of faculty Completed (C) Repeat (R) Remedial (Re)	Initial of faculty and date	Feedback received Initial of learner
17.	Cardiovascular system	Describe the etiology, pathophysiology, pathology, gross and microscopic features, diagnosis and complications of pericarditis and pericardial effusion. PA 26.8							
18.	Urinary tract	Identify and describe the features of kidney diseases and tumors in a gross and microscopic specimen. PA 27.17							
19.	Male genital tract	Describe and identify the morphologic and microscopic features of diseases and tumors of male genital tract. PA 28.6							
20.	Female genital tract	Describe and identify the morphologic and microscopic features of diseases and tumors of female genital tract. PA 29.10							
21.	Breast	Describe and identify the morphologic and microscopic features of Phyllodes tumor of the breast. PA 30.3							

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S. No.	Topic	Competency addressed	Name of the activity	Date completed dd-mm-yyyy	Attempt at activity First only (F) Repeat (R) Remedial (Re)	Rating Below (B) expectations Meets (M) expectations Exceeds (E) expectations or Numerical scores	Decision of faculty Completed (C) Repeat (R) Remedial (Re)	Initial of faculty and date	Feedback received Initial of learner
22.	Breast	Describe and identify the morphologic and microscopic features of benign and malignant tumors of the breast. PA 30.5							
23	Endocrine system	Describe the etiology, pathogenesis, manifestations, laboratory and morphologic features of adrenal neoplasms. PA 31.10							
24.	Bone and soft tissue	Describe and identify the morphologic and microscopic features of diseases and tumors of bone. PA 32.7							
25.	Skin	Identify, distinguish and describe common tumors of the skin. PA 33.4							

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Add on Competencies as Decided by the Department of Pathology

S. No.	Competency addressed	Name of the activity	Date completed dd-mm-yyyy	Attempt at activity First only (F) Repeat (R) Remedial (Re)	Rating Below (B) expectations Meets (M) expectations Exceeds (E) expectations or Numerical scores	Decision of faculty Completed (C) Repeat (R) Remedial (Re)	Initial of faculty and date	Feedback received Initial of learner

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Competencies of the Procedures for Certification

S. No.	Competency addressed	Name of the activity	Number required to certify P (Perform)	Date completed dd-mm-yyyy	Attempt at activity First only (F) Repeat (R) Remedial (Re)	Rating Below (B) expectations Meets (M) expectations Exceeds (E) expectations or Numerical scores	Decision of faculty Completed (C) Repeat (R) Remedial (Re)	Initial of faculty and date	Feedback received Initial of learner
1.	Perform common hematological tests–Hb, RBC count, WBC count and DLC. PA 13.4		4						
2.	Identify and describe the peripheral smear in microcytic anemia. PA 14.2		1						
3.	Identify and describe the peripheral blood picture of macrocytic anemia. PA 15.3		1						
4.	Describe the pathogenesis, features, hematologic indices and peripheral blood picture of sickle cell anemia and thalassemia. PA 16.2		1						
5.	Describe the correct technique to perform blood grouping. Describe the correct technique to perform a cross match. PA 21.6		1						

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S. No.	Competency addressed	Name of the activity	Number required to certify P (Perform)	Date completed dd-mm-yyyy	Attempt at activity First only (F) Repeat (R) Remedial (Re)	Rating Below (B) expectations Meets (M) expectations Exceeds (E) expectations or Numerical scores	Decision of faculty Completed (C) Repeat (R) Remedial (Re)	Initial of faculty and date	Feedback received Initial of learner
6.	Describe and interpret the abnormalities in a panel containing liver function tests. PA 22.4		4						
7.	Describe and interpret the abnormalities in a panel containing, renal function tests. PA 22.5		4						
8.	Interpret liver function and viral hepatitis serology panel. Distinguish obstructive from non-obstructive jaundice based on clinical features and liver function tests. PA 24.6		1						
9.	Identify the etiology of meningitis based on given CSF parameters. PA 34.3		1						

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Certifiable Competencies in Pathology

Competency PA 13.4: Perform common hematological tests—Hb, RBC count, WBC count and DLC.

Specific Learning Objectives (SLOs):

1.

2.

3.

4.

Description of the Module:

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Reflection on Certifiable Competency

Date:

Topic 1: Perform common hematological tests—Hb, RBC count, WBC count and DLC.

What happened:

So what:

What next:

Signature of Teacher-in-charge

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Note:

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Certifiable Competencies in Pathology

Competency PA 14.2: Identify and describe the peripheral smear in microcytic anemia.

Specific Learning Objectives (SLOs):

1.

2.

3.

4.

Description of the Module:

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Reflection on Certifiable Competency

Date:

Topic 2: Identify and describe the peripheral smear in microcytic anemia.

What happened:

So what:

What next:

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Signature of Teacher-in-charge

Note:

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Certifiable Competencies in Pathology

Competency PA 15.3: Identify and describe the peripheral blood picture of macrocytic anemia.

Specific Learning Objectives (SLOs):

1.

2.

3.

4.

Description of the Module:

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Reflection on Certifiable Competency

Date:

Topic 3: Identify and describe the peripheral blood picture of macrocytic anemia.

What happened:

So what:

What next:

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Signature of Teacher-in-charge

Note:

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Certifiable Competencies in Pathology

Competency PA 16.2: Describe the pathogenesis, features, hematologic indices and peripheral blood picture of sickle cell anemia and thalassemia.

Specific Learning Objectives (SLOs):

1.

2.

3.

4.

Description of the Module:

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Reflection on Certifiable Competency

Date:

Topic 4: Describe the pathogenesis, features, hematologic indices and peripheral blood picture of sickle cell anemia and thalassemia.

What happened:

So what:

What next:

Signature of Teacher-in-charge

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Note:

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Certifiable Competencies in Pathology

Competency PA 21.6: Describe the correct technique to perform blood grouping. Describe the correct technique to perform a cross match.

Specific Learning Objectives (SLOs):

1.

2.

3.

4.

Description of the Module:

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Competency Based LOGBOOK
for 2nd Professional MBBS

Pathology

This logbook is designed as per the latest guidelines of logbook module 2024 shared by National Medical Commission (NMC) for implementation of Competency-based Medical Curriculum and recommended to be followed for the MBBS students from the academic year 2024–2025 onward. This logbook of Pathology is a verified record of the progression of the learner, documenting the acquisition of the requisite, knowledge, skills, attitude, and competencies. It is a tool that guides medical students by highlighting important clinical objectives promoting self-reflection, providing an opportunity to obtain feedback from preceptors, and the records can be used for formative and continuous assessment. Also this logbook is an academic document that becomes both a snapshot of the progress of the learner as well as a prerequisite for progression to the next phase of learning or graduation from the course.

Salient Features

- Predefined skill competencies of Pathology are given in the UG curriculum module, Volume I for recording the activities conducted in a simple tabulated format based on NMC Logbook module
- Separate section is provided for competencies needed for certification in the subject
- Separate empty tables are provided for competencies needed by the department of Pathology
- Separate sections are provided for Alignment and Integration Topics (AITo), SDL, and Humanities and Extracurricular activities with ample space for reflective writing of the subject
- Separate section of AETCOM is dedicated to Pathology with modules and reflective writing space
- Separate sections are provided for recording the details of assignment and assessment
- Separate sections are provided for attendance record of the students and attending extra classes for poor attendance



Saumya Singh MBBS (Hons) MD (Microbiology) is Professor and Head, Infection Control Officer, and In-charge of Molecular Laboratory, Department of Microbiology, United Institute of Medical Sciences, Prayagraj, Uttar Pradesh, India. She has published several scientific research papers in national and international journals. She has undergone training in BCME, ACME, and NABL internal auditors training course (Kolkata). She is an active member in Medical Education Unit (MEU) at her institute along with curriculum in-charge for 2nd year MBBS. She is fascinated by innovative teaching and promotes research work helping her compile this logbook.



Aditya Pratap Singh MBBS MS (Anatomy) is Professor and Head, Department of Anatomy, United Institute of Medical Sciences, Prayagraj, Uttar Pradesh, India. He has undergone training in Basic Course in Medical Education (BCME) and Advance Course in Medical Education (ACME). He is the Medical Education Unit (MEU) coordinator and a member of various committees at his institute. He has published several research papers in national and international journals. He is passionate about teaching and research activities, which helped him to compile this logbook.



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Shelving Recommendation
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