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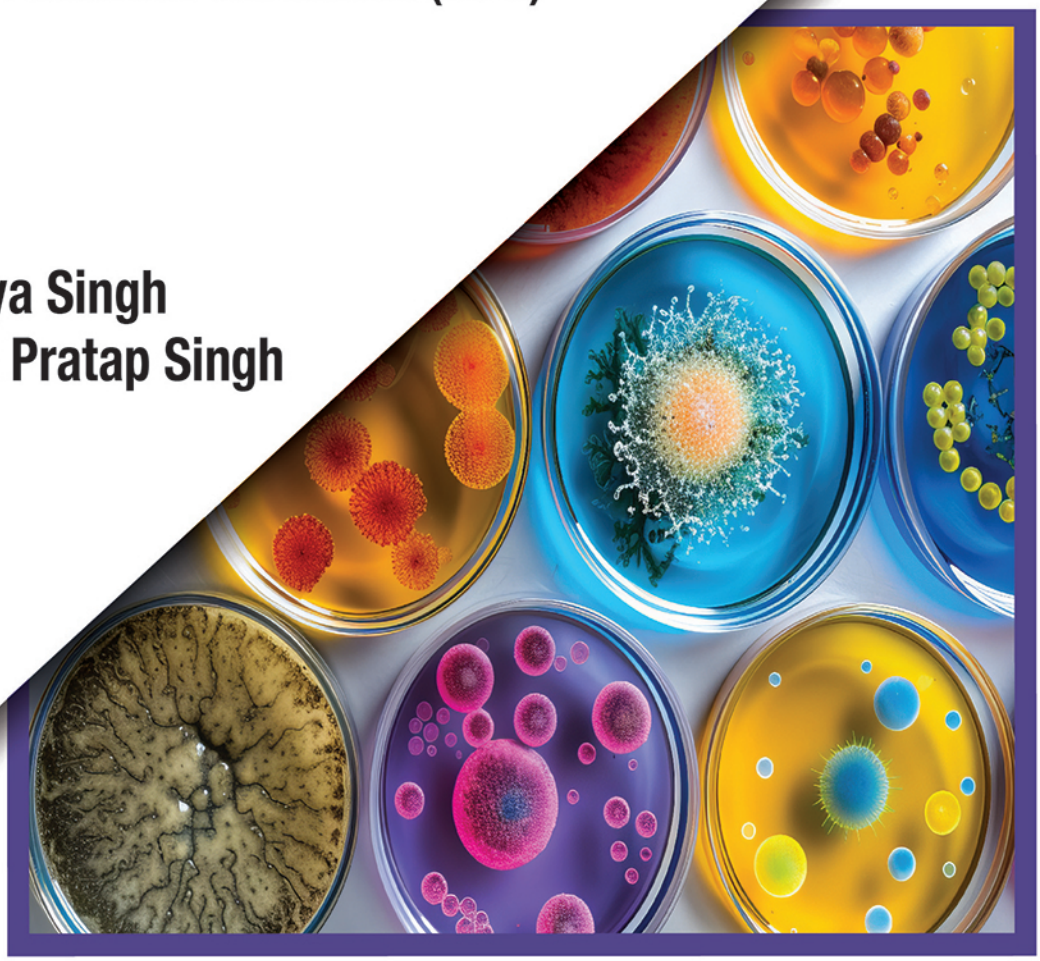
Competency Based LOGBOOK for 2nd Professional MBBS

Microbiology

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



Saumya Singh
Aditya Pratap Singh

2nd Edition

JAYPEE

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Section 1

Competency Assessment

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Skill Competencies of Microbiology

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.	General microbiology, ethics and communication	Discuss the attitude and behaviors that portray respect and demonstrate respect for patient samples sent to the laboratory for performance of laboratory tests in the detection of microbial agents causing Infectious diseases. MI 1.7							
2.	General microbiology, ethics and communication	Discuss and demonstrate effective communication skills with patients, relatives and clinicians during sample collection and pre/posttest counselling. MI 1.8							
3.	General microbiology, ethics and communication	Discuss and demonstrate confidentiality pertaining to patient identity in laboratory results. MI 1.9							
4.	Zoonotic diseases and miscellaneous	Choose the most suitable microbiological investigation in a given clinical situation and Interpret the results of the laboratory tests for the diagnosis of the infectious disease. MI 9.3							

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Add on Competencies as Decided by the Department of Microbiology

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.	Demonstrate the appropriate method of collection and transport of samples for the detection of microbial agents including instructions to be given to patients before sample collection. MI 1.6		3						
2.	Perform Gram stain, ZN stain, and routine stool examination to identify the different causative agents of infectious diseases from the clinical specimen. MI 1.10		3 for each procedure						
3.	Discuss the diagnostic modalities of IE available with special emphasis on concept of sepsis and blood culture collection and processing. MI 3.3		2						

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4.	Identify the common etiologic agents of diarrhea and dysentery by stool microscopic examination. MI 4.4		3						
5.	Identify the common etiologic agents of upper respiratory tract infections in a gram stain/albert stained smear of throat swab and correlate with the clinical findings provided. MI 7.4		3						
6.	Identify the common etiologic agents of lower respiratory tract infections in a provided gram stained and acid fast stained smear of sputum/ BAL/tracheal aspirate and correlate with the clinical findings provided. MI 7.5		3 each						
7.	Demonstrate hand washing, donning-doffing of PPE and segregation of biomedical waste MI 10.3		3						

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Certifiable Competencies in Microbiology

Competency MI 1.6: Demonstrate the appropriate method of collection and transport of samples for the detection of microbial agents including instructions to be given to patients before sample collection.

Specific Learning Objectives (SLOs):

1.

2.

3.

4.

Description of the Module:

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Reflection on Certifiable Competency

Date:

Topic 1: Demonstrate the appropriate method of collection and transport of samples for the detection of microbial agents including instructions to be given to patients before sample collection.

What happened:

So what:

What next:

Signature of Teacher-in-charge

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Note:

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Certifiable Competencies in Microbiology

Competency MI 1.10: Perform Gram stain to identify the different causative agents of infectious diseases from the clinical specimen.

Specific Learning Objectives (SLOs):

1.

2.

3.

4.

Description of the Module:

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Reflection on Certifiable Competency

Date:

Topic 2: Perform Gram stain to identify the different causative agents of infectious diseases from the clinical specimen.

What happened:

So what:

What next:

Signature of Teacher-in-charge

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Note:

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Certifiable Competencies in Microbiology

Competency MI 1.10: Perform ZN stain to identify the different causative agents of infectious diseases from the clinical specimen.

Specific Learning Objectives (SLOs):

1.

2.

3.

4.

Description of the Module:

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Reflection on Certifiable Competency

Date:

Topic 3: Perform ZN stain to identify the different causative agents of infectious diseases from the clinical specimen.

What happened:

So what:

What next:

Signature of Teacher-in-charge

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Note:

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Competency Based LOGBOOK for 2nd Professional MBBS

Microbiology

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 Microbiology 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 Microbiology are given in the UG curriculum module, volume I, 2024 for recording the activities conducted in a simple tabulated format based on NMC Logbook module
- Separate empty tables are provided for competencies needed by the department of Microbiology
- Separate section is provided for competencies needed for certification in the subject
- 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 Microbiology with modules and reflective writing space
- Separate section of pandemic management for 1st and 2nd year MBBS 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.



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ISBN 978-93-6616-351-2