

**The Draft CBME Curriculum for PG  
Paraclinical is being Circulated for  
Comments and Suggestions. The  
Suggestions are to be sent to RGUHS.  
And to be mailed to  
dcd.rguhs@gmail.com**

# Rajiv Gandhi University of Health Sciences Bangalore, Karnataka



## PHARMACOLOGY LOGBOOK

FOR  
PHASE II MBBS  
AS PER

Competency-Based Medical Education Curriculum

College  
Emblem

Stamp  
size photo

Name and address of the college

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Pharmacology  
Logbook

Name of the student:

Contact Number:

Email id:

Date of admission to MBBS course:

Date of beginning of the current phase:

Reg. No. (College ID):

Reg. No. (University ID):

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**BONAFIDE CERTIFICATE**

(INDIVIDUAL COLLEGE NAME)

This is to certify that the candidate .....

**Reg No..... has satisfactorily completed all requirements mentioned in this Logbook for Phase II MBBS in PHARMACOLOGY including related AETCOM modules as per the Competency-Based Undergraduate Medical Education Curriculum, Graduate Medical Regulation 2019 during the period from .....to .....**

**He/ She is eligible to appear for the summative (University) assessment.**

**Faculty Mentor:**

**Head of Department:**

**Name:**

**Name:**

**Signature:**

**Signature:**

**Place:**

**Date:**

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## PREFACE

This logbook is designed to follow and record your academic journey through the Pharmacology course. The skills you acquire in order to be a clinician will be certified and documented in this book. The logbook has **six sections**.

**Section 1** contains the **CBME Pharmacology curriculum**. It includes the topics that would be covered during the course.

**Section 2** provides your participation in **Attitude, Ethics and Communication (AETCOM)** modules related to Pharmacology.

**Section 3** consists of the **scheme and summary of formative assessments** in Pharmacology, including the internal assessments.

**Section 4** documents (4.1) the **procedures that require certification** and (4.2) **those do not require certification but only the maintenance of a logbook**. These skills that require certification include prescribing medications, ability to identify and prescribe P drugs and critically evaluate a drug promotional literature etc.

**Section 5** is the documentation of the periodic **feedback** that you have received through the course.

**Section 6** documents **additional-curricular activities** (Seminars, conference, workshops attended, scientific project presentations, outreach activities, etc.) and **extracurricular activities**.

We hope that this logbook serves as a guide and facilitates your progress through the year.

## GENERAL INSTRUCTIONS

1. This logbook is a record of the academic/co-curricular activities in Pharmacology of the designated student.
2. The student is responsible for getting the entries in the logbook verified by the faculty in-charge regularly
3. Entries in the Logbook will reflect the activities undertaken in the department of Pharmacology during your course
4. The student has to get this logbook verified by the mentor and the Head of the department before submitting the application of the University examination.

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## SUMMARY OF ATTENDANCE

<i>Block/Phase</i>	<i>Percentage of classes attended</i>		<i>Eligible for University examination (Yes / No)</i>	<i>Signature of student</i>	<i>Signature of teacher</i>
	<i>Theory</i>	<i>Practical</i>			
First Block			NA		
Second Block			NA		
Third Block			NA		
Attendance at the end of MBBS Phase II					

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## SUMMARY OF INTERNAL ASSESSMENT (IA)

<i>Sl. No.</i>	<i>Internal Assessment</i>	<i>Date of Assessment</i>	<i>Total marks</i>		<i>Marks scored</i>		<i>Signature of student</i>	<i>Signature of teacher</i>
			<i>Theory</i>	<i>Practical</i>	<i>Theory</i>	<i>Practical</i>		
	First							
	Second							
	Third							
	Remedial							

**Note:** A candidate who has not secured requisite aggregate in the internal assessment may be subjected to remedial assessment by the institution. If he/she successfully completes the same, he/she is eligible to appear for University Examinations. The remedial assessment shall be completed before submitting the internal assessment marks online to the University.

# SECTION: 1

## Competencies in Pharmacology

### Competency-Based Medical Education (CBME) curriculum in Pharmacology

Pharmacology provides the backbone of therapeutics. Undergraduate (MBBS) students completing the course in Pharmacology should be able to understand the general principles of drug action and handling of the drug by the body. They should be able to select and prescribe the right drug according to the patient's need for prevention, diagnosis and treatment of common diseases and be able to recognize the side effects and adverse effects of the commonly used drugs.

#### Competencies in Pharmacology:

There are **85** competencies in Pharmacology that have been listed in the CBME curriculum by the MCI. They can be categorized into knowledge and skills domains as given below.

There are **64** competencies in the knowledge domain

#### 1.A Competencies in the knowledge domain

Sl no	Topic	Competency
1	General Pharmacology Toxicology Clinical Pharmacology and rational drug use	PH 1.1 to PH 1.12
2	Autonomic Nervous System	PH 1.13 to PH 1.14
3	Autocoids	PH1.16
4	Drugs in anaesthetic practise:	PH 1.15, PH1.17 to PH 1.18
5	Central Nervous System	PH 1.19 to PH 1.23
6	Diuretics	PH 1.24
7	Drugs affecting blood and blood formation	PH 1.25, PH 1.35
8	Cardiovascular System	PH 1.26 to PH 1.31
9	Respiratory System:	PH 1.32 to PH 1.33
10	Gastrointestinal System	PH 1.34
11	Endocrine System	PH 1.36 to PH 1.41
12	Chemotherapy	PH 1.42 to PH 1.49
13	Miscellaneous	PH 1.50 to PH 1.64

**Competencies in Skills:** There are **21** competencies in this domain. These include clinical pharmacy (04), Clinical Pharmacology (08), Experimental Pharmacology (02) and Communication (07) as given below.

### 1.B Competencies in Skills

Topic	Competency	Description
<b>Clinical Pharmacy</b>	PH 2.1	Demonstrate an understanding of the use of various dosage forms (oral/local/parenteral; solid/liquid)
	PH 2.2	Prepare oral rehydration solution from ORS packet and explain its use
	PH 2.3	Demonstrate the appropriate setting up of an intravenous drip in a simulated environment.
	PH 2.4	Demonstrate the correct method of calculation of drug dosage in patients including those used in special situations
<b>Clinical Pharmacology</b>	PH 3.1-C	Write a rational, correct and legible generic prescription for a given condition and communicate the same to the patient
	PH 3.2-C	Perform and interpret a critical appraisal (audit) of a given prescription
	PH 3.3-C	Perform a critical evaluation of the drug promotional literature
	PH 3.4- L	To recognize and report an adverse drug reaction
	PH 3.5-C	To prepare and explain a list of P-drugs for a given case/condition
	PH 3.6-L	Demonstrate how to optimize interaction with a pharmaceutical representative to get authentic information on drugs
	PH 3.7-L	Prepare a list of essential medicines for a healthcare facility
<b>Experimental Pharmacology</b>	PH 4.1	Administer drugs through various routes in a simulated environment using mannequins
	PH4.2	Demonstrate the effects of drugs on blood pressure (vasopressor and vaso-depressors with appropriate blockers) using CAL
<b>Communication</b>	PH5.1	Communicate with the patient with empathy and ethics on all aspects of drug use
	PH5.2	Communicate with the patient regarding optimal use of a) drug therapy, b) devices and c) storage of medicines
	PH5.3	Motivate patients with chronic diseases to adhere to the prescribed management by the health care provider
	PH5.4	Explain to the patient the relationship between the cost of treatment and patient compliance
	H5.5	Demonstrate an understanding of the caution in prescribing drugs likely to produce dependence and recommend the line of management
	PH5.6	Demonstrate ability to educate public & patients about various aspects of drug use including drug dependence and OTC drugs
	PH5.7	Demonstrate an understanding of the legal and ethical aspects of prescribing drugs

**C- Needs certification: L Needs Maintenance of a logbook**

## **SECTION 2:**

### **FORMAT OF AETCOM Modules**

**AETCOM Module Number:**

**Date:**

**Topic:**

**Competencies:**

- 1.
- 2.
- 3.

**Reflections (100 words):**

1. What did you learn from this AETCOM session based on the objectives?
2. What change did this session make in your learning?
3. How will you apply this knowledge in future?

Remarks by Facilitator

Signature by facilitator



## SECTION: 3

### Formative Assessment

#### 3.A Scheme of Formative assessments

<b>Formative assessment Theory</b>	<b>Marks</b>	<b>Formative assessment Practical</b>	<b>Marks</b>
Internal assessments (3)	30	Internal assessments (3)	35
Tests (3)	10	Practical record	05
Total	40	Total	40

#### 3.B summary of formative assessment

<i>Sl. No.</i>	<i>Type of Assessment</i>	<i>Date of Assessment</i>	<i>Total marks</i>	<i>Marks scored</i>	<i>Signature of student</i>	<i>Signature of teacher</i>

## Rubric for assessing the professionalism

<i>Phase</i>	<i>Areas assessed</i>					<i>Signature of student</i>	<i>Signature of teacher</i>
	<i>Regular for classes (5marks)</i>	<i>Submission of records (5marks)</i>	<i>Behaviour in class and discipline (5marks)</i>	<i>Dress code and presentation (5marks)</i>	<i>Total (20 marks)</i>		
At the end of 1 <sup>st</sup> IA							
At the end of 2 <sup>nd</sup> IA							
At the end of 3 <sup>rd</sup> IA							
Average score at the end of the year							

**Note:** Parameters will be assessed at the Departmental level to consider eligibility (Minimum of 50% at the end of the year) of the candidate to appear for the university examination. Not considered for internal assessment marks.

**Section 4**  
**Certifiable skills**  
**&**  
**Non-certifiable skills requiring log book maintenance**

<b>Attempt at activity</b>	First or Only (F) Repeat (R) Remedial (Re)
<b>Rating</b>	Below (B) expectations Meets (M) expectations Exceeds (E) expectations

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## 4.1 Certifiable skills

### Certifiable skill- 1

**Skill: PH 3.1** Write a rational, correct and legible **generic prescription** for a given condition and communicate the same to the patient

Domain: Skills

Level of competency: Perform

Core: Yes

The student has to perform this activity **five** times to be certified

Exercise name	Date	Attempt			Faculty decision		Rating		
		First F	Repeat R	Remedial Re	Completed	Not Completed	Below expectations B	Meets expectations M	Exceeds expectations E

Overall remarks:

HOD signature:

## Certifiable skill- 2

**Skill: PH 3.2** Perform and interpret a **critical appraisal (audit)** of a given prescription

Domain: Skills

Level of competency: Perform

Core: Yes

The student has to perform this activity **three** times to be certified

Exercise name	Date	Attempt			Faculty decision		Rating		
		First F	Repeat R	Remedial Re	Completed	Not Completed	Below expectations B	Meets expectations M	Exceeds expectations E

Overall remarks:

HOD signature:

### Certifiable skill- 3

**Skill: PH 3.3** Perform a **critical evaluation of the drug promotional literature**

Domain: Skills

Level of competency: Perform

Core: Yes

The student has to perform this activity **three** times to be certified

Exercise name	Date	Attempt			Faculty decision		Rating		
		First F	Repeat R	Remedial Re	Completed	Not Completed	Below expectations B	Meets expectations M	Exceeds expectations E

Overall remarks:

HOD signature:

### Certifiable skill- 4

**Skill: PH 3.5** To prepare and explain a list of **P-drugs** for a given case/condition

Domain: Skills

Level of competency: Perform

Core: Yes

The student has to perform this activity **three** times to be certified

Exercise name	Date	Attempt			Faculty decision		Rating		
		First F	Repeat R	Remedial Re	Completed	Not Completed	Below expectations B	Meets expectations M	Exceeds expectations E

Overall remarks:

HOD signature:

## 4.2 Non-certifiable Skills requiring maintenance of a logbook

### Non-certifiable Skill-1

**Skill: PH: 3.4** To recognize and report an **adverse drug reaction**

Domain: Skills

Level of competency: Perform

Core: Yes

The student has to recognize and report 3 cases of ADR based on the SLOs

Exercise name	Date	Attempt			Faculty decision		Rating		
		First F	Repeat R	Remedial Re	Completed	Not Completed	Below expectations B	Meets expectations M	Exceeds expectations E

Overall Remarks:

Signature of HOD

## Non-certifiable Skill-2

**Skill: PH: 3.6** Demonstrate how to optimize **interaction with a pharmaceutical representative** to get authentic information on drugs

Exercise name	Date	Attempt			Faculty decision		Rating		
		First F	Repeat R	Remedial Re	Completed	Not Completed	Below expectations B	Meets expectations M	Exceeds expectations E

Domain: Skills  
 Level of competency: Perform  
 Core: Yes

The student has to perform this exercise on three products based on the SLOs

Overall Remarks:

Signature of HOD

### Non-certifiable Skill-3

**Skill: PH: 3.7** Prepare a list of **essential medicine** for a health care facility.

Domain: Skills

Level of competency: Perform

Core: Yes

The student has to perform the exercise once as per the SLOs

Exercise name	Date	Attempt			Faculty decision		Rating		
		First F	Repeat R	Remedial Re	Completed	Not Completed	Below expectations B	Meets expectations M	Exceeds expectations E

Overall Remarks:

Signature of HOD

## **Section 5: Feedback**

**5.1 Academic performance and feedback provided**

**5.2 Feedback on AETCOM activity**

**5.3 Feedback on self-directed learning (SDL)**

## Section 5: Feedback

### 5.1 Academic performance and feedback provided

Assessment	Marks	Feedback		Student's signature	Faculty signature
		Should retain	Could improve		
<b>I test</b>					
I Internal Assessment Theory					
I Internal assessment Practicals					
<b>II Test</b>					
II Internal Assessment Theory					
II Internal Assessment Practicals					
<b>III Test</b>					
III Internal Assessment Theory					
III Internal Assessment Practicals					

## 5.2 Feedback on AETCOM activity

Module #	Name of AETCOM Activity	Date completed	Attempt at activity First (F); Repeat (R); Remedial (Re)	Rating Below Expectations(B); Meets Expectations(M); Exceeds Expectations(E)	Decision of faculty Completed (C); Repeat(R); Remedial(Re)	Initial of faculty and date	Feedback Received Initial of learner

### 5.3 Feedback on self-directed learning (SDL)- 12 hours

Sl no.	Date	Topic of SDL	Feedback	Signature of faculty/mentor
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				

## Section 6: Additional Curricular and extracurricular Activities

### 6.1 Additional curricular activities

(Seminar, conferences, outreach activities, Workshops etc.)

Sl no	Date	Particulars	Signature of the faculty

### 6.2 Extracurricular activities

Sl no	Date	Particulars	Signature of the faculty

### 6.3 Achievements/awards

Sl no	Date	Particulars	Signature of the faculty

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