

## ELECTIVES – PHARMACOLOGY

### First 2 Weeks

#### **1: PHARM A1**

<b>Name of Block</b>	<b>Block I</b>
<b>Name of Elective</b>	Clinical pharmacology and pharmacotherapy of Angina & Myocardial infarction
<b>Location of hospital lab/research facility</b>	Department of Pharmacology, Govt Medical College Thrissur
<b>Name of internal preceptor(s)</b>	Dr. Firoz Thaha
<b>Name of external preceptor(s) if applicable</b>	Dr. K.B Sanalkumar
<b>Learning objectives of electives</b>	<ol style="list-style-type: none"> <li>1. Visit Medicine OP/ Cardiology OP/Ward/ICU- See cases and note down the management with drugs used including dose and route</li> <li>2. To learn the clinical pharmacology of different classes of drugs used in the management of angina and myocardial infarction</li> <li>3. To learn the guidelines for management of angina and myocardial infarction</li> <li>4. To learn the required information to be communicated regarding the management and the drugs to a patient with angina or myocardial infarction</li> <li>5. Pharmacovigilance: ADR reporting, Causality assessment, Uploading</li> </ol>
<b>Number of students that can be accommodated in this elective</b>	4 - 6
<b>Prerequisites for elective</b>	<ol style="list-style-type: none"> <li>1. Thorough knowledge about drugs for treatment of angina and myocardial infarction,</li> <li>2. Current guidelines for management of angina and myocardial infarction</li> </ol>
<b>Learning resources for students</b>	<ol style="list-style-type: none"> <li>1. Essentials of Medical Pharmacology Tripathi</li> <li>2. Davidson's principles and practice of Medicine.</li> <li>3. Guidelines for management of angina &amp; MI</li> </ol>
<b>List of activities of student participation</b>	<ol style="list-style-type: none"> <li>1. Prepare and present the pharmacotherapy of angina and myocardial infarction and discuss in a small group</li> </ol>

	2. Write the current guidelines for management of angina and myocardial infarction
<b>Portfolio entries required</b>	Documentation of presentation done
<b>Log book entry required</b>	Day today activities must be recorded in the log book & signed by preceptor
<b>Assessment</b>	<ol style="list-style-type: none"> <li>1. Attendance: day to day participation in departmental activities</li> <li>2. Performance of assigned task and presentation of topic</li> </ol>
<b>Other comments</b>	

## **2: PHARM A2**

<b>Name of block</b>	<b>Block I</b>
<b>Name of Elective</b>	Anti-Retroviral Therapy{ART}
<b>Location</b>	Department of Pharmacology
<b>Name of internal preceptor</b>	Dr. Vinimol C.
<b>Name of external preceptor(s) if applicable</b>	Dr.K.B. Sanalkumar
<b>Learning objectives</b>	<ol style="list-style-type: none"> <li>1. Visit ART clinic – note down the treatment regimens</li> <li>2. To learn&amp; discuss about the drugs used in the treatment of Human immunodeficiency virus infection</li> <li>3. To discuss the principles and current treatment regimens of ART according to NACO guidelines</li> <li>4. To learn and discuss the Post exposure prophylaxis, prevention and treatment of opportunistic infections in PLWHIV</li> <li>5. To discuss about ART in Pregnancy and breast feeding</li> <li>6. To discuss the management of HIV-Tuberculosis co infection</li> <li>7. To discuss ARV Prophylaxis in Infants</li> <li>8. Pharmacovigilance: ADR reporting, Causality assessment, Uploading</li> </ol>
<b>No of students that can be accommodated in this elective</b>	4 - 6

<b>Prerequisites</b>	Pharmacology of drugs used in the Treatment of HIV
<b>Learning resources for students</b>	<ol style="list-style-type: none"> <li>1. Essentials of Medical Pharmacology Tripathi</li> <li>2. National AIDS control organisation: National guidelines for HIV care and treatment 2021</li> </ol>
<b>List of activities</b>	<ol style="list-style-type: none"> <li>1. Read and discuss the drugs used in the treatment of Human immunodeficiency virus infection</li> <li>2. Present the given topic regarding ART in the small group and participate in active discussion</li> </ol>
<b>Portfolio entries required</b>	Documentation of presentation done
<b>Log book entry required</b>	Day to day activities must be recorded in the log book & signed by preceptor
<b>Assessment</b>	<ol style="list-style-type: none"> <li>1. Attendance: day to day participation in departmental activities</li> <li>2. Performance of assigned task and presentation of topic</li> </ol>
<b>Other comments</b>	

### **3. PHARM A3**

<b>Name of Block</b>	<b>Block I</b>
<b>Name of Elective</b>	Drug therapy of Tuberculosis
<b>Location of hospital lab/research facility</b>	Department of Pharmacology, Govt. Medical College Thrissur
<b>Name of internal preceptor(s)</b>	Dr. Ushabhayi C.
<b>Name of external preceptor(s) if applicable</b>	Dr. K.B. Sanalkumar
<b>Learning objectives of electives</b>	<ol style="list-style-type: none"> <li>1. Visit TB clinic/Ward- See cases and note down the management</li> <li>2. To enumerate the first line anti TB drugs</li> <li>3. Define Drug sensitive TB,MDR TB&amp; XDR TB</li> <li>4. To prescribe for a case of newly diagnosed TB</li> <li>5. Monitor the adverse effects of anti-tubercular drugs</li> <li>6. Pharmacovigilance: ADR reporting, Causality assessment, Uploading</li> </ol>

<b>Number of students that can be accommodated in this elective</b>	4 - 6
<b>Prerequisites for elective</b>	Thorough knowledge of the pharmacology of drugs used in the treatment of TB
<b>Learning resources for students</b>	<ol style="list-style-type: none"> <li>1. Essentials of Medical Pharmacology Tripathi</li> <li>2. Davidson's principles and practice of Medicine.</li> <li>3. NTEP guidelines</li> </ol>
<b>List of activities of student participation</b>	Students will be divided into groups and can do a presentation of the different aspects of treatment of Tuberculosis as project.
<b>Portfolio entries required</b>	Documentation of presentation done
<b>Log book entry required</b>	Day today activities must be recorded in the log book & signed by preceptor
<b>Assessment</b>	<ol style="list-style-type: none"> <li>1. Attendance; day to day participation in departmental activities</li> <li>2. Performance of assigned task and presentation of topic</li> </ol>
<b>Other comments</b>	

## SECOND HALF

### 1. PHARM B1

<b>Name of Block</b>	<b>Block 1</b>
<b>Name of Elective</b>	Management of Diabetes Mellitus
<b>Location of hospital lab/research facility</b>	Department of Pharmacology, Govt. Medical College, Thrissur
<b>Name of internal preceptor(s)</b>	Dr. Preetha Jose
<b>Name of external preceptor(s) if applicable</b>	Dr. K.B. Sanalkumar
<b>Learning objectives of electives</b>	<ol style="list-style-type: none"><li>1. Visit Medicine OP/ diabetic clinic/ Ward/ICU- See cases and note down the management with drugs used including dose and route</li><li>2. Criteria for diagnosing diabetes mellitus</li><li>3. Management goals</li><li>4. Relevant investigations</li><li>5. To classify and enumerate the drugs used in the treatment of Diabetes Mellitus</li><li>6. To describe the clinical pharmacology of the above drugs- mechanism of action, drug interactions, adverse drug reactions</li><li>7. To learn the current guidelines for management of Diabetes Mellitus</li><li>8. Drug selection in various types of diabetes mellitus</li><li>9. To describe the management of Diabetes Mellitus – Type I and II, Diabetic ketoacidosis, hyperosmolar non-ketotic coma, Hypoglycaemia</li><li>10. To learn the information to be communicated regarding the disease and the treatment to the patient. To counsel patients about non-pharmacological management of diabetes mellitus</li><li>11. Pharmacovigilance: ADR reporting, Causality assessment, Uploading</li></ol>
<b>Number of students that can be accommodated in this elective</b>	4 - 6

<b>Prerequisites for elective</b>	Pharmacology of drugs used in the Treatment of Diabetes Mellitus
<b>Learning resources for students</b>	1.Essentials of Medical Pharmacology Tripathi 2. Davidson’s principles and practice of Medicine. 3.Current ADA Guidelines for management of Diabetes Mellitus
<b>List of activities of student participation</b>	1.Read and discuss the drugs used in the treatment of Diabetes Mellitus 2.Present the given topic regarding Diabetes Mellitus in the small group and participate in active discussion
<b>Portfolio entries required</b>	Documentation of presentation done
<b>Log book entry required</b>	Day to day activities must be recorded in the log book & signed by preceptor
<b>Assessment</b>	1.Attendance: day to day participation in departmental activities 2.Performance of assigned task and presentation of topic
<b>Other comments</b>	

## 2. PHARM B2

<b>Name of Block</b>	<b>Block 1</b>
<b>Name of Elective</b>	Clinical pharmacology and pharmacotherapy of Epilepsy
<b>Location of hospital lab/research facility</b>	Department of Pharmacology, Govt. Medical College Thrissur
<b>Name of internal preceptor(s)</b>	Dr. Binoy E.B
<b>Name of external preceptor(s) if applicable</b>	Dr. K.B Sanalkumar

<b>Learning objectives of electives</b>	<ol style="list-style-type: none"> <li>1. Visit Medicine/ Neurology OP/Ward/ICU- See cases and note down the drugs used with dose and route in different types of Epilepsy</li> <li>2. To classify and enumerate the drugs used in the treatment of Epilepsy.</li> <li>3. To describe the clinical pharmacology of the above drugs- mechanism of action, drug interactions, adverse drug reactions</li> <li>4. To learn the current guidelines for management of Epilepsy including Status Epilepticus</li> <li>5. Select and describe the treatment of different types of epilepsy.</li> <li>6. To learn the information to be communicated regarding the treatment to the patient</li> <li>7. Pharmacovigilance: ADR reporting, Causality assessment, Uploading</li> </ol>
<b>Number of students that can be accommodated in this elective</b>	4 - 6
<b>Prerequisites for elective</b>	<p>Thorough knowledge about the drugs for treatment of Epilepsy and Status Epilepticus</p> <p>Current guidelines for management of Epilepsy and Status Epilepticus</p>
<b>Learning resources for students</b>	<ol style="list-style-type: none"> <li>1. Essentials of Medical Pharmacology Tripathi</li> <li>2. Davidson’s principles and practice of Medicine.</li> <li>3. Guidelines for management of Epilepsy and Status Epilepticus</li> </ol>
<b>List of activities of student participation</b>	<ol style="list-style-type: none"> <li>1. Read and discuss the drugs used in the treatment of Epilepsy</li> <li>2. Prepare and present the pharmacotherapy of Epilepsy and Status epilepticus and discuss the same in a small group</li> <li>3. Write current guidelines for management of Epilepsy and Status Epilepticus</li> </ol>
<b>Portfolio entries required</b>	Documentation of presentation done
<b>Log book entry required</b>	Day today activities must be recorded in the log book & signed by preceptor

<b>Assessment</b>	<ol style="list-style-type: none"> <li>1. Attendance; day to day participation in departmental activities</li> <li>2. Performance of assigned task and presentation of topic</li> </ol>
<b>Other comments</b>	

### 3. PHARM B3

<b>Name of Block</b>	Block 1
<b>Name of Elective</b>	Clinical pharmacology and pharmacotherapy Hypertension
<b>Location of hospital lab/research facility</b>	Department of Pharmacology, Govt. Medical College Thrissur
<b>Name of internal preceptor(s)</b>	Dr. Sasmi M.B.
<b>Name of external preceptor(s) if applicable</b>	Dr. K. B Sanalkumar
<b>Learning objectives of electives</b>	<ol style="list-style-type: none"> <li>1. Visit Medicine OP/ Ward/ICU- See cases and note down the drugs used including dose and route</li> <li>2. Criteria for diagnosing Hypertension</li> <li>3. Management goals</li> <li>4. Classification of drugs</li> <li>5. Drug selection in various types of HTN</li> <li>6. To counsel patients about non-pharmacological management of HTN</li> <li>7. Relevant investigations</li> <li>8. Management of hypertensive emergency</li> <li>9. Pharmacovigilance: ADR reporting, Causality assessment, Uploading</li> </ol>
<b>Number of students that can be accommodated in this elective</b>	4 - 6
<b>Learning resources for students</b>	<ol style="list-style-type: none"> <li>1. Essentials of Medical Pharmacology Tripathi</li> <li>2. Davidson's principles and practice of Medicine</li> <li>3. Current JNC guidelines for management of Hypertension</li> </ol>
<b>Assignments</b>	Find the 'P' drug for the given case and write a proper prescription
<b>List of activities of student participation</b>	<ol style="list-style-type: none"> <li>1. Read and discuss the drugs used in the treatment of Hypertension</li> <li>2. Prepare and present the pharmacotherapy of Hypertension and discuss the same in a small group</li> </ol>

	3. Find the 'P' drug for the given case and write a proper prescription
<b>Portfolio entries required</b>	Documentation of presentation done
<b>Log book entry required</b>	Day today activities must be recorded in the log book & signed by preceptor
<b>Assessment</b>	<ol style="list-style-type: none"><li>1. Attendance; day to day participation in departmental activities</li><li>2. Performance of assigned task and presentation of topic</li></ol>
<b>Other comments</b>	