

**ELECTIVES IN PEDIATRICS (2023 BATCH MBBS)**

PED1 Pediatric Emergencies	Dr Nithya
PED2 Pediatric Intensive Care	Dr Deepa Anirudhan
PED3 Pediatric Hematology	Dr Ajithkumar/Dr Deepthi
PED4 Early intervention in childhood disability	Dr Reshmi/ Dr Janaki Menon

**PED1 Emergency Paediatrics**

<b>Name of Block</b>	Block II
<b>Name of Elective</b>	PED1 Emergency Paediatrics
<b>Location of hospital lab/research facility</b>	Paediatric Casualty, Triage area, Observation room, DTU(Diarrhoea Treatment Unit) , Emergency ICU& casualty lab.
<b>Name of internal preceptor(s)</b>	Dr .Nithya, Assistant Professor, Dept of Pediatrics
<b>Name of external preceptor(s) if applicable</b>	Dr Janaki Menon, Professor in Pediatrics
<b>Learning objectives of electives</b>	<ol style="list-style-type: none"> <li>1. Identification of a sick child and sick Newborn</li> <li>2. IMNCI strategies and triaging</li> <li>3. Stabilization and approach to outpatient management of common Paediatric complaints like fever, pain , injuries, seizures, breathlessness, rashes etc,</li> <li>4. Focused history taking and clinical examination.</li> <li>5. Basic life support training.</li> <li>6. Using the laboratory</li> </ol>
<b>Number of students that can be accommodated in this elective</b>	Four
<b>Prerequisites for elective</b>	1. Basic knowledge in Paediatrics
<b>Learning resources for students</b>	<ol style="list-style-type: none"> <li>1. OP Gai, Textbook of Paediatrics</li> <li>2. Nelsons Textbook of Paediatrics</li> <li>3. IAP Textbook on Basic Life Support</li> <li>4. IMNCI strategies of WHO/UNICEF</li> </ol>
<b>List of activities of student participation</b>	1. Work with preceptors, Duty medical officers, senior residents, residents and house surgeons.

	<ol style="list-style-type: none"> <li>2. Post admission follow up of the patients in ward / PICU .</li> <li>3. Assist in monitoring of sick patients</li> <li>4. Record vital signs</li> <li>5. Interpretation of basic laboratory tests and rationale for each tests.</li> <li>6. Observe/assist/perform under supervision procedures needed in treatment of sick child.</li> <li>7. Observe the counselling and communication session for parents.</li> <li>8. Participate in educational activities in the department of Paediatrics</li> <li>9. Present weekly topics</li> </ol>
<b>Portfolio entries required</b>	<p>Documentation with reflective writing,</p> <ol style="list-style-type: none"> <li>1. Case record -5 cases per day</li> <li>2. Academic presentations made - 2 during 2 weeks</li> <li>3. Case presentation on rounds</li> <li>4. Procedures observed/assisted/done under supervision</li> <li>5. Patient/relatives counselling</li> </ol>
<b>Log book entry required</b>	<ol style="list-style-type: none"> <li>1. Cases seen: 10 per day</li> <li>2. Academic presentations made - 2 per elective</li> <li>3. Case presentation done at follow up rounds - 1 per day</li> <li>4. Documentation of procedures done (O/A/P)</li> <li>5. Attendance during counselling sessions- 2 per day</li> </ol>
<b>Assessment</b>	<p>Formative:</p> <ol style="list-style-type: none"> <li>1. Attendance</li> <li>2. Daily participation in departmental academic activity</li> <li>3. Performance of assigned tasks (DOPS) 4 tasks</li> <li>4. Presentation of worked up case in department (mini CEX) 2 cases</li> <li>5. 360 degree assessment</li> </ol>
<b>Other comments</b>	<p>The learner is expected to spend at least 8 hours in a day in the Paediatric casualty. 75% attendance is mandatory for successful completion of the elective</p>

### PED2 Pediatric Intensive Care

<b>Name of Block</b>	Block II
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<b>Name of Elective</b>	Pediatric Intensive Care
<b>Location of hospital lab/research facility</b>	Pediatric ICU - 10 bedded
<b>Name of internal preceptor(s)</b>	Dr Deepa Anirudhan, Additional Professor, Dept of Pediatrics
<b>Name of external preceptor(s) if applicable</b>	Dr Janaki Menon, Professor in Pediatrics
<b>Learning objectives of electives</b>	<ol style="list-style-type: none"> <li>1. To be able to assess the physiological status of a critically ill child- PALS Algorithm</li> <li>2. To learn how to monitor and document vital signs, fluid status, sensorium, of a critically ill child</li> <li>3. To understand team dynamics in the ICU setting</li> <li>4. To learn procedural skills needed to manage a critically ill child like IV cannulation. NG tube insertion, Urinary catheterisation, Bag and mask ventilation etc.</li> <li>5. To communicate bad news empathetically to relatives of a critically ill child</li> </ol>
<b>Number of students that can be accommodated in this elective</b>	Two
<b>Prerequisites for elective</b>	<ol style="list-style-type: none"> <li>1. Basic knowledge in universal precautions</li> <li>2. BLS course completion</li> <li>3. HBsAg vaccination should be mandatorily completed</li> </ol>
<b>Learning resources for students</b>	<ol style="list-style-type: none"> <li>1. The Harriet Lane Handbook, 22nd edition</li> <li>2. Institutional protocol for PICU care</li> </ol>
<b>List of activities of student participation</b>	<ol style="list-style-type: none"> <li>1. Work with preceptors</li> <li>2. Join rounds daily with active participation</li> <li>3. Assist in monitoring of sick patients</li> <li>4. Observe/assist/perform under supervision procedures needed in treatment of critically ill patients</li> <li>5. Observe the counselling session for relatives daily</li> <li>6. Participate in educational activities in the PICU</li> <li>7. Present 2 topics in PICU one week apart</li> </ol>

<b>Portfolio entries required</b>	Documentation with reflective writing, <ol style="list-style-type: none"> <li>1. Case record 1 case per day</li> <li>2. Academic presentations made - 2 during 4 weeks</li> <li>3. Attend PICU rounds</li> <li>4. Procedures observed/assisted/done under supervision</li> <li>5. Patient/relatives counselling</li> </ol>
<b>Log book entry required</b>	<ol style="list-style-type: none"> <li>1. Cases seen: 2 per day</li> <li>2. Academic presentations made - 2 per elective</li> <li>3. Case presentation on rounds - 1 per week</li> <li>4. Documentation of procedures done (O/A/P) 8</li> <li>5. Attendance during counselling sessions 8</li> </ol>
<b>Assessment</b>	Formative: <ol style="list-style-type: none"> <li>1. Attendance</li> <li>2. Daily participation in departmental academic activity</li> <li>3. Performance of assigned tasks (DOPS) 4 tasks</li> <li>4. Presentation of worked up case in department (mini CEX) 2 cases</li> <li>5. 360 degree assessment</li> </ol>
<b>Other comments</b>	The learner is expected to spend at least 8 hours in a day in the PICU 75% attendance is mandatory for successful completion of the elective

### PED3 Paediatric Haematology

<b>Name of Block</b>	Block II
<b>Name of Elective</b>	Paediatric Haematology

<b>Name of Faculty</b>	Dr Ajithkumar V T, Professor and HOD, Department of Paediatrics  Dr Deepthi R, Assistant Professor, Department of Paediatrics
<b>Learning Objective</b>	To learn about various haematological disorders affecting paediatric age group with emphasis on haemolytic anaemias and haemophilia
<b>Number of students that can be accommodated</b>	Two
<b>Pre requisites for elective</b>	Basic knowledge and interest in Haematology
<b>Learning Resources for students</b>	Textbook of Paediatrics, O.P Ghai Nelson Book Of Paediatrics
<b>List of activities for student participation</b>	<ol style="list-style-type: none"> <li>1. Attend Haematology clinic: Observing different haematological cases coming to OPD, administration of injection Emicizumab, factor concentrate and follow up of patients</li> <li>2. Attend Clinical Pathology lab : Preparation and examination of peripheral smear, observing factor assay and inhibitor screening procedures</li> <li>3. Seeing haematological cases admitted in ward and case discussion by faculty</li> <li>4. Observing procedures such as peripheral smear preparation, bone marrow aspiration, setting up of blood transfusion, calculation and administration of Factor concentrates in different types of bleed from ward and casualty</li> <li>5. Visit to blood bank: Observing blood grouping, component separation, blood donation</li> <li>6. Attend counselling sessions and follow up of chronic patients</li> <li>7. Brief session on physiotherapy for hemophilia patients</li> <li>8. Topic presentation on various haematology cases.</li> </ol>
<b>Portfolio entries required</b>	Case record entry: <ol style="list-style-type: none"> <li>1.1 clinical case per day from paediatric ward</li> <li>2. Learning points from topic presentation.</li> </ol>

	<p>3. Clinical profile of patients seen in haematology clinic (Mini research project)</p> <p>4. Reflection and learning points from Haematology lab visit</p> <p>5. Reflection and learning points from Blood bank visit.</p> <p>6. Procedures observed .</p>
<b>Assessment</b>	<p>Attendance</p> <p>Formative :</p> <ul style="list-style-type: none"> <li>• Case presentation</li> <li>• Topic presentation</li> <li>• Final assessment based on case presentation</li> <li>• Peripheral Smear Preparation.</li> </ul>

#### **PED4 Early intervention in childhood disability**

<b>Name of Block</b>	Block 2
<b>Name of the elective</b>	PED4 Early intervention in childhood disability
<b>Location of hospital</b>	Regional Early Intervention Centre, GMC, Thrissur
<b>Name of the internal preceptor</b>	Dr Janaki Menon
<b>Name of the external preceptor</b>	Dr Reshmi Prabhakaran
<b>Learning objectives</b>	<ol style="list-style-type: none"> <li>1. To understand the concept of early detection of disabilities and early intervention.</li> <li>2. To study the process of high risk newborn follow up and early stimulation</li> <li>3. To identify the types of childhood disability</li> <li>4. To understand the concept of team work in neurodevelopmental follow up and intervention</li> </ol>
<b>Number of students that can be accommodated in this elective</b>	Two
<b>Prerequisites for elective</b>	Basic knowledge of growth and development
<b>Learning resources for students</b>	<ol style="list-style-type: none"> <li>1. Setting up District Early intervention Centres-Operational guidelines- Ministry of Health and Family Welfare 2014</li> <li>2. Handbook on Early Intervention Centres for Children with disabilities-Ministry of Social Justice &amp; Empowerment – GOI</li> <li>3. Ghai Essential Pediatrics 10<sup>th</sup> Ed</li> </ol>

<b>List of activities of student participation</b>	<ol style="list-style-type: none"> <li>1. Attend 2 SNCU follow up OPs , learn early detection and early intervention</li> <li>2. Take case history along with REIC M O and follow up at least 5 children with disability attending REIC through various therapy sessions</li> <li>3. Attend one group therapy session</li> <li>4. Visit SNCU with the team</li> <li>5. Present one topic</li> <li>6. Participate in special day observances and educational activities and prepare a report</li> </ol>
<b>Portfolio entries required</b>	<p>Documentation</p> <ol style="list-style-type: none"> <li>1. Case reports of 5 children with disability attending REIC</li> <li>2. Reflective writing on visit to SNCU</li> <li>3. Report with pictures of special day observances</li> <li>4. Participation in the academic activities – At least 1 topic presentation</li> <li>5. Reflective writing on the team work in REIC</li> <li>6. Report on the conduct of SNCU follow up OP, evaluation of babies and early stimulation</li> </ol>
<b>Log book entry required</b>	<ol style="list-style-type: none"> <li>1.Cases seen – 5 per elective</li> <li>2.Academic presentations made – 1 per elective</li> <li>3.Development and neurological assessment of 5 babies in SNCU follow up OP</li> <li>4.Visit to SNCU</li> <li>5.Attendance during group therapy sessions</li> <li>6.Participation in special day observances</li> </ol>
<b>Assessment</b>	<ol style="list-style-type: none"> <li>1.Attendance</li> <li>2.Daily participation in REIC activities</li> <li>3.Topic presentation</li> <li>4.Mini CEX of 1 case</li> <li>5. OSCE- Counseling of one parent</li> <li>6.360 degree assessment</li> </ol>
<b>Other comments</b>	75% attendance, with physical presence of at least 5 hrs /day is required for the successful completion of the elective