

**Sydney Medical School
University of Sydney
Discipline of Emergency Medicine**

Paediatric Emergency Medicine Rotation- 2016

STUDENT PAEDIATRIC EMERGENCY ROTATION LEARNING OBJECTIVES

1. Attend organised ED rounds and teaching sessions as outlined by your supervisor on day one of the Emergency Rotation
2. Present a “hot case” you have seen in the ED to an ED doctor including history, examination, provisional and differential diagnoses and initial investigations and management
3. Attend an informal session on Basic Life Support of the Child
4. Observe a common ED procedure such as lumbar puncture, joint relocation, cardiopulmonary resuscitation, defibrillation, chest drain
5. Attend a weekly 1hour group discussion. The student will have completed the mandatory materials in preparation for this session. The tutor will facilitate the session with the expectation that students will be able to complete the designated section of the workbook following completion of the session
6. Complete an evening shift during the term in the Emergency Department, the focus is to obtain an overview of how an ED systems, e.g. Trauma call, acute resuscitation system and MET calls.

STUDENT PAEDIATRIC EMERGENCY ROTATION LEARNING TOPICS

1. Six key learning topics for students to complete.
2. Each learning topic will focus only on the fundamental aspects of essential knowledge.
3. Students will be required to complete mandatory learning materials by accessing on-line case-based learning modules

LEARNING TOPIC 1- EARLY RECOGNITION OF THE ACUTELY DETERIORATING CHILD & COMMON EMERGENCIES

Learning Objectives

1. Discuss an approach to the early recognition of a child with potentially serious illness in the emergency department using a structured ABCD approach
2. Discuss the five cardinal presentations of Paediatric Emergency Medicine
3. Outline common emergency medical systems available to clinicians
4. Complete R4K on-line resuscitation program

Learning Resources

1. Review, lecture Recognition of the Deteriorating Child and Common Paediatric Emergencies
2. R4K online

LEARNING TOPIC 2- BREATHING DIFFICULTY

Learning Objectives

Describes the epidemiology, clinical features and emergency management of common conditions that present with breathing difficulty

Learning Topics

1. Discuss a common approach to airway emergencies and give a differential diagnosis of possible causes.
2. Outline an approach to the child with respiratory failure.
3. Discuss non-respiratory conditions that may primarily present with breathing difficulty

Learning Resources

1. On-line self-directed module- Breathing difficulty

LEARNING TOPIC 3- THE FEBRILE CHILD AND SEPSIS

Learning Objectives

Formulate a diagnostic evaluation of a child with a fever, identify rashes that indicate serious illness and recognise signs and symptoms of septic shock and the principles of management

Learning Topics

1. Discuss an approach to the child with fever
2. Identify rashes that may indicate serious illness
3. Recognise signs and symptoms of septic shock and discuss the basic principles of management
4. Describe common viral exanthema that may present to the ED
5. Describe prevention measures for common infectious disease in childhood.

Learning Resources

1. On-line self-directed module- Fever

LEARNING TOPIC 4- VOMITING, DIARRHOEA AND ABDOMINAL PAIN

Learning objectives

1. Describes the epidemiology, clinical features and emergency management of common conditions that cause vomiting / vomiting with diarrhea
2. Describe the epidemiology, clinical features and emergency management of common conditions that cause abdominal pain

Learning Topics

1. Describe common causes of vomiting and diarrhea and fluid and electrolyte problems associated with these conditions
2. Discuss extra-GI causes of vomiting and describe how these can be distinguished clinically from other primary causes of vomiting/abdominal pain
3. Recognize that bilious emesis in an infant is a surgical emergency and list

the causes. Describes the classic triad of intussusceptions

4. List causes of acute abdominal pain by age, and outline steps in their diagnosis.

Learning Resources

1. On-line self-directed modules- Abdominal pain

LEARNING TOPIC 5- SEIZURES

Learning Objectives

Describe the epidemiology, clinical features and emergency management of common conditions that cause seizure

Learning Topics

1. List the causes of altered level of consciousness in the paediatric patient
2. Recognise the unique presentation of meningitis and encephalitis at different ages
3. Describe the evaluation and management of children with febrile and afebrile seizures
4. Describe the initial stabilisation and management of children in status epilepticus
5. Describe the complications of prolonged status epilepticus

Learning Resources

1. On-line self-directed module- Seizure

LEARNING TOPIC 5- TRAUMA

Learning Objectives

Describe the epidemiology, clinical features and emergency management of common traumatic conditions in children. This topic will complement trauma teaching during the surgical component of the Adolescent and Child Health Rotation

Learning Topics

1. List the most common type of trauma in children
2. Identify the correct sequence of priorities to be used in assessing and managing the multiply injured patient.
3. Discuss the priorities in managing the primary survey in the paediatric trauma patient

Learning Resources

1. On-line self-directed modules- Trauma 1, 2 & 3

ADDITIONAL LEARNING RESOURCES

1. Students may be directed to other learning resources. These are to supplement the self-directed modules. Students may be directed to this content by their tutors. These may include:

- a. Browne et al. On Call Paediatrics. Elsevier, 2012.
- b. Browne et al Principles and Practice of Paediatric Emergency Medicine, McCellan & Petty, 2000

REFERENCE SOURCES

The definitive reference resources for this rotation is Cameron et al 2nd edition Textbook of Paediatric Emergency Medicine