Hamdard Institute of Medical Sciences and Research
Department of Medicine

1. CLINICAL ELECTIVE

Name of the block	Block 2
Name of the elective	Hematology – Anemia
Location	Medical college hospital
Name of the internal preceptor	Dr Rosmy Jose
Name of the external preceptor	
Learning objectives of the elective	1. To identify anemia (based on history and physical examination). 2. Knowledge of preliminary workup for anemia. 3. To counsel patient about dietary requirement. 4. To manage anemia on OPD basis. 5. To learn about indications for transfusion.
Number of the student	2
Prerequisites for elective	Must have received necessary immunization.
List of activities of student participation	1. Participate in OPD. 2. Participate in teaching sessions in department. 3. Present two fully worked up case in teaching session.
Learning resources	Harrison's principle of internal medicine.
Portfolio entries required	Documentation of worked up cases in log book. Feedback from preceptor.
Log book entry required	Completion of posting signed by preceptor.
Assessment	Participation in OP evaluation of patients. Case presentation. Attendance.
Other comments	

2. CLINICAL ELECTIVE

Name of Elective : Care of patients on mechanical ventilation

: HAHC Hospital, HIMSR

Name of the Supervisor : Dr. Arvind Kumar

Learning Objective	: Understand the indications, contraindications, and complications of mechanical ventilation. Develop skills in setting up, managing, and weaning patients from mechanical ventilation. Appreciate the importance of multidisciplinary teams in caring for mechanically ventilated patients. Familiarize yourself with current guidelines and best practices for mechanical ventilation.
Number of students	: 5
Duration	: 2 weeks
Clinical Experience	Intensive Care Unit (ICU) rotations: Participate in ICU rounds to manage mechanically ventilated patients. Mechanical ventilation management: Assist in setting up, adjusting, and troubleshooting mechanical ventilation systems. Patient assessment: Develop skills in assessing patients' respiratory status, including interpreting arterial blood gases (ABGs) and chest radiographs. Multidisciplinary team meetings: Attend meetings to understand the role of different healthcare professionals in caring for mechanically ventilated patients.
Topics to Cover	Indications for mechanical ventilation: Respiratory failure, cardiac arrest, neurosurgical procedures. Modes of mechanical ventilation: Assist-control (AC), synchronized intermittent mandatory ventilation (SIMV), pressure support ventilation (PSV). Ventilator settings: Tidal volume, respiratory rate, inspiratory pressure, positive end-expiratory pressure (PEEP). Complications of mechanical ventilation: Ventilator-associated pneumonia (VAP), barotrauma, volutrauma.

Weaning from mechanical ventilation: Criteria for weaning, weaning protocols, non-invasive ventilation.

Learning Resources	:	Textbooks: "Mechanical Ventilation" by Martin J. Tobin, "Principles of Critical Care" by Hall, Schmidt, Wood. Online resources: American Thoracic Society (ATS) website, Society of Critical Care Medicine (SCCM) website. Journals: "American Journal of Respiratory and Critical Care Medicine", "Critical Care Medicine", "Intensive Care Medicine".
Assessment :	:	Attendance
	:	Log book entries
	:	Dialysis rounds

3. CLINICAL ELECTIVE

Name of Elective	:	Diabetes and its complications HAHC Hospital, HIMSR
Name of the Supervisor	:	Dr. Saood Mailk
Learning Objective		Understand the pathophysiology and clinical presentation of diabetes-related complications. Develop skills in diagnosing and managing diabetes-related complications. Appreciate the importance of multidisciplinary teams in managing diabetes-related complications.

Familiarize yourself with current guidelines and treatment options for diabetes-related complications.

Number of students	:	5
Duration	:	2 weeks

Clinical Experience

1. Outpatient clinics: Attend diabetes clinics to observe and assist in patient consultations.

2.Ward rounds: Participate in ward rounds to manage hospitalized patients with diabetes-related complications.

3. Multidisciplinary team meetings: Attend meetings to understand the role of different healthcare professionals in managing diabetes-related complications**.**

Topics to Cover

1. Diabetic retinopathy: Pathophysiology, diagnosis, treatment options, and management strategies.

2. Diabetic nephropathy: Pathophysiology, diagnosis, treatment options, and management strategies.

3. Diabetic neuropathy: Pathophysiology, diagnosis, treatment options, and management strategies.

4. Diabetic foot: Pathophysiology, diagnosis, treatment options, and management strategies.

5. Cardiovascular disease in diabetes: Pathophysiology, diagnosis, treatment options, and management strategies.

Learning Resources : Textbooks: "Joslin's Diabetes Mellitus" by C. Ronald Kahn, "Diabetes Mellitus: A Fundamental and Clinical Text" by Derek LeRoith.

Online resources: American Diabetes Association (ADA) website, International Diabetes Federation (IDF) website.

Journals: "Diabetes Care", "Diabetologia", "Journal of Clinical Endocrinology and Metabolism".

Assessment : : Attendance

: Log book entries

: Dialysis rounds

4. ELECTIVE Gastroenterology

Name of the block	Block B
Name of the elective	Gastroenterology (upper gastrointestinal bleeding)
Location	Medical college hospital
Name of the internal preceptor	Dr Bilal Wani
Name of the external preceptor	
Learning objectives of the elective	6. To diagnosis patients with upper GI bleeding on the basis of history and examination 7. To diagnose and find etiology on the basis of endoscopy. 8. Management of upper GI bleeding. 9. Introduce students to endoscopy lab.
Number of the student	2
Prerequisites for elective	Endoscopy lab
List of activities of student participation	4. Participate in OPD& IPD patients 5. Participate in teaching sessions in department. 6. Present two fully worked up case in teaching session.
Learning resources	Harrison's principle of internal medicine. Sleisenger and Fodtran"s Gastrointestinal and liver desease
Portfolio entries required	Documentation of worked up cases in log book. Feedback from preceptor.
Log book entry required	Completion of posting signed by preceptor.
Assessment	Participation in evaluation of patients. Case presentation. Attendance.
Other comments	

5. CLINICAL ELECTIVE

1	Name of Block	
2	Name of Elective	Insulin storage, delivery and precautions
3	Location of hospital Lab or Research facility	Dept of Medicine, HIMSR, Delhi
4	Name of internal preceptor	Dr. Pratibha
5	Name of external preceptor	
6	Learning objectives of elective	At the end of 2 weeks, 3rd year MBBS students should be able 1. To learn about different types of insulin. 2. To understand Indications of insulin therapy. 3. To learn patient education while prescribing insulin. 4. Side effects of insulin therapy
7	Number of students that can be accommodated in this elective	02
8	Prerequisites for elective	Must have received necessary immunizations, Basic Life Support training
9 9.1 9.2 9.3 9.4	List of activities of student participation Week-1 Week-2 Week-3 Week-4	1. Participate in OP and IP rounds 2. Participate in afternoon teaching sessions of the department. 3. Present at least two cases that are fully worked up in the teaching session. 4. Participate in patient education and multidisciplinary team meetings.
10	Learning Resources	Harrison's Textbook of Medicine
11	Portfolio entries required	**Assignments provided** Two worked up case records that have been presented
12	Log book entry required	Satisfactory completion of posting by a preceptor with a "meets expectation 'M' grade"

13	Assessment	Attendance **Formative:** Participation in OP & IP rounds and team activities Presentation of worked up cases Documentation of attendance and required portfolio and log book entries
14	Other comments	

Week	**Activities**
Week-1 Day-1 Day-2 Day-3 Day-4 Day-5	**To learn about different types of insulin** About types of insulin Mechanism of Action Onset, peak and duration of action of different types of insulin Type of insulin to use in different medical conditions. **To know the indications of insulin therapy** Management of T1DM and T2DM not controlled on OAD Pregnancy DKA HHS Stress related hyperglycaemia - Non diabetic critically ill patients, admitted in ICU, post major surgical or trauma patients

Week- 2	
	To learn Patient education while prescribing insulin
Day-1	Insulin storage in refrigerator Appropriate dosing Need of optimisation of insulin therapy during pregnancy. weight gain or loss, major surgery or illness.
Day-2	Switch or rotate areas for insulin shot SMBG
Day-3	Take meal within 30 min of insulin intake. Warning signs of Hypoglycaemia
	Side effects of insulin therapy
Day-4	Hypoglycaemia - signs, symptoms and management Electrolyte disturbance Weight gain
Day-5	Pain at injection site Lipodystrophy

6. CLINICAL ELECTIVE

Name of Elective : Renal Replacement HAHC Hospital, HIMSR

Name of the Faculty : HAHC Hospital Dialysis Unit

Name of the Supervisor : Dr. Mohd. Ashraf Khan

Learning Activity : Daily round on patients on hemodialysis

a) See wide range of renal and electrolyte disorders in patients with AKI or CKD
b) Exposure to Hemodialysis unit
c) Participate in patients education
d) Prepare at least 2 cases

Learning Objective : At the end of posting students should be able to

(a) Know indications & criteria for renal replacement therapy
(b) Type of renal replacement therapy
(c) Principals of hemodialysis & peritoneal dialysis
(d) Complications of hemodialysis

Number of students	:	2 (Three)
Duration	:	2 weeks
Learning Resources	:	Harrison text book of Medicine Brenner & Rector's text book of nephrology

List of activities

i. Daily rounds of all patients with CKD
ii. See wide range of renal & electrolyte disorders in patients admitted with acute or chronic renal failure
iii. Exposure to Hemodialysis unit/ ward
iv. Know types of renal replacement therapy
v. Criteria/ indications for hemodialysis
vi. Complications during dialysis

Assessment : : Attendance

: Log book entries

: Dialysis rounds

7. CLINICAL ELECTIVE

Name of Elective	:	Rheumatology and exposure to various rheumatic diseases HAHC Hospital, HIMSR
Name of the Supervisor	:	Dr. Dharmander Singh
Learning Objective		1. Understand the diagnosis and management of common rheumatic disease. 2. Develop skills in musculoskeletal examination. 3. Appreciate role of multi-disciplinary team in rheumatology care Familiarize yourself with rheumatology specific investigations is and treatment.
Number of students	:	5
Duration	:	2 weeks

Learning Resources : Textbooks: "Rheumatology" by Anthony J. Pinsonneault, "Kelley's Textbook of Rheumatology" by Gary S. Firestein. Harrison text book of Medicine

Online resources: American College of Rheumatology (ACR) website, European League Against Rheumatism (EULAR) website.

Journals: "Arthritis & Rheumatology", "The Lancet Rheumatology"

Clinical Experience

1. Outpatient clinics: Attend rheumatology clinics to observe and assist in patient consultations.

2. Ward rounds: Participate in ward rounds to manage hospitalized patients with rheumatic diseases.

3. Joint injections and aspirations: Assist in performing joint injections and aspirations under supervision.

4. Musculoskeletal examinations: Practice musculoskeletal examinations on patients with various rheumatic conditions.

Topics to Cover

1. Rheumatoid arthritis: Pathophysiology, diagnosis, treatment options, and management strategies.

2. Osteoarthritis: Epidemiology, diagnosis, treatment options, and management strategies.

3. Systemic lupus erythematosus (SLE): Pathophysiology, diagnosis, treatment options, and management strategies.

4. Gout and pseudogout: Diagnosis, treatment options, and management strategies.

5. Spondyloarthritis: Diagnosis, treatment options, and management strategies.

Learning Resources : Textbooks: "Rheumatology" by Anthony J. Pinsonneault, "Kelley's Textbook of Rheumatology" by Gary S. Firestein. Harrison text book of Medicine

Online resources: American College of Rheumatology (ACR) website, European League Against Rheumatism (EULAR) website.

Journals: "Arthritis & Rheumatology", "The Lancet Rheumatology"

Assessment : : Attendance

: Log book entries

: Dialysis rounds

8. CLINICAL ELECTIVE

Name of the block	Block 2
Name of the elective	Cardiology (Approach to patient with chest pain)
Location	Medical college hospital
Name of the internal preceptor	Dr Shreeraz Alam / Dr Ameen Jariya
Name of the external preceptor	
Learning objectives of the elective	10. To take proper history of a patient with chest pain. 11. ECG corealtion with chest pain. 12. ECHO, TMT,HOLTER investigations done with results and corelation
Number of the student	2
Prerequisites for elective	Cardiology OPD ECHO lab
List of activities of student participation	7. Participate in OPD and IPD patients. 8. Participate in teaching sessions in department. 9. Present five fully worked up case in teaching session.
Learning resources	Harrison's principle of internal medicine.
Portfolio entries required	Documentation of worked up cases in log book. Feedback from preceptor.
Log book entry required	Completion of posting signed by preceptor.
Assessment	Participation in evaluation of patients. Case presentation. Attendance.
Other comments	