

Hamdard Institute of Medical Sciences and Research
Department of Medicine

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 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
: Daily rounds

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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
- : Daily rounds

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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	<ol style="list-style-type: none">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	<ol style="list-style-type: none">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

: Daily rounds