FOURTH YEAR
LEARNING OBJECTIVES
2015
ORTHOPAEDICS
LEARNING OUTCOME

Topic: **Ankle Fractures**

1. Mode of teaching: Lecture
2. Class: Forth year MBBS
3. Learning outcome: Student should be able to:
   - Define dislocation
   - Types of fracture associated with ankle dislocation
   - Able to differentiate fracture pattern on x rays,
   - Should know treatment
   - Identify complications

4. Number of slides: 35
5. Interactive portion: 25%
6. Teacher: Assistant professor / SR
7. Duration of lecture: One hour
   Lecture 45 minutes

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ORTHOPAEDICS
LEARNING OUTCOME

Topic: **Colle’s Fracture**

1. Mode of teaching: Lecture
2. Class: Forth year MBBS
3. Learning outcome: Student should be able to:
   - Define colle’s fracture
   - Classification of fracture
   - Able to differentiate fracture pattern on x rays,
   - Should know treatment
   - Identify complications

4. Number of slides: 20
5. Interactive portion: 25%
6. Teacher: Assistant professor / SR
7. Duration of lecture: One hour
   Lecture 45 minutes
ORTHOPAEDICS
LEARNING OUTCOME

1. Topic: General Fracture Introduction
2. Mode of teaching: Lecture
3. Class: Fourth year MBBS
4. Learning outcome: Student should be able to:
   - Define fracture
   - Types of fracture
   - Able to differentiate fracture pattern on x rays,
   - Identify complications

5. Number of slides: 31
6. Interactive portion: 25%
7. Teacher: Assistant professor / SR
8. Duration of lecture: One hour
   Lecture 45 minutes

ORTHOPAEDICS
LEARNING OUTCOME

Topic: Fracture Around Elbow

1. Mode of teaching: Lecture
2. Class: Fourth year MBBS

Learning outcome Students should be able
   - To assess clinically elbow fracture
   - Types of fracture
   - Able to differentiate fracture pattern on x rays,
   - Know general treatment plan
   - Identify complications

3. Number of slides: 31
4. Interactive portion: 25%
5. Teacher: Assistant professor / SR
6. Duration of lecture: One hour
   Lecture 45 minutes
ORTHOPAEDICS
LEARNING OUTCOME

Topic: Fracture Around Knee

1. Mode of teaching: Lecture
2. Class: Forth year MBBS

Learning Outcome students should be able

- Define supracondylar femur fracture and schatzker fracture
- Classification of fracture
- Able to differentiate fracture pattern on x rays,
- Should know treatment
- Identify complications

3. Number of slides: 31
4. Interactive portion: 25%
5. Teacher: Assistant professor / SR
6. Duration of lecture: One hour
   Lecture 45 minutes

ORTHOPAEDICS
LEARNING OUTCOME

Topic: Hip Dislocation

1. Mode of teaching: Lecture
2. Class: Forth year MBBS

Learning Outcome students should be able

- Define dislocation
- Interpret x rays of hip dislocation
- Should know the complications of hip dislocation
- Should know mechanism responsible for hip dislocation
- Should know treatment

3. Number of slides: 31
4. Interactive portion: 25%
5. Teacher: Assistant professor / SR
6. Duration of lecture: One hour
   Lecture 45 minutes
ORTHOPAEDICS
LEARNING OUTCOME

Topic: Hip joint Fractures

1. Mode of teaching: Lecture
2. Class: Forth year MBBS

Learning Outcome

- Define hip fracture
- Types of fracture
- Able to differentiate fracture pattern on x rays
- Know classification
- Should know treatment options
- Identify complications

3. Number of slides: 40
4. Interactive portion: 25%
5. Teacher: Assistant professor / SR
6. Duration of lecture: One hour
   Lecture 45 minutes

ORTHOPAEDICS
LEARNING OUTCOME

1. Topic: Shoulder Dislocation
2. Mode of teaching: Lecture
3. Class: Forth year MBBS

Learning Outcome

- Define dislocation
- Interpret x rays of shoulder dislocation
- Should know the complications of shoulder dislocation
- Should know mechanism responsible for shoulder dislocation
- Should know treatment

4. Number of slides: 40
5. Interactive portion: 25%
6. Teacher: Assistant professor / SR
7. Duration of lecture: One hour
   Lecture 45 minutes
ORTHOPAEDICS
LEARNING OUTCOME

Topic: Wrist Fractures

1. Mode of teaching: Lecture
2. Class: Forth year MBBS

Learning Outcome students should be able

- Know the anatomy of wrist joint
- To interpret x rays of wrist joint
- To pick fractures of carpal bones
- Know the treatment
- Know the complications of carpal bone fractures

3. Number of slides: 40
4. Interactive portion: 25%
5. Teacher: Assistant professor / SR
6. Duration of lecture: One hour
   Lecture 45 minutes

ORTHOPAEDICS
LEARNING OUTCOME

Topic: Congenital Muscular Torticollis

1. Mode of teaching: Lecture
2. Class: Forth year MBBS

Learning Outcome Students should be able

- What is Congenital Muscular Torticollis
- Etiology of CMT
- Symptoms of CMT
- D/D of CMT
- What is the treatment options for CMT

3. Number of slides: 35
4. Interactive portion: 25%
5. Teacher: Assistant professor / SR
6. Duration of lecture: One hour
   Lecture 45 minutes
ORTHOPAEDICS
LEARNING OUTCOME

Topic: Osteogenesis Imperfecta

1. Mode of teaching: Lecture
2. Class: Forth year MBBS

Learning Outcome

• What is Osteogenesis Imperfecta?
• How to diagnose it?
• Classification
• Management & Treatment

3. Number of slides: 40
4. Interactive portion: 25%
5. Teacher: Assistant professor / SR
6. Duration of lecture: One hour
   Lecture 45 minutes

ORTHOPAEDICS
LEARNING OUTCOME

Topic: Osteomyelitis

1. Mode of teaching: Lecture
2. Class: Forth year MBBS

Learning Outcome

• What is Osteomyelitis
• Classification of Osteomyelitis
• Predisposing Factors
• Pathogenesis
• Signs & Symptoms
• Treatment
• Complications

3. Number of slides: 40
4. Interactive portion: 25%
5. Teacher: Assistant professor / SR
6. Duration of lecture: One hour
   Lecture 45 minutes
ORTHOPAEDICS
LEARNING OUTCOME

1. Topic: SUPRACONDYLER FRACTURE OF HUMERUS
2. Mode of teaching: Lecture
3. Class: Forth year MBBS

Learning Outcome

Students should be able

- Definition of Supracondyler Fractures
- Causes
- Classification of Supracondyler Fractures
- How to Diagnosis
- Treatment Options
- Complications

4. Number of slides: 40
5. Interactive portion: 25%
6. Teacher: Assistant professor / SR
7. Duration of lecture: One hour
   Lecture 45 minutes
ORTHOPAEDICS
LEARNING OUTCOME

1. Topic: **Ankle Fractures**
2. Mode of teaching: Lecture
3. Class: Forth year MBBS
4. Learning outcome: Student should be able to:
   - Define dislocation
   - Types of fracture associated with ankle dislocation
   - Able to differentiate fracture pattern on x rays,
   - Should know treatment
   - Identify complications
5. Number of slides: 35
6. Interactive portion: 25%
7. Teacher: Assistant professor / SR
8. Duration of lecture: One hour
   Lecture 45 minutes
ORTHOPAEDICS
LEARNING OUTCOME

1. Topic: Colle’s Fracture
2. Mode of teaching: Lecture
3. Class: Forth year MBBS
4. Learning outcome: Student should be able to:
   - Define colle’s fracture
   - Classification of fracture
   - Able to differentiate fracture pattern on x rays,
   - Should know treatment
   - Identify complications

5. Number of slides: 20
6. Interactive portion: 25%
7. Teacher: Assistant professor / SR
8. Duration of lecture: One hour
   Lecture 45 minutes
1. Topic: General Fracture Introduction
2. Mode of teaching: Lecture
3. Class: Forth year MBBS
4. Learning outcome: Student should be able to:
   - Define fracture
   - Types of fracture
   - Able to differentiate fracture pattern on x rays,
   - Identify complications
5. Number of slides: 31
6. Interactive portion: 25%
7. Teacher: Assistant professor / SR
8. Duration of lecture: One hour
   Lecture  45 minutes
1. Topic: Fracture Around Elbow
2. Mode of teaching: Lecture
3. Class: Forth year MBBS

Learning outcome

Students should be able

- To assess clinically elbow fracture
- Types of fracture
- Able to differentiate fracture pattern on x-rays
- Know general treatment plan
- Identify complications

4. Number of slides: 31
5. Interactive portion: 25%
6. Teacher: Assistant professor / SR
7. Duration of lecture: One hour
   Lecture 45 minutes
ORTHOPAEDICS
LEARNING OUTCOME

1. Topic: Fracture Around Knee
2. Mode of teaching: Lecture
3. Class: Forth year MBBS

Learning Outcome: students should be able

- Define supracondylar femur fracture and schatzker fracture
- Classification of fracture
- Able to differentiate fracture pattern on x rays,
- Should know treatment
- Identify complications

4. Number of slides: 31
5. Interactive portion: 25%
6. Teacher: Assistant professor / SR
7. Duration of lecture: One hour
   Lecture: 45 minutes
ORTHOPAEDICS
LEARNING OUTCOME

1. Topic: **Hip Dislocation**
2. Mode of teaching: Lecture
3. Class: Forth year MBBS

Learning Outcome: students should be able

- Define dislocation
- Interpret x-rays of hip dislocation
- Should know the complications of hip dislocation
- Should know mechanism responsible for hip dislocation
- Should know treatment

4. Number of slides: 31
5. Interactive portion: 25%
6. Teacher: Assistant professor / SR
7. Duration of lecture: One hour
   Lecture 45 minutes
ORTHOPAEDICS
LEARNING OUTCOME

1. Topic: **Hip joint Fractures**
2. Mode of teaching: Lecture
3. Class: Forth year MBBS

Learning Outcome

- Define hip fracture
- Types of fracture
- Able to differentiate fracture pattern on x rays
- Know classification
- Should know treatment options
  Identify complications

4. Number of slides: 40
5. Interactive portion: 25%
6. Teacher: Assistant professor / SR
7. Duration of lecture: One hour
   Lecture 45 minutes
ORTHOPAEDICS
LEARNING OUTCOME

1. Topic: **Shoulder Dislocation**
2. Mode of teaching: Lecture
3. Class: Forth year MBBS

Learning Outcome

- Define dislocation
- Interpret x rays of shoulder dislocation
- Should know the complications of shoulder dislocation
- Should know mechanism responsible for shoulder dislocation
- Should know treatment

4. Number of slides: 40
5. Interactive portion: 25%
6. Teacher: Assistant professor / SR
7. Duration of lecture: One hour
   Lecture  45 minutes
1. Topic: **Wrist Fractures**
2. Mode of teaching: Lecture
3. Class: Forth year MBBS

Learning Outcome students should be able

- Know the anatomy of wrist joint
- To interpret x rays of wrist joint
- To pick fractures of carpal bones
- Know the treatment
- Know the complications of carpal bone fractures

4. Number of slides: 40
5. Interactive portion: 25%
6. Teacher: Assistant professor / SR
7. Duration of lecture: One hour
   Lecture 45 minutes
ORTHOPAEDICS
LEARNING OUTCOME

1. Topic: **Congenital Muscular Torticollis**
2. Mode of teaching: Lecture
3. Class: Forth year MBBS

Learning Outcome

Students should be able

- What is Congenital Muscular Torticollis
- Etiology of CMT
- Symptoms of CMT
- D/D of CMT
- What is the treatment options for CMT

4. Number of slides: 35
5. Interactive portion: 25%
6. Teacher: Assistant professor / SR
7. Duration of lecture: One hour
   Lecture 45 minutes
ORTHOPAEDICS
LEARNING OUTCOME

1. Topic: Osteogenesis Imperfecta
2. Mode of teaching: Lecture
3. Class: Fourth year MBBS

Learning Outcome

Students should be able

• What is Osteogenesis Imperfecta?
• How to diagnose it?
• Classification
• Management & Treatment

4. Number of slides: 40
5. Interactive portion: 25%
6. Teacher: Assistant professor / SR
7. Duration of lecture: One hour
   Lecture 45 minutes
ORTHOPAEDICS
LEARNING OUTCOME

1. Topic: Osteomyelitis
2. Mode of teaching: Lecture
3. Class: Forth year MBBS

Learning Outcome students should be able

- What is Osteomyelitis
- Classification of Osteomyelitis
- Predisposing Factors
- Pathogenesis
- Signs & Symptoms
- Treatment
- Complications

4. Number of slides: 40
5. Interactive portion: 25%
6. Teacher: Assistant professor / SR
7. Duration of lecture: One hour
   Lecture 45 minutes
ORTHOPAEDICS
LEARNING OUTCOME

1. Topic: SUPRACONDYLER FRACTURE OF HUMERUS
2. Mode of teaching: Lecture
3. Class: Forth year MBBS

Learning Outcome

Students should be able

- Definition of Supracondyler Fractures
- Causes
- Classification of Supracondyler Fractures
- How to Diagnosis
- Treatment Options
- Complications

4. Number of slides: 40
5. Interactive portion: 25%
6. Teacher: Assistant professor / SR
7. Duration of lecture: One hour
   Lecture 45 minutes
ORTHOPAEDICS
LEARNING OUTCOME

1. Topic: **Ankle Fractures**
2. Mode of teaching: Lecture
3. Class: Forth year MBBS
4. Learning outcome: Student should be able to:
   - Define dislocation
   - Types of fracture associated with ankle dislocation
   - Able to differentiate fracture pattern on x rays,
   - Should know treatment
   - Identify complications
5. Number of slides: 35
6. Interactive portion: 25%
7. Teacher: Assistant professor / SR
8. Duration of lecture: One hour
   Lecture 45 minutes

ORTHOPAEDICS
LEARNING OUTCOME

Topic: **Colle’s Fracture**

1. Mode of teaching: Lecture
2. Class: Forth year MBBS
3. Learning outcome: Student should be able to:
   - Define colle’s fracture
   - Classification of fracture
   - Able to differentiate fracture pattern on x rays,
   - Should know treatment
   - Identify complications
4. Number of slides: 20
5. Interactive portion: 25%
6. Teacher: Assistant professor / SR
7. Duration of lecture: One hour
   Lecture 45 minutes
ORTHOPAEDICS
LEARNING OUTCOME

Topic: General Fracture Introduction

1. Mode of teaching: Lecture
2. Class: Forth year MBBS
3. Learning outcome: Student should be able to:
   - Define fracture
   - Types of fracture
   - Able to differentiate fracture pattern on x rays,
   - Identify complications

4. Number of slides: 31
5. Interactive portion: 25%
6. Teacher: Assistant professor / SR
7. Duration of lecture: One hour
   Lecture 45 minutes

ORTHOPAEDICS
LEARNING OUTCOME

1. Topic: Fracture Around Elbow
2. Mode of teaching: Lecture
3. Class: Forth year MBBS

Learning outcome Students should be able
   - To assess clinically elbow fracture
   - Types of fracture
   - Able to differentiate fracture pattern on x rays,
   - Know general treatment plan
   - Identify complications

4. Number of slides: 31
5. Interactive portion: 25%
6. Teacher: Assistant professor / SR
7. Duration of lecture: One hour
   Lecture 45 minutes
ORTHOPAEDICS
LEARNING OUTCOME

1. Topic: Fracture Around Knee
2. Mode of teaching: Lecture
3. Class: Forth year MBBS

Learning Outcome students should be able

- Define supracondylar femur fracture and schatzker fracture
- Classification of fracture
- Able to differentiate fracture pattern on x rays,
- Should know treatment
- Identify complications

4. Number of slides: 31
5. Interactive portion: 25%
6. Teacher: Assistant professor / SR
7. Duration of lecture: One hour
   Lecture 45 minutes

ORTHOPAEDICS
LEARNING OUTCOME

1. Topic: Hip Dislocation
2. Mode of teaching: Lecture
3. Class: Forth year MBBS

Learning Outcome students should be able

- Define dislocation
- Interpret x rays of hip dislocation
- Should know the complications of hip dislocation
- Should know mechanism responsible for hip dislocation
- Should know treatment

4. Number of slides: 31
5. Interactive portion: 25%
6. Teacher: Assistant professor / SR
7. Duration of lecture: One hour
   Lecture 45 minutes
ORTHOPAEDICS
LEARNING OUTCOME

1. Topic: Hip joint Fractures
2. Mode of teaching: Lecture
3. Class: Forth year MBBS

Learning Outcome students should be able

- Define hip fracture
- Types of fracture
- Able to differentiate fracture pattern on x rays
- Know classification
- Should know treatment options
- Identify complications

4. Number of slides: 40
5. Interactive portion: 25%
6. Teacher: Assistant professor / SR
7. Duration of lecture: One hour
   Lecture 45 minutes

ORTHOPAEDICS
LEARNING OUTCOME

Topic: Shoulder Dislocation
1. Mode of teaching: Lecture
2. Class: Forth year MBBS

Learning Outcome students should be able

- Define dislocation
- Interpret x rays of shoulder dislocation
- Should know the complications of shoulder dislocation
- Should know mechanism responsible for shoulder dislocation
- Should know treatment

3. Number of slides: 40
4. Interactive portion: 25%
5. Teacher: Assistant professor / SR
6. Duration of lecture: One hour
   Lecture 45 minutes
ORTHOPAEDICS
LEARNING OUTCOME

Topic: Wrist Fractures

1. Mode of teaching: Lecture
2. Class: Forth year MBBS

Learning Outcome

- Know the anatomy of wrist joint
- To interpret x rays of wrist joint
- To pick fractures of carpal bones
- Know the treatment
- Know the complications of carpal bone fractures

3. Number of slides: 40
4. Interactive portion: 25%
5. Teacher: Assistant professor / SR
6. Duration of lecture: One hour
   Lecture 45 minutes

ORTHOPAEDICS
LEARNING OUTCOME

1. Topic: Congenital Muscular Torticollis
2. Mode of teaching: Lecture
3. Class: Forth year MBBS

Learning Outcome

- What is Congenital Muscular Torticollis
- Etiology of CMT
- Symptoms of CMT
- D/D of CMT
- What is the treatment options for CMT

4. Number of slides: 35
5. Interactive portion: 25%
6. Teacher: Assistant professor / SR
7. Duration of lecture: One hour
   Lecture 45 minutes
ORTHOPAEDICS
LEARNING OUTCOME

Topic: Osteogenesis Imperfecta

1. Mode of teaching: Lecture
2. Class: Forth year MBBS

Learning Outcome

Students should be able

• What is Osteogenesis Imperfecta?
• How to diagnose it?
• Classification
• Management & Treatment

3. Number of slides: 40
4. Interactive portion: 25%
5. Teacher: Assistant professor / SR
6. Duration of lecture: One hour
   Lecture 45 minutes

ORTHOPAEDICS
LEARNING OUTCOME

Topic: Osteomyelitis

1. Mode of teaching: Lecture
2. Class: Forth year MBBS

Learning Outcome

students should be able

• What is Osteomyelitis
• Classification of Osteomyelitis
• Predisposing Factors
• Pathogenesis
• Signs & Symptoms
• Treatment
• Complications

3. Number of slides: 40
4. Interactive portion: 25%
5. Teacher: Assistant professor / SR
6. Duration of lecture: One hour
   Lecture 45 minutes
ORTHOPAEDICS

LEARNING OUTCOME

1. Topic: SUPRACONDYLAR FRACTURE OF HUMERUS
2. Mode of teaching: Lecture
3. Class: Fourth year MBBS

Learning Outcome

Students should be able

- Definition of Supracondylar Fractures
- Causes
- Classification of Supracondylar Fractures
- How to Diagnosis
- Treatment Options
- Complications

4. Number of slides: 40
5. Interactive portion: 25%
6. Teacher: Assistant professor / SR
7. Duration of lecture: One hour
   Lecture 45 minutes
LEARNING OBJECTIVES 4\textsuperscript{TH} YEAR MBBS

Dr. Anis Ahmed. Assistant Professor Surgery RMC. SU-I BBH

**Topic:** MANAGEMENT OF CHEST TRAUMA  
**Learning Outcomes:**  
At the end of the lecture the students will be able to:  
- Understand the anatomy of the chest wall  
- Define the type of chest trauma  
Describe the emergency management of chest trauma.

**Topic:** POST OPERATIVE CARE  
**Learning Outcomes:**  
At the end of the lecture the students will be able to:  
- Define preoperative period  
- Enlist mild moderate and major operations  
Define steps in the management of post operative care.

**Topic:** PREOPERATIVE CARE  
**Learning Outcomes:**  
At the end of the lecture the students will be able to:  
- Define preoperative period  
- Enlist the steps of preparation of the patient for the operation.  
Describe the risks and benefits of the operation to the patient.

**Topic:** SURGICAL DISORDERS OF INFANTS  
**Learning Outcomes:**  
At the end of the lecture the students will be able to:  
- Define various surgical disorders in infants.  
Briefly outline the steps in the management of these disorders.
Topic: MANAGEMENT OF TRAUMA

Learning Outcomes:
At the end of the lecture the students will be able to:

- Define what is trauma.
- Steps in the management of trauma
- ATLS protocols in the management of trauma.

Outline trimodal pattern of death in trauma.

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Topic: ARTERIAL DISORDERS

Learning Outcomes:
At the end of the lecture the students will be able to:

- Classify arterial disorders
- Define signs and symptoms associated with arterial disorders

Briefly outline the plan of management of arterial disorders.
1- **TOPIC:** BASIC TRAUMA LIFE SUPPORT
   - Lecture: 30 to 45 minutes
   - Interactive session: 15 minutes
   - No. of slides: 20 -35
   - Teacher: Dr. Naveed Akhtar Malik (Assistant Professor Surgery)
   - Duration of lecture: 60 minutes.

   **At the end of the session the 4th year students should be able to:-**
   1. Assess the trauma victim
   2. Understand the primary, secondary survey and the initial resuscitation
   3. Perform rescue breathing chest compression
   4. Trauma victim in safe position

2- **TOPIC:** CARE IN OPERATION THEATRE
   - Lecture: 30 to 45 minutes
   - Interactive session: 15 minutes
   - No. of slides: 20 -35
   - Teacher: Dr. Naveed Akhtar Malik (Assistant Professor Surgery)
   - Duration of lecture: 60 minutes.

   **At the end of the session the 4th year students should be able to:-**
   1. Understand and prevent complications in operation theatre.
   2. Learn the safe positioning of patients whilst they are unconscious.
   3. Respect and understand the principles of diathermy, suction and X-ray usage in theatre
   4. Understand the theatre environment and how to behave in it.
1. **TOPIC:** THROMBOEMBOLISM

   - Lecture: 30 to 45 minutes
   - Interactive session: 15 minutes
   - No. of slides: 20 -35
   - Teacher: Dr. Naveed Akhtar Malik (Assistant Professor Surgery)
   - Duration of lecture: 60 minutes.

   **At the end of the session the 4th year students should be able to:-**
   
   i. Define hypercoaguable state and VTE
   ii. Identify clinical features of VTE
   iii. Describe the causes, risk factors and prophylaxis of VTE
   iv. Describe Evidence-based recommendations for treatment of VTE
   v. Relate recent advances in oral anticoagulation to VTE and prevention of new cases of VTE
   vi. Decide anticoagulation in pre-op, per-op and post-op patients.

2. **TOPIC:** DISASTER MANAGEMENT

   - Lecture: 30 to 45 minutes
   - Interactive session: 15 minutes
   - No. of slides: 20 -35
   - Teacher: Dr. Naveed Akhtar Malik (Assistant Professor Surgery)
   - Duration of lecture: 60 minutes.

   **At the end of the session the 4th year students should be able to:-**
   
   i. Define triage
   ii. Identify etiology and mechanism of trauma in disaster victims.
   iii. Classify injuries in disaster victims with order of incidence & criticality.
   iv. Diagnose these injuries clinically and interpret investigations.
   v. Manage trauma effectively as an individual and in a team.
   vi. Identify the life saving measures in disaster victims.
3. TOPIC: MANAGEMENT OF WOUND

Lecture: 30 to 45 minutes
Interactive session: 15 minutes
No. of slides: 20 - 35
Teacher: Dr. Naveed Akhtar Malik (Assistant Professor Surgery)
Duration of lecture: 60 minutes.

At the end of the session the 4th year students should be able to:

i. Define wound
ii. Classify types of wounds
iii. Differentiate clinically between different grades of wound and grades of wound healing
iv. Identify etiology of wounds & causes and risk factors for wound infection
v. Describe various types of bandages and dressings in management of wound types
vi. Plan investigations, interpret and take appropriate actions.
vi. Discuss rehabilitation in case of debilitating wounds.
DEPARTMENT OF NEUROSURGERY

PROFESSOR        DR. Muhammad Arif Malik
Associate Professor Dr. Nadeem Akhtar
NEUROSURGERY

LEARNING OUTCOME

1. Topic: Head Injury Pathophysiology
2. Mode of Teaching: Lecture
3. Class: Fourth Year MBBS
4. Learning Outcome:
   - Define concussion, contusion, counter and diffuse axonal injury.
   - How will you categorized head injury into minimal, mild, moderate, severe and critical.
   - Explain primary injury, secondary injury in a patient with head trauma
   - What is post traumatic brain swelling, explain the process involved
   - What is the Monroe-Kellie theory?

5. Number of Slides: 10-15
6. Interactive portion: 25%
7. Assessment: 03 MCQs and 2 Scenarios
8. Teacher: Professor/Associate Professor
9. Duration of lecture:
   - Lecture: 35 min
   - Interactive: 10 min

10. Student feedback form
NEUROSURGERY

LEARNING OUTCOME

1. Topic   Head Injury Management
2. Mode of Teaching Lecture
3. Class   Fourth Year MBBS
4. Learning Outcome Student should be able to:
   - Define concussion, contusion, counter and diffuse axonal injury.
   - How will you categorized head injury into minimal, mild, moderate, severe and critical.
   - Explain primary injury, secondary injury in a patient with head trauma
   - What is post traumatic brain swelling, explain the process involved
   - What is the Monroe-Kellie theory
5. Number of Slides 10-15
6. Interactive portion 25%
7. Assessment 03 MCQs and 2 Scenarios
8. Teacher Professor/Associate Professor
9. Duration of lecture 45min
   Lecture 35 min
   Interactive 10 min

10. Student feedback form
# NEUROSURGERY

## LEARNING OUTCOME

1. **Topic**: Degenerative Disc Disease
2. **Mode of Teaching**: Lecture
3. **Class**: Fourth Year MBBS
4. **Learning Outcome**: Student should be able to:
   - Define degenerative disc disease
   - What are 02 most common types
   - What is the pathophysiology
   - How is lumber spinal stenosis diagnosed clinically and radiologically
   - How does cervical spinal stenosis present
   - What are the DDS
   - How will you manage spinal stenosis and spondylolisthesis
5. **Number of Slides**: 10-15
6. **Interactive portion**: 25%
7. **Assessment**: 03 MCQs and 2 Scenarios
8. **Teacher**: Professor/Associate Professor
9. **Duration of lecture**: 45min
   - Lecture 35 min
   - Interactive 10 min
10. **Student feedback form**
**NEUROSURGERY**

**LEARNING OUTCOME**

1. **Topic**  
   Neural Tube Defects

2. **Mode of Teaching**  
   Lecture

3. **Class**  
   Fourth Year MBBS

4. **Learning Outcome**  
   Student should be able to:
   - How are NTDs classified
   - What are the risk factors leading to NTDs
   - What investigations help in the detection of NTDs
   - Define spinal bifida occulta
   - Explain spinal bifida aperta and meningomylocele

5. **Number of Slides**  
   10-15

6. **Interactive portion**  
   25%

7. **Assessment**  
   03 MCQs and 2 Scenarios

8. **Teacher**  
   Professor/Associate Professor

9. **Duration of lecture**  
   45min  
   Lecture 35 min  
   Interactive 10 min

10. **Student feedback form**
NEUROSURGERY

LEARNING OUTCOME

1. Topic  Spinal Injuries
2. Mode of Teaching  Lecture
3. Class  Fourth Year MBBS
4. Learning Outcome  Student should be able to:
   - Define spinal stability and spinal instability
   - Level of injury
   - What is complete/incomplete injury
   - What is spinal shock
   - Name the different spinal cord injuries
   - What is the pathogenesis injuries
   - Clinically how can you differentiate them
   - How will you investigate these patients
5. Number of Slides  10-15
6. Interactive portion  25%
7. Assessment  03 MCQs and 2 Scenarios
8. Teacher  Professor/Associate Professor
9. Duration of lecture  45min
   Lecture  35 min
   Interactive  10 min
10. Student feedback form
NEUROSURGERY

LEARNING OUTCOME

1. Topic
   Hydrocephalus

2. Mode of Teaching
   Lecture

3. Class
   Fourth Year MBBS

4. Learning Outcome
   Student should be able to:
   - Define hydrocephalus
   - What are 02 fundamental sub divisions of hydrocephalus
   - What are special forms of hydrocephalus
   - What are the causes of hydrocephalus
   - What is the CT/MRI criteria to diagnose hydrocephalus
   - What are the symptoms of Hydrocephalus

   Percentage of mortalities of Hydrocephalus

5. Number of Slides
   10-15

6. Interactive portion
   25%

7. Assessment
   03 MCQs and 2 Scenarios

8. Teacher
   Professor/Associate Professor

9. Duration of lecture
   45min
   Lecture 35 min
   Interactive 10 min

10. Student feedback form
NEUROSURGERY

LEARNING OUTCOME

1. **Topic**  
   Spinal Infections

2. **Mode of Teaching**  
   Lecture

3. **Class**  
   Fourth Year MBBS

4. **Learning Outcome**  
   Student should be able to:
   - Categorized Spinal infections
   - What are causes of Spinal infections
   - How will patients present with spinal infections
   - How will you investigate these patients
   - What is the pathophysiology of spinal cord dysfunction in these patients
   - What will be your DIDs

5. **Number of Slides**  
   10-15

6. **Interactive portion**  
   25%

7. **Assessment**  
   03 MCQs and 2 Scenarios

8. **Teacher**  
   Professor/Associate Professor

9. **Duration of lecture**  
   45min  
   Lecture 35 min  
   Interactive 10 min

10. **Student feedback form**
# Learning Outcome

1. **Topic**: Brain Tumor 1  
2. **Mode of Teaching**: Lecture  
3. **Class**: Fourth Year MBBS  
4. **Learning Outcome**:  
   - Classify Brain tumors  
   - How patients present clinically  
   - How will you investigate these patients  
   - Possible medical management and admission  
   - What are the surgical options  
   - What are the adjuvant therapies available  

5. **Number of Slides**: 10-15  
6. **Interactive portion**: 25%  
7. **Assessment**: 03 MCQs and 2 Scenarios  
8. **Teacher**: Professor/Associate Professor  
9. **Duration of lecture**: 45min  
   - Lecture 35 min  
   - Interactive 10 min  

10. **Student feedback form**
<p>| | |</p>
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<tr>
<td><strong>LEARNING OUTCOME</strong></td>
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<tr>
<td><strong>1. Topic</strong></td>
<td>Brain Tumor 2</td>
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<td><strong>2. Mode of Teaching</strong></td>
<td>Lecture</td>
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<td><strong>3. Class</strong></td>
<td>Fourth Year MBBS</td>
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<tr>
<td><strong>4. Learning Outcome</strong></td>
<td>Student should be able to:</td>
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<tr>
<td></td>
<td>• Classify Brain tumors</td>
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<td></td>
<td>• How patients present clinically</td>
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<td>• How will you investigate these patients</td>
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<td>• What are the surgical options</td>
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<td>• What are the adjuent therapies available.</td>
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<td><strong>5. Number of Slides</strong></td>
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<td><strong>6. Interactive portion</strong></td>
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<td><strong>7. Assessment</strong></td>
<td>03 MCQs and 2 Scenarios</td>
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<td>Lecture 35 min</td>
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<td>Interactive 10 min</td>
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<td><strong>10. Student feedback form</strong></td>
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</table>
NEUROSURGERY

LEARNING OUTCOME

1. Topic Management of Hemorrhagic Stroke
2. Mode of Teaching Lecture
3. Class Fourth Year MBBS
4. Learning Outcome
   Student should be able to:
   - What are the causes of Hemorrhagic Stroke
   - Classify hemorrhagic stroke
   - How will you manage
   - What are the surgical options in management
5. Number of Slides 10-15
6. Interactive portion 25%
7. Assessment 03 MCQs and 2 Scenarios
8. Teacher Professor/Associate Professor
9. Duration of lecture 45min
   Lecture 35 min
   Interactive 10 min

10. Student feedback form
NEUROSURGERY

LEARNING OUTCOME

1. Topic: Trigeminal Neuralgia
2. Mode of Teaching: Lecture
3. Class: Fourth Year MBBS
4. Learning Outcome: Student should be able to:
   - Define Trigeminal Neuralgia
   - Enumirate causes of Trigeminal Neurlgia
   - how you will examine this patient
   - Medical theropy for Trigeminal neuralgia
   - What are the surgical options for trigeminal neuralgia
5. Number of Slides: 10-15
6. Interactive portion: 25%
7. Assessment: 03 MCQs and 2 Scenarios
8. Teacher: Professor/Associate Professor
9. Duration of lecture: 45min
   Lecture 35 min
   Interactive 10 min

10. Student feedback form
NEUROSURGERY

LEARNING OUTCOME

1. Topic Brain Infections
2. Mode of Teaching Lecture
3. Class Fourth Year MBBS
4. Learning Outcome Student should be able to:
   - Enumerate the infections after developing a brain abscess
   - What are the main vectors for of brain infections
   - Enumerate the most common pathogens.
   - How do patients present with Brain infection
   - How will you investigate these patients
   - How will you treat these patients
   - What is the criteria for surgical intervention

5. Number of Slides 10-15
6. Interactive portion 25%
7. Assessment 03 MCQs and 2 Scenarios
8. Teacher Professor/Associate Professor
9. Duration of lecture 45min
   Lecture 35 min
   Interactive 10 min

10. Student feedback form
NEUROSURGERY

LEARNING OUTCOME

1. Topic          Neuro Imaging
2. Mode of Teaching Lecture
3. Class          Fourth Year MBBS
4. Learning Outcome Student should be able to:

CT Scan Brain

- What to order
- Where to order a CAT Scan (indications)
- Which are the main emergent conditions to rule out in head injury in a CT scan brain
- When to re-scan a patient with head injury
- How to differ between EDH, SDH, SAH and contusions.

Spinal Films

- In trauma; which x-rays to order and when
- When to order lumber and thoracic x-Rays

Skull X-Rays

- Why importance to do skull x-rays
- What should be looked for in a skull x-rays

MRI Scan in treatment

- What is role of MRI in head trauma
- What is the role of arteriogram in trauma

5. Number of Slides 10-15
6. Interactive portion 25%
7. Assessment 03 MCQs and 2 Scenarios
8. Teacher Professor/Associate Professor
9. Duration of lecture 45min
   Lecture 35 min
   Interactive 10 min
# NEUROSURGERY

## LEARNING OUTCOME

<table>
<thead>
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<th>No.</th>
<th>Topic</th>
<th>Mode of Teaching</th>
<th>Class</th>
<th>Learning Outcome</th>
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<tr>
<td>1.</td>
<td>CSF Rhinorhea</td>
<td>Lecture</td>
<td>Fourth Year MBBS</td>
<td>Student should be able to:</td>
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<tr>
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<td>• What is the pathway of egress CSF Rhinorhea</td>
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<td>• 02 most common subtype of CSF Rhinorhea</td>
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<td>• What is the natural history of CSF Rhinorhea in traumatic and spontaneous CSF</td>
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<td>Rhinorhea</td>
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<td></td>
<td>• Causes of traumatic CSF Rhinorhea</td>
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<td></td>
<td></td>
<td>• Causes of spontaneous CSF Rhinorhea</td>
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<td>• Which investigations will help in determining if CSF Rhinorhea is due to a CSF</td>
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| 5.  | Number of Slides               | 10-15            |
| 6.  | Interactive portion            | 25%              |
| 7.  | Assessment                     | 03 MCQs and 2 Scenarios |
| 8.  | Teacher                        | Professor/Associate Professor |
| 9.  | Duration of lecture            | 45min            |
|     | Lecture                        | 35 min           |
|     | Interactive                    | 10 min           |

10. Student feedback form
LEARNING OUTCOME

OBSTETRICS / GYNAECOLOGY

Benazir Bhutto Hospital
Rawalpindi Medical College
Rawalpindi
Lecture 1: Development of fetus

Teacher: Prof/Assistant Prof

At the end of lecture the student should be able to:

- Name the three stages of the prenatal period, identify the time period within which each occurs, and describe the main characteristics that define each stage.

- Describe the development of the zygote during the early germinal period, and define the following:
  - mitosis, cleavage, blastocyst, endometrium/deciduas

- Discuss the growth and development of the embryo from the end of the second week until the end of the eighth week during the embryonic period.

- Briefly describe the growth and development of the fetus at the

  8, 10, 12, 16, 20, 24, 28, 30, 32, 34, 36 weeks and then weekly till term.

No of slides: 30-35

Lecture: 35 min

Interactive: 10 min

MCQ s: 5

Student Feedback form
Lecture 2: Anatomy of fetal skull, Bony pelvis, Types of pelvis, Anatomical changes in pregnancy

Teacher: Prof/Assistant Prof

At the end of lecture the student should be able to:

- Describe the anatomical features of fetal skull, the bones of fetal skull and their sutures.
- Describe the bony features and types of female pelvis
- Identify various diameters of fetal skull and bony pelvis in relation to their role in normal and abnormal parturition
- Explain the various anatomical changes in female pelvic bones, joints and ligaments in preparation for a vaginal delivery

No of slides: 30-35

Lecture: 35 min

Interactive: 10 min

MCQs: 5

Student Feedback form
Lecture 3: Obstetric history taking and examination

Teacher: Assistant Prof / Prof

At the end of lecture the student be able to:

1. Develop the basic clinical skills of history taking, clinical examination and be able to present an obstetric case.
2. Conduct an obstetrical abdominal examination
3. Demonstrate the fundal height, presentation, lie, attitude of fetus and auscultation of fetal heart

No of slides: 30 - 35

Lecture: 35 min

Interactive: 10 min

MCQs: 5

Student Feedback form
Lecture 4: Prenatal diagnosis

Teacher: Assistant prof/Prof

At the end of lecture the student should be able to;

1. Identify Couples/individuals of “high risk” where voluntary, informed testing prior to pregnancy may be offered
2. Describe various Prenatal Diagnosis Techniques
3. Explain the role of Teratogens eg drugs, environmental factors, infections and their timings of exposure according to gestational age.
4. Counsel the parents on common fetal abnormalities

No of slides: 35-40

Lecture: 35 min

Interactive 10 min

MCQ 2

SEQ 3

Student Feed back
Lecture 5: MINOR DISORDERS OF PREGNANCY
(NAUSEA VOMITING, VARICOSE VEINS, BACKACHE)

Teacher: Assistant prof/Prof

A: NAUSEA AND VOMITING

At the end of lecture the student should be able to

1. Define nausea and vomiting in pregnancy
2. Distinguish from other disorders causing nausea and vomiting in pregnancy
3. Enlist Safe remedies/drugs to treat nausea and vomiting in pregnancy

B: VARICOSE VEINS

Describe the causes and associated complications

C: BACKACHE

Explain causes of backache during pregnancy

No of Slides: 30
Lecture: 35 min
Interactive: 10 min
MCQs: 5
Student Feedback form
Lecture6: DIAGNOSIS OF LABOUR AND BASIC CONCEPTS OF LABOUR

Teacher: Assistant prof/Prof

At the end of the lecture the student should be able to:

1. Differentiate between true labour, false labour and Prelabour
2. Apply knowledge to utilize partogram in the management of labour.
3. Explain the management of a woman in first and second stage of labour
4. Explain the steps of normal vaginal delivery

No of slides: 40-45

Lecture: 35 min
Interactive: 10 min

3 groups of students:

- Contents of delivery pack
  - Describe how would the student employ aseptic techniques used for normal vaginal delivery.
- Case Scenario of false labour, latent phase, true labour

Student feedback form
Lecture 7: Fetal monitoring in labour and fetal distress

Teacher: Assistant Prof/Prof

At the end of the lecture the student should be able to:

1. Describe physiology of fetal oxygenation in labour
2. Describe various methods of fetal monitoring in labour
3. List the indications of electronic fetal monitoring
4. Identify and interpret the normal, atypical and abnormal results of fetal monitoring

No of slides 40

Lecture: 35 min
Interactive: 10 min

MCQ: 5

Student feedback form
Lecture 8: THIRD STAGE OF LABOUR AND ITS COMPLICATIONS

Teacher: Assistant prof/Prof

At the end of the lecture the student should be able to:

1. Define third stage of labour
2. Describe the steps of active management of third stage of labour (AMTSL).
3. Define Post partum haemorrhage and its causes
4. Outline the management of primary PPH

NO of slides 40

Lecture: 35 min
Interactive: 10 min

MCQs: 4
SEQ: 2

Student feedback form
Lecture 9: ABNORMAL LABOUR (Primary dysfunctional, secondary arrest, prolonged latent phase)

Teacher: Assistant prof/Prof

At the end of the lecture the student should be able to:

1. Anticipate and diagnose abnormal labour
2. Explain types of abnormal labour on the basis of partographic findings
3. Outline the management of prolonged latent phase, primary dysfunctional labour and secondary arrest of cervical dilatation

No of slides: 45

Lecture: 35 min
Interactive: 10 min

MCQs 4
SEQs 2

Student feedback form
Lecture 10: TRIAL OF LABOUR, OBSTRUCTED LABOUR AND ITS MANAGEMENT

Teacher: Assistant prof/Prof

At the end of the lecture the student should be able to

1. Define trial of labour, and obstructed labour
2. Describe the management of a woman having trial of labour
3. Describe the clinical signs and symptoms of obstructed labour and rupture of uterus
4. Outline the management of obstructed labour

No of slides 45-50

Lecture :35 min
Interactive :10 min

MCQs 5

Student feedback form
Lecture 11: MAL PRESENTATION (OTHER THAN BREECH)

Teacher: Assistant prof/Prof

At the end of the lecture the student should be able to:

1. Define malpresentation and differentiate it from malposition
2. Explain the features of face, brow, transverse, cord presentation and cord prolapsed
3. Outline the management strategies for various malpresentations
4. Describe the emergency management of cord prolapse

No of slides: 40

Lecture: 35 min
Interactive: 10 min

MCQ: 5

Student feedback form
Lecture 12: INDUCTION OF LABOUR

Teacher: Assistant prof/Prof

At the end of the lecture the student should be able to:

1. List common indications and contraindications for induction of labor
2. Describe methods available for labor Induction
3. Identify outcomes associated with induction of labour
4. Explain the maternal and fetal complications with induction of labour

No of slides 35

Lecture: 35 min
Interactive: 10 min

MCQ 5

Student feedback form
Lecture 13: EPISIOTOMY, PERINEAL TEARS, INSTRUMENTAL DELIVERY

Teacher: Assistant prof/Prof

At the end of the lecture the student should be able to:

1. List its indications, types, advantages and disadvantages of various types of episiotomy
2. Explain the types of perineal tears and their complications
3. Devise a plan to follow up a patient having episiotomy or perineal tear
4. Identify and explain different types of Forceps and Vacuum cups
5. Describe the indications and contraindications of forceps and vacuum delivery

No of slides: 40-45

Lecture: 35 min

Interactive: 10 min

SEQ: 4

MCQ: 2

Student feedback form
LEARNING OUTCOME

OBSTETRICS /GYNAECOLOGY

PROF. FEHMIDA SHAHEEN

Obs/Gynae Department

Rawalpindi Medical College

Rawalpindi
OBSTETRICS / GYNAECOLOGY
LEARNING OUTCOME

1. Topic: Malpresentation (Breech)
2. Mode of Teaching Lecture
3. Class Fourth Year MBBS
4. Learning outcome Student should be able to:
   - Understand the clinical importance of breech presentation
   - Enlist the etiology and know the incidence and types of breech presentation
   - Diagnosis by clinical methods and with imaging techniques
5. Number of Slides 14
6. Interactive Portion 25%
7. Assessment 2 MCQs and 1 Scenario
8. Teacher Assistant Professor / Associate Professor/Professor
9. Duration of Lecture 45 minutes
   Lecture 35 Minutes
   Interactive 10 Minutes
10. Student Feedback Form
1. Topic: Mechanism of labour in breech and malposition
2. Mode of Teaching Lecture
3. Class Fourth Year MBBS
4. Learning outcome Student should be able to:
   - Define labour, its diagnosis and physiology
   - Understand mechanical variable as three “Ps” stages of labour and cardinal movement of labour
   - Plot partograms
   - Understand the mechanism of delivery in breech and other malpresentation
5. Number of Slides 20
6. Interactive Portion 25%
7. Assessment 1 MCQ & 1 Scenario
8. Teacher AP / Assoc. Prof. / Professor
9. Duration of Lecture 45 minutes
   - Lecture 30 Minutes
   - Interactive 15 Minutes
10. Student Feedback Form
1. Topic: **Normal Puerperium**

2. Mode of Teaching: Lecture

3. Class: Fourth Year MBBS

4. Learning outcome: Student should be able to:
   - Define normal puerperium and understand the physiological changes in different systems in it
   - Plan management of normal puerperium

5. Number of Slides: 20

6. Interactive Portion: 20%

7. Assessment: 1 MCQ and 1 Scenario

8. Teacher: Assistant Professor

9. Duration of Lecture: 45 minutes

   Lecture 35 Minutes
   Interactive 10 Minutes

10. Student Feedback Form
1. **Topic:** Breast feeding
2. **Mode of Teaching:** Lecture
3. **Class:** Fourth Year MBBS
4. **Learning outcome:** Student should be able to:
   - Know briefly about anatomical and physiological changes during pregnancy
   - Enlist all advantages of breast feeding discuss breast feeding policy
   - Plan management for problems associated with breast feeding
5. **Number of Slides:** 15
6. **Interactive Portion:** 25%
7. **Assessment:** 1 MCQs and 1 Scenario
8. **Teacher:** Assistant Professor / Assoc. Professor
9. **Duration of Lecture:** 45 minutes
   - Lecture: 30 Minutes
   - Interactive: 15 Minutes
10. **Student Feedback Form**
1. Topic: **Analgesia and Anesthesia in labour**

2. Mode of Teaching
   - Lecture

3. Class
   - Fourth Year MBBS

4. Learning outcome
   - Student should be able to:
     - Define anesthesia and analgesia
     - Discuss types and techniques of anesthesia and analgesia

5. Number of Slides
   - 20

6. Interactive Portion
   - 25%

7. Assessment
   - 1 MCQ

8. Teacher
   - AP / Assoc. Professor

9. Duration of Lecture
   - 45 minutes
     - Lecture: 30 Minutes
     - Interactive: 15 Minutes

10. Student Feedback Form
1. Topic: **Abdominal delivery**
2. Mode of Teaching: Lecture
3. Class: Fourth Year MBBS
4. Learning outcome: Student should be able to:
   - Define the types and enlist the indications for abdominal delivery
   - Describe the preoperative preparation and timing of abdominal delivery
   - Enlist the complications of abdominal delivery and discuss post operative care
5. Number of Slides: 20
6. Interactive Portion: 20%
7. Assessment: 1 MCQ and 1 Scenario
8. Teacher: AP / Assoc. Professor
9. Duration of Lecture: 45 minutes
   - Lecture: 30 Minutes
   - Interactive: 15 Minutes
10. Student Feedback Form
1. **Topic:** Conception fertilization and embedding of ovum  
2. **Mode of Teaching:** Lecture  
3. **Class:** Fourth Year MBBS  
4. **Learning outcome**  
   - Understand the sequence of coordinated events of fusion male and female pronuclei to form a zygote  
   - The site and timing of implantation of the conceptus  
   - The transformation of the zygote to the morula and the blastocyst  
   - The transport of the conceptus from its site of fertilization to the fourth place of embedding i.e. the uterine cavity  
   - The time intervals required for the process of fertilization to the successful implantation of the conceptus in the endometrium  
5. **Number of Slides:** 10-15  
6. **Interactive Portion:** 25%  
7. **Assessment:** 3 MCQs and 2 Scenarios  
8. **Teacher:** Assistant Professor  
9. **Duration of Lecture:** 45 minutes  
   - Lecture 35 Minutes  
   - Interactive 10 Minutes  
10. **Student Feedback Form**
1. **Topic:** Development of placenta, abnormalities of placenta, fetal circulation

2. **Mode of Teaching**
   - Lecture

3. **Class**
   - Fourth Year MBBS

4. **Learning outcome**
   - Student should be able to:
     - Understand placental villi development
     - Understand placental structure
     - Describe different types of placental abnormalities
     - Trace the flow of blood in the fetal circulation
     - State the location and function of foramen ovale and ductus arteriosus
     - Describe how fetal circulation differs from postnatal circulation

5. **Number of Slides**
   - 18-20

6. **Interactive Portion**
   - 20%

7. **Assessment**
   - 3 MCQs and 2 Scenarios

8. **Teacher**
   - Assistant Professor

9. **Duration of Lecture**
   - 45 minutes
     - Lecture 35 Minutes
     - Interactive 10 Minutes

10. **Student Feedback Form**
1. Topic: Diagnosis of pregnancy
   Physiological changes associated with pregnancy

2. Mode of Teaching
   Lecture

3. Class
   Fourth Year MBBS

4. Learning outcome
   Student should be able to:
   - Describe the various types of pregnancy tests include the timing of tests and interpretation of results
   - Explain the expected maternal anatomic and physiological adaptations to pregnancy for each body system
   - Identify the maternal hormones produced during pregnancy, their target organs and their major effects on pregnancy

5. Number of Slides
   10-15

6. Interactive Portion
   25%

7. Assessment
   3 MCQs and 2 Scenarios

8. Teacher
   Asst. Professor

9. Duration of Lecture
   45 minutes
   Lecture 35 Minutes
   Interactive 10 Minutes

10. Student Feedback Form
1. Topic: Antenatal care and pre pregnancy counseling

2. Mode of Teaching
   Lecture

3. Class
   Fourth Year MBBS

4. Learning outcome
   Student should be able to:
   - Understand the goals of prenatal care
   - Describe the components of preconception care
   - Describe routine investigations undertaken on the first antenatal visits
   - Know the usual schedule of prenatal care visits during pregnancy
   - Understand the goals of preconception care
   - Assure that women of child bearing age receive evidence based risk screening, health promotion and intervention that will enable them to enter a pregnancy in good health

5. Number of Slides
   10-15

6. Interactive Portion
   25%

7. Assessment
   3 MCQs and 2 Scenarios

8. Teacher
   Asst. Professor

9. Duration of Lecture
   45 minutes
   - Lecture 35 Minutes
   - Interactive 10 Minutes

10. Student Feedback Form
1. **Topic:** Basic terms and concepts in obstetrics (Duration of pregnancy, calculation of EDD, Preterm, post term, postdates, viability, estimation of birth weights, low birth weight, very low birth weight, lie, presentations etc)

2. **Mode of Teaching**
   - Lecture

3. **Class**
   - Fourth Year MBBS

4. **Learning outcome**
   - Student should be able to:
     - Clearly define the common obstetrics terminologies

5. **Number of Slides**
   - 10-15

6. **Interactive Portion**
   - 25%

7. **Assessment**
   - 3 MCQs and 2 Scenarios

8. **Teacher**
   - Asst. Professor / Associate Professor

9. **Duration of Lecture**
   - 45 minutes
     - Lecture 35 Minutes
     - Interactive 10 Minutes

10. **Student Feedback Form**
1. **Topic:** Physiology of normal labour, mechanism of onset of labour

2. **Mode of Teaching**
   - Lecture

3. **Class**
   - Fourth Year MBBS

4. **Learning outcome**
   - Student should be able to:
     - Understand and recognize the signs and symptoms and physiological changes leading to onset of labour
     - Understand a normal labour pattern
     - Understand the phases and stages of labour

5. **Number of Slides**
   - 10-15

6. **Interactive Portion**
   - 25%

7. **Assessment**
   - 3 MCQs and 2 Scenarios

8. **Teacher**
   - Asst. Professor

9. **Duration of Lecture**
   - 45 minutes
     - Lecture 35 Minutes
     - Interactive 10 Minutes

10. **Student Feedback Form**
1. Topic: Management of normal labour and delivery partograms
2. Mode of Teaching: Lecture
3. Class: Fourth Year MBBS
4. Learning outcome: Student should be able to:
   - Describe and identity normal and abnormal progress of labour
   - Describe appropriate management of normal and abnormal labour pattern
   - Describe proper use of partographs including monitoring maternal and fetal signs
5. Number of Slides: 10-15
6. Interactive Portion: 25%
7. Assessment: 3 MCQs and 2 Scenarios
8. Teacher: Asst. Professor
9. Duration of Lecture: 45 minutes
   - Lecture: 35 Minutes
   - Interactive: 10 Minutes
10. Student Feedback Form
LEARNING OUTCOME
GYNAE/OBS UNIT-1

PROF.RIZWANA CHAUDHRI

Gynae / Obs Department
Rawalpindi Medical College Rawalpindi
<table>
<thead>
<tr>
<th>S.NO</th>
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<tr>
<td>14</td>
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<td>Antepartum Haemorrhage</td>
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<td>Other Obstetric Emergencies</td>
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<td>Multiple Pregnancy</td>
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<td>20</td>
<td>Fetal Distress</td>
</tr>
<tr>
<td>21</td>
<td>Imaging in Obstetrics</td>
</tr>
<tr>
<td>22</td>
<td>Diabetes in Pregnancy</td>
</tr>
<tr>
<td>23</td>
<td>Liver Disorders in Pregnancy</td>
</tr>
<tr>
<td>24</td>
<td>Pyrexia in Pregnancy</td>
</tr>
<tr>
<td>25</td>
<td>Prescribing Drugs in Pregnancy</td>
</tr>
<tr>
<td>26</td>
<td>Early Pregnancy loss and its management</td>
</tr>
</tbody>
</table>
1. Topic: Complications of Puerperium
2. Mode of Teaching: Lecture
3. Class: 4th year MBBS
4. Learning outcome: Student should be able to:
   - Enlist the causes of delayed involution
   - Define and describe secondary PPH
   - Give causes of thromboembolism in puerperium
   - Define and manage cases of puerperal Pyrexia
   - Give etiology of genital tract infection
   - Describe breast disorders related to puerperium

Number of Slides: 10-15

5. Assessment: 1 MCQs and 1 Scenarios
6. Teacher: Professor/Assistant Professor / Senior Registrar
7. Duration of Lecture: 45 mints
   - Lecture 30 Minutes
   - Interactive 15 Minutes

8. Student Feedback Form
1. **Topic:** Antepartum Haemorrhage (APH)
2. **Mode of Teaching:** Lecture
3. **Class:** 4th Year MBBS
4. **Learning outcome**
   - Define APH
   - Enlist and define the causes of APH
   - Diagnose and manage different types of placenta praevia
   - Diagnose and manage abruptio placentae and its complications
   - Diagnose and manage other causes of APH
5. **Number of Slides:** 10-15
6. **Assessment:** 2 MCQs and 2 Scenarios
7. **Teacher:** Professor/Assistant Professor/ Senior Registrar
8. **Duration of Lecture:** 45 Minutes
   - Lecture 30 Minutes
   - Interactive 15 Minutes
9. **Student Feedback Form**
1. Topic: Other obstetric emergencies.
2. Mode of Teaching: Lecture
3. Class: 4th Year MBBS
4. Learning outcome: Student should be able to:
   - Define emergency
   - Describe the structured approach to obstetric emergency
   - Define, diagnose and give management plan for ruptured uterus
   - Give causes of sudden maternal collapse
   - Should be able to diagnose and manage the causes of cord prolapse and shoulder dystocia
   - Document the events and management.
5. Number of Slides: 10-15
6. Assessment: 1 MCQs and 1 Scenarios
7. Teacher: Professor/Assistant Professor/ Senior Registrar
8. Duration of Lecture: 45 Minutes
   - Lecture 30 Minutes
   - Interactive 15 Minutes
9. Student Feedback Form
1. Topic: Multiple pregnancy
2. Mode of Teaching Lecture
3. Class 4th Year MBBS
4. Learning outcome Student should be able to:
   - Define multiple pregnancy
   - Give its prevalence
   - Classify the types of multiple pregnancy
   - Give complications of multiple pregnancy including monochorionic twin pregnancy
   - Give management of normal and complicated twin pregnancy
   - Outline intrapartum and postpartum management

5. Number of Slides 10-15
6. Assessment 2 MCQs and 1 Scenarios
7. Teacher Professor/Assistant Professor/ Senior Registrar
8. Duration of Lecture 45 Minutes
   i. Lecture 30 Minutes
   ii. Interactive 15 Minutes
9. Student Feedback Form
1. **Topic:** Rhesus incompatibility
2. **Mode of Teaching:** Lecture
3. **Class:** 4th Year MBBS
4. **Learning outcome**
   - Student should be able to:
     - Define rhesus disease
     - Give preventive methods for isoimmunization
     - Give management of pregnancy in a sensitized woman
     - Outline intrapartum management
     - Advise neonatal follow-up
5. **Number of Slides**
   - 10-15
6. **Assessment**
   - 2 MCQs and 1 Scenarios
7. **Teacher**
   - Professor/Assistant Professor/ Senior Registrar
8. **Duration of Lecture**
   - 45 Minutes
     - 30 Minutes
     - Interactive 15 Minutes
9. **Student Feedback Form**
1. **Topic**: Pyrexia in pregnancy
2. **Mode of Teaching**: Lecture
3. **Class**: 4th Year MBBS
4. **Learning outcome**: Student should be able to:
   - Define pyrexia
   - Give different causes of pyrexia in pregnancy
   - Take history, perform examination and advise relevant investigations
   - Give management plan after diagnosis
5. **Number of Slides**: 10-15
6. **Assessment**: 2 MCQs and 1 Scenarios
7. **Teacher**: Professor/Assistant Professor /Senior Registrar
8. **Duration of Lecture**: 45 Minutes
   - i. Lecture 30 Minutes
   - ii. Interactive 15 Minutes
9. **Student Feedback Form**
1. **Topic:** Early pregnancy loss and its management
2. **Mode of Teaching:** Lecture
3. **Class:** 4th Year MBBS
4. **Learning outcome:** Student should be able to
   - Define early pregnancy loss
   - Enlist types of miscarriages
   - Enlist etiological factors
   - Describe the clinical features
   - Give the role of ultrasound in diagnosis
   - Outline management plan
5. **Number of Slides:** 10-15
6. **Assessment:** 2 MCQs and 1 Scenarios
7. **Teacher:** Professor/Assistant Professor/ Senior Registrar
8. **Duration of Lecture:** 45 Minutes
   - i. Lecture 30 Minutes
   - ii. Interactive 15 Minutes
9. **Student Feedback Form**
1. **Topic:** Preterm labour
2. **Mode of Teaching:** Lecture
3. **Class:** 4th 1 Year MBBS
4. **Learning outcome:** Student should be able to:-
   - Define preterm labour and PPROM
   - Give etiological factors for preterm labour and PPROM
   - Investigate the case
   - Outline the management of preterm labour and PPROM
   - Know the complications and their management
5. **Number of Slides:** 10-15
6. **Assessment:** 2 MCQs and 1 Scenarios
7. **Teacher:** Professor/Assistant Professor/ Senior Registrar
8. **Duration of Lecture:** 45 Minutes
   - i. Lecture 30 Minutes
   - ii. Interactive 15 Minutes
9. **Student Feedback Form**
1. Topic: Diabetes in pregnancy
2. Mode of Teaching: Lecture
3. Class: 4th Year MBBS
4. Learning outcome: Student should be able to:
   - Define different types of diabetes in pregnancy.
   - Diagnose GDM
   - Outline management plan for evaluation and control of DM during pregnancy including preconception counselling, management during first, second and third trimesters, role of ultrasonography and medical treatment
   - Outline management during labour and puerperium
   - Screening methods for GDM
   - Maternal and neonatal complications of DM
5. Number of Slides: 10-15
6. Assessment: 2 MCQs and 1 Scenarios
7. Teacher: Professor/Assistant Professor/ Senior Registrar
8. Duration of Lecture: 45 Minutes
   i. Lecture 30 Minutes
   ii. Interactive 15 Minutes
9. Student Feedback Form
1. **Topic:** Prescribing drugs in pregnancy
2. **Mode of Teaching:** Lecture
3. **Class:** 4th Year MBBS
4. **Learning outcome**
   - Define the categories of drugs
   - Give the groups of commonly used drugs and their side effects
   - Enlist safe drugs
   - Enlist the drugs contraindicated in pregnancy
5. **Number of Slides:** 10-15
6. **Assessment:** 1 MCQs and 1 Scenarios
7. **Teacher:** Professor/Assistant Professor/ Senior Registrar
8. **Duration of Lecture:** 45 Minutes
   - i. Lecture 30 Minutes
   - ii. Interactive 15 Minutes
9. **Student Feedback Form**
1. **Topic:** Liver disorders in pregnancy  

2. **Mode of Teaching**  
   Lecture  

3. **Class**  
   4\(^{th}\) Year MBBS  

4. **Learning outcome**  
   Student should be able to:  
   - Enlist different liver disorders during pregnancy  
   - Know the etiology, investigations and management of acute viral hepatitis during pregnancy  
   - Know the pathogenesis and diagnosis of liver disorders associated with pre-eclampsia and its management  
   - Briefly describe the pathology, diagnosis and management of obstetric cholestasis, acute fatty liver of pregnancy, autoimmune hepatitis, gallstones and primary biliary cirrhosis  

5. **Number of Slides**  
   10-15  

6. **Interactive Portion**  
   25%  

7. **Assessment**  
   2 MCQs and 1 Scenarios  

8. **Teacher**  
   Professor/Assistant Professor/ Senior Registrar  

9. **Duration of Lecture**  
   45 Minutes  
   - Lecture 30 Minutes  
   - Interactive 15 Minutes  

10. **Student Feedback Form**
<table>
<thead>
<tr>
<th>01. Topic :</th>
<th><strong>Fetal distress</strong></th>
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</thead>
<tbody>
<tr>
<td>01. Mode of Teaching</td>
<td>Lecture</td>
</tr>
<tr>
<td>02. Class</td>
<td>4\textsuperscript{th} 1 Year MBBS</td>
</tr>
<tr>
<td>03. Learning outcome</td>
<td>Student should be able to:-</td>
</tr>
<tr>
<td></td>
<td>• Define fetal distress</td>
</tr>
<tr>
<td></td>
<td>• Enlist pregnancies high risk for fetal compromise</td>
</tr>
<tr>
<td></td>
<td>• Define meconium staining and its different grades</td>
</tr>
<tr>
<td></td>
<td>• Interpret CTG and recognize common signs of fetal distress</td>
</tr>
<tr>
<td></td>
<td>• Outline management options in case of suspected fetal distress</td>
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<td></td>
<td>• Describe fetal blood sampling used for diagnosis of fetal distress</td>
</tr>
<tr>
<td>04. Number of Slides</td>
<td>10-15</td>
</tr>
<tr>
<td>05. Assessment</td>
<td>1 MCQs and 1 Scenarios</td>
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<tr>
<td>06. Teacher</td>
<td>Professor/Assistant Professor/ Senior Registrar</td>
</tr>
<tr>
<td>07. Duration of Lecture</td>
<td>45 Minutes</td>
</tr>
<tr>
<td></td>
<td>iii. Lecture 30 Minutes</td>
</tr>
<tr>
<td></td>
<td>iv. Interactive 15 Minutes</td>
</tr>
</tbody>
</table>

**10. Student Feedback Form**
01. Topic: Imaging in Obstetric
02. Mode of Teaching Lecture
03. Class 4th 1 Year MBBS

04. Learning outcome Student should be able to:

- Enlist different methods of fetal imaging and know the principles of their functioning
- Give ultrasound imaging types
  Dating, anomaly, normal and abnormal findings
- Doppler USG of fetal vessels and their interpretation
- Define the role of MRI

05. Number of Slides 10-15
06. Assessment 2 MCQs
07. Teacher Professor/Assistant Professor/ Senior Registrar
08. Duration of Lecture 45 Minutes
  v. Lecture 30 Minutes
  vi. Interactive 15 Minutes

09. Student Feedback Form
LEARNING OUTCOME

GYNAE/OBS Department

DHQ, HOSPITAL
Rawalpindi Medical College Rawalpindi

GYNAE/OBS
4th YEAR MBBS LECTURES
<table>
<thead>
<tr>
<th>S.NO</th>
<th>LECTURES</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Obstetric Statistics</td>
</tr>
<tr>
<td>2.</td>
<td>Obstetric Shock / Collapse.</td>
</tr>
<tr>
<td>3.</td>
<td>Antenatal case in high risk pregnancy fetal surveillance</td>
</tr>
<tr>
<td>4.</td>
<td>IUGR</td>
</tr>
<tr>
<td>5.</td>
<td>Post Date Pregnancy</td>
</tr>
<tr>
<td>6.</td>
<td>Miscellaneous Disorders.</td>
</tr>
<tr>
<td>7.</td>
<td>Litigation in Obstetrics</td>
</tr>
<tr>
<td>8.</td>
<td>Hypertension in Pregnancy</td>
</tr>
<tr>
<td>9.</td>
<td>Heart Disease in pregnancy</td>
</tr>
<tr>
<td>10.</td>
<td>Coagulation Disorders</td>
</tr>
<tr>
<td>11.</td>
<td>Other medical disorders (Thyroid, Respiratory, Renal, Epilepsy).</td>
</tr>
<tr>
<td>12.</td>
<td>Renal Disorders in Pregnancy</td>
</tr>
</tbody>
</table>
1. Topic: Obstetric Statistics

2. Mode of Teaching: Lecture

3. Class: 4th year MBBS

4. Learning outcome: Student should be able to:
   - Define all relevant statistical terms.
   - Calculate relevant rates/ratio.
   - Describe significance of all statistics.
   - Describe statistics of Pakistan according to most recent PHDS results.

5. Number of Slides: 10-15

6. Interactive Portion: 25%

7. Assessment: 1 MCQs and 1 Scenarios

8. Teacher: Professor/Assistant Professor / Senior Registrar

9. Duration of Lecture: 45 mints
   
   Lecture 30 Minutes
   Interactive 15 Minutes

9. Student Feedback Form
1. **Topic:** Obstetric Shock / Collapse
2. **Mode of Teaching:** Lecture
3. **Class:** 4th Year MBBS
4. **Learning outcome**
   - Student should be able to:
     - Define Shock and enlist all causes of obstetric shock
     - Suggest and justify relevant investigations
     - Differentiate all causes of shock on clinical findings and investigation.
     - Outline management plan.
5. **Number of Slides:** 10-15
6. **Interactive Portion:** 25%
7. **Assessment:** 1 MCQs and 1 Scenarios
8. **Teacher:** Professor/Assistant Professor/ Senior Registrar
9. **Duration of Lecture:** 45 Minutes
   - Lecture 30 Minutes
   - Interactive 15 Minutes
10. **Student Feedback Form**
1. **Topic:** Antenatal case in high risk pregnancy / fetal surveillance  
2. **Mode of Teaching:** Lecture  
3. **Class:** 4th Year MBBS  
4. **Learning outcome**  
   - Student should be able to:  
     - Describe objectives of antenatal care  
     - Describe the process of antenatal care in high risk pregnancy  
     - Enlist and describe all methods of fetal surveillance  
     - Interpret results of various methods of fetal surveillance and plan management accordingly.  

5. **Number of Slides:** 10-15  
6. **Interactive Portion:** 25%  
7. **Assessment:** 1 MCQs and 1 Scenarios  
8. **Teacher:** Professor/Assistant Professor/ Senior Registrar  
9. **Duration of Lecture:** 45 Minutes  
   i. Lecture 30 Minutes  
   ii. Interactive 15 Minutes  

10. **Student Feedback Form**
1. **Topic:** IUGR.
2. **Mode of Teaching** Lecture
3. **Class** 4th Year MBBS
4. **Learning outcome** Student should be able to:-
   - Define IUGR.
   - Classify IUGR and enlist causes
   - Enlist causes of IUGR
   - Suggest and justify relevant investigations
   - Differentiate causes of IUGR based on clinical findings and investigations
   - Outline management plan.
   - Describe prenatal and long time complications associated with IUGR.

5. **Number of Slides** 10-15
6. **Interactive Portion** 25%
7. **Assessment** 2 MCQs and 1 Scenarios
8. **Teacher** Professor/Assistant Professor/ Senior Registrar
9. **Duration of Lecture** 45 Minutes
   i. Lecture 30 Minutes
   ii. Interactive 15 Minutes
10. **Student Feedback Form**
1. Topic: Post Date Pregnancy
2. Mode of Teaching: Lecture
3. Class: 4th Year MBBS
4. Learning outcome: Student should be able to:
   - Define term, post-term, and post-date pregnancies.
   - Calculate date of delivery in women with normal and abnormal menstrual cycle length.
   - Describe maternal and fetal risks in post-date pregnancy.
   - Outline management plan.
5. Number of Slides: 10-15
6. Interactive Portion: 25%
7. Assessment: 2 MCQs and 1 Scenarios
8. Teacher: Professor/Assistant Professor/ Senior Registrar
9. Duration of Lecture: 45 Minutes
   i. Lecture 30 Minutes
   ii. Interactive 15 Minutes
10. Student Feedback Form
1. **Topic:** Miscellaneous Disorders.

2. **Mode of Teaching**
   - Lecture

3. **Class**
   - 4th Year MBBS

4. **Learning outcome**
   - Student should be able to:
     - Define Oligohydramnios, Polyhydramnios, and Hyperemesis Gravidarum
     - Define maternal and fetal risk in each condition
     - Suggest and justify relevant investigations.
     - Outline management plan

5. **Number of Slides**
   - 10-15

6. **Interactive Portion**
   - 25%

7. **Assessment**
   - 2 MCQs and 2 Scenarios

8. **Teacher**
   - Professor/Assistant Professor /Senior Registrar

9. **Duration of Lecture**
   - 45 Minutes
     - i. Lecture 30 Minutes
     - ii. Interactive 15 Minutes

10. **Student Feedback Form**
1. **Topic:** Litigation in Obstetrics
2. **Mode of Teaching:** Lecture
3. **Class:** 4th Year MBBS
4. **Learning outcome**
   - Student should be able to:
     - Enlist most common causes of litigation in obstetrics.
     - Describe legal points relevant to obstetrics according to Pakistan Panel Court e.g abortion.
     - Describe steps that health care professional can take to avoid litigation e.g written informed consent, documentation etc.
5. **Number of Slides:** 10-15
6. **Interactive Portion:** 25%
7. **Assessment:** 2 MCQs and 1 Scenarios
8. **Teacher:** Professor/Assistant Professor/ Senior Registrar
9. **Duration of Lecture:** 45 Minutes
   - i. Lecture 30 Minutes
   - ii. Interactive 15 Minutes
10. **Student Feedback Form**
1. Topic: Hypertension in Pregnancy
2. Mode of Teaching: Lecture
3. Class: 4th Year MBBS
4. Learning outcome: Student should be able to:-
   - Define hypertension and classify hypertensive
   - Describe pathogenesis and risk factors
   - Describe maternal and fetal risks
   - Suggest and justify relevant investigation.
   - Outline management plan of patients depending upon its severity
   - Define eclampsia and discuss management
5. Number of Slides: 10-15
6. Interactive Portion: 25%
7. Assessment: 2 MCQs and 1 Scenarios
8. Teacher: Professor/Assistant Professor/ Senior Registrar
9. Duration of Lecture:
   i. Lecture 30 Minutes
   ii. Interactive 15 Minutes
10. Student Feedback Form
1. Topic: Heart Disease in pregnancy
2. Mode of Teaching: Lecture
3. Class: 4th Year MBBS
4. Learning outcome: Student should be able to:
   - Enlist common heart diseases encountered in pregnancy.
   - Describe fetal and maternal risk factors.
   - Suggest and justify relevant investigation.
   - Outline management plan including multi-disciplinary approach.
   - Describe contraception options in these patients.
5. Number of Slides: 10-15
6. Interactive Portion: 25%
7. Assessment: 2 MCQs and 1 Scenarios
8. Teacher: Professor/Assistant Professor/ Senior Registrar
9. Duration of Lecture: 45 Minutes
   i. Lecture 30 Minutes
   ii. Interactive 15 Minutes
10. Student Feedback Form
1. **Topic:** Coagulation Disorders
2. **Mode of Teaching:** Lecture
3. **Class:** 4th Year MBBS
4. **Learning outcome**
   - Students should be able to:
     - Enlist common coagulation disorders encountered in pregnant women e.g. DIC, thrombocytopenia.
     - Describe maternal and fetal risk factors.
     - Suggest and justify relevant investigations.
     - Outline management plan especially the need for multidisciplinary approach.
5. **Number of Slides:** 10-15
6. **Interactive Portion:** 25%
7. **Assessment:** 2 MCQs and 1 Scenarios
8. **Teacher:** Professor/Assistant Professor/ Senior Registrar
9. **Duration of Lecture:** 45 Minutes
   - i. Lecture 30 Minutes
   - ii. Interactive 15 Minutes
10. **Student Feedback Form**
1. Topic: Other medical disorders (Thyroid, Respiratory, Epilepsy).
2. Mode of Teaching: Lecture
3. Class: 4th 1 Year MBBS
4. Learning outcome: Student should be able to:
   - Enlist common thyroid and respiratory pregnant women.
   - Describe maternal and fetal risk factor in common thyroid and respiratory disorders and epilepsy.
   - Suggest and justify relevant investigation.
   - Outline management plan especially the need for multidisciplinary approach.
   - Describe contraceptive options for these patients e.g. interaction of OCP with anti-epileptic drugs.
5. Number of Slides: 10-15
6. Interactive Portion: 25%
7. Assessment: 2 MCQs and 1 Scenarios
8. Teacher: Professor/Assistant Professor/ Senior Registrar
9. Duration of Lecture: 45 Minutes
   i. Lecture 30 Minutes
   ii. Interactive 15 Minutes
10. Student Feedback Form
<table>
<thead>
<tr>
<th>Topic:</th>
<th>Renal Disorders in Pregnancy.</th>
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<tbody>
<tr>
<td>Mode of Teaching</td>
<td>Lecture</td>
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<tr>
<td>Class</td>
<td>4th Year MBBS</td>
</tr>
<tr>
<td>Learning outcome</td>
<td>Student should be able to:</td>
</tr>
<tr>
<td></td>
<td>• Enlist common renal disorders in pregnancy.</td>
</tr>
<tr>
<td></td>
<td>• Describe maternal and fetal risk.</td>
</tr>
<tr>
<td></td>
<td>• Suggest and justify relevant investigation.</td>
</tr>
<tr>
<td></td>
<td>• Outline management plan involving multi disciplinarian approach.</td>
</tr>
<tr>
<td>Number of Slides</td>
<td>10-15</td>
</tr>
<tr>
<td>Interactive Portion</td>
<td>25%</td>
</tr>
<tr>
<td>Assessment</td>
<td>2 MCQs and 1 Scenarios</td>
</tr>
<tr>
<td>Teacher</td>
<td>Professor/Assistant Professor/ Senior Registrar</td>
</tr>
<tr>
<td>Duration of Lecture</td>
<td>45 Minutes</td>
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<tr>
<td></td>
<td>iii. Lecture 30 Minutes</td>
</tr>
<tr>
<td></td>
<td>iv. Interactive 15 Minutes</td>
</tr>
</tbody>
</table>

10. Student Feedback Form
01. Topic : Gynaecological history taking and examination.
02. Mode of Teaching: Lecture
03. Class: 4th Year MBBS

04. Learning outcome: Student should be able to:

- Describe significance of history taking and examination.
- Describe all important points of history taking e.g. presenting complaints, history of present Illness, Gynaecological history taking, Post medical and surgical history, Drug history, personal & socio-examine history, Family history.
- Describe all important points of general physical examination, abdominal examination and gynaecological examination (speculum and bimanual pelvic examination).

05. Number of Slides: 10-15

06. Interactive Portion: 25%

07. Assessment: 2 MCQs

08. Teacher: Professor/Assistant Professor/ Senior Registrar

09. Duration of Lecture: 45 Minutes
   v. Lecture 30 Minutes
   vi. Interactive 15 Minutes

10. Student Feedback Form
4TH YEAR MEDICINE DEPARTMENT
Investigation of Cardiovascular system

Sub-Topic: Electrocardiogram

Learning Outcomes:
At the end of the lecture students should be able to describe and discuss:

• Normal pattern
• Identify major abnormalities like MI, LVH/RVH, axis conduction defects and arrhythmias, drugs and electrolyte effects.

Sub-Topic: Chest x-ray

Learning Outcomes:
At the end of the lecture students should be able to describe and discuss:

• Cardiac shadow, Cardiac borders, Cardiomegally, pericardial effusion, Pulmonary hypertension

Sub-Topic: Echocardiography

Learning Outcomes:
At the end of the lecture students should be able to describe and discuss:

• Familiarity with basic Echocardiography.
• Principles and anatomical views with identification of cardiac chambers and valves, indications of echocardiography.

Sub-Topic: Endotracheal tube, Stress Thallium, CT angiography, Coronary angiography.

Learning Outcomes:
At the end of the lecture students should be able to describe and discuss:

• Familiarity with basic principles.
• Must know indications and contra indications/Limitations.

Sub-Topic: Congestive Cardiac failure

Learning Outcomes:
At the end of the lecture students should be able to describe and discuss:

• Pathogenesis and etiology of CCF.
• Differentiation between Right and Left heart failure.
• Symptoms and signs of CCF.
• Investigation, D/D and basic management of CCF.

Sub-Topic: Pulmonary edema

Learning Outcomes:
At the end of the lecture students should be able to describe and discuss:

• Pathogenesis and causes of LVF.
• Acute vs chronic LV dysfunction
• D/D especially from bronchial asthma, including appropriate investigation labs, ECG, CXR.
• Management of acute LVF.

Sub-Topic: Rheumatic fever

Learning Outcomes:
At the end of the lecture students should be able to describe and discuss:
• Aetiology and pathogenesis, symptoms and signs, diagnostic criteria for Rheumatic fever pattern of Cardiac involvement in RF.
• Extra cardiac manifestation of RF.
• D/D, investigation and management of Rheumatic Fever.

Sub-Topic:  Hypertension
Learning Outcomes:
At the end of the lecture students should be able to describe and discuss:
• Definition and diagnostic criteria
• [JNC (VII)], definitions primary and secondary hypertension, investigations.
• TOD in hypertension.
• Classes of drugs used in management of HTN.
• Hypertension in special situations like, pregnancy, renal failure, children, elderly.

Sub-Topic:  Valvular heart disease
Learning Outcomes:
At the end of the lecture students should be able to describe and discuss:
• Aetiology pathogenesis Signs and symptoms , D/D management prognosis of acquired VHD like: MS AS MR AR

PULMONOLOGY

Sub-Topic:  Tuberculosis
Learning Outcomes:
At the end of the lecture students should be able to describe and discuss:
• Will be taught in infection.

Sub-Topic:  Pleural Effusion/Empyema
Learning Outcomes:
At the end of the lecture students should be able to describe and discuss:
• Pathogenesis
• Causes and aetiology of pleural effusion empyema.
• Signs and symptoms
• Investigations in pleural effusion, transudative vs exudative.
• Management of pleural effusion, empyema.

Sub-Topic:  Pnuemothorax
Learning Outcomes:
At the end of the lecture students should be able to describe and discuss:
• Causes/Aetiology
Sub-Topic: Respiratory Failure/ABG’s
Learning Outcomes:
At the end of the lecture students should be able to describe and discuss:
- Acute and chronic Respiratory failure
- Type I and Type II respiratory failure
- Aetiology and causes
- Signs and symptoms of respiratory failure
- Investigation and management of respiratory failure

Sub-Topic: Investigations
Learning Outcomes:
At the end of the lecture students should be able to describe and discuss:
- Sputum analysis
- CXR
- CT scan/MRI
- Spirometry (pulmonary function test)
- Bronchoscopy
- Ventilator/perfusion studies

GIT

Sub-Topic: Investigations
Learning Outcomes:
At the end of the lecture students should be able to describe and discuss:
- CBC
- LFT’s
- PT, Coagulations studies
- USG, CT scan, MRI
- Endoscopy, endoscopic USG
- Barium studies
- Specific investigation for specific enzyme deficiencies
- Antibodies/serology
- Biopsy indication/contraindications

Sub-Topic: Jaundice
Learning Outcomes:
At the end of the lecture students should be able to describe and discuss:
- Already done.
- See under III year Dr. NY Khan
Sub-Topic: Ascites
Learning Outcomes:
At the end of the lecture students should be able to describe and discuss:
- Pathogenesis and mechanism of production of ascites
- Causes of ascites in general
- Sign and symptoms of ascites
- Investigation and general principles of management of ascites.

Sub-Topic: APD/Gastritis
Learning Outcomes:
At the end of the lecture students should be able to describe and discuss:
- Aetiology and pathogenesis
- Signs and symptoms
- Investigation
- Management plan

Sub-Topic: Dysphagia
Learning Outcomes:
At the end of the lecture students should be able to describe and discuss:
- Definition
- Aetiology /Causes
- Clinical clues to look for in a case of dysphagia
- Investigations and management

Sub-Topic: Achlasia
Learning Outcomes:
At the end of the lecture students should be able to describe and discuss:
- Definition
- Pathology
- S/S
- Clinical examination
- Investigation and management

Sub-Topic: Gastroesophageal reflux disease
Learning Outcomes:
At the end of the lecture students should be able to describe and discuss:
- Definition
- Mechanics and causes
- Signs and symptoms
- Investigations and management
RHEUMATOLOGY

Sub-Topic: Osteoarthritis
Learning Outcomes:
At the end of the lecture students should be able to describe and discuss:
- Pathogenesis/aetiology
- Signs and symptoms
- D/D of OA
- Investigations
- Management plan

Sub-Topic: Osteoporosis
Learning Outcomes:
At the end of the lecture students should be able to describe and discuss:
- Pathogenesis
- Sign and symptoms
- Investigations and management

Sub-Topic: Serum sickness
Learning Outcomes:
At the end of the lecture students should be able to describe and discuss:
- Definition
- Types of hypersensitivity reaction
- Causes and clinical presentation
- Management of serum sickness

Sub-Topic: Metabolic arthropathies
Learning Outcomes:
At the end of the lecture students should be able to describe and discuss:
- Uric acid metabolism
- Urate arthropathy
- S/S, D/D, clues in history and physical examination
- Joint fluid aspiration and examination
- Management, role of drug like colchicin, Indomethacin and allopurinol
- Pyrophosphate arthropathy
- Differentiation from urate arthropathy.
- Management.
HEMATOLOGY

Sub-Topic:  Hemolytic Anemia
Learning Outcomes:
At the end of the lecture students should be able to describe and discuss:
- Definition of hemolysis
- Pathophysiology of hemolysis
- Types of hemolytic anemias including enzymopathies, auto-immune, drug induced, mechanical, infective causes.
- Brief outline of importance of hemolytic anemias
- Clinical features+ signs including jaundice, pallor, calculi + splenomegaly.
- Investigations including haemoglobin, electrophoresis, osmetic fragility rest, peripheral film, coombs direct & indirect test.
- Broad outline of treatment modalities.

Sub-Topic:  Hemoglobinopathies
Learning Outcomes:
At the end of the lecture students should be able to describe and discuss:
- Definition
- Pathophysiology
- Clinical features
- Investigations including peripheral film, haemoglobin, electrophoresis.
- Treatment Modalities

Sub-Topic:  Sickle cell anemia
Learning Outcomes:
At the end of the lecture students should be able to describe and discuss:
- Pathophysiology
- Mechanism of sickling
- Complications and relevant investigations.
- Treatment including that of acute crises, long term management

Sub-Topic:  Thalassemia
Learning Outcomes:
At the end of the lecture students should be able to describe and discuss:
- Definition + etiology
- Types of thalassemia (minor, Major)
- Pathophysiology
- Clinical features (difference between minor and major varieties)

Sub-Topic:  Investigations/Joints
Learning Outcomes:
At the end of the lecture students should be able to describe and discuss:
- An appropriate set of investigation for the patient with joint problem
- Basic investigation like CBC, ESR, CRP, Uric acid and specialized serological test and immune profile essay.
- CT, MRI, arthoscopy, Biopsy.
INFECTION

Sub-Topic: Tuberculosis
Learning Outcomes:
At the end of the lecture students should be able to describe and discuss:
- Epidemiology
- Bacteriology
- Aetiology + Pathogenesis
- Organs involved in tuberculosis
- Investigations: including AFB + culture media+PCR
- Treatment
- Drugs used
- Indication, side effects

Sub-Topic: Leprosy
Learning Outcomes:
At the end of the lecture students should be able to describe and discuss:
- Etiology- including organism viability + incubation + pathogenesis period
- Types of leprosy including lepromatous + tuberculous leprosy
- Clinical features, lepra reactions
- Investigations
- Treatment including that of lepra reactions.

Sub-Topic: Infections mononucleosis
Learning Outcomes:
At the end of the lecture students should be able to describe and discuss:
- Causative organism
- Mode of transmission
- Clinical features
- Investigations/Management

Sub-Topic: HIV/AIDS
Learning Outcomes:
At the end of the lecture students should be able to describe and discuss:
- Causative organism+ epidemiology (brief historical background)
- Mode of transmission.
- Difference between HIV+AIDS
- Pathogenesis
- Clinical features
- Complications and their management
- Course and prognosis
- Investigations
- Treatment modalities
- Treatment in special conditions i.e. pregnancy, newly born.
- Prevention

**Sub-Topic:** Infectious diarrhea  
**Learning Outcomes:**  
At the end of the lecture students should be able to describe and discuss:
  - Definition of diarrhea (Acute)
  - Causative organisms (viral, Bacterial, Parasitic)
  - Types of diarrhea
  - Pathogenesis
  - Clinical features/Complications
  - Investigations
  - Management

**Sub-Topic:** Gastro-enteritis  
**Learning Outcomes:**  
At the end of the lecture students should be able to describe and discuss:
  - Definition
  - Etiology-causative organisms
  - Pathogenesis
  - Clinical features/Complications
  - Investigations
  - Management

**ENDOCRINE**

**Sub-Topic:** Hyperthyroidism  
**Learning Outcomes:**  
At the end of the lecture students should be able to describe and discuss:
  - Sign and symptoms
  - Causes
  - Investigations (T3, T4, TSH)
  - Treatment (drug, surgical, others)
  - Complication/crisis

**Sub-Topic:** Hypothyroidism  
**Learning Outcomes:**  
At the end of the lecture students should be able to describe and discuss:
  - Sign and symptoms
  - Causes
  - Investigation (T3, T4, TSH, antibodies)
  - Treatment (Drugs)
  - Complication, Myxoedema coma.
Sub-Topic: Cushing syndrome
Learning Outcomes:
At the end of the lecture students should be able to describe and discuss:
- Sign and symptoms
- Causes
- Investigation
- Treatment (Medical, Surgical)
- Complications

Sub-Topic: Addison’s
Learning Outcomes:
At the end of the lecture students should be able to describe and discuss:
- Sign and symptoms
- Causes
- Investigation
- Treatment
- Complications

NEUROLOGY

Sub-Topic: CNS infections
Learning Outcomes:
At the end of the lecture students should be able to describe and discuss:
- Symptoms of CNS infection
- Signs of CNS infection
- Common types of CNS infection
- Investigations
- CSF (R/E, Viral, Pyogenic, tuberculous)
- CT Scan, MRI
- Broad outline of Rx

Sub-Topic: Tuberculosis (TBM)
Learning Outcomes:
At the end of the lecture students should be able to describe and discuss:
- Symptoms of TBM
- Signs of TBM
- CSF finding in TBM
- CT scan/MRI
- Complication of TBM
- Treatment of TBM
Sub-Topic: Encephalitis
Learning Outcomes:
At the end of the lecture students should be able to describe and discuss:
- Sign and symptoms
- Common causes of encephalitis
- CSF findings.
- Other investigations.
- Treatment

Sub-Topic: Brain Abscess
Learning Outcomes:
At the end of the lecture students should be able to describe and discuss:
- Sign and symptoms (Red tags)
- Causes
- CT scan/MRI (diagnostic radiology)
- Treatment options

Sub-Topic: Raised Intracranial pressure
Learning Outcomes:
At the end of the lecture students should be able to describe and discuss:
- Sign and symptoms
- Causes
- Investigation
- CT Scan, diagnostic radiology

Sub-Topic: Investigations of CNS
Learning Outcomes:
At the end of the lecture students should be able to describe and discuss:
- CT
- MRI, MRA, MRV
- PET
- CSF
- NCS
- EMG
- EEG

Sub-Topic: Spinal cord compression/Disease
Learning Outcomes:
At the end of the lecture students should be able to describe and discuss:
- Sign and symptoms
- Main causes
- Investigations
- Management
NEPHROLOGY

Sub-Topic: Urinary tract infections
Learning Outcomes:
At the end of the lecture students should be able to describe and discuss:

- Pathophysiology
- Risk factors for UTI
- Clinical presentations according to involvement of renal tract
- Investigations required
- Management of UTI and of persistent/recurrent UTI.

Sub-Topic: Drugs and renal disease
Learning Outcomes:
At the end of the lecture students should be able to describe and discuss:

- Mechanism of action of different drugs causing renal impairment
- Drugs causing renal impairment
- Prescribing in renal impairment
- Adjusting the dose in renal impairment

Sub-Topic: Acute renal failure
Learning Outcomes:
At the end of the lecture students should be able to describe and discuss:

- Pathophysiology
- Causes
- Differentiating between pre-renal, renal, post-renal failure
- Clinical assessment
- Investigations required to establish diagnosis and aetiology
- Management according to cause of ARF

Sub-Topic: Chronic Renal Failure
Learning Outcomes:
At the end of the lecture students should be able to describe and discuss:

- Pathophysiology
- Causes of CRF
- Clinical features
- Complications
- Factors contributing to acute on chronic renal failure
- Investigations required to establish diagnosis and to look for complications
- Management
- Followup
- Renal replacement therapy indications and types
Sub-Topic: Investigations of Renal disease
Learning Outcomes:
At the end of the lecture students should be able to describe and discuss:

- GFR calculation
- Urinalysis

Sub-Topic: Blood test
Learning Outcomes:
At the end of the lecture students should be able to describe and discuss:

- Hemotology
- Biochemistry
- Immunology

Sub-Topic: Imaging
Learning Outcomes:
At the end of the lecture students should be able to describe and discuss:

- Ultrasound
- Computed tomography
- Magnetic resonance imaging
- Renal arterography
- CT angiography
- Intravenous urography
- Pyelography
- Radionuclide studies
- Renal biopsy
- Rationale of investigations.

METABOLIC DISORDERS

Sub-Topic: Gout
Learning Outcomes:
At the end of the lecture students should be able to describe and discuss:

- Pathophysiology
- Causes of Hyperuricemia and gout
- Clinical presentation and differentiating from other causes
- Investigations required for diagnosis
- Management of acute and chronic gout.

Sub-Topic: Osteogenesis imperfect
Learning Outcomes:
At the end of the lecture students should be able to describe and discuss:

- Pathophysiology
- Clinical presentation
- Differentiating from other causes of recurrent fractures
- Work up
Sub-Topic: Disorders of Aminoacid Metabolism
Learning Outcomes:
At the end of the lecture students should be able to describe and discuss:
- Role of aminoacids.
- Disorders resulting from derangement of aminoacid metabolism. Broad outline only
- Clinical features
- Diagnosis
- Treatment
- Prevention

MISCELLANEOUS

Sub-Topic: Heat stroke/Heat Exhaustion
Learning Outcomes:
At the end of the lecture students should be able to describe and discuss:
- Normal thermoregulation
- Pathophysiology
- Difference between heat stroke and heat exhaustion.
- Risk factors predisposing to heat stroke clinical assessment of patient
- Other causes of hyperthermia
- Investigations
- Management

Sub-Topic: Snake Bite
Learning Outcomes:
At the end of the lecture students should be able to describe and discuss:
- Overview Viper vs Cobra
- Local and systemic effects
- Investigations (DIC profile, urine R/E)
- First aid in snake bite cases
- Role of anti-venom
- Supportive management

Sub-Topic: Electric shock
Learning Outcomes:
At the end of the lecture students should be able to describe and discuss:
- Damage caused by electric shock burns.
- Cardiac complications
- Management
PATHOLOGY DEPARTMENT, RAWALPINDI MEDICAL COLLEGE, RAWALPINDI
4th year MBBS LECTURE ALLOCATION
Date: 5-1-15  
Time: 8-9am  
Topic: Oral Cavity  
**Learning Outcomes:** Infections/ Tumors

Date: 6-1-15  
Time: 8-9am  
Topic: Salivary Glands  
**Learning Outcomes:** Infections/ Tumors

Date: 7-1-15  
Time: 8-9am  
Topic: Esophagus Infection  
**Learning Outcomes:**

Date: 12-1-15  
Time: 8-9am  
Topic: Stomach, Acute gastritis, Chronic gastritis  
**Learning Outcomes:**  
- H pylori gastritis  
- Autoimmune gastritis

Date: 13-1-15  
Time: 8-9am  
Topic: Complications of chronic gastritis  
**Learning Outcomes:**  
- Peptic ulcer disease  
- Dysplasia  
- Hypertrophic gastropathies  
- Zollinger Ellison syndrome

Date: 14-1-15  
Time: 8-9am  
Topic: Gastric polyps & tumors  
**Learning Outcomes:**
Inflammatory & hyperplastic polyps  
Gastric adenoma  
Gastric adenocarcinoma  
Lymphoma  
Carcinoid tumor  
Stromal tumor

Date: 19-1-15  
Time: 8-9am  
Topic: Complications of chronic gastritis  
Learning Outcomes:  
- Peptic ulcer disease  
- Dysplasia  
- Hypertrophic gastropathies  
- Zollinger Ellison syndrome

Date: 20-1-15  
Time: 8-9am  
Topic: Gastric polyps & tumors  
Learning Outcomes:  
- Inflammatory & hyperplastic polyps  
- Gastric adenoma  
- Gastric adenocarcinoma  
- Lymphoma  
- Carcinoid tumor  
- Stromal tumor

Date: 21-1-15  
Time: 8-9am  
Topic: Intestinal obstruction, Ischemic bowel disease Angiodysplasia, Malabsorption & diarrhea, Infectious enterocolitis  
Learning Outcomes:  
- Cholera  
- Campylobacter enterocolitis  
- Shigellosis  
- Salmonellosis  
- Typhoid fever
• **Yersinia**
• **E coli**

**Date:** 26-1-15  
**Time:** 8-9am  
**Topic:** Learning Outcomes:  
• Pseudomembranous colitis  
• Whipple disease  
• Viral gastroenteritis  
• Parasitic enterocolitis Irritable bowel syndrome  
  Inflammatory bowel disease  
• Crohn disease  
• Ulcerative colitis Sigmoid diverticulitis

**Date:** 27-1-15  
**Time:** 8-9am  
**Topic:** Polyps  
**Learning Outcomes:**  
• Inflammatory polyps  
• Hamartomatous polyps  
• Hyperplastic polyps  
• Neoplastic polyps Familial syndromes Adenocarcinoma  
• Tumors of anal canal  
• Hemorrhoids  
• Acute appendicitis Tumors of appendix  
• Inflammatory disease of peritoneal cavity

**Date:** 28-1-15  
**Time:** 8-9am  
**Topic:** General features of hepatic disease  
**Learning Outcomes:**  
• Patterns of hepatic injury  
• Hepatic failure  
• Cirrhosis  
• Portal hypertension  
• Jaundice & cholestasis
Date: 2-2-15  
Time: 8-9am  
Topic: Infectious disorders  

Learning Outcomes:  
- Viral hepatitis  
- Bacterial, parasitic & helminthic infections  
- Autoimmune hepatitis  
- Drug & toxin induced liver disease  
- Alcoholic liver disease  
- Metabolic liver disease  
- Nonalcoholic fatty liver disease  
- Hemochromatosis  
- Wilson disease  
- Antitrypsin deficiency  
- Neonatal cholestasis

Date: 3-2-15  
Time: 8-9am  
Topic: Intrahepatic biliary tract disease  

Learning Outcomes:  
- Secondary biliary cirrhosis  
- Primary biliary cirrhosis  
- Primary sclerosing  
- Cholangitis  
- Anomalies of biliary tree  
- Circulatory disorders  
- Impaired blood flow into liver  
- Impaired blood flow through liver  
- Hepatic venous outflow obstruction  
- Hepatic complications  
- Hepatic disease associated with pregnancy

Date: 4-2-15  
Time: 8-9am  
Topic: Hepatic complications, Hepatic disease associated with pregnancy, Nodules & tumors
Learning Outcomes:

- Nodular hyperplasia
- Benign neoplasm
- Malignant tumors---HCC
- Metastatic tumors
- Congenital anomalies of biliary tract
- Disorders of gall bladder
- Cholelithiasis
- Cholecystitis
- Disorders of extrahepatic bile ducts
- Choledocholithiasis & ascending cholangitis
- Biliary atyresia
- Choledochal cysts
- Tumors of gall bladder

Date: 9-2-15  
Time: 8-9am  
Topic: Learning Outcomes:

- Pancreas
- Congenital anomalies
- Pancreatitis
- Non neoplastic cysts

Date: 10-2-15  
Time: 8-9am  
Topic: Pituitary gland

Learning Outcomes:

- Clinical manifestations of pituitary disease
- Pituitary adenomas & hyperpituitarism
- Hypopituitarism
- Posterior pituitary syndromes
- Hypothalamic suprasellar tumors

Date: 11-2-15  
Time: 8-9am  
Topic: Thyroid gland
Learning Outcomes:
- Hyperthyroidism
- Hypothyroidism
- Thyroiditis
- Graves disease
- Diffuse & multinodular goiter

Date: 16-2-15
Time: 8-9am
Topic: Thyroid gland

Learning Outcomes:
- Hyperthyroidism
- Hypothyroidism
- Thyroiditis
- Graves disease
- Diffuse & multinodular goiter

Date: 17-2-15
Time: 8-9am
Topic: Neoplasms of thyroid

Learning Outcomes:
- Neoplasms of thyroid
- Congenital anomalies

Date: 18-2-15
Time: 8-9am
Topic: Parathyroid glands

Learning Outcomes:
- Hyperparathyroidism
- Hypoparathyroidism
- Pseudohypoparathyroidism

Date: 23-2-15
Time: 8-9am
Topic: Endocrine Pancreas

Learning Outcomes:
• Diabetes mellitus
• Pancreatic endocrine neoplasm

Date: 24-2-15
Time: 8-9am
Topic: Endocrine Pancreas
Learning Outcomes:
• Diabetes mellitus
• Pancreatic endocrine neoplasm

Date: 25-2-15
Time: 8-9am
Topic: Adrenal glands
Learning Outcomes:
• Adrenocortical hyperfunction (hyperadrenalism)
• Adrenocortical insufficiency

Date: 2-3-15
Time: 8-9am
Topic: Renal System Clinical
Learning Outcomes:
• Manifestations of renal diseases

Date: 3-3-15
Time: 8-9am
Topic: Renal System
Learning Outcomes:
• Glomerular diseases
• Clinical manifestations
• Histologic alterations
• Pathogenesis of glomerular injury
• Mechanisms of progression in glomerular diseases
Date: 4-3-15
Time: 8-9am
Topic: Renal System
Learning Outcomes:
- Nephritic syndrome
- Poststreptococcal, post infectious
- Rapidly progressive GN

Date: 9-3-15
Time: 8-9am
Topic: Renal System
Learning Outcomes:
- Nephrotic syndrome
- Isolated urinary abnormalities

Date: 10-3-15
Time: 8-9am
Topic: Renal System
Learning Outcomes:
- Chronic glomerulonephritis
- Glomerular lesions associated with systemic diseases

Date: 11-3-15
Time: 8-9am
Topic: Renal System
Learning Outcomes:
- Tubular & interstitial diseases
- Acute tubular necrosis
- Tubulointerstitial nephritis

Date: 30-3-15
Time: 8-9am
Topic: Renal System
Learning Outcomes:
- Urolithiasis
Learning Outcomes:
- Tumors of kidney
- Benign tumors
- Malignant tumors
- Renal cell carcinoma, urothelial carcinoma

Learning Outcomes:
- Congenital anomalies
- Inflammation
- Tumors
- Obstructive lesions

Learning Outcomes:
- Congenital anomalies
- Inflammation
- Metaplastic lesions
- Neoplasms
- Obstruction

Learning Outcomes:
- Inflammation
• Tumors

Congenital & inflammatory lesions of testis & epididymis

Date: 8-4-15
Time: 8-9am
Topic: Renal System
Learning Outcomes:
Testicular tumors

• Germ cell tumors
• Tumors of sex cord gonadal stroma
• Gonadoblastoma
• Testicular lymphoma

Date: 13-4-15
Time: 8-9am
Topic: Renal System
Learning Outcomes:
Prostate

• Inflammation

Date: 14-4-15
Time: 8-9am
Topic: Renal System
Learning Outcomes:
Prostate

• Tumors adenocarcinoma

Date: 15-4-15
Time: 8-9am
Topic: Female genital tract Infections of the female genital tract Vulva
Learning Outcomes:

• Bartholin cyst
• Non neoplastic epithelial disorders
• Benign exophytic lesions
- Squamous neoplastic lesions
- Glandular neoplastic lesions

Malignant melanoma

Date: 20-4-15
Time: 8-9am
Topic: Female genital tract Vagina
Learning Outcomes:
- Development anomalies
- Premalignant & malignant neoplasms

Date: 21-4-15
Time: 8-9am
Topic: Female genital tract Cervix
Learning Outcomes:
- Inflammation
- Endocervical polyps
- Premalignant & malignant neoplasms---cervical intraepithelial neoplasia, cervical carcinoma

Date: 22-4-15
Time: 8-9am
Topic: Female genital tract Uterus & endometrium
Learning Outcomes:
- Dysfunctional uterine bleeding
- Inflammation
- Endometriosis
- Endometrial polyps
- Endometrial hyperplasia
- Malignant neoplasms of endometrium
- Tumors of endometrium with stromal differentiation
- Tumors of myometrium

Date: 27-4-15
Time: 8-9am
Topic: Female genital tract Fallopian tumors

Learning Outcomes:
- Inflammation
- Tumors & cysts

Date: 28-4-15
Time: 8-9am
Topic: Female genital tract Gestational & placental disorders

Learning Outcomes:
- Disorders of early pregnancy
- Disorders of late pregnancy
- Gestational trophoblastic disease—hydatidiform mole, invasion mole, choriocarcinoma, placental site trophoblastic tumor

Date: 29-4-15
Time: 8-9am
Topic: Female genital tract Ovaries

Learning Outcomes:
- Non neoplastic & functional cysts
- Ovarian tumors—epithelial tumors, germ cell tumors, sex cord stromal tumors

Date: 4-5-15
Time: 8-9am
Topic: Breast

Learning Outcomes:
- Disorders of development
- Clinical presentations of breast disease
- Inflammatory disorders
- Benign epithelial lesions
- Gynecomastia (male breast)

Date: 5-5-15
Time: 8-9am
Topic: Breast

Learning Outcomes:
Carcinoma of breast
• Incidence & epidemiology
• Etiology & pathogenesis
• Classification
• Prognostic & predictive factors
• Stromal tumors

Date: 6-5-15
Time: 8-9am
Topic: CVS

Learning Outcomes:
Blood vessels

• Structure & function of blood vessels
• Vessel development, growth & remodeling
• Congenital anomalies
• Vascular response to injury
• Hypertensive vascular disease
• Arteriosclerosis
• Atherosclerosis
• Epidemiology, Pathogenesis, Consequences

Date: 11-5-15
Time: 8-9am
Topic: CVS

Learning Outcomes:
blood vessels

• Aneurysms & dissection Abdominal aortic aneurysm Thoracic aortic aneurysms Aortic dissection
• Vasculitis Non infectious vasculitis Temporal arteritis Takayasu arteritis Polyarteritis nodosa Kawasaki disease Microscopic polyangiitis Wegener granulomatosis Buerger disease Infectious vasculitis
• Raynaud phenomenon
Learning Outcomes:
Blood vessels

- Veins & lymphatics
- Tumors

Benign tumors----Hemangioma, lymphangioma, glomangioma
Intermediate tumors----Kaposi sarcoma, hemangioendothelioma
Malignant tumors----angiosarcoma, hemangiopericytoma

Learning Outcomes:
Heart

- Cardiac structure & specialization
- Effects of aging on heart
- Heart disease: overview of pathophysiology
- Heart failure
  Cardiac hypertrophy
  Left sided heart failure

Right sided heart failure

Learning Outcomes:
Heart
Congenital heart disease
Ischemic heart disease

- Angina pectoris
- Myocardial infarction
- Chronic ischemic heart disease
- Sudden cardiac death

Hypertensive heart disease
Date: 19-5-15
Time: 8-9am
Topic: CVS
Learning Outcomes:
Heart
Valvular heart disease
- Calcific valvular degeneration
- Mitral valve prolapsed
- Rheumatic fever & rheumatic heart disease
- Infective endocarditis
- Non infected vegetations
- Carcinoid heart disease
- Complications

Date: 20-5-15
Time: 8-9am
Topic: CVS
Learning Outcomes:
Heart
Cardiomyopathies
- Dilated cardiomyopathy
- Hypertrophic cardiomyopathy
- Restrictive cardiomyopathy
- Myocarditis
Pericardial diseases
- Effusion
Pericarditis

Date: 25-5-15
Time: 8-9am
Topic: CVS
Learning Outcomes:
Heart
Tumors
- Primary---myxoma, lipoma, fibroelastoma, rhabdomyoma, sarcoma
- Cardiac effects of noncardiac neoplasms
Date: 26-5-15  
Time: 8-9am  
Topic: CVS  
Learning Outcomes:  
Diseases of white blood cells, lymph nodes, spleen & thymus  
- Development & maintenance of hematopoietic tissues  
- Disorders of WBC  
- Leukopenia---neutropenia, agranulocytosis  
- Reactive proliferations of WBC & lymph nodes  
- Leukocytosis  
- Lymphadenitis

Date: 27-5-15  
Time: 8-9am  
Topic: CVS  
Learning Outcomes:  
Diseases of white blood cells, lymph nodes, spleen & thymus  
Neoplastic proliferations of white cells  
- Lymphoid neoplasms  
  - Precursor B & T cell neoplasms  
  - Peripheral B cell neoplasm  
  - Peripheral T cell & NK cell neoplasms  
  - Hodgkin lymphoma

Date: 1-6-15  
Time: 8-9am  
Topic: CVS  
Learning Outcomes:  
Diseases of white blood cells, lymph nodes, spleen & thymus  
Myeloid neoplasms  
- Ac myeloid leukemia  
- Myelodysplastic syndromes  
- Myeloproliferative disorders
Date: 2-6-15  
Time: 8-9am  
Topic: CVS  
Learning Outcomes:  
Diseases of white blood cells, lymph nodes, spleen & thymus  
- Splenomegaly  
- Neoplasms of spleen  
- Congenital anomalies  
- Rupture of spleen

Date: 3-6-15  
Time: 8-9am  
Topic: CVS  
Learning Outcomes:  
Diseases of white blood cells, lymph nodes, spleen & thymus  
- Developmental disorders of thymus  
- Thymic hyperplasia  
Thymomas

Date: 8-6-15  
Time: 8-9am  
Topic: CVS  
Learning Outcomes:  
Red blood cells & bleeding disorders  
Anemias  
Anemias of blood loss  
Hemolytic anemias  
- hereditary spherocytosis  
- Hemolytic disease due to red cell enzyme defect  
- Sicke cell disease

Date: 9-6-15  
Time: 8-9am  
Topic: CVS  
Learning Outcomes:  
Red blood cells & bleeding disorders  
- Thalassemia syndromes
• PNH
• Immunohemolytic anemias
• Hemolytic anemia resulting from trauma to RBCs

Date: 10-6-15
Time: 8-9am
Topic: CVS
Learning Outcomes:
Red blood cells & bleeding disorders
  • Anemias of diminished erythropoiesis
    megaloblastic anemias, iron deficiency anemia, anemia of chronic disease, aplastic anemia, pure red cell aplasia

Date: 3-8-15
Time: 8-9am
Topic: CVS
Learning Outcomes:
  • Red blood cells & bleeding disorders
  • Polycythemia

Date: 4-8-15
Time: 8-9am
Topic: CVS
Learning Outcomes:
  • Red blood cells & bleeding disorders

Date: 5-8-15
Time: 8-9am
Topic: CVS
Learning Outcomes:
  • Red blood cells & bleeding disorders

Date: 10-8-15
Time: 8-9am
Topic: CVS
Learning Outcomes:
Red blood cells & bleeding disorders
Hemorrhagic diatheses
• Bleeding disorders caused by vessel wall abnormalities

Date: 11-8-15
Time: 8-9am
Topic: CVS
Learning Outcomes:
Red blood cells & bleeding disorders
• Bleeding related to reduced platelet number: thrombocytopenia---chronic immune
  thrombocytopenic purpura, acute ITP, drug induced, HIV associated, TTP, HUS

Date: 12-8-15
Time: 8-9am
Topic: CVS
Learning Outcomes:
Red blood cells & bleeding disorders
• Bleeding disorders related to defective platelet functions

Date: 18-8-15
Time: 8-9am
Topic: CVS
Learning Outcomes:
• Red blood cells & bleeding disorders
• Disseminated intravascular coagulation

Date: 19-8-15
Time: 8-9am
Topic: Respiratory system
Learning Outcomes:
• Congenital anomalies

Date: 24-8-15
Time: 8-9am
Topic: Respiratory system
Learning Outcomes:

- Atelectasis

Date: 25-8-15  
Time: 8-9am  
Topic: Respiratory system

Learning Outcomes:

- Pulmonary edema  
- Hemodynamic Pulmonary Edema  
- Edema Caused by Microvascular Injury

Date: 26-8-15  
Time: 8-9am  
Topic: Respiratory system

Learning Outcomes:

- Acute Lung Injury and Acute Respiratory Distress  
- Syndrome (Diffuse Alveolar Damage)  
- Acute Interstitial Pnoumonia

Date: 31-8-15  
Time: 8-9am  
Topic: Respiratory system

Learning Outcomes:

- Obstructive versus Restrictive Pulmonary Diseases  
- Obstructive Pulmonary Diseases Emphysema

Date: 1-9-15  
Time: 8-9am  
Topic: Respiratory system

Learning Outcomes:

- Chronic Bronchitis  
- Asthma  
- Bronchiectasis

Date: 2-9-15  
Time: 8-9am  
Topic: Respiratory system
Learning Outcomes:
- Chronic Diffuse Interstitial (Restrictive) Diseases
  - Fibrosing Diseases
- Idiopathic
- Non specific interstitial pneumonia
- Cryptogenic organizing pneumonia

Date: 7-9-15  
Time: 8-9am  
Topic: Respiratory system

Learning Outcomes:
- Pulmonary involvement in connective tissue disease
- Pneumoconiosis

Date: 8-9-15  
Time: 8-9am  
Topic: Respiratory system

Learning Outcomes:
- Complications
- Granulomatous diseases
  - Sarcoidosis
  - Hypersensitivity pneumonitis

Date: 9-9-15  
Time: 8-9am  
Topic: Respiratory system

Learning Outcomes:
- Pulmonary eosinophilia
- Smoking related interstitial diseases
- Pulmonary alveolar proteinosis

Date: 14-9-15  
Time: 8-9am  
Topic: Respiratory system

Learning Outcomes:
- Diseases of vascular origin
- Pulmonary embolism, hemorrhage, infarction
Date: 15-9-15  
Time: 8-9am  
Topic: Respiratory system  

Learning Outcomes:  
- Pulmonary hypertension  
- Diffuse pulmonary hemorrhage syndromes  
- Goodpasture syndrome  
- Idiopathic pulmonary hemosiderosis  
- Wegener granulomatosis

Date: 16-9-15  
Time: 8-9am  
Topic: Respiratory system  

Learning Outcomes:  
- Pulmonary infections  
- Community acquired acute pneumonias  
- Community acquired atypical pneumonias  
- Hospital acquired

Date: 21-9-15  
Time: 8-9am  
Topic: Respiratory system  

Learning Outcomes:  
- Aspiration pneumonia  
- Lung abscess  
- Chronic pneumonia  
- Pneumonia in immunocompromised host  
- Pulmonary disease in HIV infection

Date: 22-9-15  
Time: 8-9am  
Topic: Respiratory system  

Learning Outcomes:  
- Lung transplantation  
- Tumors  
  - Carcinomas  
  - Neuroendocrine proliferations & tumors  
  - Miscellaneous tumors
Metastatic tumors

Date: 23-9-15
Time: 8-9am
Topic: Respiratory system

Learning Outcomes:
- Pleura
- Pleural effusion
- Pneumothorax
- Pleural tumors

Date: 28-9-15
Time: 8-9am
Topic: Skin

Learning Outcomes:
- Definitions of macroscopic & microscopic terms

Date: 29-9-15
Time: 8-9am
Topic: Skin

Learning Outcomes:
- Disorders of pigmentation & melanocytes

Date: 30-9-15
Time: 8-9am
Topic: Skin

Learning Outcomes:
- Benign epithelial tumors
- Premalignant & malignant epidermal tumors
- Actinic keratosis
- Squamous cell carcinoma
- Basal cell carcinoma
LEARNING OUTCOME

PAEDIATRICS

PROF. RAI MUHAMMAD ASGHAR

Paediatric Department
Rawalpindi Medical College
Rawalpindi
<table>
<thead>
<tr>
<th>S. No.</th>
<th>Lectures</th>
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<tbody>
<tr>
<td>1</td>
<td>Introduction to child growth pattern</td>
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<tr>
<td>2</td>
<td>Acute Diarrhea</td>
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<tr>
<td>3</td>
<td>Developmental Milestones</td>
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<td>4</td>
<td>Measles</td>
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<td>5</td>
<td>Breast Feeding</td>
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<tr>
<td>6</td>
<td>Malnutrition Assessment</td>
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<tr>
<td>7</td>
<td>Malnutrition Management</td>
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<td>8</td>
<td>Bacterial Meningitis</td>
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<td>9</td>
<td>Tuberculosis</td>
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<td>10</td>
<td>Tuberculosis Meningitis</td>
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<td>11</td>
<td>Neonatal Tetanus</td>
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<td>12</td>
<td>Vitamin A Deficiency</td>
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<td>13</td>
<td>Vitamin D Deficiency</td>
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<td>14</td>
<td>Iron Deficiency</td>
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<tr>
<td>15</td>
<td>Diphtheria</td>
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<tr>
<td>16</td>
<td>Chicken pox / Pertusis</td>
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<tr>
<td>17</td>
<td>Thalassemia</td>
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<tr>
<td>18</td>
<td>Malaria</td>
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<td>19</td>
<td>Aplastic Anemia</td>
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<tr>
<td>20</td>
<td>Enteric Fever</td>
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<td>21</td>
<td>Idiopathic thrombocytopenia</td>
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<td>22</td>
<td>Polio / GBS</td>
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<td>23</td>
<td>Hemophilia</td>
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<td>24</td>
<td>Broncholitis</td>
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<td>25</td>
<td>Lymphoma</td>
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<td>26</td>
<td>Croup</td>
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<tr>
<td>27</td>
<td>ALL</td>
</tr>
<tr>
<td>28</td>
<td>Rheumatic Fever</td>
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</tbody>
</table>
PAEDIATRICS

LEARNING OUTCOME

1. Topic: Measles
2. Mode of Teaching Lecture
3. Class Fourth Year MBBS
4. Learning outcome Student should be able to:
   - Define Measles
   - Describe clinical features
   - Differentiate from other causes of rash
   - Identify complications
   - Manage disease and its complications
   - Know immunization against measles
   - Enlist preventive measures
5. Number of Slides 10-15
6. Pictures Slideshow of measles and other rashes
7. Interactive Portion 25%
8. Assessment 3 MCQs and 2 Scenarios
9. Teacher Assistant Professor / SR
10. Duration of Lecture One Hour
    Lecture 45 Minutes
    Interactive 15 Minutes
11. Student Feedback Form
Topic: **Malnutrition Assessment**

1. Mode of Teaching       Lecture
2. Class                  Fourth Year MBBS
3. Learning outcome       Student should be able to:
   - Define Malnutrition
   - Enlist common etiological factors
   - Classify
   - Evaluate malnourished child from history and physical examination
   - Plot Growth parameters on the percentile charts
   - Know WHO management protocol for severe malnutrition
   - Enlist the steps of nutritional rehabilitation
4. Number of Slides       10-15
5. Pictures               Marasmus and Kwashiorkor
6. Interactive Portion    25%
7. Assessment             3 MCQs and 2 Scenarios
8. Teacher                Assistant Professor / SR
9. Duration of Lecture    One Hour
   - Lecture 45 Minutes
   - Interactive 15 Minutes
10. Student Feedback Form Growth parameters
<table>
<thead>
<tr>
<th></th>
<th>Topic:</th>
<th>Breast feeding</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>Mode of Teaching</td>
<td>Lecture</td>
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<tr>
<td>3</td>
<td>Class</td>
<td>Fourth Year MBBS</td>
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<tr>
<td>4</td>
<td>Learning outcome</td>
<td>Student should be able to:</td>
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<tr>
<td></td>
<td></td>
<td>- Enumerate advantages of breast feeding</td>
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<td></td>
<td></td>
<td>- Describe the physiology</td>
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<td>- Know the importance of early initiation of breast feeding</td>
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<td>- Enlist five steps towards good breast feeding</td>
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<tr>
<td>5</td>
<td>Number of Slides</td>
<td>10-15</td>
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<tr>
<td>6</td>
<td>Interactive Portion</td>
<td>25%</td>
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<tr>
<td>7</td>
<td>Assessment</td>
<td>3 MCQs and 2 Scenarios</td>
</tr>
<tr>
<td>8</td>
<td>Teacher</td>
<td>Assistant Professor / SR</td>
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<tr>
<td>9</td>
<td>Duration of Lecture</td>
<td>One Hour</td>
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<tr>
<td></td>
<td></td>
<td>Lecture 45 Minutes</td>
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<td></td>
<td></td>
<td>Interactive 15 Minutes</td>
</tr>
<tr>
<td>10</td>
<td>Student Feedback Form</td>
<td></td>
</tr>
</tbody>
</table>
1. Topic: **Bacterial Meningitis**
2. Mode of Teaching  
Lecture  
3. Class  
Fourth Year MBBS  
4. Learning outcome  
Student should be able to:
- Define meningitis  
- Enlist common etiological factors according to age  
- Describe pathogenesis and clinical features  
- Plan pertinent investigations, interpret and take appropriate action  
- Make differential diagnosis  
- Monitor for complications  
- Enlist steps of management plan  
- Know immunization against meningitis and prophylaxis against H. influenzae and meningococcus  
5. Number of Slides  
10-15  
6. Pictures  
Meningococcemia  
7. Interactive Portion  
25%  
8. Assessment  
3 MCQs and 2 Scenarios  
9. Teacher  
Assistant Professor / SR  
10. Duration of Lecture  
One Hour  
Lecture  45 Minutes  
Interactive  15 Minutes  
11. Student Feedback Form Growth parameters
Topic: **Tuberculosis**

1. Mode of Teaching
   - Lecture
2. Class
   - Fourth Year MBBS
3. Learning outcome
   - Student should be able to:
     - Define tuberculosis
     - Describe epidemiology and pathogenesis
     - Differentiate various types
     - Plan pertinent investigations, interpret and take appropriate action
     - Apply PPA scoring chart for diagnosis
     - Enlist steps of management plan
     - Know immunization against tuberculosis
4. Number of Slides
   - 10-15
5. Pictures
   - Radiology, Montoux test
6. Interactive Portion
   - 25%
7. Assessment
   - 3 MCQs and 2 Scenarios
8. Teacher
   - Assistant Professor / SR
9. Duration of Lecture
   - One Hour
   - Lecture 45 Minutes
   - Interactive 15 Minutes

10. Student Feedback Form Growth parameters
1. **Topic:** Tuberculous Meningitis
2. **Mode of Teaching:** Lecture
3. **Class:** Fourth Year MBBS
4. **Learning outcome:** Student should be able to:
   - Define
   - Describe epidemiology and pathogenesis
   - Differentiate various stages
   - Plan pertinent investigations, interpret and take appropriate action
   - Enlist steps of management plan
   - Identify complications and know treatment accordingly
5. **Number of Slides:** 10-15
6. **Interactive Portion:** 25%
7. **Assessment:** 3 MCQs and 2 Scenarios
8. **Teacher:** Assistant Professor / SR
9. **Duration of Lecture:** One Hour
   - Lecture 45 Minutes
   - Interactive 15 Minutes
10. **Student Feedback Form Growth parameters**
1. Topic: **Diphtheria**
2. Mode of Teaching: Lecture
3. Class: Fourth Year MBBS
4. Learning outcome: Student should be able to:
   - Know etiology
   - Describe epidemiology and pathogenesis
   - Differentiate various types
   - Plan pertinent investigations, interpret and take appropriate action
   - Enumerate differential diagnosis
   - Enlist steps of management plan
   - Identify complications and know treatment accordingly
   - Know immunization against diphtheria
5. Number of Slides: 10-15
6. Pictures: Types of diphtheria
7. Interactive Portion: 25%
8. Assessment: 3 MCQs and 2 Scenarios
9. Teacher: Assistant Professor / SR
10. Duration of Lecture: One Hour
    - Lecture: 45 Minutes
    - Interactive: 15 Minutes
11. Student Feedback Form Growth parameters
1. Topic: **Pertussis**
2. Mode of Teaching  
   Lecture
3. Class  
   Fourth Year MBBS
4. Learning outcome  
   Student should be able to:
   - Know etiology
   - Describe epidemiology and pathogenesis
   - Discuss three stages of the disease
   - Differentiate clinical features according to age
   - Enumerate differential diagnosis
   - Enlist steps of management plan
   - Plan pertinent investigations, interpret and take appropriate action
   - Identify complications and know treatment accordingly
   - Know immunization against Pertussis
   - Preventive measures
5. Number of Slides  
   10-15
6. Video  
   paroxysmal cough
7. Pictures  
   complications
8. Interactive Portion  
   25%
9. Assessment  
   3 MCQs and 2 Scenarios
10. Teacher  
    Assistant Professor / SR
11. Duration of Lecture  
    One Hour
    - Lecture 45 Minutes
    - Interactive 15 Minutes
12. Student Feedback Form Growth parameters
1. Topic: Malaria
2. Mode of Teaching Lecture
3. Class Fourth Year MBBS
4. Learning outcome Student should be able to:
   • Know etiology
   • Describe epidemiology and pathogenesis
   • Know incubation periods and clinical features according to the type and age
   • Plan pertinent investigations, interpret and take appropriate action
   • Enumerate differential diagnosis
   • Enlist steps of management
   • Identify complications and know treatment accordingly
   • Preventive measures
5. Number of Slides 10-15
6. Interactive Portion 25%
7. Assessment 3 MCQs and 2 Scenarios
8. Teacher Assistant Professor / SR
9. Duration of Lecture One Hour
   Lecture 45 Minutes
   Interactive 15 Minutes
10. Student Feedback Form Growth parameters
1. Topic: Enteric Fever
2. Mode of Teaching: Lecture
3. Class: Fourth Year MBBS
4. Learning outcome: Student should be able to:
   - Define
   - Know etiology
   - Describe epidemiology and pathogenesis
   - Know incubation period and its clinical features according to the age
   - Plan pertinent investigations, interpret and take appropriate action
   - Enumerate differential diagnosis
   - Enlist steps of management
   - Identify complications and know treatment accordingly
   - Preventive measures
5. Number of Slides: 10-15
6. Interactive Portion: 25%
7. Assessment: 3 MCQs and 2 Scenarios
8. Teacher: Assistant Professor / SR
9. Duration of Lecture: One Hour
   - Lecture: 45 Minutes
   - Interactive: 15 Minutes
10. Student Feedback Form Growth parameters
1. Topic: Developmental milestones
2. Mode of Teaching Lecture
3. Class Fourth Year MBBS
4. Learning outcome Student should be able to:
   - Know the developmental milestones according to gross motor, fine motor, vision, hearing, speech and social behavior at different ages.
   - Assess developmental age.
   - Recognise warning signs for developmental delay.
5. Number of Slides 10-15
6. Interactive Portion 20%
7. Assessment 3 MCQs and 2 Scenarios
8. Teacher Assistant Professor / SR
9. Duration of Lecture 45 Minutes
   - Lecture 35 Minutes
   - Interactive 10 Minutes
10. Student Feedback Form
1. Topic: Mental Retardation / Developmental Delay
2. Mode of Teaching: Lecture
3. Class: Fourth Year MBBS
4. Learning outcome: Student should be able to:
   - Define mental retardation and delayed development
   - Enlist common and treatable causes
   - Discuss clinical features
   - Plan pertinent investigations, interpret and take appropriate action
   - Manage
5. Number of Slides: 10-15
6. Interactive Portion: 20%
7. Assessment: 3 MCQs and 2 Scenarios
8. Teacher: Assistant Professor / SR
9. Duration of Lecture: 45 Minutes
   Lecture: 35 Minutes
   Interactive: 10 Minutes
10. Student Feedback Form
1. Topic: **Rickets (Vitamin D Deficiency)**
2. Mode of Teaching: Lecture
3. Class: Fourth Year MBBS
4. Learning outcome: Student should be able to:
   - Know the metabolism of Vitamin D and pathophysiological basis of Rickets
   - Enlist different causes
   - Discuss clinical presentation
   - Plan pertinent investigations, interpret and take appropriate action
   - Manage
5. Number of Slides: 10-15
6. Interactive Portion: 20%
7. Assessment: 3 MCQs and 2 Scenarios
8. Teacher: Assistant Professor / SR
9. Duration of Lecture: 45 Minutes
   - Lecture: 35 Minutes
   - Interactive: 10 Minutes
10. Student Feedback Form
1. Topic: **Thalasaemia**

2. Mode of Teaching
   Lecture

3. Class
   Fourth Year MBBS

4. Learning outcome
   Student should be able to:
   - Define Thalassemia
   - Identify the types and pathophysiology
   - Describe the clinical features
   - Plan pertinent investigations, interpret and take appropriate action
   - Discuss the management of Thalasemia and its complications
   - Do genetic counseling

5. Number of Slides
   10-15

6. Pictures
   Thalasemia facies

7. Radiology
   X-ray Skull

8. Interactive Portion
   20%

9. Assessment
   3 MCQs and 2 Scenarios

10. Teacher
    Assistant Professor / SR

11. Duration of Lecture
    45 Minutes
    Lecture 35 Minutes
    Interactive 10 Minutes

12. Student Feedback Form
1. Topic: **Aplastic Anemia**
2. Mode of Teaching: Lecture
3. Class: Fourth Year MBBS
4. Learning outcome: Student should be able to:
   - Define
   - Enlist the etiology and types
   - Describe the pathophysiology
   - Discuss the clinical features
   - Make differential diagnosis
   - Plan pertinent investigations, interpret and take appropriate action
   - Enumerate complications
   - Manage according to the cause
   - Do counseling of the patients and parents.
5. Number of Slides: 10-15
6. Interactive Portion: 20%
7. Assessment: 3 MCQs and 2 Scenarios
8. Teacher: Assistant Professor / SR
9. Duration of Lecture: 45 Minutes
   - Lecture: 35 Minutes
   - Interactive: 10 Minutes
10. Student Feedback Form
1. **Topic:** Hemophilia
2. **Mode of Teaching:** Lecture
3. **Class:** Fourth Year MBBS
4. **Learning outcome**
   - Define
   - Know the pattern of inheritance
   - Enlist the types and classify according to severity
   - Describe the clinical features and complications
   - Plan pertinent investigations, interpret and take appropriate action
   - Manage and plan prophylaxis
   - Do counseling of the patients and parents.
5. **Number of Slides:** 10-15
6. **Interactive Portion:** 20%
7. **Assessment:** 3 MCQs and 2 Scenarios
8. **Teacher:** Assistant Professor / SR
9. **Duration of Lecture:** 45 Minutes
   - Lecture 35 Minutes
   - Interactive 10 Minutes
10. **Student Feedback Form**
LEARNING OBJECTIVES

DEPARTMENT OF OPHTHALMOLOGY

RAWALPINDI MEDICAL COLLEGE RAWALPINDI
LIST OF TOPICS

1. Disorders of the Lids, Lash and lacrimal system
2. Diseases of Conjunctiva
3. Diseases of Cornea
4. Diseases of Lens
5. Diseases of Uveal Tract
6. Glaucoma
7. Diseases of Vitreo-Retina
8. Diseases of Optic Nerve
9. Diseases of The Orbit
10. Strabismus
11. Ocular Trauma
12. Ocular pharmacology
13. Systemic Disease and Eye
TOPIC: DISORDERS OF EYELIDS, LASH AND LACRIMAL SYSTEM

LEARNING OBJECTIVES:

   At the end of the session student should be capable of

1. Knowing the surgical anatomy and physiology of eyelids and lacrimal system.

2. Diagnosing common eyelid disorders with differentials, lid swelling, blepharitis, Trichiasis, entropion, ectropion, blephroptosis.

MODE OF TEACHING: LECTURES THREE HOURS

   PRACTICAL DEMONSTRATIONS THREE HOURS

   No. OF PICTURES/SLIDES: 10

ASSESSMENT TOOLS: SEQs x 3

   MCQs x 6

   Interactive: ONE HOUR

TEACHER: ASSISTANT PROFESSOR/SR/SENIOR PGT
TOPIC: **DISEASES OF CONJUNCTIVA**

LEARNING OBJECTIVES:

At the end of the session student should be capable of

1. Knowing the anatomy and physiology of conjunctiva.
2. Analyzing the symptoms and signs of conjunctival diseases.
3. Performing clinical methods and ordering relevant lab investigations for conjunctival diseases.
4. Treatment of conjunctival infections and allergies.
5. Describing different surgical procedures of conjunctival disorders.

MODE OF TEACHING: LECTURES TWO HOURS

PRACTICAL DEMONSTRATIONS TWO HOURS

No. OF PICTURES/SLIDES: 8

ASSESSMENT TOOLS: SEQs x 3

MCQs x 6

Interactive: ONE HOUR

TEACHER: ASSISTANT PROFESSOR/SR/SENIOR PGT
TOPIC: CORNEA

LEARNING OBJECTIVES:

At the end of the session student should be capable of

1. Knowing the anatomy and physiology of cornea.
2. Performing clinical methods and clinical tests for corneal disorders.
3. Treatment of corneal infections.
4. Describing different surgical procedures done upon cornea.

MODE OF TEACHING: LECTURES TWO HOURS

PRACTICAL DEMONSTRATIONS TWO HOURS

No. OF PICTURES/SLIDES: 6

ASSESSMENT TOOLS: SEQs x 4

MCQs x 8

Interactive: ONE HOUR

TEACHER: ASSISTANT PROFESSOR/SR/SENIOR PGT
TOPIC: **LENS**

**LEARNING OBJECTIVES:**

At the end of the session student should be capable of

1. Diagnosing cataract.
2. Knowing etiology of secondary cataracts.
3. Treatment options of cataract
4. Pre-op preparation of a cataract patient.
5. Using medicine in post-op period.

**MODE OF TEACHING:** LECTURES TWO HOURS

PRACTICAL DEMONSTRATIONS FOUR HOURS

No. OF PICTURES/SLIDES: 4

**ASSESSMENT TOOLS:** SEQs x 3

MCQs x 6

Interactive: ONE HOUR

**TEACHER:** ASSISTANT PROFESSOR/SR/SENIOR PGT
TOPIC: GLAUCOMA

LEARNING OBJECTIVES:

At the end of the session student should be capable of
1. Knowing definition and pathophysiology of glaucoma.
2. Classifying glaucoma.
3. Knowing the essentials of glaucoma diagnosis
5. Prevention of glaucoma.

MODE OF TEACHING: LECTURES THREE HOURS

PRACTICAL DEMONSTRATIONS TWO HOURS

No. OF PICTURES/SLIDES: 10

ASSESSMENT TOOLS: SEQs x 4

MCQs x 6

Interactive: ONE HOUR

TEACHER: PROFESSOR/ASSISTANT PROFESSOR/SR.
TOPIC: **UVEAL TRACT**

**LEARNING OBJECTIVES:**

At the end of the session student should be capable of

1. Knowing anatomy of uveal tract.
2. Classifying uveitis.
4. Treatment of anterior uveitis.

**MODE OF TEACHING: LECTURES TWO HOURS**

PRACTICAL DEMONSTRATIONS ONE HOUR

No. OF PICTURES/SLIDES: 5

**ASSESSMENT TOOLS: SEQs x 2**

MCQs x 4

Interactive: ONE HOUR

**TEACHER: PROFESSOR/ASSISTANT PROFESSOR/SR.**
TOPIC: VITREORETINA

LEARNING OBJECTIVES:

At the end of the session student should be capable of

1. Knowing anatomy physiology clinical methods and ocular and lab investigations for vitreoretinal disorders.
2. Diagnosing vasculopathies and retinal dystrophies and detachment.
4. Treatment options for diabetic retinopathy.

MODE OF TEACHING: LECTURES TWO HOURS

PRACTICAL DEMONSTRATIONS ONE HOUR

No. OF PICTURES/SLIDES: 10

ASSESSMENT TOOLS: SEQs x 5

MCQs x 8

Interactive: ONE HOUR

TEACHER: PROFESSOR/ASSISTANT PROFESSOR/SR
TOPIC: OPTIC NERVE AND NEURO-OPTHALMOLOGY

LEARNING OBJECTIVES:

At the end of the session student should be capable of:

1. Knowing anatomy and physiology of optic nerve
2. Performing clinical methods and ocular and lab investigations to demonstrate and diagnose disorders of optic nerve, third nerve, forth nerve, sixth nerve and seventh nerve palsies
3. Differentiating between papilledema and papillitis.
4. Treating optic neuritis.

MODE OF TEACHING: LECTURES THREE HOURS

PRACTICAL DEMONSTRATIONS TWO HOUR

No. OF PICTURES/SLIDES: 6

ASSESSMENT TOOLS: SEQS x 4

MCQs x 10

Interactive: ONE HOUR

TEACHER: PROFESSOR/ASSISTANT PROFESSOR/SR
TOPIC: **DISEASES OF THE ORBIT**

LEARNING OBJECTIVES:
At the end of the session student should be capable of:

1. Knowing anatomy of the orbit.
2. Doing orbital examination.
3. Classifying proptosis.
4. Diagnosing and preseptal postseptal cellulitis.

MODE OF TEACHING: LECTURES ONE HOUR

PRACTICAL DEMONSTRATIONS TWO HOUR

No. OF PICTURES/SLIDES: 5

ASSESSMENT TOOLS: SEQs x 3

MCQs x 6

Interactive: ONE HOUR

TEACHER: PROFESSOR/ASSISTANT PROFESSOR/SR
TOPIC: STRABISMUS

LEARNING OBJECTIVES:

At the end of the session student should be capable of:

1. Knowing and demonstrating extra ocular muscle physiology.
2. Performing cover uncover test.
3. Diagnosing eso and exo tropias.
4. Knowing about cycloplegic refractions.
5. Knowing effects an indications of muscle recession and resection.

MODE OF TEACHING: LECTURES TWO HOURS

PRACTICAL DEMONSTRATIONS TWO HOURS

No. OF PICTURES/SLIDES: 4

ASSESSMENT TOOLS: SEQs x 2

MCQs x 6

Interactive: ONE HOUR

TEACHER: PROFESSOR/ASSISTANT PROFESSOR/SR
TOPIC: OCULAR TRAUMA

LEARNING OBJECTIVES:

At the end of the session student should be capable of:

1. Knowing effects and management of blunt trauma to the eye.
3. Identifying orbital floor fracture.
4. Diagnosing intra ocular foreign body and knowing its management.

MODE OF TEACHING: LECTURES TWO HOURS

PRACTICAL DEMONSTRATIONS TWO HOURS

No. OF PICTURES/SIDES: 6

ASSESSMENT TOOLS: SEQs x 3

MCQs x 6

Interactive: ONE HOUR

TEACHER: PROFESSOR/ASSISTANT PROFESSOR/SR
TOPIC: Ocular Pharmocology

Learning Objectives:

At the end of the session student should be capable of:

1. Knowing various roots for ocular therapeutics.
2. Knowing names of commonly used antibiotics, anti inflammatory, intra ocular pressure lowering and diagnostic ocular preparations along with knowledge of dosage and side effects

Mode of Teaching: Lectures One Hour

Practical Demonstrations Three Hours

No. of Pictures/Slides/Packing of Various Eye Preparations: 12

Assessment Tools: SEQs x 2

MCQs x 10

Interactive: One Hour

Teacher: Professor/Assistant Professor/SR/PGT
TOPIC: SYSTEMIC DISEASE AND EYE

LEARNING OBJECTIVES:

At the end of the session student should be capable of:

1. Knowing ocular features of following diseases:

Rheumatoid arthritis, SLE, sjogren syndrome, MARFAN syndrome, sarcoidosis, tuberculosis, AIDS, stevens-johnson syndrome, systemic hypertension, diabetes mellitus, thyrotoxicosis, myasthenia gravis and leukaemia.

MODE OF TEACHING: LECTURES FOUR HOURS

PRACTICAL DEMONSTRATIONS FOUR HOURS

ASSESSMENT TOOLS: SEQs x 5

MCQs x 10

Interactive: ONE HOUR

TEACHER: PROFESSOR/ASSISTANT PROFESSOR/SR

***** THE END *****
ENT HOLY FAMILY HOSPITAL
Topic:  
Anatomy, Physiology, Clinical Examination

Mode of Teaching:  Lecture

Learning Outcomes:
At the end of session students will be able to:
- Explain external and internal anatomy of nose.
- Define the following terms.
  ➢ Osteomeatal complex.
  ➢ Uncinale process
  ➢ Choneaha bullosa
  ➢ Danger trianph.
- Enlist various function of nose.
- How would you examine the nose?

No. of Slides:  20-25
Interactive Portion:  25%
Assessment:  1 MCQ or SEQ
Duration of Lecture:  One hour
  Lecture:  45minutes
  Interactive:  15minutes

Topic:  
Fracture Nose with Complications, Hematoma, Septal Abscess

Mode of Teaching:  Lecture

Learning Outcomes:
At the end of session students will be able to:
- Define the terms fracture hematoma and abscess.
- Enlist causes of nasal bone fracture hematoma and abscess function
- How would you treat nasal bone fracture, septal hematoma and abscess?
- Enumerate the complication of nasal fracture, hematoma and abscess.
- How will you diagnose the above mentioned pathologies?

No. of Slides:  20-25
Interactive Portion:  25%
Assessment:  1 MCQ or SEQ
Duration of Lecture:  One hour
  Lecture:  45minutes
  Interactive:  15minutes
Topic: Epistaxis
Mode of Teaching: Lecture
Learning Outcomes:
At the end of session students will be able to:
- Define epistaxis.
- Classify epistaxis.
- Enlist causes of epistaxis.
- How will you investigate the patient presented with epistaxis?
- How will you manage a case of epistaxis on the basis of history, examination, investigation and treatment?

No. of Slides: 20-25
Interactive Portion: 25%
Assessment: 1 MCQ or SEQ
Duration of Lecture: One hour
Lecture: 45 minutes
Interactive: 15 minutes

Topic: DNS
Mode of Teaching: Lecture
Learning Outcomes:
At the end of session students will be able to:
- Define DNS?
- Enlist common causes of DNS?
- Gives type of DNS?
- How will you take history and perform examination of a patient with DNS?
- Differentiate B/L SMR and Septoplasty.
- Enlist step of Septoplasty.
- Enlist postoperative complications of Septoplasty?

No. of Slides: 20-25
Interactive Portion: 25%
Assessment: 1 MCQ or SEQ
Duration of Lecture: One hour
Lecture: 45 minutes
Interactive: 15 minutes
Topic: Nasal Polyp
Mode of Teaching: Lecture

Learning Outcomes:
At the end of session students will be able to:

- Define the Sino Nasal Polyposis.
- Name the condition related to nasal polyposis?
- What are the main types of nasal polyps?
- What important points in you will ask from the patient of nasal polyposis?
- What is Jamption’s triad?
- How would you examine and investigate the patient of nasal polyposis.
- What are the treatment options in surgical of nasal polyposis patient?

No. of Slides: 20-25
Interactive Portion: 25%
Assessment: 1 MCQ or SEQ
Duration of Lecture: One hour
  Lecture: 45 minutes
  Interactive: 15 minutes

Topic: F. B Nose, Rhinolith, Furuncle
Mode of Teaching: Lecture

Learning Outcomes:
At the end of session students will be able to:

- Define boil nose and name the organism causing furunclosis?
- What are the cases of furuncle nose?
- Enlist clinical features treatment and complication of boil nose.
- Define Rhinolith? Along with its causes.
- How will you diagnosis the patient with Rhinolith.
- Explain management of patient of Rhinolith.

No. of Slides: 20-25
Interactive Portion: 25%
Assessment: 1 MCQ or SEQ
Duration of Lecture: One hour
  Lecture: 45 minutes
  Interactive: 15 minutes
Topic: Rhinitis
Mode of Teaching: Lecture
Learning Outcomes:
At the end of session students will be able to:

- Define Rhinitis and enlist its types.
- Name the organisms causing all types of Rhinitis.
- What are the clinical features in Rhinitis?
- How will you investigate the patient of Rhinitis?
- How will you treat different forms of Rhinitis?
- What are its possible complications?

No. of Slides: 20-25
Interactive Portion: 25%
Assessment: 1 MCQ or SEQ
Duration of Lecture: One hour
Lecture: 45 minutes
Interactive: 15 minutes

Topic: Maxillary Sinusitis with Complications of Sinusitis
Mode of Teaching: Lecture
Learning Outcomes:
At the end of session students will be able to:

- Define Maxillary sinusitis along with types.
- What are the possible causes of Maxillary Sinusitis?
- How a patient does presents.
- Name investigations required.
- How will you treat Maxillary Sinusitis?
- What are different surgical approaches?
- What are possible complications of untreated Maxillary Sinusitis?

No. of Slides: 20-25
Interactive Portion: 25%
Assessment: 1 MCQ or SEQ
Duration of Lecture: One hour
Lecture: 45 minutes
Interactive: 15 minutes
Topic: Surgical Procedure
Mode of Teaching: Lecture
Learning Outcomes:
At the end of session students will be able to:
- Enlist common ENT surgical procedures?
- What are the most commonly performed emergency procedures in ENT.
- What are various types of Myringoplasty?
- What does FESS stands for? And what are its advantages over conventional surgical procedures?

No. of Slides: 20-25
Interactive Portion: 25%
Assessment: 1 MCQ or SEQ
Duration of Lecture: One hour
\[ \text{Lecture: } 45 \text{ minutes} \]
\[ \text{Interactive: } 15 \text{ minutes} \]

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Topic: Tumour of Sinusitis
Mode of Teaching: Lecture
Learning Outcomes:
At the end of session students will be able to:
- Enlist Benign and malignant tumors of sinusitis?
- What are the clinical features of CA maxillary sinuses/ CA ethmoid sinuses?
- How will you proceed before going to surgery?
- What are different types of classification systems?
- Explain TNM staging system for CA Maxillary ethmoid sinuses?
- What are the treatment options and diagnosis?

No. of Slides: 20-25
Interactive Portion: 25%
Assessment: 1 MCQ or SEQ
Duration of Lecture: One hour
\[ \text{Lecture: } 45 \text{ minutes} \]
\[ \text{Interactive: } 15 \text{ minutes} \]
Topic: Allergic Rhinitis
Mode of Teaching: Lecture
Learning Outcomes:
At the end of session students will be able to:
- Define allergic rhinitis along with its clinical types?
- Enlist its causative factors and pathogenesis.
- Enumerate clinical features of allergic rhinitis.
- What are the sign in allergic rhinitis which are related to nose, eyes, ear and throat?
- Enlist investigations required.
- Give treatment options.
- What are the possible complications?

No. of Slides: 20-25
Interactive Portion: 25%
Assessment: 1 MCQ or SEQ
Duration of Lecture: One hour
  Lecture: 45 minutes
  Interactive: 15 minutes

Topic: Juvenile Angiofibroma
Mode of Teaching: Lecture
Learning Outcomes:
At the end of session students will be able to:
- Define juvenile Angiofibroma and name its components.
- Why this tumor is exclusively found in adolescent moles.
- How does the patient present.
- How will you investigate the patient?
- How will you manage the patient of nasopharyngeal Fibroma?
- What are the different approaches in the surgical management of patient?

No. of Slides: 20-25
Interactive Portion: 25%
Assessment: 1 MCQ or SEQ
Duration of Lecture: One hour
  Lecture: 45 minutes
  Interactive: 15 minutes
Topic: Adenoidectomy
Mode of Teaching: Lecture
Learning Outcomes:
At the end of session students will be able to:
- What is waldyer’s sign?
- Where the adenoids are located?
- Enlist sign and symptom of the patient with adenoid hypertrophy?
- How will you examine and investigate the patient.
- Enumerate steps of adenoidectomy.
- Name postoperative complications of procedures.

No. of Slides: 20-25
Interactive Portion: 25%
Assessment: 1 MCQ or SEQ
Duration of Lecture: One hour
   Lecture: 45 minutes
   Interactive: 15 minutes

Topic: Tonsils
Mode of Teaching: Lecture
Learning Outcomes:
At the end of session students will be able to:
- Define tonsils.
- Explain detailed anatomy and physiology of tonsils.
- Name common disorders involving tonsils.
- Define acute tonsillitis its types causative organisms, clinical features and treatment.
- Enlist complications of acute tonsillitis.
- Enlist differential diagnose of membrane over tonsil.
- Write a short note on faucal diphtheria.
- What is chronic tonsillitis give its types clinical feature treatment and complications?
- How would you examine the patient with tonsillitis?
- Enlist diagnose of lingual tonsils.
- What is the most commonly performed elective operation in ENT and enlist indications.
- Write down steps of tonsillectomy.

No. of Slides: 20-25
Interactive Portion: 25%
Assessment: 1 MCQ or SEQ
Duration of Lecture: One hour
   Lecture: 45 minutes
   Interactive: 15 minutes
Topic: Retropharyngeal Abscess
Mode of Teaching: Lecture
Learning Outcomes:
At the end of session students will be able to:
- Define abscess? Define retropharyngeal abscess and its types?
- What are common causes of acute retropharyngeal abscess?
- Enlist clinical features of acute retropharyngeal abscess, and how will you investigate.
- Give treatment options for acute retropharyngeal abscess.
- Write a short note on retropharyngeal abscess.
- Under following leading.
  - Causes.
  - Sign and symptom.
  - Investigation.
  - Treatment.

No. of Slides: 20-25
Interactive Portion: 25%
Assessment: 1 MCQ or SEQ
Duration of Lecture: One hour
  - Lecture: 45 minutes
  - Interactive: 15 minutes

Topic: Tumor, Cleft Lip and Cleft Palate
Mode of Teaching: Lecture
Learning Outcomes:
At the end of session students will be able to:
- Define cleft lip and cleft palate.
- What are some causes of cleft lip and palate?
- Differentiate complete and incomplete cleft lip.
- Describe embryologic feature in regard to formation of cleft lip and palate.
- List initial priorities for managing a new bone with cleft lip and palate.
- Discus airway in new bone with cleft lip and palate.
- What is approach of feeding in infant with cleft lip and palate?
- Discus pathophysiology of middle ear disease in child with cleft lip and palate.
- Where should cleft palate repaired.
- Name common methods cleft palate repair.
- What is valvo pharyngeal insufficiency?
- List postoperative complications of cleft palate repair.

No. of Slides: 20-25
Interactive Portion: 25%
Assessment: 1 MCQ or SEQ
Duration of Lecture: One hour
Lecture: 45 minutes
Interactive: 15 minutes

Topic: Tracheostomy
Mode of Teaching: Lecture
Learning Outcomes:
At the end of session students will be able to:
- Define Tracheostomy, enlist its indications.
- Explain the procedure briefly.
- Enlist complications (possible) after Tracheostomy.
- What should be ideal postoperative care of Tracheostomy?

No. of Slides: 20-25
Interactive Portion: 25%
Assessment: 1 MCQ or SEQ
Duration of Lecture: One hour
Lecture: 45 minutes
Interactive: 15 minutes

Topic: Bronchoscopy
Mode of Teaching: Lecture
Learning Outcomes:
At the end of session students will be able to:
- What is Bronchoscopy, what are its types?
- What are indications of Bronchoscopy?
- Briefly explain the procedure?
- What should be ideal post operative care of Bronchoscopy?
- Enlist complications of Bronchoscopy.
- What precaution should be taken during procedure?

No. of Slides: 20-25
Interactive Portion: 25%
Assessment: 1 MCQ or SEQ
Duration of Lecture: One hour
Lecture: 45 minutes
Interactive: 15 minutes
Topic: **Rhinoplasty**

Mode of Teaching: Lecture

Learning Outcomes:
At the end of session students will be able to:

- What is Rhinoplasty and how common it is?
- How does one analyze the nose preoperatively?
- Define alar collapse. Why is it imp?
- Enlist imp incision used in Rhinoplasty?
- List major support mechanism for nasal tip.
- Name two types of Rhinoplasty, what is “Polly beak” deformity and how does it occur?

**No. of Slides:** 20-25
**Interactive Portion:** 25%
**Assessment:** 1 MCQ or SEQ
**Duration of Lecture:** One hour
  - **Lecture:** 45 minutes
  - **Interactive:** 15 minutes

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Topic: **X-ray, CT Scan, Evaluation**

Mode of Teaching: Lecture

Learning Outcomes:
At the end of session students will be able to:

- What do you mean by X-ray PNS (Woler’s view). What structures seen on this view.
- Which X-ray you would advise a patient with suspected nasal bone fracture.
- On X-ray soft tissue lateral view neck, how would you differentiate between?
  - Adenoids
  - AC Polyp
  - Nasal Angiofibroma
- Write basic radiological investigation with views, you would carryons for suspected F.B Throat?
- Which radiological investigation you would advise for sino nasal polyposis before FESS and why?

**No. of Slides:** 20-25
**Interactive Portion:** 25%
**Assessment:** 1 MCQ or SEQ
**Duration of Lecture:** One hour
  - **Lecture:** 45 minutes
  - **Interactive:** 15 minutes
Topic: Instrument and Evaluation
Mode of Teaching: Lecture

Learning Outcomes:
At the end of session students will be able to:

- Identify the following Instruments.
- Write down the names of instruments used in tonsillectomy and list their functions.
- Write names of some common instruments used in ear surgery and list their function.

No. of Slides: 20-25
Interactive Portion: 25%
Assessment: 1 MCQ or SEQ
Duration of Lecture: One hour
  Lecture: 45 minutes
  Interactive: 15 minutes
ENT BENAZIR BHUTTO HOSPITAL
Topic: Anatomy, Physiology & Clinical Methods of Ear

Mode of Teaching: Lecture

Learning Outcomes:
At the end of session students will be able to:

- At the end of lecture students will be able to know the anatomy and physiology & their clinical importance regarding Ear, nose & throat diseases.

No. of Slides: 15-20
Interactive Portion: 25%
Assessment: 1 MCQ or SEQ
Duration of Lecture: One hour

- Lecture: 45 minutes
- Interactive: 15 minutes

Topic: Pinna

Mode of Teaching: Lecture

Learning Outcomes:
At the end of session students will be able to:

- At the end of lectures the students will understand the clinical anatomy of Pinna and common diseases e.g Pericondritis Keloids, Heamatoma etc.

No. of Slides: 15-20
Interactive Portion: 25%
Assessment: 1 MCQ or SEQ
Duration of Lecture: One hour

- Lecture: 45 minutes
- Interactive: 15 minutes

Topic: External auditory meatus

Mode of Teaching: Lecture

Learning Outcomes:
At the end of session students will be able to:

- At the end of lecture the students will understand clinical anatomy of EAC and diseases like otomycosis, foreign bodies, wax, etc.

No. of Slides: 15-20
Interactive Portion: 25%
Assessment: 1 MCQ or SEQ
Duration of Lecture: One hour

- Lecture: 45 minutes
- Interactive: 15 minutes
Topic: External Auditory Meatus
Mode of Teaching: Lecture
Learning Outcomes:
At the end of session students will be able to:
  • Boil, malignant otitis externa, diffuse otitis externa, keratosis obturans.

No. of Slides: 15-20
Interactive Portion: 25%
Assessment: 1 MCQ or SEQ
Duration of Lecture: One hour
  Lecture: 45 minutes
  Interactive: 15 minutes

Topic: Hearing assessment
Mode of Teaching: Lecture
Learning Outcomes:
At the end of session students will be able to:
  • Define hearing loss / deafness.
  • Enlist common causes of hearing loss.
  • Give types of hearing loss
  • How will you take history and perform examination of a patient with Deafness?
  • Differentiate between conductive & sensorineural hearing loss.
  • Management of hearing loss.

No. of Slides: 15-20
Interactive Portion: 25%
Assessment: 1 MCQ or SEQ
Duration of Lecture: One hour
  Lecture: 45 minutes
  Interactive: 15 minutes

Topic: Acute Otitis Media (AOM)
Mode of Teaching: Lecture
Learning Outcomes:
At the end of session students will be able to:
  • Define AOM.
  • Enlist common causes of AOM.
  • How will you take history and perform examination of a patient with AOM?
  • Differentiate between acute & chronic OM.
  • Management of ASOM.
  • Complications of AOM.
No. of Slides: 15-20
Interactive Portion: 25%
Assessment: 1 MCQ or SEQ
Duration of Lecture: One hour
Lecture: 45 minutes
Interactive: 15 minutes

Topic: Otitis Media with Effusion (OME)
Mode of Teaching: Lecture
Learning Outcomes:
At the end of session students will be able to:

- Define OME.
- Enlist common causes of OME.
- How will you take history and perform examination of a patient with OME?
- Differentiate between acute & chronic SOM and OME.
- Management of OME.
- Complications of OME.

No. of Slides: 15-20
Interactive Portion: 25%
Assessment: 1 MCQ or SEQ
Duration of Lecture: One hour
Lecture: 45 minutes
Interactive: 15 minutes

Topic: Chronic Suppurative Otitis Media (CSOM)
Mode of Teaching: Lecture
Learning Outcomes:
At the end of session students will be able to:

- Define CSOM
- Types of CSOM
- Enlist common causes of CSOM.
- How will you take history and perform examination of a patient with CSOM?
- Differentiate between acute & chronic SOM and OME.
- Management of CSOM
- Complications of CSOM.

No. of Slides: 15-20
Interactive Portion: 25%
Assessment: 1 MCQ or SEQ
Duration of Lecture: One hour
Lecture: 45 minutes
Interactive: 15 minutes

Topic: Complications of COM
Mode of Teaching: Lecture
Learning Outcomes:
- At the end of the lecture the students understand common complications and different surgical operations for the treatment of complicated SOM.

No. of Slides: 15-20
Interactive Portion: 25%
Assessment: 1 MCQ or SEQ
Duration of Lecture: One hour
Lecture: 45 minutes
Interactive: 15 minutes

Topic: Postauricular masses, fistula, preauricular sinus and mastoiditis
Mode of Teaching: Lecture
Learning Outcomes:
- At the end of the lectures the students understand Postauricular masses, fistula, preauricular sinus and mastoiditis and their management.

No. of Slides: 15-20
Interactive Portion: 25%
Assessment: 1 MCQ or SEQ
Duration of Lecture: One hour
Lecture: 45 minutes
Interactive: 15 minutes

Topic: Facial Nerve Paralysis
Mode of Teaching: Lecture
Learning Outcomes:
- Enlist common causes of Facial Nerve Paralysis
- Give types of Facial Nerve Paralysis
- How will you take history and perform examination of a patient with Facial Nerve Paralysis
- Differentiate between supra- nuclear lesion and infra-nuclear lesions.
- Management of Facial Nerve Paralysis

No. of Slides: 15-20
Interactive Portion: 25%
Assessment: 1 MCQ or SEQ
Duration of Lecture: One hour
  Lecture: 45 minutes
  Interactive: 15 minutes

Topic: Otosclerosis
Mode of Teaching: Lecture
Learning Outcomes:
- Define Otosclerosis
- Pathogenesis of Otosclerosis
- Enlist common causes of Otosclerosis
- Give types of Otosclerosis
- How will you take history and perform examination of a patient with Otosclerosis
- Management of Otosclerosis

No. of Slides: 15-20
Interactive Portion: 25%
Assessment: 1 MCQ or SEQ
Duration of Lecture: One hour
  Lecture: 45 minutes
  Interactive: 15 minutes

Topic: Meniere’s Disease
Mode of Teaching: Lecture
Learning Outcomes:
- Define Meniere’s disease.
- Pathogenesis of Meniere’s disease
- Enlist common causes of Meniere’s disease
- How will you take history and perform examination of a patient with Meniere’s disease.
- Management of Meniere’s disease

No. of Slides: 15-20
Interactive Portion: 25%
Assessment: 1 MCQ or SEQ
Duration of Lecture: One hour
  Lecture: 45 minutes
  Interactive: 15 minutes
Topic: Instrument, X-ray, SEQS & MCQs
Mode of Teaching: Lecture
Learning Outcomes:
- Identify instruments of ENT
- Diagnose ENT diseases on x rays

No. of Slides: 15-20
Interactive Portion: 25%
Assessment: 1 MCQ or SEQ
Duration of Lecture: One hour
  Lecture: 45 minutes
  Interactive: 15 minutes

Topic: Anatomy, Physiology & Examination of Larynx
Mode of Teaching: Lecture
Learning Outcomes:
- At the end of lecture students will be able to know the anatomy and physiology & their clinical importance regarding larynx diseases.

No. of Slides: 15-20
Interactive Portion: 25%
Assessment: 1 MCQ or SEQ
Duration of Lecture: One hour
  Lecture: 45 minutes
  Interactive: 15 minutes

Topic: Laryngomalacia & Epiglottitis
Mode of Teaching: Lecture
Learning Outcomes:
- Define Laryngomalacia & Epiglottitis
- Enlist common causes of Laryngomalacia & Epiglottitis
- How will you take history and perform examination of a patient with Laryngomalacia & Epiglottitis
- Management of Laryngomalacia & Epiglottitis
- Complications of Laryngomalacia & Epiglottitis

No. of Slides: 15-20
Interactive Portion: 25%
Assessment: 1 MCQ or SEQ
Duration of Lecture: One hour
  Lecture: 45 minutes
  Interactive: 15 minutes
Topic: Hoarseness
Mode of Teaching: Lecture
Learning Outcomes:
- Define Hoarseness
- Enlist common causes of Hoarseness
- How will you take history and perform examination of a patient with Hoarseness
- Management of Hoarseness

No. of Slides: 15-20
Interactive Portion: 25%
Assessment: 1 MCQ or SEQ
Duration of Lecture: One hour
  Lecture: 45 minutes
  Interactive: 15 minutes

Topic: Carcinoma larynx
Mode of Teaching: Lecture
Learning Outcomes:
- Enlist common causes of C.A. Larynx
- Give types of C.A. Larynx
- How will you take history and perform examination of a patient with C.A. Larynx
- Management of C.A. Larynx
- Rehabilitation of post laryngectomized patient

No. of Slides: 15-20
Interactive Portion: 25%
Assessment: 1 MCQ or SEQ
Duration of Lecture: One hour
  Lecture: 45 minutes
  Interactive: 15 minutes

Topic: Oesophagus & oral cavity
Mode of Teaching: Lecture
Learning Outcomes:
- At the end of the lecture the students understand anatomy, physiology, clinical features of oesophageal and oral cavity diseases.

No. of Slides: 15-20
Interactive Portion: 25%
Assessment: 1 MCQ or SEQ
Duration of Lecture: One hour  
**Lecture:** 45 minutes  
**Interactive:** 15 minutes

**Topic:** Dysphagia & Plummer Vinson Syndrome  
**Mode of Teaching:** Lecture  
**Learning Outcomes:**  
- Define Dysphagia  
- Enlist common causes of Dysphagia  
- Give types of Dysphagia  
- How will you take history and perform examination of a patient with Dysphagia  
- Management of Dysphagia  

**No. of Slides:** 15-20  
**Interactive Portion:** 25%  
**Assessment:** 1 MCQ or SEQ  
**Duration of Lecture:** One hour  
**Lecture:** 45 minutes  
**Interactive:** 15 minutes

**Topic:** Oral cavity ulcers  
**Mode of Teaching:** Lecture  
**Learning Outcomes:**  
- Define ulcer  
- Enlist common causes of oral ulcer  
- Give types of oral ulcer  
- How will you take history and perform examination of a patient with oral ulcer  
- Management of oral ulcers  

**No. of Slides:** 15-20  
**Interactive Portion:** 25%  
**Assessment:** 1 MCQ or SEQ  
**Duration of Lecture:** One hour  
**Lecture:** 45 minutes  
**Interactive:** 15 minutes

**Topic:** Oral cavity ulcers  
**Mode of Teaching:** Lecture  
**Learning Outcomes:**  
- Define ulcer
• Enlist common causes of oral ulcer
• Give types of oral ulcer
• How will you take history and perform examination of a patient with oral ulcer
• Management of oral ulcers

No. of Slides: 15-20
Interactive Portion: 25%
Assessment: 1 MCQ or SEQ
Duration of Lecture: One hour
   Lecture: 45 minutes
   Interactive: 15 minutes
DEPARTMENT OF MEDICAL EDUCATION
RMC /Allied Hospitals, Rawalpindi
4th year Learning Outcome 2015

DEPARTMENT OF COMMUNITY MEDICINE

Topic: Introduction to the Subject
Teacher: Prof. Dr. Abida Sultana (HOD)
No. of Lectures: 01
Learning Outcomes:
At the end of session students will be able to:
1. Comprehend the significance of the subject.
2. Differentiate between Community Medicine, Public Health, Preventive Medicine and Clinical Medicine.
3. Explain the history and revolution of medicine.

Topic: Infectious disease definitions
Name of Teacher: Prof. Dr. Abida Sultana (HOD)
No. of Lectures: 02
Learning Outcomes:
At the end of session students will be able to:
1. Differentiate various terminologies used in epidemiology of infectious diseases.
2. Comprehend Concept of Disease control, elimination & eradication.

Topic: Dynamics of Disease Transmission
Name of Teacher: Prof. Dr. Abida Sultana (HOD)
No. of Lectures: 02
Learning Outcomes:
At the end of session students will be able to:
1. Identify various modes of transmission of infectious diseases.
2. Enlist different kinds of carriers.
3. Apply the attained knowledge in epidemiology of infectious diseases

Name of Teacher: Prof. Dr. Abida Sultana (HOD)
Topic: Reproductive Health (Excluding Child Health)
No. of Lectures: 06
Learning Outcomes:
At the end of session students will be able to:
1. Comprehend the rationale of Reproductive health.
2. Explain the logic behind application of different preventive measures in various phases of life to improve the Maternal Health.
3. Relate the association between the Maternal Health status and the outcome of pregnancy.
4. Relate the factors that contribute to increase MMR with the interventions for its control.

Topic: Environment (Water, air, Soil, noise, Radiation, Temperature, Green House effect) Excluding Water related Diseases
Name of Teacher: Dr. Fazal Mahmood (Senior Demonstrator)
No. of Lectures: 06
Learning Outcomes:
At the end of session students will be able to:

1. Comprehend the concept of different types of environment, physical, biological & especially psychosocial which is getting important in this complex socioeconomic situation.

Topic: Medical Sociology (including Eugenics)
Name of Teacher: Dr. Rahim Iqbal (APMO)
No. of Lectures: 02

Learning Outcomes:
At the end of session students will be able to:

1. Classify the genetic disorders.
2. Relate the normal structural & functional knowledge of genetics with the risk factors and prevention of common genetic disorders.
3. Explain the significance of early diagnosis and subsequent management of common genetic disorders.

Topic: STD/AIDS
Name of Teacher: Dr. Rahim Iqbal (APMO)
No. of Lectures: 02

Learning Outcomes:
At the end of session students will be able to:

1. Classify common sexually transmitted infections.
2. Describe the epidemiology of STIs and measures for the prevention of these diseases.

Topic: Vector borne diseases
Name of Teacher: Dr. Rahim Iqbal (APMO)
No. of Lectures: 03

Learning Outcomes:
At the end of session students will be able to:

1. Explain the basic knowledge of the arthropod borne diseases transmitted by the vectors, sign and symptoms of the diseases, lab diagnosis of the diseases.
2. Explain the prevention in the Individual and at mass level.

Topic: Hospital Administration
Name of Teacher: Dr. Yusuf Aziz (APMO)
No. of Lectures: 01

Learning Outcomes:
At the end of session students will be able to:

1. Comprehend the significance and working of hospitals under administrative hierarchical system.

Topic: Hospital Waste Management
Name of Teacher: Dr. Yusuf Aziz (APMO)
No. of Lectures: 01

Learning Outcomes:
At the end of session students will be able to:
1. Discuss importance of their segregation and colour coding for different types of waste.
2. Explain the purpose of segregation and waste destination

**Topic:** Disasters/Accidents  
**Name of Teacher:** Dr. Maqsood Hayat (Senior Demonstrator)  
**No. of Lectures:** 02  
**Learning Outcomes:**  
At the end of session students will be able to:  
1. Define disaster and Classify disasters.  
2. Explain the measurement tools to measure the magnitude of the disasters, Grading the disasters i.e. rating according to number causalities.  
3. Explain Disaster cycle.  
4. Elaborate Disaster management program.

**Topic:** Obesity  
**Name of Teacher:** Dr. Maqsood Hayat (Senior Demonstrator)  
**No. of Lectures:** 01  
**Learning Outcomes:**  
At the end of session students will be able to:  
1. Classify obesity on the basis of BMI.  
2. Relate Immediate and delayed Hazards of Obesity with different methods of prevention and control.  
3. Explain different methods of assessment of obesity

**Topic:** Nutrition  
**Name of Teacher:** Dr. Maqsood Hayat (Senior Demonstrator)  
**No. of Lectures:** 05  
**Learning Outcomes:**  
At the end of session students will be able to:  
1. Define the terminologies used in relation to food & nutrition.  
2. Explain the importance of minerals and vitamins.  
3. Construct the balanced diet.  
4. Explain the factors affecting energy requirement.  
5. Describe the nutritional problems related to public health with emphasis on PEM.  
6. Explain the aims and methods of nutritional assessment in a community

**Topic:** Epidemiology  
**Name of Teacher:** Dr. Abdul Rehman(Senior Demonstrator)  
**No. of Lectures:** 08  
**Learning Outcomes:**  
At the end of session students will be able to:  
1. Differentiate between epidemiology & clinical medicine.  
2. Differentiate between epidemiological transition and polarization.  
3. Enlist the tools of measurements in epidemiology and explain their application in epidemiological studies.
4. Compare the utility and pros & cons of different study designs in epidemiology.
5. Describe and differentiate the types of Bias and the techniques for its minimization in different study designs.
6. Differentiate between the concept of association & causation in epidemiological studies.

**Biostatistics**

Name of Teacher: Dr. Abdul Rehman (Senior Demonstrator)

No. of Lectures: 04

**Learning Outcomes:**

At the end of session students will be able to:

1. Enlist Sources of statistical data in Pakistan.
2. Explain the system of data collection particularly in Pakistan.
3. Interpret various types of data, its measurement and its presentation.
4. Differentiate b/w cumulative & relative frequency.
5. Explain the significance of various measures of central tendency, dispersion & normal distribution curve.

**Screening**

Name of Teacher: Dr. Iffat Tehseen (APWMO)

No. of Lectures: 02

**Learning Outcomes:**

At the end of session students will be able to:

1. Explain the concept and significance of screening and iceberg phenomenon and evaluate a screening test.

**Sampling**

Name of Teacher: Dr. Iffat Tehseen (APWMO)

No. of Lectures: 01

**Learning Outcomes:**

At the end of session students will be able to:

1. Explain the concept of sampling and classify its various types.

**Health Care System**

Name of Teacher: Dr. Iffat Tehseen (APWMO)

No. of Lectures: 02

**Learning Outcomes:**

At the end of session students will be able to:

1. Differentiate between health care and health care system.
2. Explain a medical team.
3. Differentiate various sectors of health system and its functioning.
4. Differentiate various levels of health care facility.

**Immunology**

Name of Teacher: Dr. Iffat Tehseen (APWMO)

No. of Lectures: 02

**Learning Outcomes:**
At the end of session students will be able to:

1. Define immunology.
2. Explain immune system, immunity and its types with examples.
3. Differentiate among various types of immunity.
4. Discuss pre-requisites of vaccination like cold chain, hazards, contra-indications & precautions etc.
5. Explain common vaccines and immunoglobulins including EPI vaccines with reference to their schedule, mode of administration, dosage, indications and contra-indications etc.

**Topic:** Immunology  
**Name of Teacher:** Dr.IffatTehseen(APWMO)  
**No. of Lectures:** 04  
**Learning Outcomes:**
At the end of session students will be able to:

1. Define immunology.
2. Explain immune system, immunity and its types with examples.
3. Differentiate among various types of immunity.
4. Discuss pre-requisites of vaccination like cold chain, hazards, contra-indications & precautions etc.
5. Explain common vaccines and immunoglobulins including EPI vaccines with reference to their schedule, mode of administration, dosage, indications and contra-indications etc.

**Topic:** Occupational Health  
**Name of Teacher:** Dr.Farhan Hassan (Demonstrator)  
**No. of Lectures:** 04  
**Learning Outcomes:**
At the end of session students will be able to:

1. Enlist different hazardous occupations, different type of physical chemical and biological hazards and the diseases they produce.
2. Comprehend the Concept of ergonomics, Pneumoconiosis and occupational poisoning & its causes.
3. Explain different strategies for disease control and prevention in different occupations and exposures.
4. Enumerate hazards of industrialization.

**Topic:** Droplet Infections  
**Name of Teacher:** Dr.Farhan Hassan (Demonstrator)  
**No. of Lectures:** 04  
**Learning Outcomes:**
At the end of session students will be able to:

1. Explain different modes of disease transmission, interaction of agent host and environment in the pre & pathogenesis phases.
2. Discuss different strategies for disease control and prevention for every specific disease and in different situations.
DEPARTMENT OF MEDICAL EDUCATION
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Topic: NGOs
Name of Teacher: Dr. Farhan Hassan (Demonstrator)
No. of Lectures: 01
Learning Outcomes:
At the end of session students will be able to:
1. Enlist important international health agencies.
2. Explain composition and functions of different International Health agencies.
3. Comprehend the concepts of international day’s celebrations.

Topic: Demography/Migration
Name of Teacher: Dr. Sidrah Nasim (Demonstrator)
No. of Lectures: 04
Learning Outcomes:
At the end of session students will be able to:
1. Explain the terms Demography, population composition, demographic processes like fertility, mortality and migration with examples.
2. Interpret population pyramids of given countries.
3. Explain Demographic, fertility and epidemiological transition.
4. Differentiate between Demographic trap & population momentum.
5. Define the terms giving examples, Sex ratio, dependency ratio, density of population, family size, fertility trends and their effect on population.

Topic: Snake Bite
Name of Teacher: Dr. Sidrah Nasim (Demonstrator)
No. of Lectures: 01
Learning Outcomes:
At the end of session students will be able to:
1. Describe various types of snakes in Pakistan and explain the management of a case of Snake Bite.

Topic: School health services
Name of Teacher: Dr. Sidrah Nasim (Demonstrator)
No. of Lectures: 01
Learning Outcomes:
At the end of session students will be able to:
1. Comprehend the significance of school health service and various facilities provided.

Topic: Breast Feeding
Name of Teacher: Dr. Afifa Kulsoom (Demonstrator)
No. of Lectures: 01
Learning Outcomes:
At the end of session students will be able to:
1. Explain the significance of breast feeding and identify various benefits of breast feeding to mother as well as newborn.

2. Topic: Family Planning
Name of Teacher: Dr. Afifa Kulsoom (Demonstrator)
No. of Lectures: 02
Learning Outcomes:
At the end of session students will be able to:

1. Explain the significance of family planning and differentiate various Family planning methods giving pros & cons of each.

Topic: GIT (Hepatitis, Cholera, Polio, typhoid, diarrheal, food poisoning)
Name of Teacher: Dr.AfifaKulsoom(Demonstrator)
No. of Lectures: 04

Learning Outcomes:
At the end of session students will be able to:

1. Explain different modes of disease transmission, interaction of agent host and environment in the pre & pathogenesis phases.
2. Discuss different strategies for disease control and prevention for every specific disease and in different situations.

Topic: National Health Programs
Name of Teacher: Dr.AfifaKulsoom(Demonstrator)
No. of Lectures: 01

Learning Outcomes:
At the end of session students will be able to:

1. Enlist various National Health Programs giving their significance.

Topic: Indicators of Health
Name of Teacher: Dr.Sana Bilal (Demonstrator)
No. of Lectures: 01

Learning Outcomes:
At the end of session students will be able to:

1. Define and classify indicators.
2. Explain the important characteristics of good quality indicators.

Topic: Non Communicable Diseases(NCDs)
Name of Teacher: Dr. Sana Bilal (Demonstrator)
No. of Lectures: 02

Learning Outcomes:
At the end of session students will be able to:

1. Enlist common Non Communicable Diseases of Public Health importance.
2. Enlist common risk factors responsible for diseases.
3. Explain preventive measures for NCDs.

Topic: Smoking & Health
Name of Teacher: Dr. Sana Bilal (Demonstrator)
No. of Lectures: 01

Learning Outcomes:
At the end of session students will be able to:

1. Enlist the common diseases/hazards resulting due to smoking.
2. Explain important preventive measures for smoking behavior.

**Topic:** Sewerage System  
**Name of Teacher:** Dr. Sana Bilal (Demonstrator)  
**No. of Lectures:** 02  
**Learning Outcomes:**  
At the end of session students will be able to:  
1. Enlist various Types of waste and the hazards related to them.  
2. Explain Different methods of waste disposal.  
3. Enlist Different diseases due to waste and discuss their prevention.

**Topic:** HMIS  
**Name of Teacher:** Dr. Sana Bilal (Demonstrator)  
**No. of Lectures:** 01  
**Learning Outcomes:**  
At the end of session students will be able to:  
1. Comprehend the significance of HMIS.  
2. Enlist methods of medical record keeping.

**Topic:** Concept of Health & Disease  
**Name of Teacher:** Dr. Sayema Awais (PGT)  
**No. of Lectures:** 04  
**Learning Outcomes:**  
At the end of session students will be able to:  
1. Define health and enlist its determinants and indicators.  
2. Differentiate various Theories of disease causation.  
3. Explain natural history of disease and concept of iceberg phenomena.  
4. Interpret levels of prevention and intervention measures with applied examples.

**Topic:** Child Health  
**Name of Teacher:** Dr. Sayema Awais (PGT)  
**No. of Lectures:** 01  
**Learning Outcomes:**  
At the end of session students will be able to:  
2. Identify at risk infants.  

**Topic:** Handicapped  
**Name of Teacher:** Dr. Sayema Awais (PGT)  
**No. of Lectures:** 01  
**Learning Outcomes:**  
At the end of session students will be able to:  
1. Define and Classify Handicapped.
2. Explain rehabilitative measures for handicapped.

**Topic:** Drug Abuse/Alcoholism  
**Name of Teacher:** Dr. Sonia Alamgir (Demonstrator)  
**No. of Lectures:** 02  
**Learning Outcomes:**  
At the end of session students will be able to:  
1. Differentiate the terms, drug abuse, drug dependence, drugs addiction and drug tolerance.  
2. Discuss the Preventive measures and the situation of the drugs addiction in Pakistan.

**Topic:** Health Education  
**Name of Teacher:** Dr. Sonia Alamgir (Demonstrator)  
**No. of Lectures:** 03  
**Learning Outcomes:**  
At the end of session students will be able to:  
1. Define health education.  
2. Discuss phases of Health  
3. Education.Relate the approaches & principles to the scope of health education in health promotion of the community.  
4. Explain communication process

**Topic:** Sterilization /Disinfection  
**Name of Teacher:** Dr. Sonia Alamgir (Demonstrator)  
**No. of Lectures:** 02  
**Learning Outcomes:**  
At the end of session students will be able to:  
1. Differentiate between sterilization and disinfection.  
2. Explain common methods used in this regard.

**Topic:** Water related diseases  
**Name of Teacher:** Dr. Bushra Anwar (PGT)  
**No. of Lectures:** 01  
**Learning Outcomes:**  
At the end of session students will be able to:  
1. Enlist and classify water related diseases.  
2. Explain common preventive measures for water related diseases.

**Topic:** Dengue Fever  
**Name of Teacher:** Dr. Bushra Anwar (PGT)  
**No. of Lectures:** 01  
**Learning Outcomes:**  
At the end of session students will be able to:  
1. Differentiate between dengue fever, dengue hemorrhagic fever and dengue shock syndrome.  
2. Describe epidemiology of Dengue fever.  
3. Explain preventive measures for dengue fever.
**DEPARTMENT OF MEDICAL EDUCATION**  
**RMC /Allied Hospitals, Rawalpindi**  
**4th year Learning Outcome 2015**

**Topic:** Health Research Methodology  
**Name of Teacher:** Dr. Bushra Anwar (PGT)  
**No. of Lectures:** 02  
**Learning Outcomes:**  
At the end of session students will be able to:  
1. Explain various steps/components involved in research process.  
2. Get acquainted with the research ethics.  
3. Distinguish between research question and research objective.  
4. Elaborate different data collection tools & techniques.  
5. Explain the research methods in terms of research design, setting, inclusion & exclusion criteria etc.  
6. Describe different methods to analyze the data.  

**Topic:** Medical Parasitology  
**Name of Teacher:** Dr. Bushra Anwar (PGT)  
**No. of Lectures:** 02  
**Learning Outcomes:**  
At the end of session students will be able to:  
1. Enlist common parasites of public health importance.  
2. Explain preventive measures in this regard.

**Topic:** Emporiatrics  
**Name of Teacher:** Dr. Mehjabeen Qureshi (WMO/PGT)  
**No. of Lectures:** 01  
**Learning Outcomes:**  
At the end of session students will be able to:  
1. Define and explain significance of Emporiatrics.  
2. Enlist important diseases in this regard.

**Topic:** Primary Health Care/MDGs  
**Name of Teacher:** Dr. Mehjabeen Qureshi (WMO/PGT)  
**No. of Lectures:** 02  
**Learning Outcomes:**  
At the end of session students will be able to:  
1. Comprehend the changing concept of health.  
2. Explain the health for all, Principles of Primary health care and components/elements.  
3. Explain Millennium Development Goals.  
4. Explain the concept of leadership and the role of leadership in PHC.  
5. Differentiate between comprehensive and selective PHC.

**Topic:** Entomology  
**Name of Teacher:** Dr. Mehjabeen Qureshi (WMO/PGT)  
**No. of Lectures:** 02  
**Learning Outcomes:**
At the end of session students will be able to:

1. Enlist common arthropods of public health importance.
2. Enlist common diseases spread by them.
3. Explain preventive measures in this regard.

**Topic:** Health Planning/Management  
**Name of Teacher:** Dr.Omera Naseer (PGT)  
**No. of Lectures:** 01  
**Learning Outcomes:**  
At the end of session students will be able to:  
1. Explain Different stages of planning with examples, such as Situation analysis, Establishment of objectives and goals, Assessment of resources, Fixing Priorities, Plan outline, Programming and implementation, Monitoring and Evaluation.

**Topic:** Zoonotic Diseases  
**Name of Teacher:** Dr. Omera Naseer (PGT)  
**No. of Lectures:** 03  
**Learning Outcomes:**  
At the end of session students will be able to:  
1. Comprehend about agent, host and environmental interaction, clinical features epidemiology, mode of transmission, incubation period of zoonotic diseases.  
2. Explain prevention & control of the zoonotic diseases.

**Topic:** Emerging/Re-emerging Infections  
**Name of Teacher:** Dr. Omera Naseer (PGT)  
**No. of Lectures:** 01  
**Learning Outcomes:**  
At the end of session students will be able to:  
1. Differentiate between emerging and re-emerging infections.  
2. Enlist important diseases and preventive measures in this regard.

**Topic:** Geriatrics  
**Name of Teacher:** Dr. Muneeba Faisal (PGT)  
**No. of Lectures:** 01  
**Learning Outcomes:**  
At the end of session students will be able to:  
1. Explain the concept of geriatrics.  
2. Enlist the Problems and diseases of the old age.  
3. Explain the preventive measures at different levels of prevention.

**Topic:** Mental & Dental Health/Personal Hygiene  
**Name of Teacher:** Dr. Muneeba Faisal (PGT)  
**No. of Lectures:** 01  
**Learning Outcomes:**  
At the end of session students will be able to:
1. Enlist Common mental health problems.
2. Relate the causes of mental health problems with the various strategies for prevention.
3. Enumerate Characteristics of a mentally healthy person.

**Topic:** Social Evils  
**Name of Teacher:** Dr. Muneeba Faisal (PGT)  
**No. of Lectures:** 01  
**Learning Outcomes:**  
At the end of session students will be able to:  
1. Elaborate social evils of the society such as prostitution, delinquency, religious differences and food adulteration.  
2. Explain the prevention from these evils.

**Topic:** Housing / Camp sanitation/Slums  
**Name of Teacher:** Dr. Muneeba Faisal (PGT)  
**No. of Lectures:** 01  
**Learning Outcomes:**  
At the end of session students will be able to:  
1. Comprehend public health significance of housing, camp sanitation and slums.  
2. Enlist health problems and preventive measures in this regard.
DEPARTMENT OF ENT HOLY FAMILY HOSPITAL

Topic: Anatomy, Physiology, Clinical Examination
Mode of Teaching: Lecture
No. of Slides: 20-25
Interactive Portion: 25%
Assessment: 1 MCQ or SEQ
Duration of Lecture: One hour
Lecture: 45 minutes
Interactive: 15 minutes

Learning Outcomes:
At the end of session students will be able to:
1. Explain external and internal anatomy of nose.
2. Define the following terms.
   - Osteomeatal complex.
   - Uncinale process
   - Choneahabullosa
   - Danger triangh.
3. Enlist various function of nose.
4. How would you examine the nose?

Topic: Fracture Nose with Complications, Hematoma, Septal Abscess
Mode of Teaching: Lecture
No. of Slides: 20-25
Interactive Portion: 25%
Assessment: 1 MCQ or SEQ
Duration of Lecture: One hour
Lecture: 45 minutes
Interactive: 15 minutes

Learning Outcomes:
At the end of session students will be able to:
- Define the terms fracture hematoma and abscess.
- Enlist causes of nasal bone fracture hematoma and abscess function
- How would you treat nasal bone fracture, septal hematoma and abscess?
- Enumerate the complication of nasal fracture, hematoma and abscess.
- How will you diagnose the above mentioned pathologies?

Topic: Epistaxis
Mode of Teaching: Lecture
No. of Slides: 20-25
Interactive Portion: 25%
Assessment: 1 MCQ or SEQ
Duration of Lecture: One hour
Lecture: 45 minutes
Learning Outcomes:
At the end of session students will be able to:
- Define epistaxis.
- Classify epistaxis.
- Enlist causes of epistaxis.
- How will you investigate the patient presented with epistaxis?
- How will you manage a case of epistaxis on the basis of history, examination, investigation and treatment?

Topic: DNS
Mode of Teaching: Lecture
No. of Slides: 20-25
Interactive Portion: 25%
Assessment: 1 MCQ or SEQ
Duration of Lecture: One hour

Learning Outcomes:
At the end of session students will be able to:
- Define DNS?
- Enlist common causes of DNS?
- Gives type of DNS?
- How will you take history and perform examination of a patient with DNS?
- Differentiate B/L SMR and Septoplasty.
- Enlist step of Septoplasty.
- Enlist postoperative complications of Septoplasty?

Topic: Nasal Polyp
Mode of Teaching: Lecture
No. of Slides: 20-25
Interactive Portion: 25%
Assessment: 1 MCQ or SEQ
Duration of Lecture: One hour

Learning Outcomes:
At the end of session students will be able to:
- Define the Sino Nasal Polyposis.
- Name the condition related to nasal polyposis?
- What are the main types of nasal polyps?
- What important points in you will ask from the patient of nasal polyposis?
• What is jamption’s triad?
• How would you examine and investigate the patient of nasal polyposis.
• What are the treatment options in surgical of nasal polyposis patient?

Topic: F. B Nose, Rhinolith, Furuncle
Mode of Teaching: Lecture
Interactive Portion: 25%
Assessment: 1 MCQ or SEQ
Duration of Lecture: One hour

Lecture: 45 minutes
Interactive: 15 minutes

Learning Outcomes:
At the end of session students will be able to:
• Define boil nose and name the organism causing furunclosis?
• What are the cases of furuncle nose?
• Enlist clinical features treatment and complication of boil nose.
• Define Rhinolith? Along with its causes.
• How will you diagnosis the patient with Rhinolith.
• Explain management of patient of Rhinolith.

No. of Slides: 20-25

Topic: Rhinitis
Mode of Teaching: Lecture
No. of Slides: 20-25
Interactive Portion: 25%
Assessment: 1 MCQ or SEQ
Duration of Lecture: One hour

Lecture: 45 minutes
Interactive: 15 minutes

Learning Outcomes:
At the end of session students will be able to:
• Define Rhinitis and enlist its types.
• Name the organisms causing all types of Rhinitis.
• What are the clinical features in Rhinitis?
• How will you investigate the patient of Rhinitis?
• How will you treat different forms of Rhinitis?
• What are its possible complications?

Topic: Maxillary Sinusitis with Complications of Sinusitis
Mode of Teaching: Lecture
No. of Slides: 20-25
Interactive Portion: 25%
Assessment: 1 MCQ or SEQ
Duration of Lecture: One hour

Lecture: 45 minutes
Learning Outcomes:
At the end of session students will be able to:
- Define Maxillary sinusitis along with types.
- What are the possible causes of Maxillary Sinusitis?
- How a patient does presents.
- Name investigations required.
- How will you treat Maxillary Sinusitis?
- What are different surgical approaches?
- What are possible complications of untreated Maxillary Sinusitis?

Topic: Surgical Procedure
Mode of Teaching: Lecture
No. of Slides: 20-25
Interactive Portion: 25%
Assessment: 1 MCQ or SEQ
Duration of Lecture:
  Lecture: 45 minutes
  Interactive: 15 minutes

Learning Outcomes:
At the end of session students will be able to:
- Enlist common ENT surgical procedures?
- What are the most commonly performed emergency procedures in ENT.
- What are various types of Myringoplasty?
- What does FESS stands for? And what are its advantages over conventional surgical procedures?

Topic: Tumour of Sinusitis
Mode of Teaching: Lecture
No. of Slides: 20-25
Interactive Portion: 25%
Assessment: 1 MCQ or SEQ
Duration of Lecture:
  Lecture: 45 minutes
  Interactive: 15 minutes

Learning Outcomes:
At the end of session students will be able to:
- Enlist Benign and malignant tumors of sinusitis?
- What are the clinical features of CA maxillary sinuses/ CA ethmoid sinuses?
- How will you proceed before going to surgery?
- What are different types of classification systems?
- Explain TNM staging system for CA Maxillary ethmoid sinuses?
- What are the treatment options and diagnosis?
### Learning Outcomes:

#### Topic: Allergic Rhinitis

**Mode of Teaching:** Lecture  
**No. of Slides:** 20-25  
**Interactive Portion:** 25%  
**Assessment:** 1 MCQ or SEQ  
**Duration of Lecture:** One hour  
- Lecture: 45 minutes  
- Interactive: 15 minutes

#### Learning Outcomes:

At the end of session students will be able to:
- Define allergic rhinitis along with its clinical types?  
- Enlist its causative factors and pathogenesis.  
- Enumerate clinical features of allergic rhinitis.  
- Define allergic rhinitis along with its clinical types?  
- Enlist its causative factors and pathogenesis.  
- What are the sign in allergic rhinitis which are related to nose, eyes, ear and throat?  
- Enlist investigations required.  
- Give treatment options.  
- What are the possible complications?

### Topic: Juvenile Angiofibroma

**Mode of Teaching:** Lecture  
**No. of Slides:** 20-25  
**Interactive Portion:** 25%  
**Assessment:** 1 MCQ or SEQ  
**Duration of Lecture:** One hour  
- Lecture: 45 minutes  
- Interactive: 15 minutes

#### Learning Outcomes:

At the end of session students will be able to:
- Define juvenile Angiofibroma and name its components.  
- Why this tumor is exclusively found in adolescent moles.  
- How does the patient present.  
- How will you investigate the patient?  
- How will you manage the patient of nasopharyngeal Fibroma?  
- What are the different approaches in the surgical management of patient?

### Topic: Adenoidectomy

**Mode of Teaching:** Lecture  
**No. of Slides:** 20-25  
**Interactive Portion:** 25%  
**Assessment:** 1 MCQ or SEQ  
**Duration of Lecture:** One hour  
- Lecture: 45 minutes  
- Interactive: 15 minutes

#### Learning Outcomes:
At the end of session students will be able to:

- What is Waldyer’s sign?
- Where the adenoids are located?
- Enlist sign and symptom of the patient with adenoid hypertrophy?
- How will you examine and investigate the patient.
- Enumerate steps of adenoidectomy.
- Name postoperative complications of procedures.

### Tonsils

**Mode of Teaching:** Lecture  
**No. of Slides:** 20-25  
**Interactive Portion:** 25%  
**Assessment:** 1 MCQ or SEQ  
**Duration of Lecture:** One hour  

**Learning Outcomes:**
At the end of session students will be able to:

- Define tonsils.
- Explain detailed anatomy and physiology of tonsils.
- Name common disorders involving tonsils.
- Define acute tonsillitis its types causative organisms, clinical features and treatment.
- Enlist complications of acute tonsillitis.
- Enlist differential diagnose of membrane over tonsil.
- Write a short note on faucal diphtheria.
- What is chronic tonsillitis give its types clinical feature treatment and complications?
- How would you examine the patient with tonsillitis?
- Enlist diagnose of lingual tonsils.
- What is the most commonly performed elective operation in ENT and enlist indications.
- Write down steps of tonsillectomy.

### Retropharyngeal Abscess

**Mode of Teaching:** Lecture  
**No. of Slides:** 20-25  
**Interactive Portion:** 25%  
**Assessment:** 1 MCQ or SEQ  
**Duration of Lecture:** One hour  

**Learning Outcomes:**
At the end of session students will be able to:

- Define abscess? Define retropharyngeal abscess and its types?
- What are common causes of acute retropharyngeal abscess?
• Enlist clinical features of acute retropharyngeal abscess, and how will you investigate.
• Give treatment options for acute retropharyngeal abscess.
• Write a short note on retropharyngeal abscess.
• Under following leading.
  ➢ Causes.
  ➢ Sign and symptom.
  ➢ Investigation.
  ➢ Treatment.

Topic: Tumor, Cleft Lip and Cleft Palate
Mode of Teaching: Lecture
No. of Slides: 20-25
Interactive Portion: 25%
Assessment: 1 MCQ or SEQ
Duration of Lecture: One hour
  Lecture: 45 minutes
  Interactive: 15 minutes

Learning Outcomes:
At the end of session students will be able to:
• Define cleft lip and cleft palate.
• What are some causes of cleft lip and palate?
• Differentiate complete and incomplete cleft lip.
• Describe embryologic feature in regard to formation of cleft lip and palate.
• List initial priorities for managing a new bone with cleft lip and palate.
• Discus airway in new bone with cleft lip and palate.
• What is approach of feeding in infant with cleft lip and palate?
• Discus pathophysiology of middle ear disease in child with cleft lip and palate.
• Where should cleft palate repaired.
• Name common methods cleft palate repair.
• What is valvo pharyngeal insufficieny?
• List postoperative complications of cleft palate repair.

Topic: Tracheostomy
Mode of Teaching: Lecture
No. of Slides: 20-25
Interactive Portion: 25%
Assessment: 1 MCQ or SEQ
Duration of Lecture: One hour
  Lecture: 45 minutes
  Interactive: 15 minutes

Learning Outcomes:
At the end of session students will be able to:
• Define Tracheostomy, enlist its indications.
• Explain the procedure briefly.
• Enlist complications (possible) after Tracheostomy.
• What should be ideal postoperative care of Tracheostomy?

Topic: Bronchoscopy
Mode of Teaching: Lecture
Interactive Portion: 25%
Assessment: 1 MCQ or SEQ
Duration of Lecture:
Lecture: 45 minutes
Interactive: 15 minutes

Learning Outcomes:
At the end of session students will be able to:
• What is Bronchoscopy, what are its types?
• What are indications of Bronchoscopy?
• Briefly explain the procedure?
• What should be ideal post operative care of Bronchoscopy?
• Enlist complications of Bronchoscopy.
• What precaution should be taken during procedure?

No. of Slides: 20-25

Topic: Rhinoplasty
Mode of Teaching: Lecture
No. of Slides: 20-25
Interactive Portion: 25%
Assessment: 1 MCQ or SEQ
Duration of Lecture:
Lecture: 45 minutes
Interactive: 15 minutes

Learning Outcomes:
At the end of session students will be able to:
• What is Rhinoplasty and how common it is?
• How does one analyze the nose preoperatively?
• Define alar collapse. Why is it imp?
• Enlist imp incision used in Rhinoplasty?
• List major support mechanism for nasal tip.
• Name two types of Rhinoplasty, what is “Polly beak” deformity and how does it ocure?

Topic: X-ray, CT Scan, Evaluation
Mode of Teaching: Lecture
Learning Outcomes:
At the end of session students will be able to:

- What do you mean by X-ray PNS (Woler’s view). What structures seen on this view.
- Which X-ray you would advise a patient with suspected nasal bone fracture.
- On X-ray soft tissue lateral view neck, how would you differentiate between?
  - Adenoids
  - AC Polyp
  - Nasal Angiofibroma
- Write basic radiological investigation with views, you would carry ons for suspected F.B Throat?
- Which radiological investigation you would advise for sino nasal polyposis before FESS and why?

Topic: Instrument and Evaluation
Mode of Teaching: Lecture
No. of Slides: 20-25
Interactive Portion: 25%
Assessment: 1 MCQ or SEQ
Duration of Lecture: One hour

Learning Outcomes:
At the end of session students will be able to:

- Identify the following Instruments.
- Write down the names of instruments used in tonsillectomy and list their functions.
- Write names of some common instruments used in ear surgery and list their function.

ENT BENAZIR BHUTTO HOSPITAL

Topic: Anatomy, Physiology & Clinical Methods of Ear
Mode of Teaching: Lecture
No. of Slides: 15-20
Interactive Portion: 25%
Assessment: 1 MCQ or SEQ
Duration of Lecture: One hour

Learning Outcomes:
At the end of session students will be able to:

- At the end of lecture students will be able to know the anatomy and physiology & their clinical importance regarding Ear, nose & throat diseases.
DEPARTMENT OF MEDICAL EDUCATION
RMC /Allied Hospitals, Rawalpindi
4th year Learning Outcome 2015

Topic: Pinna
Mode of Teaching: Lecture
No. of Slides: 15-20
Interactive Portion: 25%
Assessment: 1 MCQ or SEQ
Duration of Lecture: One hour

Learning Outcomes:
At the end of session students will be able to:
- At the end of lectures the students will understand the clinical anatomy of Pinna and common diseases e.g Pericondritis Keloids, Haematoma etc.

Topic: External auditory meatus
Mode of Teaching: Lecture
No. of Slides: 15-20
Interactive Portion: 25%
Assessment: 1 MCQ or SEQ
Duration of Lecture: One hour

Learning Outcomes:
At the end of session students will be able to:
- At the end of lecture the students will understand clinical anatomy of EAC and diseases like otomycosis, foreign bodies, wax, etc.

Topic: External Auditory Meatus
Mode of Teaching: Lecture
No. of Slides: 15-20
Interactive Portion: 25%
Assessment: 1 MCQ or SEQ
Duration of Lecture: One hour

Learning Outcomes:
At the end of session students will be able to:
- Boil, malignant otitis externa, diffuse otitis externa, keratosis obturans.

Topic: Hearing assessment
Mode of Teaching: Lecture
No. of Slides: 15-20
Interactive Portion: 25%
Assessment: 1 MCQ or SEQ
Duration of Lecture: One hour
Learning Outcomes:
At the end of session students will be able to:
- Define hearing loss / deafness.
- Enlist common causes of hearing loss.
- Give types of hearing loss
- How will you take history and perform examination of a patient with Deafness?
- Differentiate between conductive & sensorineural hearing loss.
- Management of hearing loss.

Topic: Acute Otitis Media (AOM)
Mode of Teaching: Lecture
No. of Slides: 15-20
Interactive Portion: 25%
Assessment: 1 MCQ or SEQ
Duration of Lecture: One hour
Lecture: 45 minutes
Interactive: 15 minutes

Learning Outcomes:
At the end of session students will be able to:
- Define AOM.
- Enlist common causes of AOM.
- How will you take history and perform examination of a patient with AOM?
- Differentiate between acute & chronic OM.
- Management of ASOM.
- Complications of AOM.

Topic: Otitis Media with Effusion (OME)
Mode of Teaching: Lecture
No. of Slides: 15-20
Interactive Portion: 25%
Assessment: 1 MCQ or SEQ
Duration of Lecture: One hour
Lecture: 45 minutes
Interactive: 15 minutes

Learning Outcomes:
At the end of session students will be able to:
- Define OME.
- Enlist common causes of OME.
- How will you take history and perform examination of a patient with OME?
- Differentiate between acute & chronic SOM and OME.
- Management of OME.
- Complications of OME.

**Topic:** Chronic Suppurative Otitis Media (CSOM)
**Mode of Teaching:** Lecture
**No. of Slides:** 15-20
**Interactive Portion:** 25%
**Assessment:** 1 MCQ or SEQ
**Duration of Lecture:** One hour
  - **Lecture:** 45 minutes
  - **Interactive:** 15 minutes

**Learning Outcomes:**
At the end of the session students will be able to:
- Define CSOM
- Types of CSOM
- Enlist common causes of CSOM.
- How will you take history and perform examination of a patient with CSOM?
- Differentiate between acute & chronic SOM and OME.
- Management of CSOM
- Complications of CSOM.

**Topic:** Complications of COM
**Mode of Teaching:** Lecture
**No. of Slides:** 15-20
**Interactive Portion:** 25%
**Assessment:** 1 MCQ or SEQ
**Duration of Lecture:** One hour
  - **Lecture:** 45 minutes
  - **Interactive:** 15 minutes

**Learning Outcomes:**
- At the end of the lecture the students understand common complications and different surgical operations for the treatment of complicated SOM.

**Topic:** Postauricular masses, fistula, preauricular sinus and mastoiditis
**Mode of Teaching:** Lecture
**No. of Slides:** 15-20
**Interactive Portion:** 25%
**Assessment:** 1 MCQ or SEQ
**Duration of Lecture:** One hour
  - **Lecture:** 45 minutes
  - **Interactive:** 15 minutes

**Learning Outcomes:**
At the end of the lectures the students understand Postauricularmasses, fistula, preauricular sinus and mastoiditis and their management.

**Topic:** Facial Nerve Paralysis  
**Mode of Teaching:** Lecture  
**No. of Slides:** 15-20  
**Interactive Portion:** 25%  
**Assessment:** 1 MCQ or SEQ  
**Duration of Lecture:** One hour  

**Learning Outcomes:**  
- Enlist common causes of Facial Nerve Paralysis  
- Give types of Facial Nerve Paralysis  
- How will you take history and perform examination of a patient with Facial Nerve Paralysis  
- Differentiate between supra-nuclear lesion and infra-nuclear lesions.  
- Management of Facial Nerve Paralysis

**Topic:** Otosclerosis  
**Mode of Teaching:** Lecture  
**No. of Slides:** 15-20  
**Interactive Portion:** 25%  
**Assessment:** 1 MCQ or SEQ  
**Duration of Lecture:** One hour  

**Learning Outcomes:**  
- Define Otosclerosis  
- Pathogenesis of Otosclerosis  
- Enlist common causes of Otosclerosis  
- Give types of Otosclerosis  
- How will you take history and perform examination of a patient with Otosclerosis  
- Management of Otosclerosis

**Topic:** Meniere’s Disease  
**Mode of Teaching:** Lecture  
**No. of Slides:** 15-20  
**Interactive Portion:** 25%  
**Assessment:** 1 MCQ or SEQ  
**Duration of Lecture:** One hour  

**Learning Outcomes:**  
- Define Meniere’s Disease  
- Pathogenesis of Meniere’s Disease  
- Enlist common causes of Meniere’s Disease  
- Give types of Meniere’s Disease  
- How will you take history and perform examination of a patient with Meniere’s Disease  
- Management of Meniere’s Disease
Learning Outcomes:
- Define Meniere’s disease.
- Pathogenesis of Meniere’s disease
- Enlist common causes of Meniere’s disease
- How will you take history and perform examination of a patient with Meniere’s disease.
- Management of Meniere’s disease

Topic: Instrument, X-ray, SEQs & MCQs
Mode of Teaching: Lecture
No. of Slides: 15-20
Interactive Portion: 25%
Assessment: 1 MCQ or SEQ
Duration of Lecture: One hour

Learning Outcomes:
- Identify instruments of ENT
- Diagnose ENT diseases on x rays

Topic: Anatomy, Physiology & Examination of Larynx
Mode of Teaching: Lecture
No. of Slides: 15-20
Interactive Portion: 25%
Assessment: 1 MCQ or SEQ
Duration of Lecture: One hour

Learning Outcomes:
- At the end of lecture students will be able to know the anatomy and physiology & their clinical importance regarding larynx diseases.

Topic: Laryngomalacia & Epiglottitis
Mode of Teaching: Lecture
No. of Slides: 15-20
Interactive Portion: 25%
Assessment: 1 MCQ or SEQ
Duration of Lecture: One hour

Learning Outcomes:
- Define Laryngomalacia & Epiglottitis
- Enlist common causes of Laryngomalacia&Epiglotitis
- How will you take history and perform examination of a patient with Laryngomalacia&Epiglotitis
- Management of Laryngomalacia&Epiglotitis
- Complications of Laryngomalacia&Epiglotitis

**Topic:** Hoarseness  
**Mode of Teaching:** Lecture  
**No. of Slides:** 15-20  
**Interactive Portion:** 25%  
**Assessment:** 1 MCQ or SEQ  
**Duration of Lecture:** One hour

- Lecture: 45 minutes  
- Interactive: 15 minutes

**Learning Outcomes:**
- Define Hoarseness
- Enlist common causes of Hoarseness
- How will you take history and perform examination of a patient with Hoarseness
- Management of Hoarseness

**Topic:** Carcinoma larynx  
**Mode of Teaching:** Lecture  
**No. of Slides:** 15-20  
**Interactive Portion:** 25%  
**Assessment:** 1 MCQ or SEQ  
**Duration of Lecture:** One hour

- Lecture: 45 minutes  
- Interactive: 15 minutes

**Learning Outcomes:**
- Enlist common causes of C.A. Larynx
- Give types of C.A. Larynx
- How will you take history and perform examination of a patient with C.A. Larynx
- Management of C.A. Larynx
- Rehabilitation of post laryngectomized patient

**Topic:** Oesophagus& oral cavity  
**Mode of Teaching:** Lecture  
**No. of Slides:** 15-20  
**Interactive Portion:** 25%  
**Assessment:** 1 MCQ or SEQ  
**Duration of Lecture:** One hour

- Lecture: 45 minutes  
- Interactive: 15 minutes
Learning Outcomes:
- At the end of the lecture the students understand anatomy, physiology, clinical features of oesophageal and oral cavity diseases.

Topic: Dysphagia & Plummer Vinson Syndrome
Mode of Teaching: Lecture
No. of Slides: 15-20
Interactive Portion: 25%
Assessment: 1 MCQ or SEQ
Duration of Lecture:
  Lecture: 45 minutes
  Interactive: 15 minutes

Learning Outcomes:
- Define Dysphagia
- Enlist common causes of Dysphagia
- Give types of Dysphagia
- How will you take history and perform examination of a patient with Dysphagia
- Management of Dysphagia

Topic: Oral cavity ulcers
Mode of Teaching: Lecture
No. of Slides: 15-20
Interactive Portion: 25%
Assessment: 1 MCQ or SEQ
Duration of Lecture:
  Lecture: 45 minutes
  Interactive: 15 minutes

Learning Outcomes:
- Define ulcer
- Enlist common causes of oral ulcer
- Give types of oral ulcer
- How will you take history and perform examination of a patient with oral ulcer
- Management of oral ulcers

Topic: Oral cavity ulcers
Mode of Teaching: Lecture
No. of Slides: 15-20
Interactive Portion: 25%
Assessment: 1 MCQ or SEQ
Duration of Lecture: One hour
  Lecture: 45 minutes
Learning Outcomes:

- Define ulcer
- Enlist common causes of oral ulcer
- Give types of oral ulcer
- How will you take history and perform examination of a patient with oral ulcer
- Management of oral ulcers
DEPARTMENT OF OPHTHALMOLOGY

Topic: Disorders of Eyelids, Lash and Lacrimal System
Teacher: Assistant Professor/Sr/Senior PGT
Mode of Teaching: Lectures Three Hours
PRACTICAL DEMONSTRATIONS THREE HOURS
No. OF PICTURES/SLIDES: 10
ASSESSMENT TOOLS: SEQs x 3
MCQs x 6
Interactive: ONE HOUR

Learning objectives:
At the end of the session student should be capable of
1. Knowing the surgical anatomy and physiology of eyelids and lacrimal system.
2. Diagnosing common eyelid disorders with differentials, lid swelling, blepharitis, Trichiasis, entropion, ectropion, blephroptosis.

TOPIC: DISEASES OF CONJUNCTIVA
MODE OF TEACHING: LECTURES TWO HOURS
PRACTICAL DEMONSTRATIONS TWO HOURS
No. OF PICTURES/SLIDES: 8
ASSESSMENT TOOLS: SEQs x 3
MCQs x 6
Interactive: ONE HOUR

TEACHER: ASSISTANT PROFESSOR/SR/SENIOR PGT
LEARNING OBJECTIVES:
At the end of the session student should be capable of
1. Knowing the anatomy and physiology of conjunctiva.
2. Analyzing the symptoms and signs of conjunctival diseases.
3. Performing clinical methods and ordering relevant lab investigations for conjunctival diseases.
4. Treatment of conjunctival infections and allergies.
5. Describing different surgical procedures of conjunctival disorders.

TOPIC: CORNEA
MODE OF TEACHING: LECTURES TWO HOURS
PRACTICAL DEMONSTRATIONS TWO HOURS
No. OF PICTURES/SLIDES: 6
ASSESSMENT TOOLS: SEQs x 4
MCQs x 8
Interactive: ONE HOUR

TEACHER: ASSISTANT PROFESSOR/SR/SENIOR PGT
LEARNING OBJECTIVES:
At the end of the session student should be capable of
1. Knowing the anatomy and physiology of cornea.
2. Performing clinical methods and clinical tests for corneal disorders.
3. Treatment of corneal infections.
5. Describing different surgical procedures done upon cornea.

**TOPIC: LENS**

**MODE OF TEACHING:** LECTURES TWO HOURS

PRACTICAL DEMONSTRATIONS FOUR HOURS

No. OF PICTURES/SLIDES:4

**ASSESSMENT TOOLS:** SEQs x 3

MCQs x 6

Interactive: ONE HOUR

**TEACHER:** ASSISTANT PROFESSOR/SR/SENIOR PGT

**LEARNING OBJECTIVES:**

At the end of the session student should be capable of

1. Diagnosing cataract.
2. Knowing etiology of secondary cataracts.
3. Treatment options of cataract
4. Pre-op preparation of a cataract patient.
5. Using medicine in post-op period.

**TOPIC: GLAUCOMA**

**MODE OF TEACHING:** LECTURES THREE HOURS

PRACTICAL DEMONSTRATIONS TWO HOURS

No. OF PICTURES/SLIDES:10

**ASSESSMENT TOOLS:** SEQs x 4

MCQs x 6

Interactive: ONE HOUR

**TEACHER:** PROFESSOR/ASSISTANT PROFESSOR/SR.

**LEARNING OBJECTIVES:**

At the end of the session student should be capable of

1. Knowing definition and pathophysiology of glaucoma.
2. Classifying glaucoma.
3. Knowing the essentials of glaucoma diagnosis
5. Prevention of glaucoma.

**TOPIC: UVEAL TRACT**

**MODE OF TEACHING:** LECTURES TWO HOURS

PRACTICAL DEMONSTRATIONS ONE HOUR

No. OF PICTURES/SLIDES: 5

**ASSESSMENT TOOLS:** SEQs x 2

MCQs x 4

Interactive: ONE HOUR

**TEACHER:** PROFESSOR/ASSISTANT PROFESSOR/SR.

**LEARNING OBJECTIVES:**

At the end of the session student should be capable of
1. Knowing anatomy of uveal tract.
2. Classifying uveitis.
4. Treatment of anterior uveitis.

**TOPIC: VITREORETINA**

**MODE OF TEACHING: LECTURES TWO HOURS**

PRACTICAL DEMONSTRATIONS ONE HOUR

No. OF PICTURES/SLIDES: 10

**ASSESSMENT TOOLS:** SEQS x 5

MCQs x 8

Interactive: ONE HOUR

**TEACHER: PROFESSOR/ASSISTANT PROFESSOR/SR**

**LEARNING OBJECTIVES:**

At the end of the session student should be capable of:

1. Knowing anatomy physiology clinical methods and ocular and lab investigations for vitreoretinal disorders.
2. Diagnosing vasculopathies and retinal dystrophies and detachment.
4. Treatment options for diabetic retinopathy.

**TOPIC: OPTIC NERVE AND NEURO-OPHTHALMOLOGY**

**MODE OF TEACHING: LECTURES THREE HOURS**

PRACTICAL DEMONSTRATIONS TWO HOURS

No. OF PICTURES/SLIDES: 6

**ASSESSMENT TOOLS:** SEQS x 4

MCQs x 10

Interactive: ONE HOUR

**TEACHER: PROFESSOR/ASSISTANT PROFESSOR/SR**

**LEARNING OBJECTIVES:**

At the end of the session student should be capable of:

1. Knowing anatomy and physiology of optic nerve
2. Performing clinical methods and ocular and lab investigations to demonstrate and diagnose disorders of optic nerve, third nerve, forth nerve, sixth nerve and seventh nerve palsies
3. Differentiating between papilledema and papillitis.
4. Treating optic neuritis.
DEPARTMENT OF MEDICAL EDUCATION
RMC /Allied Hospitals, Rawalpindi
4th year Learning Outcome 2015

TOPIC: DISEASES OF THE ORBIT
MODE OF TEACHING: LECTURES ONE HOUR
   PRACTICAL DEMONSTRATIONS TWO HOUR
No. OF PICTURES/SLIDES: 5
ASSESSMENT TOOLS: SEQs x 3
   MCQs x 6
   Interactive: ONE HOUR
TEACHER: PROFESSOR/ASSISTANT PROFESSOR/SR
LEARNING OBJECTIVES:
At the end of the session student should be capable of:
1. Knowing anatomy of the orbit.
2. Doing orbital examination.
3. Classifying proptosis.
4. Diagnosing and preseptalpostseptal cellulitis.

TOPIC: STRABISMUS
MODE OF TEACHING: LECTURES TWO HOURS
   PRACTICAL DEMONSTRATIONS TWO HOURS
No. OF PICTURES/SLIDES: 4
ASSESSMENT TOOLS: SEQs x 2
   MCQs x 6
   Interactive: ONE HOUR
TEACHER: PROFESSOR/ASSISTANT PROFESSOR/SR
LEARNING OBJECTIVES:
At the end of the session student should be capable of:
1. Knowing and demonstrating extra ocular muscle physiology.
2. Performing cover uncover test.
3. Diagnosing eso and exotropias.
4. Knowing about cyloplegic refractions.
5. Knowing effects an indications of muscle recession and resection.

TOPIC: OCULAR TRAUMA
MODE OF TEACHING: LECTURES TWO HOURS
   PRACTICAL DEMONSTRATIONS TWO HOURS
No. OF PICTURES/SLIDES: 6
ASSESSMENT TOOLS: SEQs x 3
   MCQs x 6
   Interactive: ONE HOUR
TEACHER: PROFESSOR/ASSISTANT PROFESSOR/SR
LEARNING OBJECTIVES:
At the end of the session student should be capable of:
1. Knowing effects and management of blunt trauma to the eye.
3. Identifying orbital floor fracture.
4. Diagnosing intraocular foreign body and knowing its management.

**TOPIC: OCULAR PHARMACOLOGY**
**MODE OF TEACHING: LECTURES ONE HOUR**
PRACTICAL DEMONSTRATIONS THREE HOURS
No. OF PICTURES/SLIDES/PACKING OF VARIOUS EYE PREPARATIONS: 12

**ASSESSMENT TOOLS:** SEQs x 2
MCQs x 10
Interactive: ONE HOUR

**TEACHER:** PROFESSOR/ASSISTANT PROFESSOR/SR/PGT

**LEARNING OBJECTIVES:**
At the end of the session student should be capable of:
1. Knowing various roots for ocular therapeutics.
2. Knowing names of commonly used antibiotics, anti-inflammatory, intraocular pressure lowering and diagnostic ocular preparations along with knowledge of dosage and side effects.

**TOPIC: SYSTEMIC DISEASE AND EYE**
**MODE OF TEACHING: LECTURES FOUR HOURS**
PRACTICAL DEMONSTRATIONS FOUR HOURS
No. OF PICTURES/SLIDES/PACKING OF VARIOUS EYE PREPARATIONS: 15

**ASSESSMENT TOOLS:** SEQs x 5
MCQs x 10
Interactive: ONE HOUR

**TEACHER:** PROFESSOR/ASSISTANT PROFESSOR/SR

**LEARNING OBJECTIVES:**
At the end of the session student should be capable of:
1. Knowing ocular features of following diseases:
   Rheumatoid arthritis, SLE, sjogren syndrome, MARFAN syndrome, sarcoidosis, tuberculosis, AIDS, stevens-johnson syndrome, systemic hypertension, diabetes mellitus, thyrotoxicosis, myasthenia gravis and leukaemia.
DEPARTMENT OF MEDICAL EDUCATION
RMC /Allied Hospitals, Rawalpindi
4th year Learning Outcome 2015

OBSTETRICS/GYNAECOLOGY
Benazir Bhutto Hospital

Lecture 1: Development of fetus
Teacher: Prof/Assistant Prof
No of slides: 30 -35
Lecture: 35 min
Interactive: 10 min
MCQ s: 5

Student Feedback form
At the end of lecture the student should be able to:

- Name the three stages of the prenatal period, identify the time period within which each occurs, and describe the main characteristics that define each stage.
- Describe the development of the zygote during the early germinal period, and define the following: mitosis, cleavage, blastocyst, endometrium/decidua
- Discuss the growth and development of the embryo from the end of the second week until the end of the eighth week during the embryonic period.
- Briefly describe the growth and development of the fetus at the 8, 10, 12, 16, 20, 24, 28, 30, 32, 34, 36 weeks and then weekly till term

Lecture 2: Anatomy of fetal skull, Bony pelvis, Types of pelvis, Anatomical changes in pregnancy
Teacher: Prof/Assistant Prof
No of slides: 30 -35
Lecture: 35 min
Interactive: 10 min
MCQ s: 5

Student Feedback form
At the end of lecture the student should be able to:

- Describe the anatomical features of fetal skull, the bones of fetal skull and their sutures.
- Describe the bony features and types of female pelvis.
- Identify various diameters of fetal skull and bony pelvis in relation to their role in normal and abnormal parturition.
- Explain the various anatomical changes in female pelvic bones, joints and ligaments in preparation for a vaginal delivery.

Lecture 3: Obstetric history taking and examination
Teacher: Assistant Prof/Prof
No of slides: 30 -35
Lecture: 35 min
Interactive: 10 min
MCQ s: 5

Student Feedback form
At the end of lecture the student be able to:

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1. Develop the basic clinical skills of history taking, clinical examination and be able to present an obstetric case.
2. Conduct an obstetrical abdominal examination
3. Demonstrate the fundal height, presentation, lie, attitude of fetus and auscultation of fetal heart

**Lecture 4: Prenatal Diagnosis**

- No of slides: 35-40
- Lecture: 35 min
- Interactive: 10 min
- MCQ: 2
- SEQ: 3

Student Feedback

**Teacher:** Assistant prof/Prof

At the end of lecture, the student should be able to:

1. Identify Couples/individuals of "high risk" where voluntary, informed testing prior to pregnancy may be offered.
2. Describe various Prenatal Diagnosis Techniques.
3. Explain the role of Teratogens egdrugs, environmental factors, infections and their timings of exposure according to gestational age.
4. Counsel the parents on common fetal abnormalities.

**Lecture 5: Minor Disorders of Pregnancy**

- NAUSEA AND VOMITING, VARICOSE VEINS, BACKACHE

**Teacher:** Assistant prof/Prof

- No of Slides: 30
- Lecture: 35 min
- Interactive: 10 min
- MCQs: 5

**Student Feedback Form**

**A: NAUSEA AND VOMITING**

At the end of lecture, the student should be able to:

1. Define nausea and vomiting in pregnancy
2. Distinguish from other disorders causing nausea and vomiting in pregnancy
3. Enlist safe remedies/drugs to treat nausea and vomiting in pregnancy

**B: VARICOSE VEINS**

Describe the causes and associated complications

**C: BACKACHE**

Explain causes of backache during pregnancy
Lecture 6: DIAGNOSIS OF LABOUR AND BASIC CONCEPTS OF LABOUR
Teacher: Assistant prof/Prof
No of slides: 40-45
Lecture: 35 min
Interactive: 10 min
3 groups of students:
At the end of the lecture the student should be able to:
1. Differentiate between true labour, false labour and Prelabour
2. Apply knowledge to utilize partogram in the management of labour.
3. Explain the management of a woman in first and second stage of labour
4. Explain the steps of normal vaginal delivery
   - Contents of delivery pack
   - Describe how would the student employ aseptic techniques used for normal vaginal delivery.
   - Case Scenario of false labour, latent phase, true labour

Student feedback form

Lecture 7: Fetal monitoring in labour and fetal distress
No of slides: 40
Lecture: 35 min
Interactive: 10 min
MCQ: 5
Student feedback form
Teacher: Assistant prof/Prof
At the end of the lecture the student should be able to:
1. Describe physiology of fetal oxygenation in labour
2. Describe various methods of fetal monitoring in labour
3. List the indications of electronic fetal monitoring
4. Identify and interpret the normal, atypical and abnormal results of fetal monitoring

Lecture 8: THIRD STAGE OF LABOUR AND ITS COMPLICATIONS
Teacher: Assistant prof/Prof
NO of slides: 40
Lecture: 35 min
Interactive: 10 min
MCQs: 4
SEQ: 2
Student feedback form
At the end of the lecture the student should be able to:
1. Define third stage of labour
2. Describe the steps of active management of third stage of labour (AMTSL)
3. Define Post partum haemorrhage and its causes
4. Outline the management of primary PPH
Lecture 9: ABNORMAL LABOUR (Primary dysfunctional, secondary arrest, prolonged latent phase)
Teacher: Assistant prof/Prof
No of slides: 45
Lecture: 35 min
Interactive: 10 min
MCQs: 4
SEQs: 2
Student feedback form
At the end of the lecture the student should be able to:
1. Anticipate and diagnose abnormal labour
2. Explain types of abnormal labour on the basis of partographic findings
3. Outline the management of prolonged latent phase, primary dysfunctional labour and secondary arrest of cervical dilatation

Lecture 10: TRIAL OF LABOUR, OBSTRUCTED LABOUR AND ITS MANAGEMENT
Teacher: Assistant prof/Prof
No of slides: 45-50
Lecture: 35 min
Interactive: 10 min
MCQs: 5
Student feedback form
At the end of the lecture the student should be able to:
1. Define trial of labour, and obstructed labour
2. Describe the management of a woman having trial of labour
3. Describe the clinical signs and symptoms of obstructed labour and rupture of uterus
4. Outline the management of obstructed labour

Lecture 11: MAL PRESENTATION (OTHER THAN BREECH)
Teacher: Assistant prof/Prof
No of slides: 40
Lecture: 35 min
Interactive: 10 min
MCQs: 5
At the end of the lecture the student should be able to:
1. Define malpresentation and differentiate it from malposition
2. Explain the features of face, brow, transverse, cord presentation and cord prolapsed
3. Outline the management strategies for various malpresentations
4. Describe the emergency management of cord prolapse
Student feedback form

Lecture 12: INDUCTION OF LABOUR
Teacher: Assistant prof/Prof
No of slides: 35
Lecture: 35 min  
Interactive: 10 min  
MCQ: 5  

Student feedback form  
At the end of the lecture the student should be able to:  
1. List common indications and contraindications for induction of labor  
2. Describe methods available for labor induction  
3. Identify outcomes associated with induction of labor  
4. Explain the maternal and fetal complications with induction of labor  

Lecture 13: EPISIOTOMY, PERINEAL TEARS, INSTRUMENTAL DELIVERY  
Teacher: Assistant prof/Prof  
No of slides: 40-45  
Lecture: 35 min  
Interactive: 10 min  
SEQ: 4  
MCQ: 2  

Student feedback form  
At the end of the lecture the student should be able to:  
1. List its indications, types, advantages and disadvantages of various types of episiotomy  
2. Explain the types of perineal tears and their complications  
3. Devise a plan to follow up a patient having episiotomy or perineal tear  
4. Identify and explain different types of Forceps and Vacuum cups  
5. Describe the indications and contraindications of forceps and vacuum delivery
GYNAE/OBS Department
DHQ, HOSPITAL

1. Topic : Obstetric Statistics
2. Mode of Teaching Lecture
3. Interactive Portion 25%
4. Assessment 1MCQs and 1 Scenarios
5. Teacher Professor/AssistantProfessor /Senior Registrar

Duration of Lecture 45 mints
Number of Slides 10-15

Lecture 30 Minutes
Interactive 15 Minutes

Learning outcome Student should be able to:-
- Define all relevant statistical terms.
- Calculate relevant rates/ratio.
- Describe significance of all statistics.
- Describe statistics of Pakistan according to most recent PHDS results.

Student Feedback Form

1. Topic : Obstetric Shock / Collapse
2. Mode of Teaching Lecture
3. Class 4th Year MBBS
4. Number of Slides 10-15
5. Interactive Portion 25%
6. Assessment 1MCQs and 1 Scenarios
7. Teacher Professor/Assistant Professor/ Senior Registrar
8. Duration of Lecture 45 Minutes

Lecture 30 Minutes
Interactive 15 Minutes

Learning outcome Student should be able to:-
- Define Shock and enlist all causes of obstetric shock.
- Suggest and justify relevant investigations.
- Differentiate all causes of shock on clinical findings and investigation.
- Outline management plan.

Student Feedback Form

1. Topic : Antenatal case in high risk pregnancy / fetal surveillance
2. Mode of Teaching Lecture
3. Class 4th Year MBBS
4. Number of Slides 10-15
5. Interactive Portion 25%
6. Assessment 1 MCQs and 1 Scenarios
7. Teacher Professor/Assistant Professor/Senior Registrar
8. Duration of Lecture 45 Minutes
   i. Lecture 30 Minutes
   ii. Interactive 15 Minutes

Learning outcome Student should be able to:
- Describe objectives of antenatal care
- Describe the process of antenatal care in high risk pregnancy
- Enlist and describe all methods of fetal surveillance
- Interpret results of various methods of fetal surveillance and plan management accordingly.

Student Feedback Form

1. Topic: IUGR.
2. Mode of Teaching Lecture
3. Class 4th Year MBBS
4. Number of Slides 10-15
5. Interactive Portion 25%
6. Assessment 2 MCQs and 1 Scenarios
7. Teacher Professor/Assistant Professor/Senior Registrar
8. Duration of Lecture 45 Minutes
   i. Lecture 30 Minutes
   ii. Interactive 15 Minutes

Learning outcome Student should be able to:
- Define IUGR.
- Classify IUGR and enlist causes
- Enlist causes of IUGR
- Suggest and justify relevant investigations
- Differentiate causes of IUGR based on clinical findings and investigations
- Outline management plan.
- Describe prenatal and long time complications associated with IUGR.

Student Feedback Form

1. Topic: Post Date Pregnancy
2. Mode of Teaching Lecture
3. Class 4th Year MBBS
4. Number of Slides 10-15
5. Interactive Portion 25%
6. Assessment 2 MCQs and 1 Scenarios
7. Teacher Professor/Assistant Professor/Senior Registrar
8. Duration of Lecture 45 Minutes
   i. Lecture 30 Minutes
ii. Interactive  15 Minutes

Learning outcome  Student should be able to:-

- Define term, post-term, and post-date pregnancies.
- Calculate date of delivery in women with normal and abnormal menstrual cycle length.
- Describe maternal and fetal risks in post-date pregnancy.
- Outline management plan.

Student Feedback Form

1. Topic:  Miscellaneous Disorders.
2. Mode of Teaching  Lecture
3. Class  4th Year MBBS
4. Number of Slides  10-15
5. Interactive Portion  25%
6. Assessment  2 MCQs and 2 Scenarios
7. Teacher  Professor/Assistant Professor /Senior Registrar
8. Duration of Lecture  45 Minutes
i. Lecture  30 Minutes
ii. Interactive  15 Minutes

Learning outcome  Student should be able to:-

- Define Oligohydramnios, Polyhydramnios, and Hyperemesis Gravidarum
- Define maternal and fetal risk in each condition
- Suggest and justify relevant investigations.
- Outline management plan

Student Feedback Form

1. Topic:  Litigation in Obstetrics
2. Mode of Teaching  Lecture
3. Class  4th Year MBBS
4. Number of Slides  10-15
5. Interactive Portion  25%
6. Assessment  2 MCQs and 1 Scenarios
7. Teacher  Professor/Assistant Professor /Senior Registrar
8. Duration of Lecture  45 Minutes
i. Lecture  30 Minutes
ii. Interactive  15 Minutes

Learning outcome  Student should be able to:-

- Enlist most common causes of litigation in obstetrics.
- Describe legal points relevant to obstetrics according to Pakistan Panel Court e.g abortion.
- Describe steps that health care professional can take to avoid litigation e.g written informed consent, documentation etc.

Student Feedback Form
1. **Topic:** Hypertension in Pregnancy
2. **Mode of Teaching:** Lecture
3. **Class:** 4th Year MBBS
4. **Number of Slides:** 10-15
5. **Interactive Portion:** 25%
6. **Assessment:** 2 MCQs and 1 Scenarios
7. **Teacher:** Professor/Assistant Professor/ Senior Registrar
8. **Duration of Lecture:** 45 Minutes
   - i. Lecture 30 Minutes
   - ii. Interactive 15 Minutes

**Learning outcome**

Student should be able to:
- Define hypertension and classify hypertensive
- Describe pathogenesis and risk factors
- Describe maternal and fetal risks
- Suggest and justify relevant investigation.
- Outline management plan of patients depending upon its severity
- Define eclampsia and discuss management

**Student Feedback Form**
1. **Topic:** Heart Disease in pregnancy
2. **Mode of Teaching:** Lecture
3. **Class:** 4th 1 Year MBBS
4. **Number of Slides:** 10-15
5. **Interactive Portion:** 25%
6. **Assessment:** 2 MCQs and 1 Scenarios
7. **Teacher:** Professor/Assistant Professor/ Senior Registrar
8. **Duration of Lecture:** 45 Minutes
   i. Lecture 30 Minutes
   ii. Interactive 15 Minutes

**Learning outcome**
Student should be able to:
- Enlist common heart diseases encountered in pregnancy.
- Describe fetal and maternal risk factors.
- Suggest and justify relevant investigation.
- Outline management plan including multi-disciplinary approach.
- Describe contraception options in these patients.

**Student Feedback Form**

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**Topic:** Coagulation Disorders
1. **Mode of Teaching:** Lecture
2. **Class:** 4th 1 Year MBBS
3. **Number of Slides:** 10-15
4. **Interactive Portion:** 25%
5. **Assessment:** 2 MCQs and 1 Scenarios
6. **Teacher:** Professor/Assistant Professor/ Senior Registrar
7. **Duration of Lecture:** 45 Minutes
   i. Lecture 30 Minutes
   ii. Interactive 15 Minutes

**Learning outcome**
Students should be able to:
- Enlist common coagulation disorders encountered in pregnant women e.g DIC, thrombocytopenia.
- Describe maternal and fetal risk factors.
- Suggest and justify relevant investigations.
- Outline management plan especially the need for multidisciplinary approach.

**Student Feedback Form**

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**Topic:** Other medical disorders (Thyroid, Respiratory, Epilepsy).
1. **Mode of Teaching:** Lecture
2. **Class:** 4th 1 Year MBBS
3. **Number of Slides:** 10-15
4. **Interactive Portion:** 25%
5. **Assessment:** 2 MCQs and 1 Scenarios
6. **Teacher:** Professor/Assistant Professor/ Senior Registrar
7. **Duration of Lecture:** 45 Minutes
iii. Lecture 30 Minutes
iv. Interactive 15 Minutes

8. Learning outcome  
Student should be able to:-
- Enlist common thyroid and respiratory pregnant women.
- Describe maternal and fetal risk factor in common thyroid and respiratory disorders and epilepsy.
- Suggest and justify relevant investigation.
- Outline management plan especially the need for multidisciplinary approach.
- Describe contraceptive options for these patients e.g. interaction of OCP with anti-epileptic drugs.

Student Feedback Form

01. Topic: Renal Disorders in Pregnancy.
01. Mode of Teaching Lecture
02. Class 4th Year MBBS
03. Number of Slides 10-15
04. Interactive Portion 25%
05. Assessment 2 MCQs and 1 Scenarios
06. Teacher Professor/Assistant Professor/ Senior Registrar
07. Duration of Lecture 45 Minutes

v. Lecture 30 Minutes
vi. Interactive 15 Minutes

Learning outcome  
Student should be able to:-
- Enlist common renal disorders in pregnancy.
- Describe maternal and fetal risk.
- Suggest and justify relevant investigation.
- Outline management plan involving multi disciplinarian approach.

Student Feedback Form

01. Topic: Gynaecological history taking and examination.
02. Mode of Teaching Lecture
03. Class 4th Year MBBS
04. Number of Slides 10-15
06. Interactive Portion 25%
07. Assessment 2 MCQs
08. Teacher Professor/Assistant Professor/ Senior Registrar

Duration of Lecture 45 Minutes
Lecture 30 Minutes
Interactive 15 Minutes

Learning outcome  
Student should be able to:-
- Describe significance of history taking and examination.
- Describe all important points of history taking e.g presenting complaints, history of present Inners, Gynaecological history taking. Post medical and surgical history Drug history, personal & socio-examine history, Family history.
• Describe all important points of general physical examination, abdominal examination and gynaecological examination (speculum and bimanual pelvic examination.

Student Feedback Form
GYNAE/OBS UNIT-1
PROF. RIZWANA CHAUDHRI

Complications of Puerperium

6. Mode of Teaching: Lecture
7. Class: 4th year MBBS
8. Number of Slides: 10-15
9. Assessment: 1 MCQs and 1 Scenarios
10. Teacher: Professor/Assistant Professor/Senior Registrar
11. Duration of Lecture: 45 minutes
   Lecture: 30 minutes
   Interactive: 15 minutes
12. Learning outcome: Student should be able to:
   - Enlist the causes of delayed involution
   - Define and describe secondary PPH
   - Give causes of thromboembolism in puerperium
   - Define and manage cases of puerperal Pyrexia
   - Give etiology of genital tract infection
   - Describe breast disorders related to puerperium

10. Topic: Antepartum Haemorrhage (APH)
11. Mode of Teaching: Lecture
12. Class: 4th Year MBBS
13. Number of Slides: 10-15
14. Assessment: 2 MCQs and 2 Scenarios
15. Teacher: Professor/Assistant Professor/Senior Registrar
16. Duration of Lecture: 45 minutes
   Lecture: 30 minutes
   Interactive: 15 minutes
17. Learning outcome: Student should be able to:
   - Define APH
   - Enlist and define the causes of APH
   - Diagnose and manage different types of placenta praevia
   - Diagnose and manage abruptio placentae and its complications
   - Diagnose and manage other causes of APH

18. Student Feedback Form
9. Topic: Other obstetric emergencies
10. Mode of Teaching Lecture
11. Class 4th Year MBBS
12. Number of Slides 10-15
13. Assessment 1 MCQs and 1 Scenarios
14. Teacher Professor/Assistant Professor/ Senior Registrar
15. Duration of Lecture 45 Minutes
   i. Lecture 30 Minutes
   ii. Interactive 15 Minutes

16. Student Feedback Form

Learning outcome
• Define emergency
• Describe the structured approach to obstetric emergency
• Define, diagnose and give management plan for ruptured uterus
• Give causes of sudden maternal collapse
• Should be able to diagnose and manage the causes of cord prolapse and shoulder dystocia
• Document the events and management

Topic: Multiple pregnancy
9. Mode of Teaching Lecture
10. Class 4th Year MBBS
11. Number of Slides 10-15
12. Assessment 2 MCQs and 1 Scenarios
13. Teacher Professor/Assistant Professor/ Senior Registrar
14. Duration of Lecture 45 Minutes
   Lecture 30 Minutes
   Interactive 15 Minutes

Learning outcome
• Define multiple pregnancy
• Give its prevalence
• Classify the types of multiple pregnancy
• Give complications of multiple pregnancy including monochorionic twin pregnancy
• Give management of normal and complicated twin pregnancy
• Outline intrapartum and postpartum management

15. Student Feedback Form

9. Topic: Rhesus incompatibility
10. Mode of Teaching Lecture
11. Class 4th Year MBBS
12. Number of Slides 10-15
13. Assessment 2 MCQs and 1 Scenarios
14. Teacher Professor/Assistant Professor/ Senior Registrar
15. **Duration of Lecture**  
   i. Lecture  30 Minutes  
   ii. Interactive  15 Minutes  

16. **Learning outcome**  
   Student should be able to:-  
   - Define rhesus disease  
   - Give preventive methods for isoimmunization  
   - Give management of pregnancy in a sensitized woman  
   - Outline intrapartum management  
   - Advise neonatal follow-up  

17. **Student Feedback Form**  

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9. **Topic:** Pyrexia in pregnancy  
10. **Mode of Teaching** Lecture  
11. **Class** 4th Year MBBS  
12. **Number of Slides** 10-15  
13. **Assessment** 2 MCQs and 1 Scenarios  
14. **Teacher** Professor/Assistant Professor /Senior Registrar  
15. **Duration of Lecture** 45 Minutes  
   i. Lecture  30 Minutes  
   ii. Interactive  15 Minutes  

**Learning outcome**  
Student should be able to:-  
- Define pyrexia  
- Give different causes of pyrexia in pregnancy  
- Take history, perform examination and advise relevant investigations  
- Give management plan after diagnosis  

**Student Feedback Form**  

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10. **Topic:** Early pregnancy loss and its management  
11. **Mode of Teaching** Lecture  
12. **Class** 4th Year MBBS  
13. **Number of Slides** 10-15  
14. **Assessment** 2 MCQs and 1 Scenarios  
15. **Teacher** Professor/Assistant Professor /Senior Registrar  
16. **Duration of Lecture** 45 Minutes  
   i. Lecture  30 Minutes  
   ii. Interactive  15 Minutes  

**Learning outcome**  
Student should be able to  
- Define early pregnancy loss  
- Enlist types of miscarriages  
- Enlist etiological factors  
- Describe the clinical features  
- Give the role of ultrasound in diagnosis  

---
• Outline management plan

17. Student Feedback Form

9. Topic: Preterm labour
10. Mode of Teaching Lecture
11. Class 4th Year MBBS
12. Number of Slides 10-15
13. Assessment 2 MCQs and 1 Scenarios
14. Teacher Professor/Assistant Professor/ Senior Registrar
15. Duration of Lecture 45 Minutes

Learning outcome
Student should be able to:-
• Define preterm labour and PPROM
• Give etiological factors for preterm labour and PPROM
• Investigate the case
• Outline the management of preterm labour and PPROM
• Know the complications and their management

16. Student Feedback Form

9. Topic: Diabetes in pregnancy
10. Mode of Teaching Lecture
11. Class 4th Year MBBS
12. Number of Slides 10-15
13. Assessment 2 MCQs and 1 Scenarios
14. Teacher Professor/Assistant Professor/ Senior Registrar
15. Duration of Lecture 45 Minutes

Learning outcome
Student should be able to:-
• Define different types of diabetes in pregnancy.
• Diagnose GDM
• Outline management plan for evaluation and control of DM during pregnancy including preconception counselling, management during first, second and third trimesters, role of ultrasonography and medical treatment
• Outline management during labour and puerperium
• Screening methods for GDM
• Maternal and neonatal complications of DM
16. Student Feedback Form
9. Topic: Prescribing drugs in pregnancy
10. Mode of Teaching: Lecture
11. Class: 4th 1 Year MBBS
12. Number of Slides: 10-15
13. Assessment: 1 MCQs and 1 Scenarios
14. Teacher: Professor/Assistant Professor/ Senior Registrar
15. Duration of Lecture: 45 Minutes

Learning outcome: Students should be able to:
- Define the categories of drugs
- Give the groups of commonly used drugs and their side effects
- Enlist safe drugs
- Enlist the drugs contra indicated in pregnancy

Student Feedback Form

Topic: Liver disorders in pregnancy

9. Mode of Teaching: Lecture
10. Class: 4th 1 Year MBBS
11. Number of Slides: 10-15
12. Interactive Portion: 25%
13. Assessment: 2 MCQs and 1 Scenarios
14. Teacher: Professor/Assistant Professor/ Senior Registrar
15. Duration of Lecture: 45 Minutes

iii. Lecture: 30 Minutes
iv. Interactive: 15 Minutes

Learning outcome: Student should be able to:
- Enlist different liver disorders during pregnancy
- Know the etiology, investigations and management of acute viral hepatitis during pregnancy
- Know the pathogenesis and diagnosis of liver disorders associated with pre-eclampsia and its management
- Briefly describe the pathology, diagnosis and management of obstetric cholestasis, acute fatty liver of pregnancy, autoimmune hepatitis, gallstones and primary biliary cirrhosis

Student Feedback Form

01. Topic: Fetal distress
08. Mode of Teaching: Lecture
09. Class: 4th 1 Year MBBS
10. Number of Slides: 10-15
11. Assessment: 1 MCQs and 1 Scenarios
12. Teacher: Professor/Assistant Professor/ Senior Registrar
13. **Duration of Lecture**  
   v. Lecture 30 Minutes  
   vi. Interactive 15 Minutes  

14. **Learning outcome**  
   Student should be able to:-  
   - Define fetal distress  
   - Enlist pregnancies high risk for fetal compromise  
   - Define meconium staining and its different grades  
   - Interpret CTG and recognize common signs of fetal distress  
   - Outline management options in case of suspected fetal distress  
   - Describe fetal blood sampling used for diagnosis of fetal distress  

10. **Student Feedback Form**

   01. **Topic**  
   Imaging in Obstetric
   02. **Mode of Teaching**  
   Lecture
   03. **Class**  
   4th 1 Year MBBS
   05. **Number of Slides**  
   10-15
   06. **Assessment**  
   2 MCQs
   07. **Teacher**  
   Professor/Assistant Professor/ Senior Registrar
   08. **Duration of Lecture**  
   45 Minutes
   vii. Lecture 30 Minutes
   viii. Interactive 15 Minutes

   **Learning outcome**  
   Student should be able to:-  
   - Enlist different methods of fetal imaging and know the principles of their functioning  
   - Give ultrasound imaging types  
   Dating , anomaly, normal and abnormal findings  
   - Doppler USG of fetal vessels and their interpretation  
   - Define the role of MRI  

09. **Student Feedback Form**
OBSTETRICS /GYNAECOLOGY
PROF. FEHMIDA SHAHEEN

1. Topic: Malpresentation (Breech)
2. Mode of Teaching Lecture
3. Class Fourth Year MBBS
4. Number of Slides 14
5. Interactive Portion 25%
6. Assessment 2 MCQs and 1 Scenario
7. Teacher Assistant Professor / Associate Professor/Professor
8. Duration of Lecture 45 minutes
   Lecture 35 Minutes
   Interactive 10 Minutes
Learning outcome Student should be able to:
• Understand the clinical importance of breech presentation
• Enlist the etiology and know the incidence and types of breech presentation
• Diagnosis by clinical methods and with imaging techniques

Student Feedback Form

Topic: Mechanism of labour in breech and malposition
2. Mode of Teaching Lecture
3. Class Fourth Year MBBS
4. Number of Slides 20
5. Interactive Portion 25%
6. Assessment 1 MCQ & 1 Scenario
7. Teacher AP / Assoc. Prof. / Professor
8. Duration of Lecture 45 minutes
   Lecture 30 Minutes
   Interactive 15 Minutes
9. Learning outcome Student should be able to:
• Define labour its diagnosis and physiology
• Understand mechanical variable as three “Ps” stages of labour and cardinal movement of labour
• Plot partograms
• Understand the mechanism of delivery in breech and other malpresentation

Student Feedback Form

1. Topic: Normal Puerperium
2. Mode of Teaching Lecture
3. Class Fourth Year MBBS
4. Learning outcome Student should be able to:
• Define normal puerperium and understand the physiological changes in different systems in it
Plan management of normal puerperium

5. Number of Slides 20
6. Interactive Portion 20%
7. Assessment 1 MCQ and 1 Scenario
8. Teacher Assistant Professor
9. Duration of Lecture 45 minutes
   Lecture 35 Minutes
   Interactive 10 Minutes
10. Student Feedback Form

1. Topic: Breast feeding
2. Mode of Teaching Lecture
3. Class Fourth Year MBBS
4. Number of Slides 15
5. Interactive Portion 25%
6. Assessment 1 MCQs and 1 Scenario
7. Teacher Assistant Professor / Assoc. Professor
8. Duration of Lecture 45 minutes
   Lecture 30 Minutes
   Interactive 15 Minutes
Learning outcome Student should be able to:
• Know briefly about anatomical and physiological changes during pregnancy
• Enlist all advantages of breast feeding discuss breast feeding policy
• Plan management for problems associated with breast feeding

Student Feedback Form

1. Topic: Analgesia and Anesthesia in labour
2. Mode of Teaching Lecture
3. Class Fourth Year MBBS
4. Learning outcome Student should be able to:
5. Number of Slides 20
6. Interactive Portion 25%
7. Assessment 1 MCQ
8. Teacher AP / Assoc. Professor
9. Duration of Lecture 45 minutes
   Lecture 30 Minutes
   Interactive 15 Minutes
• Define anesthesia and analgesia
• Discuss types and techniques of anesthesia and analgesia

Student Feedback Form
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<th>Description</th>
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<td>8.</td>
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**Learning outcome**

- Define the types and enlist the indications for abdominal delivery
- Describe the preoperative preparation and timing of abdominal delivery
- Enlist the complications of abdominal delivery and discuss post operative care

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<td>8.</td>
<td>Duration of Lecture: 45 minutes</td>
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</table>

**Learning outcome**

- Understand the sequence of coordinated events of fusion male and female pronuclei to form a zygote
- The site and timing of implantation of the conceptus
- The transformation of the zygote to the morula and the blastocyst
- The transport of the conceptus from its site of fertilization to the fourth place of embedding i.e. the uterine cavity
- The time intervals required for the process of fertilization to the successful implantation of the conceptus in the endometrium

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**Topic: Development of placenta, abnormalities of placenta, fetal circulation**

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<td>Teacher: Assistant Professor</td>
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<td>8.</td>
<td>Duration of Lecture: 45 minutes</td>
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</table>
Learning outcome

Student should be able to:

- Understand placental villi development
- Understand placental structure
- Describe different types of placental abnormalities
- Trace the flow of blood in the fetal circulation
- State the location and function of foramen ovale and ductus arteriosus
- Describe how fetal circulation differs from postnatal circulation

Student Feedback Form

1. Topic: Diagnosis of pregnancy
   Physiological changes associated with pregnancy

2. Mode of Teaching Lecture
3. Class Fourth Year MBBS
4. Number of Slides 10-15
5. Interactive Portion 25%
6. Assessment 3 MCQs and 2 Scenarios
7. Teacher Asst. Professor
8. Duration of Lecture 45 minutes
   Lecture 35 Minutes
   Interactive 10 Minutes

Learning outcome

Student should be able to:

- Describe the various types of pregnancy tests include the timing of tests and interpretation of results
- Explain the expected maternal anatomic and physiological adaptations to pregnancy for each body system
- Identify the maternal hormones produced during pregnancy, their target organs and their major effects on pregnancy

Student Feedback Form

1. Topic: Antenatal care and pre pregnancy counseling

2. Mode of Teaching Lecture
3. Class Fourth Year MBBS
4. Number of Slides 10-15
5. Interactive Portion 25%
6. Assessment 3 MCQs and 2 Scenarios
7. Teacher Asst. Professor
8. Duration of Lecture 45 minutes
   Lecture 35 Minutes

Learning outcome

Student should be able to:

- Understand the goals of prenatal care
- Describe the components of preconception care
- Describe routine investigations undertaken on the first antenatal visits
• Know the usual schedule of prenatal care visits during pregnancy
• Understand the goals of preconception care
• Assure that women of child bearing age receive evidence based risk screening, health promotion and intervention that will enable them to enter a pregnancy in good health

10 Minutes
Student Feedback Form

Topic: **Basic terms and concepts in obstetrics** (Duration of pregnancy, calculation of EDD, Preterm, post term, postdates, viability, estimation of birth weights, low birth weight, very low birth weight, lie, presentations etc)

2. Mode of Teaching  Lecture
3. Class  Fourth Year MBBS
4. Number of Slides  10-15
5. Interactive Portion  25%
6. Assessment  3 MCQs and 2 Scenarios
7. Teacher  Asst. Professor / Associate Professor
8. Duration of Lecture  45 minutes
   Lecture  35 Minutes
   Interactive  10 Minutes

Learning outcome  Student should be able to:
• Clearly define the common obstetrics terminologies

Student Feedback Form

Topic: **Physiology of normal labour, mechanism of onset of labour**

2. Mode of Teaching  Lecture
3. Class  Fourth Year MBBS
4. Number of Slides  10-15
5. Interactive Portion  25%
6. Assessment  3 MCQs and 2 Scenarios
7. Teacher  Asst. Professor
8. Duration of Lecture  45 minutes
   Lecture  35 Minutes
   Interactive  10 Minutes

Learning outcome  Student should be able to:
• Understand and recognize the signs and symptoms and physiological changes leading to onset of labour
• Understand a normal labour pattern
• Understand the phases and stages of labour

Student Feedback Form
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<th>Topic: Management of normal labour and delivery partograms</th>
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<td>Learning outcome</td>
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<tr>
<td>• Describe and identity normal and abnormal progress of labour</td>
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<td>• Describe appropriate management of normal and abnormal labour pattern</td>
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<td>• Describe proper use of partographs including monitoring maternal and fetal signs</td>
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Department of Medicine
CVS

Investigation of Cardiovascular system
Sub-Topic: Electrocardiogram
Learning Outcomes:
At the end of the lecture students should be able to describe and discuss:

- Normal pattern
- Identify major abnormalities like MI, LVH/RVH, axis conduction defects and arrhythmias, drugs and electrolyte effects.

Sub-Topic: Chest x-ray
Learning Outcomes:
At the end of the lecture students should be able to describe and discuss:

- Cardiac shadow, Cardiac borders, Cardiomegally, pericardial effusion, Pulmonary hypertension

Sub-Topic: Echocardiography
Learning Outcomes:
At the end of the lecture students should be able to describe and discuss:

- Familiarity with basic echocardiography.
- Principles and anatomical views with identification of cardiac chambers and valves, indications of echocardiography.

Sub-Topic: Endotracheal tube, Stress Thallium, CT angiography, Coronary angiography.
Learning Outcomes:
At the end of the lecture students should be able to describe and discuss:

- Familiarity with basic principles.
- Must know indications and contra indications/Limitations.

Sub-Topic: Congestive Cardiac failure
Learning Outcomes:
At the end of the lecture students should be able to describe and discuss:

- Pathogenesis and etiology of CCF.
- Differentiation between Right and Left heart failure.
- Symptoms and signs of CCF.
- Investigation, D/D and basic management of CCF.

Sub-Topic: Pulmonary edema
Learning Outcomes:
At the end of the lecture students should be able to describe and discuss:

- Pathogenesis and causes of LVF.
- Acute vs chronic LV dysfunction
- D/D especially from bronchial asthma, including appropriate investigation labs, ECG, CXR.
• Management of acute LVF.

Sub-Topic: Rheumatic fever

Learning Outcomes:
At the end of the lecture students should be able to describe and discuss:
• Aetiology and pathogenesis, symptoms and signs, diagnostic criteria for Rheumatic fever pattern of Cardiac involvement in RF.
• Extra cardiac manifestation of RF.
• D/D, investigation and management of Rheumatic Fever.

Sub-Topic: Hypertension

Learning Outcomes:
At the end of the lecture students should be able to describe and discuss:
• Definition and diagnostic criteria
• [JNC (VII)], definitions primary and secondary hypertension, investigations.
• TOD in hypertension.
• Classes of drugs used in management of HTN.
• Hypertension in special situations like, pregnancy, renal failure, children, elderly.

Sub-Topic: Valvular heart disease

Learning Outcomes:
At the end of the lecture students should be able to describe and discuss:
• Aetiology pathogenesis Signs and symptoms, D/D management prognosis of acquired VHD like: MS AS MR AR

PULMONOLOGY

Sub-Topic: Tuberculosis

Learning Outcomes:
At the end of the lecture students should be able to describe and discuss:
• Will be taught in infection.

Sub-Topic: Pleural Effusion/Empyema

Learning Outcomes:
At the end of the lecture students should be able to describe and discuss:
• Pathogenesis
• Causes and aetiology of pleural effusion empyema.
• Signs and symptoms
• Investigations in pleural effusion, transudative vs exudative.
• Management of pleural effusion, empyema.

Sub-Topic: Pneumothorax

Learning Outcomes:
At the end of the lecture students should be able to describe and discuss:
• Causes/Aetiology
• Signs and symptoms
• Investigations
• Management plan

**Sub-Topic: Respiratory Failure/ABG’s**

**Learning Outcomes:**
At the end of the lecture students should be able to describe and discuss:

• Acute and chronic Respiratory failure
• Type I and Type II respiratory failure
• Aetiology and causes
• Signs and symptoms of respiratory failure
• Investigation and management of respiratory failure

**Sub-Topic: Investigations**

**Learning Outcomes:**
At the end of the lecture students should be able to describe and discuss:

• Sputum analysis
• CXR
• CT scan/MRI
• Spirometry (pulmonary function test)
• Bronchoscopy
• Ventilator/perfusion studies

**GIT**

**Sub-Topic: Investigations**

**Learning Outcomes:**
At the end of the lecture students should be able to describe and discuss:

• CBC
• LFT’s
• PT, Coagulations studies
• USG, CT scan, MRI
• Endoscopy, endoscopic USG
• Barium studies
• Specific investigation for specific enzyme deficiencies
• Antibodies/serology
• Biopsy indication/contraindications

**Sub-Topic: Jaundice**

**Learning Outcomes:**
At the end of the lecture students should be able to describe and discuss:

• Already done.
• See under III year Dr. NY Khan
Sub-Topic: Ascites
Learning Outcomes:
At the end of the lecture students should be able to describe and discuss:

- Pathogenesis and mechanism of production of ascites
- Causes of ascites in general
- Sign and symptoms of ascites
- Investigation and general principles of management of ascites.

Sub-Topic: APD/Gastritis
Learning Outcomes:
At the end of the lecture students should be able to describe and discuss:

- Aetiology and pathogenesis
- Signs and symptoms
- Investigation
- Management plan

Sub-Topic: Dysphagia
Learning Outcomes:
At the end of the lecture students should be able to describe and discuss:

- Definition
- Aetiology /Causes
- Clinical clues to look for in a case of dysphagia
- Investigations and management

Sub-Topic: Achlasia
Learning Outcomes:
At the end of the lecture students should be able to describe and discuss:

- Definition
- Pathology
- S/S
- Clinical examination
- Investigation and management

Sub-Topic: Gastroesophageal reflux disease
Learning Outcomes:
At the end of the lecture students should be able to describe and discuss:

- Definition
- Mechanics and causes
- Signs and symptoms
- Investigations and management
RHEUMATOLOGY

Sub-Topic: Osteoarthritis
Learning Outcomes:
At the end of the lecture students should be able to describe and discuss:
- Pathogenesis/aetiology
- Signs and symptoms
- D/D of OA
- Investigations
- Management plan

Sub-Topic: Osteoporosis
Learning Outcomes:
At the end of the lecture students should be able to describe and discuss:
- Pathogenesis
- Sign and symptoms
- Investigations and management

Sub-Topic: Serum sickness
Learning Outcomes:
At the end of the lecture students should be able to describe and discuss:
- Definition
- Types of hypersensitivity reaction
- Causes and clinical presentation
- Management of serum sickness

Sub-Topic: Metabolic arthropathies
Learning Outcomes:
At the end of the lecture students should be able to describe and discuss:
- Uric acid metabolism
- Uratearthropathy
- S/S, D/D, clues in history and physical examination
- Joint fluid aspiration and examination
- Management, role of drug like colchicin Indomethacin and allopurinol
- Pyrophosphate arthropathy
- Differentiation from uratearthropathy.
- Management.

Sub-Topic: Investigations/Joints
Learning Outcomes:
At the end of the lecture students should be able to describe and discuss:
- An appropriate set of investigation for the patient with joint problem
- Basic investigation like CBC, ESR, CRP, Uric acid and specialized serological test and immune profile essay.
CT, MRI, arthoscopy, Biopsy.

HEMATOLOGY

Sub-Topic: Hemolytic Anemia
Learning Outcomes:
At the end of the lecture students should be able to describe and discuss:
- Definition of hemolysis
- Pathophysiology of hemolysis
- Types of hemolytic anemias including enzymopathies, auto-immune, drug induced, mechanical, infective causes.
- Brief outline of importance of hemolytic anemias
- Clinical features+ signs including jaundice, pallor, calculi + splenomegaly.
- Investigations including haemoglobin, electrophoresis, osmetic fragility rest, peripheral film, coombs direct & indirect test.
- Broad outline of treatment modalities.

Sub-Topic: Hemoglobinopathies
Learning Outcomes:
At the end of the lecture students should be able to describe and discuss:
- Definition
- Pathophysiology
- Clinical features
- Investigations including peripheral film, haemoglobin, electrophoresis.
- Treatment Modalities

Sub-Topic: Sickle cell anemia
Learning Outcomes:
At the end of the lecture students should be able to describe and discuss:
- Pathophysiology
- Mechanism of sickling
- Complications and relevant investigations.
- Treatment including that of acute crises, long term management

Sub-Topic: Thalasemia
Learning Outcomes:
At the end of the lecture students should be able to describe and discuss:
- Definition + etiology
- Types of thalasemia (minor, Major)
- Pathophysiology
- Clinical features (difference between minor and major varieties)
- Investigations
- Treatment
- Counseling/prevention/screening

INFECTION

Sub-Topic: Tuberculosis
Learning Outcomes:
At the end of the lecture students should be able to describe and discuss:

- Epidemiology
- Bacteriology
- Aetiology + Pathogenesis
- Organs involved in tuberculosis
- Investigations: including AFB + culture media+PCR
- Treatment
- Drugs used
- Indication, side effects

Sub-Topic: Leprosy
Learning Outcomes:
At the end of the lecture students should be able to describe and discuss:

- Etiology- including organism viability + incubation + pathogenesis period
- Types of leprosy including lepromatous + tuberculous leprosy
- Clinical features, lepra reactions
- Investigations
- Treatment including that of lepra reactions.

Sub-Topic: Infections mononucleosis
Learning Outcomes:
At the end of the lecture students should be able to describe and discuss:

- Causative organism
- Mode of transmission
- Clinical features
- Investigations/Management

Sub-Topic: HIV/AIDS
Learning Outcomes:
At the end of the lecture students should be able to describe and discuss:

- Causative organism+ epidemiology (brief historical background)
- Mode of transmission.
- Difference between HIV+AIDS
- Pathogenesis
- Clinical features
- Complications and their management
- Course and prognosis
- Investigations
- Treatment modalities
- Treatment in special conditions i.e. pregnancy, newly born.
- Prevention

Sub-Topic: Infectious diarrhea
Learning Outcomes:
At the end of the lecture students should be able to describe and discuss:

- Definition of diarrhea (Acute)
- Causative organisms (viral, Bacterial, Parasitic)
- Types of diarrhea
- Pathogenesis
- Clinical features/Complications
- Investigations
- Management

Sub-Topic: Gastro-enteritis

Learning Outcomes:
At the end of the lecture students should be able to describe and discuss:

- Definition
- Etiology-causative organisms
- Pathogenesis
- Clinical features/Complications
- Investigations
- Management

ENDOCRINE

Sub-Topic: Hyperthyphoidism

Learning Outcomes:
At the end of the lecture students should be able to describe and discuss:

- Sign and symptoms
- Causes
- Investigations (T3, T4, TSH)
- Treatment (drug, surgical, others)
- Complication/crisis

Sub-Topic: hypothyroidism

Learning Outcomes:
At the end of the lecture students should be able to describe and discuss:

- Sign and symptoms
- Causes
- Investigation (T3, T4, TSH, antibodies)
- Treatment (Drugs)
- Complication, Myxoedema coma.

Sub-Topic: Cushing syndrome

Learning Outcomes:
At the end of the lecture students should be able to describe and discuss:

- Sign and symptoms
- Causes
Sub-Topic: Addison’s
Learning Outcomes:
At the end of the lecture students should be able to describe and discuss:
- Sign and symptoms
- Causes
- Investigation
- Treatment
- Complications

NEUROLOGY

Sub-Topic: CNS infections
Learning Outcomes:
At the end of the lecture students should be able to describe and discuss:
- Symptoms of CNS infection
- Signs of CNS infection
- Common types of CNS infection
- Investigations
- CSF (R/E, Viral, Pyogenic, tuberculous)
- CT Scan, MRI
- Broad outline of Rx

Sub-Topic: Tuberculosis (TBM)
Learning Outcomes:
At the end of the lecture students should be able to describe and discuss:
- Symptoms of TBM
- Signs of TBM
- CSF finding in TBM
- CT scan/MRI
- Complication of TBM
- Treatment of TBM

Sub-Topic: Encephalitis
Learning Outcomes:
At the end of the lecture students should be able to describe and discuss:
- Sign and symptoms
- Common causes of encephalitis
- CSF findings.
- Other investigations.
- Treatment
Sub-Topic: Brain Abscess  
**Learning Outcomes:**  
At the end of the lecture students should be able to describe and discuss:  
- Sign and symptoms (Red tags)  
- Causes  
- CT scan/MRI (diagnostic radiology)  
- Treatment options

Sub-Topic: Raised Intracranial pressure  
**Learning Outcomes:**  
At the end of the lecture students should be able to describe and discuss:  
- Sign and symptoms  
- Causes  
- Investigation  
- CT Scan, diagnostic radiology

Sub-Topic: Investigations of CNS  
**Learning Outcomes:**  
At the end of the lecture students should be able to describe and discuss:  
- CT  
- MRI, MRA, MRV  
- PET  
- CSF  
- NCS  
- EMG  
- EEG

Sub-Topic: Spinal cord compression/Disease  
**Learning Outcomes:**  
At the end of the lecture students should be able to describe and discuss:  
- Sign and symptoms  
- Main causes  
- Investigations  
- Management

**NEPHROLOGY**

Sub-Topic: Urinary tract infections  
**Learning Outcomes:**  
At the end of the lecture students should be able to describe and discuss:  
- Pathophysiology  
- Risk factors for UTI  
- Clinical presentations according to involvement of renal tract
• Investigations required
• Management of UTI and of persistent/recurrent UTI.

**Sub-Topic: Drugs and renal disease**

**Learning Outcomes:**
At the end of the lecture students should be able to describe and discuss:
• Mechanism of action of different drugs causing renal impairment
• Drugs causing renal impairment
• Prescribing in renal impairment
• Adjusting the dose in renal impairment

**Sub-Topic: Acute renal failure**

**Learning Outcomes:**
At the end of the lecture students should be able to describe and discuss:
• Pathophysiology
• Causes
• Differentiating between pre-renal, renal, post-renal failure
• Clinical assessment
• Investigations required to establish diagnosis and aetiology
• Management according to cause of ARF

**Sub-Topic: Chronic Renal Failure**

**Learning Outcomes:**
At the end of the lecture students should be able to describe and discuss:
• Pathophysiology
• Causes of CRF
• Clinical features
• Complications
• Factors contributing to acute on chronic renal failure
• Investigations required to establish diagnosis and to look for complications
• Management
• Followup
• Renal replacement therapy indications and types

**Sub-Topic: Investigations of Renal disease**

**Learning Outcomes:**
At the end of the lecture students should be able to describe and discuss:
• GFR calculation
• Urinalysis

**Sub-Topic: Blood test**

**Learning Outcomes:**
At the end of the lecture students should be able to describe and discuss:

- Hemotology
- Biochemistry
- Immunology

Sub-Topic: Imaging
Learning Outcomes:
At the end of the lecture students should be able to describe and discuss:

- Ultrasound
- Computed tomography
- Magnetic resonance imaging
- Renal arterography
- CT angiography
- Intravenous urography
- Pyelography
- Radionuclide studies
- Renal biopsy
- Rationale of investigations.

METABOLIC DISORDERS

Sub-Topic: Gout
Learning Outcomes:
At the end of the lecture students should be able to describe and discuss:

- Pathophysiology
- Causes of Hyperuricemia and gout
- Clinical presentation and differentiating from other causes
- Investigations required for diagnosis
- Management of acute and chronic gout.

Sub-Topic: Osteogenesis imperfect
Learning Outcomes:
At the end of the lecture students should be able to describe and discuss:

- Pathophysiology
- Clinical presentation
- Differentiating from other causes of recurrent fractures
- Work up
- Management

Sub-Topic: Disorders of Aminoacid Metabolism
Learning Outcomes:
At the end of the lecture students should be able to describe and discuss:

- Role of aminoacids.
- Disorders resulting from derangement of aminoacid metabolism.
- Clinical features
- Diagnosis
- Treatment
- Prevention

Broad outline only

MISCELLANEOUS

Sub-Topic: Heat stroke/Heat Exhaustion
Learning Outcomes:
At the end of the lecture students should be able to describe and discuss:

- Normal thermoregulation
- Pathophysiology
- Difference between heat stroke and heat exhaustion.
- Risk factors predisposing to heat stroke clinical assessment of patient
- Other causes of hyperthermia
- Investigations
- Management

Sub-Topic: Snake Bite
Learning Outcomes:
At the end of the lecture students should be able to describe and discuss:

- Overview Viper vs Cobra
- Local and systemic effects
- Investigations (DIC profile, urine R/E)
- First aid in snake bite cases
- Role of anti-venom
- Supportive management

Sub-Topic: Electric shock
Learning Outcomes:
At the end of the lecture students should be able to describe and discuss:

- Damage caused by electric shock burns.
- Cardiac complications
- Management
# PAEDIATRICS

**Topic:** Measles

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**Learning outcome:** Student should be able to:
- Define Measles
- Describe clinical features
- Differentiate from other causes of rash
- Identify complications
- Manage disease and its complications
- Know immunization against measles
- Enlist preventive measures

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**Student Feedback Form**

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**Topic:** Malnutrition Assessment

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**Learning outcome:** Student should be able to:
- Define Malnutrition
- Enlist common etiological factors
- Classify
- Evaluate malnourished child from history and physical examination
- Plot Growth parameters on the percentile charts
- Know WHO management protocol for severe malnutrition
- Enlist the steps of nutritional rehabilitation

---

**Student Feedback Form** Growth parameters
1. **Topic:** Breast feeding

2. **Mode of Teaching:** Lecture

3. **Class:** Fourth Year MBBS

4. **Number of Slides:** 10-15

5. **Interactive Portion:** 25%

6. **Assessment:** 3 MCQs and 2 Scenarios

7. **Teacher:** Assistant Professor / SR

8. **Duration of Lecture**
   - Lecture: 45 Minutes
   - Interactive: 15 Minutes

   **Learning outcome:**
   - Enumerate advantages of breast feeding
   - Describe the physiology
   - Know the importance of early initiation of breast feeding
   - Enlist five steps towards good breast feeding

   **Student Feedback Form**

---

1. **Topic:** Bacterial Meningitis

2. **Mode of Teaching:** Lecture

3. **Class:** Fourth Year MBBS

4. **Number of Slides:** 10-15

5. **Pictures:** Meningococcemia

6. **Interactive Portion:** 25%

7. **Assessment:** 3 MCQs and 2 Scenarios

8. **Teacher:** Assistant Professor / SR

9. **Duration of Lecture**
   - Lecture: 45 Minutes
   - Interactive: 15 Minutes

   **Learning outcome:**
   - Define meningitis
   - Enlist common etiological factors according to age
   - Describe pathogenesis and clinical features
   - Plan pertinent investigations, interpret and take appropriate action
   - Make differential diagnosis
   - Monitor for complications
   - Enlist steps of management plan
   - Know immunization against meningitis and prophylaxis against H. influenzae and meningococcus

   **Student Feedback Form**

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1. **Mode of Teaching:** Lecture

2. **Class:** Fourth Year MBBS

3. **Number of Slides:** 10-15
### DEPARTMENT OF MEDICAL EDUCATION

RMC /Allied Hospitals, Rawalpindi

4th year Learning Outcome 2015

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**Tuberculous Meningitis**

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**Diphtheria**

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8. Teacher: Assistant Professor / SR
9. Duration of Lecture:
   Lecture: 45 Minutes
   Interactive: 15 Minutes
Learning outcome: Student should be able to:
   - Know etiology
   - Describe epidemiology and pathogenesis
   - Differentiate various types
   - Plan pertinent investigations, interpret and take appropriate action
   - Enumerate differential diagnosis
   - Enlist steps of management plan
   - Identify complications and know treatment accordingly
   - Know immunization against diphtheria

Student Feedback Form Growth parameters

1. Topic: Pertussis
2. Mode of Teaching: Lecture
3. Class: Fourth Year MBBS
4. Number of Slides: 10-15
5. Video: paroxysmal cough
6. Pictures: complications
7. Interactive Portion: 25%
8. Assessment: 3 MCQs and 2 Scenarios
9. Teacher: Assistant Professor / SR
10. Duration of Lecture:
    Lecture: 45 Minutes
    Interactive: 15 Minutes
Learning outcome: Student should be able to:
   - Know etiology
   - Describe epidemiology and pathogenesis
   - Discuss three stages of the disease
   - Differentiate clinical features according to age
   - Enumerate differential diagnosis
   - Enlist steps of management plan
   - Plan pertinent investigations, interpret and take appropriate action
   - Identify complications and know treatment accordingly
   - Know immunization against Pertussis
   - Preventive measures

Student Feedback Form Growth parameters

1. Topic: Malaria
2. Mode of Teaching: Lecture
3. Class: Fourth Year MBBS
4. Learning outcome  
   Student should be able to:

5. Number of Slides  
   10-15

6. Interactive Portion  
   25%

7. Assessment  
   3 MCQs and 2 Scenarios

8. Teacher  
   Assistant Professor / SR

9. Duration of Lecture  
   One Hour
   - Lecture: 45 Minutes
   - Interactive: 15 Minutes

   - Know etiology
   - Describe epidemiology and pathogenesis
   - Know incubation periods and clinical features according to the type and age
   - Plan pertinent investigations, interpret and take appropriate action
   - Enumerate differential diagnosis
   - Enlist steps of management
   - Identify complications and know treatment accordingly
   - Preventive measures

Student Feedback Form Growth parameters

1. Topic:  
   Enteric Fever

2. Mode of Teaching  
   Lecture

3. Class  
   Fourth Year MBBS

4. Number of Slides  
   10-15

5. Interactive Portion  
   25%

6. Assessment  
   3 MCQs and 2 Scenarios

7. Teacher  
   Assistant Professor / SR

8. Duration of Lecture  
   One Hour
   - Lecture: 45 Minutes
   - Interactive: 15 Minutes

9. Learning outcome  
   Student should be able to:

   - Define
   - Know etiology
   - Describe epidemiology and pathogenesis
   - Know incubation period and its clinical features according to the age
   - Plan pertinent investigations, interpret and take appropriate action
   - Enumerate differential diagnosis
   - Enlist steps of management
   - Identify complications and know treatment accordingly
   - Preventive measures

Student Feedback Form Growth parameters
10. Topic: Developmental milestones
11. Mode of Teaching Lecture
12. Class Fourth Year MBBS
13. Number of Slides 10-15
14. Interactive Portion 20%
15. Assessment 3 MCQs and 2 Scenarios
16. Teacher Assistant Professor / SR
17. Duration of Lecture 45 Minutes
   Lecture 35 Minutes
   Interactive 10 Minutes
Learning outcome Student should be able to:
• Know the developmental milestones according to gross motor, fine motor, vision, hearing, speech and social behavior at different ages.
• Assess developmental age.
• Recognise warning signs for developmental delay.

Student Feedback Form

1. Topic: Mental Retardation / Developmental Delay
2. Mode of Teaching Lecture
3. Class Fourth Year MBBS
4. Number of Slides 10-15
5. Interactive Portion 20%
6. Assessment 3 MCQs and 2 Scenarios
7. Teacher Assistant Professor / SR
8. Duration of Lecture 45 Minutes
   Lecture 35 Minutes
   Interactive 10 Minutes
Learning outcome Student should be able to:
• Define mental retardation and delayed development
• Enlist common and treatable causes
• Discuss clinical features
• Plan pertinent investigations, interpret and take appropriate action
• Manage

Student Feedback Form

1. Topic: Rickets (Vitamin D Deficiency)
2. Mode of Teaching Lecture
3. Class Fourth Year MBBS
4. Number of Slides 10-15
5. Interactive Portion 20%
6. Assessment 3 MCQs and 2 Scenarios
7. Teacher Assistant Professor / SR
8. Duration of Lecture 45 Minutes
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Learning outcome
Student should be able to:

- Know the metabolism of Vitamin D and pathophysiological basis of Rickets
- Enlist different causes
- Discuss clinical presentation
- Plan pertinent investigations, interpret and take appropriate action
- Manage

Student Feedback Form

1. Topic: **Thalassaemia**
2. Mode of Teaching Lecture
3. Class Fourth Year MBBS
4. Number of Slides 10-15
5. Pictures Thalasemia facies
6. Radiology X-ray Skull
7. Interactive Portion 20%
8. Assessment 3 MCQs and 2 Scenarios
9. Teacher Assistant Professor / SR
10. Duration of Lecture 45 Minutes
    Lecture 35 Minutes
    Interactive 10 Minutes

Learning outcome
Student should be able to:

- Define Thalassemia
- Identify the types and pathophysiology
- Describe the clinical features
- Plan pertinent investigations, interpret and take appropriate action
- Discuss the management of Thalasemia and its complications
- Do genetic counseling

Student Feedback Form

1. Topic: **Aplastic Anemia**
2. Mode of Teaching Lecture
3. Class Fourth Year MBBS
4. Number of Slides 10-15
5. Interactive Portion 20%
6. Assessment 3 MCQs and 2 Scenarios
7. Teacher Assistant Professor / SR
8. Duration of Lecture 45 Minutes
    Lecture 35 Minutes
    Interactive 10 Minutes

Learning outcome
Student should be able to:

- Define
- Enlist the etiology and types

Student Feedback Form
- Describe the pathophysiology
- Discuss the clinical features
- Make differential diagnosis
- Plan pertinent investigations, interpret and take appropriate action
- Enumerate complications
- Manage according to the cause
- Do counseling of the patients and parents.

Student Feedback Form

1. Topic: Hemophilia
2. Mode of Teaching: Lecture
3. Class: Fourth Year MBBS
4. Number of Slides: 10-15
5. Interactive Portion: 20%
6. Assessment: 3 MCQs and 2 Scenarios
7. Teacher: Assistant Professor / SR
8. Duration of Lecture: 45 Minutes
   - Lecture: 35 Minutes
   - Interactive: 10 Minutes

Learning outcome: Student should be able to:
- Define
- Know the pattern of inheritance
- Enlist the types and classify according to severity
- Describe the clinical features and complications
- Plan pertinent investigations, interpret and take appropriate action
- Manage and plan prophylaxis
- Do counseling of the patients and parents.

Student Feedback Form
PATHOLOGY DEPARTMENT

Topic: Oral Cavity
Date: 5-1-15
Time: 8-9am
Learning Outcomes: Infections/ Tumors

Topic: Salivary Glands
Date: 6-1-15
Time: 8-9am
Learning Outcomes: Infections/ Tumors

Topic: Esophagus Infection
Date: 7-1-15
Time: 8-9am
Learning Outcomes:

Topic: Stomach, Acute gastritis, Chronic gastritis
Date: 12-1-15
Time: 8-9am
Learning Outcomes:
- H pylori gastritis
- Autoimmune gastritis

Learning Outcomes: Complications of chronic gastritis
- Peptic ulcer disease
- Dysplasia
- Hypertrophic gastropathies
- Zollinger Ellison syndrome

Topic: Gastric polyps & tumors
Date: 14-1-15
Time: 8-9am
Learning Outcomes:
- Inflammatory & hyperplastic polyps
- Gastric adenoma
- Gastric adenocarcinoma
- Lymphoma
- Carcinoid tumor
- Stromal tumor

**Topics:**

**Complications of chronic gastritis**

**Date:** 19-1-15

**Time:** 8-9am

**Learning Outcomes:**
- Peptic ulcer disease
- Dysplasia
- Hypertrophic gastropathies
- Zollinger Ellison syndrome

**Gastric polyps & tumors**

**Date:** 20-1-15

**Time:** 8-9am

**Learning Outcomes:**
- Inflammatory & hyperplastic polyp
- Gastric adenoma
- Gastric adenocarcinoma
- Lymphoma
- Carcinoid tumor
- Stromal tumor

**Intestinal obstruction, Ischemic bowel disease Angiodysplasia Malabsorption & diarrhea, Infectious enterocolitis**

**Date:** 21-1-15

**Time:** 8-9am

**Learning Outcomes:**
- Cholera
- *Campylobacter enterocolitis*
- *Shigelllosis*
- *Salmonelllosis*
- *Typhoid fever*
- *Yersinia*
- *E coli*

**Date:** 26-1-15

**Time:** 8-9am
• Whipple disease
• Viral gastroenteritis
• Parasitic enterocolitis Irritable bowel syndrome
  Inflammatory bowel disease
• Crohn disease
• Ulcerative colitis Sigmoid diverticulitis

Topic: Polyps
Date: 27-1-15
Time: 8-9am
Learning Outcomes:
• Inflammatory polyps
• Hamartomatous polyps
• Hyperplastic polyps
• Neoplastic polyps Familial syndromes Adenocarcinoma
• Tumors of anal canal
• Hemorrhoids
• Acute appendicitis Tumors of appendix
• Inflammatory disease of peritoneal cavity

Topic: General features of hepatic disease
Date: 28-1-15
Time: 8-9am
Learning Outcomes:
• Patterns of hepatic injury
• Hepatic failure
• Cirrhosis
• Portal hypertension
• Jaundice & cholestasis

Topic: Infectious disorders
Date: 2-2-15
Time: 8-9am
Learning Outcomes:
• Viral hepatitis
• Bacterial, parasitic & helminthic infections
• Autoimmune hepatitis
• Drug & toxin induced liver disease
• Alcoholic liver disease
• Metabolic liver disease
• Nonalcoholic fatty liver disease
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- Hemochromatosis
- Wilson disease
- Antitrypsin deficiency
- Neonatal cholestasis

**Topic:** Intrahepatic biliary tract disease  
**Date:** 3-2-15  
**Time:** 8-9am  
**Learning Outcomes:**
- Secondary biliary cirrhosis
- Primary biliary cirrhosis
- Primary sclerosing
- Cholangitis
- Anomalies of biliary tree
- Circulatory disorders
- Impaired blood flow into liver
- Impaired blood flow through liver
- Hepatic venous outflow obstruction
- Hepatic complications
- Hepatic disease associated with pregnancy

**Topic:** Hepatic complications, Hepatic disease associated with pregnancy, Nodules & tumors  
**Date:** 4-2-15  
**Time:** 8-9am  
**Learning Outcomes:**
- Nodular hyperplasia
- Benign neoplasm
- Malignant tumors--HCC
- Metastatic tumors
- Congenital anomalies of biliary tract
- Disorders of gall bladder
- Cholelithiasis
- Cholecystitis
- Disorders of extrahepatic bile ducts
- Choledocholithiasis& ascending cholangitis
- Biliary atresia
- Choledochal cysts
- Tumors of gall bladder

**Topic:**  
**Date:** 9-2-15  
**Time:** 8-9am
Learning Outcomes:

- Pancreas
- Congenital anomalies
- Pancreatitis
- Non neoplastic cysts

Topic: Pituitary gland
Date: 10-2-15
Time: 8-9am

Learning Outcomes:

- Clinical manifestations of pituitary disease
- Pituitary adenomas & hyperpituitarism
- Hypopituitarism
- Posterior pituitary syndromes
- Hypothalamic suprasellar tumors

Topic: Thyroid gland
Date: 11-2-15
Time: 8-9am

Learning Outcomes:

- Hyperthyroidism
- Hypothyroidism
- Thyroiditis
- Graves disease
- Diffuse & multinodular goiter

Topic: Thyroid gland
Date: 16-2-15
Time: 8-9am

Learning Outcomes:

- Hyperthyroidism
- Hypothyroidism
- Thyroiditis
- Graves disease
- Diffuse & multinodular goiter

Topic: Thyroid gland
Date: 17-2-15
Time: 8-9am
Learning Outcomes:

- Neoplasms of thyroid
- Congenital anomalies

Topic: Parathyroid glands  
Date: 18-2-15  
Time: 8-9am

Learning Outcomes:

- Hyperparathyroidism
- Hypoparathyroidism
- Pseudohypoparathyroidism

Topic: Endocrine Pancreas  
Date: 23-2-15  
Time: 8-9am

Learning Outcomes:

- Diabetes mellitus
- Pancreatic endocrine neoplasm

Topic: Endocrine Pancreas  
Date: 24-2-15  
Time: 8-9am

Learning Outcomes:

- Diabetes mellitus
- Pancreatic endocrine neoplasm

Topic: Adrenal glands  
Date: 25-2-15  
Time: 8-9am

Learning Outcomes:

- Adrenocortical hyperfunction(hyperadrenalism)
- Adrenocortical insufficiency

Topic: Renal SystemClinical  
Date: 2-3-15  
Time: 8-9am

Learning Outcomes:

- Manifestations of renal diseases
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**Topic:** Renal System  
**Date:** 3-3-15  
**Time:** 8-9am  
**Learning Outcomes:**  
- Glomerular diseases  
- Clinical manifestations  
- Histologic alterations  
- Pathogenesis of glomerular injury  
- Mechanisms of progression in glomerular diseases

**Topic:** Renal System  
**Date:** 4-3-15  
**Time:** 8-9am  
**Learning Outcomes:**  
- Nephritic syndrome  
- Poststreptococcal, post infectious  
- Rapidly progressive GN

**Topic:** Renal System  
**Date:** 9-3-15  
**Time:** 8-9am  
**Learning Outcomes:**  
- Nephrotic syndrome  
- Isolated urinary abnormalities

**Topic:** Renal System  
**Date:** 10-3-15  
**Time:** 8-9am  
**Learning Outcomes:**  
- Chronic glomerulonephritis  
- Glomerular lesions associated with systemic diseases

**Topic:** Renal System  
**Date:** 11-3-15  
**Time:** 8-9am  
**Learning Outcomes:**  
- Tubular & interstitial diseases  
- Acute tubular necrosis  
- Tubulointerstitial nephritis
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4th year Learning Outcome 2015

- Urolithiasis

**Topic:** Renal System  
**Date:** 31-3-15  
**Time:** 8-9am  
**Learning Outcomes:**  
- Tumors of kidney  
- Benign tumors  
- Malignant tumors  
- Renal cell carcinoma, urothelial carcinoma

**Topic:** Renal System  
**Date:** 1-4-15  
**Time:** 8-9am  
**Learning Outcomes:**  
- Ureters  
- Congenital anomalies  
- Inflammation  
- Tumors  
- Obstructive lesions

**Topic:** Renal System  
**Date:** 6-4-15  
**Time:** 8-9am  
**Learning Outcomes:**  
- Urinary bladder  
- Congenital anomalies  
- Inflammation  
- Metaplastic lesions  
- Neoplasms  
- Obstruction

**Topic:** Renal System  
**Date:** 7-4-15  
**Time:** 8-9am  
**Learning Outcomes:**  
- Urethra  
- Inflammation  
- Tumors  
- Congenital & inflammatory lesions of testis & epididymis

**Topic:** Renal System  
**Date:** 8-4-15
Time: 8-9am
Learning Outcomes:
Testicular tumors
- Germ cell tumors
- Tumors of sex cord gonadal stroma
- Gonadoblastoma
- Testicular lymphoma

Topic: Renal System
Date: 13-4-15
Time: 8-9am
Learning Outcomes:
Prostate
- Inflammation

Topic: Renal System
Date: 14-4-15
Time: 8-9am
Learning Outcomes:
Prostate
- Tumors adenocarcinoma

Topic: Female genital tractInfections of the female genital tractVulva
Date: 15-4-15
Time: 8-9am
Learning Outcomes:
- Bartholin cyst
- Non neoplastic epithelial disorders
- Benign exophytic lesions
- Squamous neoplastic lesions
- Glandular neoplastic lesions
  Malignant melanoma

Topic: Female genital tractVagina
Date: 20-4-15
Time: 8-9am
Learning Outcomes:
- Development anomalies
- Premalignant & malignant neoplasms
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Topic: Female genital tract Cervix
Date: 21-4-15
Time: 8-9am
Learning Outcomes:
• Inflammation
• Endocervical polyps
• Premalignant & malignant neoplasms---cervical intraepithelial neoplasia, cervical carcinoma

Topic: Female genital tract Uterus & endometrium
Date: 22-4-15
Time: 8-9am
Learning Outcomes:
• Dysfunctional uterine bleeding
• Inflammation
• Endometriosis
• Endometrial polyps
• Endometrial hyperplasia
• Malignant neoplasms of endometrium
• Tumors of endometrium with stromal differentiation
• Tumors of myometrium

Topic: Female genital tract Fallopian tumors
Date: 27-4-15
Time: 8-9am
Learning Outcomes:
• Inflammation
• Tumors & cysts

Topic: Female genital tract Gestational & placental disorders
Date: 28-4-15
Time: 8-9am
Learning Outcomes:
• Disorders of early pregnancy
• Disorders of late pregnancy
• Gestational trophoblastic disease----hydatidiform mole, invasion mole, choriocarcinoma, placental site trophoblastic tumor

Topic: Female genital tract Ovaries
Date: 29-4-15
Time: 8-9am
Learning Outcomes:
• Non neoplastic & functional cysts
• Ovarian tumors---epithelial tumors, germ cell tumors, sex cord stromal tumors
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4th year Learning Outcome 2015

Topic: Breast
Date: 4-5-15
Time: 8-9am
Learning Outcomes:
- Disorders of development
- Clinical presentations of breast disease
- Inflammatory disorders
- Benign epithelial lesions
- Gynecomastia (male breast)

Topic: Breast
Date: 5-5-15
Time: 8-9am
Learning Outcomes:
- Carcinoma of breast
- Incidence & epidemiology
- Etiology & pathogenesis
- Classification
- Prognostic & predictive factors
- Stromal tumors

Topic: CVS
Date: 6-5-15
Time: 8-9am
Learning Outcomes:
- Blood vessels
- Structure & function of blood vessels
- Vessel development, growth & remodeling
- Congenital anomalies
- Vascular response to injury
- Hypertensive vascular disease
- Arteriosclerosis
- Atherosclerosis
- Epidemiology, Pathogenesis, Consequences

Topic: CVS
Date: 11-5-15
Time: 8-9am
Learning Outcomes:
- Blood vessels
- Aneurysms & dissection
  - Abdominal aortic aneurysm
  - Thoracic aortic aneurysms
  - Aortic dissection
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- Vasculitis
  Non infectious vasculitis
  Temporal arteritis
  Takayasu arteritis
  Polyarteritis nodosa
  Kawasaki disease
  Microscopic polyangiitis
  Wegener granulomatosis
  Buerger disease
  Infectious vasculitis
- Raynaud phenomenon

**Learning Outcomes:**
Blood vessels
- Veins & lymphatics
- Tumors
  Benign tumors-----Hemangioma, lymphangioma, glomangioma
  Intermediate tumors----Kaposi sarcoma, hemangioendothelioma
  Malignant tumors----angiosarcoma, hemangiopericytoma

**Topic:** CVS
**Date:** 12-5-15
**Time:** 8-9am

**Learning Outcomes:**
Heart
- Cardiac structure & specialization
- Effects of aging on heart
- Heart disease: overview of pathophysiology
- Heart failure
  Cardiac hypertrophy
  Left sided heart failure
  Right sided heart failure

**Topic:** CVS
**Date:** 13-5-15
**Time:** 8-9am

**Learning Outcomes:**
Heart
- Congenital heart disease
- Ischemic heart disease
- Angina pectoris
- Myocardial infarction
- Chronic ischemic heart disease
- Sudden cardiac death
  Hypertensive heart disease

**Topic:** CVS
**Date:** 18-5-15
**Time:** 8-9am

**Learning Outcomes:**
Heart
- Congenital heart disease
- Ischemic heart disease
- Angina pectoris
- Myocardial infarction
- Chronic ischemic heart disease
- Sudden cardiac death
  Hypertensive heart disease

**Topic:** CVS
**Date:** 19-5-15
**Time:** 8-9am
Learning Outcomes:
Heart
Valvular heart disease
- Calcific valvular degeneration
- Mitral valve prolapsed
- Rheumatic fever & rheumatic heart disease
- Infective endocarditis
- Non infected vegetations
- Carcinoid heart disease
- Complications

Topic: CVS
Date: 20-5-15
Time: 8-9am

Learning Outcomes:
Heart
Cardiomyopathies
- Dilated cardiomyopathy
- Hypertrophic cardiomyopathy
- Restrictive cardiomyopathy
- Myocarditis
Pericardial diseases
- Effusion
Pericarditis

Topic: CVS
Date: 25-5-15
Time: 8-9am

Learning Outcomes:
Heart
Tumors
- Primary---myxoma, lipoma, fibroelastoma, rhabdomyoma, sarcoma
- Cardiac effects of noncardiac neoplasms

Topic: CVS
Date: 26-5-15
Time: 8-9am

Learning Outcomes:
Diseases of white blood cells, lymph nodes, spleen & thymus
- Development & maintenance of hematopoietic tissues
- Disorders of WBC
- Leukopenia---neutropenia, agranulocytosis
- Reactive proliferations of WBC & lymph nodes
• Leukocytosis
• Lymphadenitis

**Topic:** CVS  
**Date:** 27-5-15  
**Time:** 8-9am

**Learning Outcomes:**
Diseases of white blood cells, lymph nodes, spleen & thymus  
Neoplastic proliferations of white cells

• Lymphoid neoplasms
  - Precursor B & T cell neoplasms  
  - Peripheral B cell neoplasm  
  - Peripheral T cell & NK cell neoplasms  
  - Hodgkin lymphoma

**Topic:** CVS  
**Date:** 1-6-15  
**Time:** 8-9am

**Learning Outcomes:**
Diseases of white blood cells, lymph nodes, spleen & thymus  
Myeloid neoplasms

• Ac myeloid leukemia  
• Myelodysplastic syndromes  
• Myeloproliferative disorders

**Topic:** CVS  
**Date:** 2-6-15  
**Time:** 8-9am

**Learning Outcomes:**
Diseases of white blood cells, lymph nodes, spleen & thymus

• Splenomegaly  
• Neoplasms of spleen  
• Congenital anomalies  
• Rupture of spleen

**Topic:** CVS  
**Date:** 3-6-15  
**Time:** 8-9am

**Learning Outcomes:**
Diseases of white blood cells, lymph nodes, spleen & thymus

• Developmental disorders of thymus  
• Thymic hyperplasia
Thymomas

**Topic:** CVS
**Date:** 8-6-15
**Time:** 8-9am

**Learning Outcomes:**
Red blood cells & bleeding disorders
Anemias
Anemias of blood loss
Hemolytic anemias
- hereditary spherocytosis
- Hemolytic disease due to red cell enzyme defect
- Sicke cell disease

**Topic:** CVS
**Date:** 9-6-15
**Time:** 8-9am

**Learning Outcomes:**
Red blood cells & bleeding disorders
- Thalassemia syndromes
- PNH
- Immunohemolyticanemias
- Hemolytic anemia resulting from trauma to RBCs

**Topic:** CVS
**Date:** 10-6-15
**Time:** 8-9am

**Learning Outcomes:**
Red blood cells & bleeding disorders
- Anemias of diminished erythropoiesis
- megaloblastic anemias, iron deficiency anemia, anemia of chronic disease, aplastic anemia, pure red cell aplasia

**Topic:** CVS
**Date:** 3-8-15
**Time:** 8-9am

**Learning Outcomes:**
- Red blood cells & bleeding disorders
- Polycythemia
Learning Outcomes:

- Red blood cells & bleeding disorders

Learning Outcomes:

- Red blood cells & bleeding disorders

Learning Outcomes:

- Red blood cells & bleeding disorders

Learning Outcomes:

- Red blood cells & bleeding disorders

Learning Outcomes:

- Red blood cells & bleeding disorders

Learning Outcomes:

- Red blood cells & bleeding disorders

Learning Outcomes:

- Red blood cells & bleeding disorders

Learning Outcomes:

- Red blood cells & bleeding disorders

Learning Outcomes:

- Red blood cells & bleeding disorders
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Topic:       Respiratory system
Date:       19-8-15
Time:       8-9am
Learning Outcomes:

- Congenital anomalies

Topic:       Respiratory system
Date:       24-8-15
Time:       8-9am
Learning Outcomes:

- Atelectasis

Topic:       Respiratory system
Date:       25-8-15
Time:       8-9am
Learning Outcomes:

- Pulmonary edema
- Hemodynamic Pulmonary Edema
- Edema Caused by Microvascular Injury

Topic:       Respiratory system
Date:       26-8-15
Time:       8-9am
Learning Outcomes:

- Acute Lung Injury and Acute Respiratory Distress
- Syndrome (Diffuse Alveolar Damage)
- Acute Interstitial Pnoumonia

Topic:       Respiratory system
Date:       31-8-15
Time:       8-9am
Learning Outcomes:

- Obstructive versus Restrictive Pulmonary Diseases
- Obstructive Pulmonary DiseasesEmphysema

Topic:       Respiratory system
Date:       1-9-15
Time:       8-9am
Learning Outcomes:

- Chronic Bronchitis
- Asthma
- Bronchiectasis

Topic:       Respiratory system
Date: 2-9-15  
Time: 8-9am
Learning Outcomes:
- Chronic Diffuse Interstitial (Restrictive) Diseases
  - Fibrosing Diseases
- Idiopathic
- Non specific interstitial pneumonia
- Cryptogenic organizing pneumonia

Date: 7-9-15  
Time: 8-9am
Learning Outcomes:
- Pulmonary involvement in connective tissue disease
- Pneumoconiosis

Date: 8-9-15  
Time: 8-9am
Learning Outcomes:
- Complications
- Granulomatous diseases
  - Sarcoidosis
  - Hypersensitivity pneumonitis

Date: 9-9-15  
Time: 8-9am
Learning Outcomes:
- Pulmonary eosinophilia
- Smoking related interstitial diseases
- Pulmonary alveolar proteinosis

Date: 14-9-15  
Time: 8-9am
Learning Outcomes:
- Diseases of vascular origin
- Pulmonary embolism, hemorrhage, infarction

Date: 15-9-15  
Time: 8-9am
Learning Outcomes:
- Pulmonary hypertension
- Diffuse pulmonary hemorrhage syndromes
- Goodpasture syndrome
- Idiopathic pulmonary hemosiderosis
- Wegener granulomatosis

Topic: Respiratory system
Date: 16-9-15
Time: 8-9am

Learning Outcomes:
- Pulmonary infections
- Community acquired acute pneumonias
- Community acquired atypical pneumonias
- Hospital acquired

Topic: Respiratory system
Date: 21-9-15
Time: 8-9am

Learning Outcomes:
- Aspiration pneumonia
- Lung abscess
- Chronic pneumonia
- Pneumonia in immunocompromised host
- Pulmonary disease in HIV infection

Topic: Respiratory system
Date: 22-9-15
Time: 8-9am

Learning Outcomes:
- Lung transplantation
- Tumors
  - Carcinomas
  - Neuroendocrine proliferations & tumors
  - Miscellaneous tumors
  - Metastatic tumors

Topic: Respiratory system
Date: 23-9-15
Time: 8-9am

Learning Outcomes:
- Pleura
- Pleural effusion
- Pneumothorax
- Pleural tumors

  **Topic:** Skin  
  **Date:** 28-9-15  
  **Time:** 8-9am  
  **Learning Outcomes:**  
  - Definitions of macroscopic & microscopic terms

- Disorders of pigmentation & melanocytes

  **Topic:** Skin  
  **Date:** 29-9-15  
  **Time:** 8-9am  
  **Learning Outcomes:**  
  - Benign epithelial tumors  
  - Premalignant & malignant epidermal tumors  
  - Actinic keratosis  
  - Squamous cell carcinoma  
  - Basal cell carcinoma
ORTHOPAEDICS

Topic: Ankle Fractures
1. Mode of teaching: Lecture
2. Class: Forth year MBBS
3. Number of slides: 35
4. Interactive portion: 25%
5. Teacher: Assistant professor / SR
6. Duration of lecture: One hour
7. Lecture 45 minutes
   Learning outcome: Student should be able to:
   • Define dislocation
   • Types of fracture associated with ankle dislocation
   • Able to differentiate fracture pattern on x rays,
   • Should know treatment
   • Identify complications

Topic: Colle’s Fracture
1. Mode of teaching: Lecture
2. Class: Forth year MBBS
3. Number of slides: 20
4. Interactive portion: 25%
5. Teacher: Assistant professor / SR
6. Duration of lecture: One hour
   Lecture 45 minutes
   Learning outcome: Student should be able to:
   • Define colle’s fracture
   • Classification of fracture
   • Able to differentiate fracture pattern on x rays,
   • Should know treatment
   • Identify complications

1. Topic: General Fracture Introduction
2. Mode of teaching: Lecture
3. Class: Forth year MBBS
4. Number of slides: 31
5. Interactive portion: 25%
6. Teacher: Assistant professor / SR
7. Duration of lecture: One hour
   Lecture 45 minutes
   Learning outcome: Student should be able to:
   • Define fracture
   • Types of fracture
   • Able to differentiate fracture pattern on x rays,
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4th year Learning Outcome 2015

- Identify complications

  Topic: Fracture Around Elbow
  1. Mode of teaching: Lecture
  2. Class: 4th year MBBS
  3. Number of slides: 31
  4. Interactive portion: 25%
  5. Teacher: Assistant professor / SR
  6. Duration of lecture: One hour
     Lecture 45 minutes
  Learning outcome: Students should be able
  - To assess clinically elbow fracture
  - Types of fracture
  - Able to differentiate fracture pattern on x rays,
  - Know general treatment plan
  - Identify complications

  Topic: Fracture Around Knee
  1. Mode of teaching: Lecture
  2. Class: 4th year MBBS
  3. Number of slides: 31
  4. Interactive portion: 25%
  5. Teacher: Assistant professor / SR
  6. Duration of lecture: One hour
     Lecture 45 minutes
  Learning Outcome: Students should be able
  - Define supracondylar femur fracture and schatzker fracture
  - Classification of fracture
  - Able to differentiate fracture pattern on x rays,
  - Should know treatment
  - Identify complications

  Topic: Hip Dislocation
  1. Mode of teaching: Lecture
  2. Class: 4th year MBBS
  Learning Outcome: Students should be able
  - Define dislocation
  - Interpret x rays of hip dislocation
  - Should know the complications of hip dislocation
  - Should know mechanism responsible for hip dislocation
  - Should know treatment
DEPARTMENT OF MEDICAL EDUCATION
RMC /Allied Hospitals, Rawalpindi
4th year Learning Outcome 2015

3. Number of slides: 31
4. Interactive portion: 25%
5. Teacher: Assistant professor / SR
6. Duration of lecture:
   Lecture 45 minutes

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Topic: Hip joint Fractures
1. Mode of teaching: Lecture
2. Class: Forth year MBBS
3. Number of slides: 40
4. Interactive portion: 25%
5. Teacher: Assistant professor / SR
6. Duration of lecture:
   Lecture 45 minutes

Learning Outcome: students should be able
- Define hip fracture
- Types of fracture
- Able to differentiate fracture pattern on x rays
- Know classification
- Should know treatment options
  Identify complications

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1. Topic: Shoulder Dislocation
2. Mode of teaching: Lecture
3. Class: Forth year MBBS
4. Number of slides: 40
5. Interactive portion: 25%
6. Teacher: Assistant professor / SR
7. Duration of lecture:
   Lecture 45 minutes

Learning Outcome: students should be able
- Define dislocation
- Interpret x rays of shoulder dislocation
- Should know the complications of shoulder dislocation
- Should know mechanism responsible for shoulder dislocation
- Should know treatment

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Topic: Wrist Fractures
1. Mode of teaching: Lecture
2. Class: Forth year MBBS
3. Number of slides: 40
4. Interactive portion: 25%
5. Teacher: Assistant professor / SR
6. Duration of lecture: One hour
   Lecture  45 minutes
   Learning Outcome students should be able
   o Know the anatomy of wrist joint
   o To interpret x rays of wrist joint
   o To pick fractures of carpal bones
   o Know the treatment
   o Know the complications of carpal bone fractures

   Topic: Congenital Muscular Torticollis
   1. Mode of teaching: Lecture
   2. Class: Forth year MBBS
   3. Number of slides: 35
   4. Interactive portion: 25%
   5. Teacher: Assistant professor / SR
   6. Duration of lecture: One hour
   Lecture  45 minutes
   Learning Outcome Students should be able
   • What is Congenital Muscular Torticollis
   • Etiology of CMT
   • Symptoms of CMT
   • D/D of CMT
   • What is the treatment options for CMT

   Topic: Osteogenesis Imperfecta
   1. Mode of teaching: Lecture
   2. Class: Forth year MBBS
   3. Number of slides: 40
   4. Interactive portion: 25%
   5. Teacher: Assistant professor / SR
   6. Duration of lecture: One hour
   Lecture  45 minutes
   Learning Outcome Students should be able
   • What is Osteogenesis Imperfecta?
   • How to diagnose it?
   • Classification
   • Management & Treatment

   Topic: Osteomyelitis
   1. Mode of teaching: Lecture
   2. Class: Forth year MBBS
   3. Number of slides: 40
   4. Interactive portion: 25%
5. Teacher: Assistant professor / SR
6. Duration of lecture: One hour
   Lecture 45 minutes
   Learning Outcome students should be able
   • What is Osteomyelitis
   • Classification of Osteomyelitis
   • Predisposing Factors
   • Pathogenesis
   • Signs & Symptoms
   • Treatment
   • Complications

1. Topic: SUPRACONDYLER FRACTURE OF HUMERUS
2. Mode of teaching: Lecture
3. Class: Forth year MBBS
4. Number of slides: 40
5. Interactive portion: 25%
6. Teacher: Assistant professor / SR
7. Duration of lecture: One hour
   Lecture 45 minutes
   Learning Outcome Students should be able
   • Definition of Supracondyler Fractures
   • Causes
   • Classification of Supracondyler Fractures
   • How to Diagnosis
   • Treatment Options
   • Complications

8. Topic: Ankle Fractures
9. Mode of teaching: Lecture
10. Class: Forth year MBBS
11. Number of slides: 35
12. Interactive portion: 25%
13. Teacher: Assistant professor / SR
14. Duration of lecture: One hour
   Lecture 45 minutes
   Learning outcome: Student should be able to:
   • Define dislocation
   • Types of fracture associated with ankle dislocation
   • Able to differentiate fracture pattern on x rays,
   • Should know treatment
   • Identify complications
## ORTHOPAEDICS
### LEARNING OUTCOME

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 7. | Topic: | Colle’s Fracture |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 8. | Mode of teaching: | Lecture |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 9. | Class: | Forth year MBBS |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 10. | Number of slides: | 20 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 11. | Interactive portion: | 25% |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 12. | Teacher: | Assistant professor / SR |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 13. | Duration of lecture: | One hour | Lecture | 45 minutes | Learning outcome: | Student should be able to: |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 8. | Topic: | General Fracture Introduction |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 9. | Mode of teaching: | Lecture |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 10. | Class: | Forth year MBBS |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 11. | Number of slides: | 31 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 12. | Interactive portion: | 25% |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 13. | Teacher: | Assistant professor / SR |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 14. | Duration of lecture: | One hour | Lecture | 45 minutes | Learning outcome: | Student should be able to: |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 7. | Topic: | Fracture Around Elbow |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 8. | Mode of teaching: | Lecture |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 9. | Class: | Forth year MBBS |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 10. | Number of slides: | 31 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 11. | Interactive portion: | 25% |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 12. | Teacher: | Assistant professor / SR |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 13. | Duration of lecture: | One hour | Lecture | 45 minutes | Learning outcome: | Students should be able to: |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

- Define colle’s fracture
- Classification of fracture
- Able to differentiate fracture pattern on x rays
- Should know treatment
- Identify complications
7. Topic: **Fracture Around Knee**
8. Mode of teaching: Lecture
9. Class: 4th year MBBS
10. Number of slides: 31
11. Interactive portion: 25%
12. Teacher: Assistant professor / SR
13. Duration of lecture: One hour
   
   Learning Outcome: students should be able to:
   - Define supracondylar femur fracture and schatzker fracture
   - Classification of fracture
   - Able to differentiate fracture pattern on x rays,
   - Should know treatment
   - Identify complications

7. Topic: **Hip Dislocation**
8. Mode of teaching: Lecture
9. Class: 4th year MBBS
10. Number of slides: 31
11. Interactive portion: 25%
12. Teacher: Assistant professor / SR
13. Duration of lecture: One hour
   
   Learning Outcome: students should be able to:
   - Define dislocation
   - Interpret x rays of hip dislocation
   - Should know the complications of hip dislocation
   - Should know mechanism responsible for hip dislocation
   - Should know treatment

7. Topic: **Hip joint Fractures**
8. Mode of teaching: Lecture
9. Class: 4th year MBBS
10. Number of slides: 40
11. Interactive portion: 25%
12. Teacher: Assistant professor / SR
13. Duration of lecture: One hour
   Lecture 45 minutes

Learning Outcome students should be able

- Define hip fracture
- Types of fracture
- Able to differentiate fracture pattern on x rays
- Know classification
- Should know treatment options
  Identify complications

8. Topic:  Shoulder Dislocation
9. Mode of teaching: Lecture
10. Class: Forth year MBBS
11. Number of slides: 40
12. Interactive portion: 25%
13. Teacher: Assistant professor / SR
14. Duration of lecture: One hour
   Lecture 45 minutes

Learning Outcome students should be able

- Define dislocation
- Interpret x rays of shoulder dislocation
- Should know the complications of shoulder dislocation
- Should know mechanism responsible for shoulder dislocation
- Should know treatment

7. Topic:  Wrist Fractures
8. Mode of teaching: Lecture
9. Class: Forth year MBBS
10. Number of slides: 40
11. Interactive portion: 25%
12. Teacher: Assistant professor / SR
13. Duration of lecture: One hour
   Lecture 45 minutes

Learning Outcome students should be able

- Know the anatomy of wrist joint
- To interpret x rays of wrist joint
- To pick fractures of carpal bones
- Know the treatment
- Know the complications of carpal bone fractures
7. Topic: Congenital Muscular Torticollis
8. Mode of teaching: Lecture
9. Class: Forth year MBBS
10. Number of slides: 35
11. Interactive portion: 25%
12. Teacher: Assistant professor / SR
13. Duration of lecture: One hour
   Lecture 45 minutes
   Learning Outcome Students should be able
   • What is Congenital Muscular Torticollis
   • Etiology of CMT
   • Symptoms of CMT
   • D/D of CMT
   • What is the treatment options for CMT

7. Topic: Osteogenesis Imperfecta
8. Mode of teaching: Lecture
9. Class: Forth year MBBS
10. Number of slides: 40
11. Interactive portion: 25%
12. Teacher: Assistant professor / SR
13. Duration of lecture: One hour
   Lecture 45 minutes
   Learning Outcome Students should be able
   • What is Osteogenesis Imperfecta?
   • How to diagnose it?
   • Classification
   • Management & Treatment

7. Topic: Osteomyelitis
8. Mode of teaching: Lecture
9. Class: Forth year MBBS
10. Number of slides: 40
11. Interactive portion: 25%
12. Teacher: Assistant professor / SR
13. Duration of lecture: One hour
   Lecture 45 minutes
   Learning Outcome students should be able
   • What is Osteomyelitis
   • Classification of Osteomyelitis
   • Predisposing Factors
   • Pathogenesis
   • Signs & Symptoms
• Treatment
• Complications

8. Topic: SUPRACONDYLAR FRACTURE OF HUMERUS
9. Mode of teaching: Lecture
10. Class: Fourth year MBBS
11. Number of slides: 40
12. Interactive portion: 25%
13. Teacher: Assistant professor / SR
14. Duration of lecture: One hour
   Lecture 45 minutes
Learning Outcome Students should be able
• Definition of Supracondylar Fractures
• Causes
• Classification of Supracondylar Fractures
• How to Diagnosis
• Treatment Options
• Complications
ORTHOPAEDICS
LEARNING OUTCOME

15. Topic: Ankle Fractures
16. Mode of teaching: Lecture
17. Class: Fourth year MBBS
18. Learning outcome: Student should be able to:
   • Define dislocation
   • Types of fracture associated with ankle dislocation
   • Able to differentiate fracture pattern on x rays,
   • Should know treatment
   • Identify complications
19. Number of slides: 35
20. Interactive portion: 25%
21. Teacher: Assistant professor / SR
22. Duration of lecture: One hour
   Lecture 45 minutes

ORTHOPAEDICS
LEARNING OUTCOME

Topic: Colle’s Fracture

14. Mode of teaching: Lecture
15. Class: Fourth year MBBS
16. Learning outcome: Student should be able to:
   • Define colle’s fracture
   • Classification of fracture
   • Able to differentiate fracture pattern on x rays,
   • Should know treatment
   • Identify complications
17. Number of slides: 20
18. Interactive portion: 25%
19. Teacher: Assistant professor / SR
20. Duration of lecture: One hour
   Lecture 45 minutes

ORTHOPAEDICS
LEARNING OUTCOME

Topic: General Fracture Introduction

15. Mode of teaching: Lecture
16. Class: Fourth year MBBS
17. Learning outcome: Student should be able to:
   • Define fracture
• Types of fracture
• Able to differentiate fracture pattern on x rays,
• Identify complications
18. Number of slides: 31
19. Interactive portion: 25%
20. Teacher: Assistant professor / SR
21. Duration of lecture: One hour
   Lecture 45 minutes

ORTHOPAEDICS
LEARNING OUTCOME

14. Topic: Fracture Around Elbow
15. Mode of teaching: Lecture
16. Class: Forth year MBBS
   Learning outcome Students should be able
• To assess clinically elbow fracture
• Types of fracture
• Able to differentiate fracture pattern on x rays,
• Know general treatment plan
• Identify complications
17. Number of slides: 31
18. Interactive portion: 25%
19. Teacher: Assistant professor / SR
20. Duration of lecture: One hour
   Lecture 45 minutes

ORTHOPAEDICS
LEARNING OUTCOME

14. Topic: Fracture Around Knee
15. Mode of teaching: Lecture
16. Class: Forth year MBBS
   Learning Outcome students should be able
• Define supracondylar femur fracture and schatzker fracture
• Classification of fracture
• Able to differentiate fracture pattern on x rays,
• Should know treatment
• Identify complications
17. Number of slides: 31
18. Interactive portion: 25%
19. Teacher: Assistant professor / SR
20. Duration of lecture: One hour
<table>
<thead>
<tr>
<th>Lecture</th>
<th>45 minutes</th>
</tr>
</thead>
</table>

**ORTHOPAEDICS LEARNING OUTCOME**

**14. Topic:** Hip Dislocation

**15. Mode of teaching:** Lecture

**16. Class:** Forth year MBBS

**Learning Outcome**
- Define dislocation
- Interpret x rays of hip dislocation
- Should know the complications of hip dislocation
- Should know mechanism responsible for hip dislocation
- Should know treatment

**17. Number of slides:** 31

**18. Interactive portion:** 25%

**19. Teacher:** Assistant professor / SR

**20. Duration of lecture:** One hour
- Lecture 45 minutes

**ORTHOPAEDICS LEARNING OUTCOME**

**14. Topic:** Hip joint Fractures

**15. Mode of teaching:** Lecture

**16. Class:** Forth year MBBS

**Learning Outcome**
- Define hip fracture
- Types of fracture
- Able to differentiate fracture pattern on x rays
- Know classification
- Should know treatment options
- Identify complications

**17. Number of slides:** 40

**18. Interactive portion:** 25%

**19. Teacher:** Assistant professor / SR

**20. Duration of lecture:** One hour
- Lecture 45 minutes

**Topic:** Shoulder Dislocation

**15. Mode of teaching:** Lecture

**16. Class:** Forth year MBBS

**17. Number of slides:** 40

**18. Interactive portion:** 25%
19. Teacher: Assistant professor / SR
20. Duration of lecture: One hour
   Lecture 45 minutes
   Learning Outcome students should be able
   • Define dislocation
   • Interpret x rays of shoulder dislocation
   • Should know the complications of shoulder dislocation
   • Should know mechanism responsible for shoulder dislocation
   • Should know treatment

Topic: Wrist Fractures
14. Mode of teaching: Lecture
15. Class: Forth year MBBS
16. Number of slides: 40
17. Interactive portion: 25%
18. Teacher: Assistant professor / SR
19. Duration of lecture: One hour
   Lecture 45 minutes
   Learning Outcome students should be able
   o Know the anatomy of wrist joint
   o To interpret x rays of wrist joint
   o To pick fractures of carpal bones
   o Know the treatment
   o Know the complications of carpal bone fractures

Topic: Congenital Muscular Torticollis
14. Mode of teaching: Lecture
15. Class: Forth year MBBS
16. Number of slides: 35
17. Interactive portion: 25%
18. Teacher: Assistant professor / SR
19. Duration of lecture: One hour
   Lecture 45 minutes
   Learning Outcome Students should be able
   • What is Congenital Muscular Torticollis
   • Etiology of CMT
   • Symptoms of CMT
   • D/D of CMT
   • What is the treatment options for CMT

Topic: Osteogenesis Imperfecta
14. Mode of teaching: Lecture
15. Class: Forth year MBBS
16. Number of slides: 40
17. Interactive portion: 25%
18. Teacher: Assistant professor / SR
19. Duration of lecture: One hour
   Lecture 45 minutes
   Learning Outcome Students should be able
   • What is Osteogenesis Imperfecta?
   • How to diagnose it?
   • Classification
   • Management & Treatment

Topic: Osteomyelitis
14. Mode of teaching: Lecture
15. Class: Forth year MBBS
16. Number of slides: 40
17. Interactive portion: 25%
18. Teacher: Assistant professor / SR
19. Duration of lecture: One hour
   Lecture 45 minutes
   Learning Outcome students should be able
   • What is Osteomyelitis
   • Classification of Osteomyelitis
   • Predisposing Factors
   • Pathogenesis
   • Signs & Symptoms
   • Treatment
   • Complications

15. Topic: SUPRACONDYLER FRACTURE OF HUMERUS
16. Mode of teaching: Lecture
17. Class: Forth year MBBS
18. Number of slides: 40
19. Interactive portion: 25%
20. Teacher: Assistant professor / SR
21. Duration of lecture: One hour
   Lecture 45 minutes
   Learning Outcome Students should be able
   • Definition of Supracondyler Fractures
   • Causes
   • Classification of Supracondyler Fractures
   • How to Diagnosis
   • Treatment Options
   • Complication
Dr. Anis Ahmed. Assistant Professor Surgery RMC. SU-I BBH

**Topic: MANAGEMENT OF CHEST TRAUMA**

**Learning Outcomes:**
At the end of the lecture the students will be able to:

- Understand the anatomy of the chest wall
- Define the type of chest trauma
- Describe the emergency management of chest trauma.

**Topic: POST OPERATIVE CARE**

**Learning Outcomes:**
At the end of the lecture the students will be able to:

- Define preoperative period
- Enlist mild moderate and major operations
- Define steps in the management of post operative care.

**Topic: PREOPERATIVE CARE**

**Learning Outcomes:**
At the end of the lecture the students will be able to:

- Define preoperative period
- Enlist the steps of preparation of the patient for the operation.
- Describe the risks and benefits of the operation to the patient.

**Topic: SURGICAL DISORDERS OF INFANTS**

**Learning Outcomes:**
At the end of the lecture the students will be able to:

- Define various surgical disorders in infants.
- Briefly outline the steps in the management of these disorders.

**Topic: MANAGEMENT OF TRAUMA**

**Learning Outcomes:**
At the end of the lecture the students will be able to:

- Define what is trauma.
- Steps in the management of trauma
- ATLS protocols in the management of trauma.
- Outline trimodal pattern of death in trauma.

**Topic: ARTERIAL DISORDERS**

**Learning Outcomes:**
At the end of the lecture the students will be able to:
• Classify arterial disorders
• Define signs and symptoms associated with arterial disorders
  Briefly outline the plan of management of arterial disorders.
SURGERY
DHQ HOSPITAL RAWALPINDI

1- TOPIC:  
**BASIC TRAUMA LIFE SUPPORT**

- Lecture: 30 to 45 minutes
- Interactive session: 15 minutes
- No. of slides: 20 -35
- Teacher: Dr. Naveed Akhtar Malik (Assistant Professor Surgery)
- Duration of lecture: 60 minutes.

**At the end of the session the 4th year students should be able to:**

i. Assess the trauma victim
ii. Understand the primary, secondary survey and the initial resuscitation
iii. Perform rescue breathing chest compression
iv. Trauma victim in safe position

2- TOPIC:
**CARE IN OPERATION THEATRE**

- Lecture: 30 to 45 minutes
- Interactive session: 15 minutes
- No. of slides: 20 -35
- Teacher: Dr. Naveed Akhtar Malik (Assistant Professor Surgery)
- Duration of lecture: 60 minutes.

**At the end of the session the 4th year students should be able to:**

i. Understand and prevent complications in operation theatre.
ii. Learn the safe positioning of patients whilst they are unconscious.
iii. Respect and understand the principles of diathermy, suction and X-ray usage in theatre
iv. Understand the theatre environment and how to behave in it.

1. TOPIC:
**THROMBOEMBOLISM**

- Lecture: 30 to 45 minutes
- Interactive session: 15 minutes
- No. of slides: 20 -35
- Teacher: Dr. Naveed Akhtar Malik (Assistant Professor Surgery)
- Duration of lecture: 60 minutes.

**At the end of the session the 4th year students should be able to:**

i. Define hypercoaguable state and VTE
ii. Identify clinical features of VTE
iii. Describe the causes, risk factors and prophylaxis of VTE
iv. Describe Evidence-based recommendations for treatment of VTE
v. Relate recent advances in oral anticoagulation to VTE and prevention of new cases of VTE
vi. Decide anticoagulation in pre-op, per-op and post-op patients.
2. **TOPIC:** DISASTER MANAGEMENT  
   Lecture: 30 to 45 minutes  
   Interactive session: 15 minutes  
   No. of slides: 20 - 35  
   Teacher: Dr. Naveed Akhtar Malik (Assistant Professor Surgery)  
   Duration of lecture: 60 minutes.  

   **At the end of the session the 4th year students should be able to:**  
   i. Define triage  
   ii. Identify etiology and mechanism of trauma in disaster victims.  
   iii. Classify injuries in disaster victims with order of incidence & criticality.  
   iv. Diagnose these injuries clinically and interpret investigations.  
   v. Manage trauma effectively as an individual and in a team.  
   vi. Identify the life saving measures in disaster victims.

3. **TOPIC:** MANAGEMENT OF WOUND  
   Lecture: 30 to 45 minutes  
   Interactive session: 15 minutes  
   No. of slides: 20 - 35  
   Teacher: Dr. Naveed Akhtar Malik (Assistant Professor Surgery)  
   Duration of lecture: 60 minutes.  

   **At the end of the session the 4th year students should be able to:**  
   i. Define wound  
   ii. Classify types of wounds  
   iii. Differentiate clinically between different grades of wound and grades of wound healing  
   iv. Identify etiology of wounds & causes and risk factors for wound infection  
   v. Describe various types of bandages and dressings in management of wound types  
   vi. Plan investigations, interpret and take appropriate actions.  
   vii. Discuss rehabilitation in case of debilitating wounds.
DEPARTMENT OF MEDICAL EDUCATION
RMC /Allied Hospitals, Rawalpindi
4th year Learning Outcome 2015

DEPARTMENT OF NEUROSURGERY
PROFESSOR DR. Muhammad Arif Malik
Associate Professor Dr. Nadeem Akhtar

1. Topic Head Injury Pathophysiology
2. Mode of Teaching Lecture
3. Class Fourth Year MBBS
4. Number of Slides 10-15
5. Interactive portion 25%
6. Assessment 03 MCQs and 2 Scenarios
7. Teacher Professor/Associate Professor
8. Duration of lecture 45min
   Lecture 35 min
   Interactive 10 min

Learning Outcome
Student should be able to:
• Define concussion, contusion, counter and diffuse axonal injury.
• How will you categorized head injury into minimal, mild, moderate, severe and critical.
• Explain primary injury, secondary injury in a patient with head trauma
• What is post traumatic brain swelling, explain the process involved
• What is the Monroe-Kellie theory?

Student feedback form

1. Topic Degenerative Disc Disease
2. Mode of Teaching Lecture
2. Class: Fourth Year MBBS
3. Number of Slides: 10-15
4. Interactive portion: 25%
5. Assessment: 03 MCQs and 2 Scenarios
6. Teacher: Professor/Associate Professor
7. Duration of lecture: 45min
   Lecture: 35 min
   Interactive: 10 min

Learning Outcome: Student should be able to:
- Define degenerative disc disease
- What are 02 most common types
- What is the pathophysiology
- How is lumbar spinal stenosis diagnosed clinically and radiologically
- How does cervical spinal stenosis present
- What are the DDS
- How will you manage spinal stenosis and spondylolisthesis

Student feedback form

1. Topic: Neural Tube Defects
2. Mode of Teaching: Lecture
3. Class: Fourth Year MBBS
4. Number of Slides: 10-15
5. Interactive portion: 25%
6. Assessment: 03 MCQs and 2 Scenarios
7. Teacher: Professor/Associate Professor
8. Duration of lecture: 45min
   Lecture: 35 min
   Interactive: 10 min

Learning Outcome: Student should be able to:
- How are NTDs classified
- What are the risk factors leading to NTDs
- What investigations help in the detection of NTDs
- Define spinal bifida oculta
- Explain spinal bifida aperta and meningomylocele

Student feedback form

1. Topic: Spinal Injuries
2. Mode of Teaching: Lecture
3. Class: Fourth Year MBBS
4. Interactive portion: 25%
5. Assessment: 03 MCQs and 2 Scenarios
6. Teacher: Professor/Associate Professor
7. Duration of lecture: 45min
DEPARTMENT OF MEDICAL EDUCATION
RMC /Allied Hospitals, Rawalpindi
4th year Learning Outcome 2015

Lecture 35 min
Interactive 10 min
Number of Slides 10-15
Learning Outcome Student should be able to:

• Define spinal stability and spinal instability
• Level of injury
• What is complete/incomplete injury
• What is spinal shock
• Name the different spinal cord injuries
• What is the pathogenesis injuries
• Clinically how can you differentiate them
• How will you investigate these patients

8. Student feedback form

1. Topic Hydrocephalus
2. Mode of Teaching Lecture
3. Class Fourth Year MBBS
4. Number of Slides 10-15
5. Interactive portion 25%
6. Assessment 03 MCQs and 2 Scenarios
7. Teacher Professor/Associate Professor
8. Duration of lecture 45min
Lecture 35 min
Interactive 10 min
Learning Outcome Student should be able to:

• Define hydrocephalus
• What are 02 fundamental sub division s of hydrocephalus
• What are special forms of hydrocephalus
• What are the causes of hydrocephalus
• What is the CT/MRI criteria to diagnose hydrocephalus
• What are the sighnanfsyntoms of Hydrocephalus
  Percentage of mortalities of Hydrocephalus
Student feedback form

1. Topic Spinal Infections
2. Mode of Teaching Lecture
3. Class Fourth Year MBBS
4. Number of Slides 10-15
5. Interactive portion 25%
6. Assessment 03 MCQs and 2 Scenarios
7. Teacher Professor/Associate Professor
8. Duration of lecture 45min
Lecture 35 min
Interactive 10 min
Learning Outcome  
Student should be able to:

- Categorized Spinal infections
- What are causes of Spinal infections
- How will patients present with spinal infections
- How will you investigate these patients
- What is the pathophysiology of spinal cord dysfunction in these patients
- What will be your DIDs

Student feedback form

1. Topic  
   Brain Tumor 1
2. Mode of Teaching  
   Lecture
3. Class  
   Fourth Year MBBS
4. Number of Slides  
   10-15
5. Interactive portion  
   25%
6. Assessment  
   03 MCQs and 2 Scenarios
7. Teacher  
   Professor/Associate Professor
8. Duration of lecture  
   45min
   Lecture 35 min
   Interactive 10 min

Learning Outcome  
Student should be able to:

- Classify Brain tumors
- How patients present clinically
- How will you investigate these patients
- Possible medical management and admission
- What are the surgical options
- What are the adjacent therapies available

Student feedback form

1. Topic  
   Brain Tumor 2
2. Mode of Teaching  
   Lecture
3. Class  
   Fourth Year MBBS
4. Number of Slides  
   10-15
5. Interactive portion  
   25%
6. Assessment  
   03 MCQs and 2 Scenarios
7. Teacher  
   Professor/Associate Professor
8. Duration of lecture  
   45min
   Lecture 35 min
   Interactive 10 min

Learning Outcome  
Student should be able to:

- Classify Brain tumors
- How patients present clinically
- How will you investigate these patients
- Possible medical management and admission
• What are the surgical options
• What are the adjunct therapies available.

Student feedback form

1. Topic Management of Hemorrhagic Stroke
2. Mode of Teaching Lecture
3. Class Fourth Year MBBS
4. Number of Slides 10-15
5. Interactive portion 25%
6. Assessment 03 MCQs and 2 Scenarios
7. Teacher Professor/Associate Professor
8. Duration of lecture 45min
   Lecture 35 min
   Interactive 10 min

Learning Outcome
Student should be able to:
• What are the causes of Hemorrhagic Stroke
• Classify hemorrhagic stroke
• How will you manage
• What are the surgical options in management

Student feedback form

1. Topic Trigeminal Neuralgia
2. Mode of Teaching Lecture
3. Class Fourth Year MBBS
4. Number of Slides 10-15
5. Interactive portion 25%
6. Assessment 03 MCQs and 2 Scenarios
7. Teacher Professor/Associate Professor
8. Duration of lecture 45min
   Lecture 35 min
   Interactive 10 min

Learning Outcome
Student should be able to:
• Define Trigeminal Neuralgia
• Enumerate causes of Trigeminal Neurlgia
• how you will examine this patient
• Medical therapy for Trigeminal neuralgia
• What are the surgical options for trigeminal neuralgia

Student feedback form

1. Topic Brain Infections
2. Mode of Teaching Lecture
3. Class Fourth Year MBBS
4. Number of Slides 10-15
5. Interactive portion 25%
6. Assessment 03 MCQs and 2 Scenarios
7. Teacher Professor/Associate Professor
8. Duration of lecture 45min
   Lecture 35 min
   Interactive 10 min

Learning Outcome
Student should be able to:
• Enumerate the infections after developing a brain abscess
• What are the main vectors for of brain infections
• Enumerate the most common pathogens.
• How do patients present with Brain infection
• How will you investigate these patients
• How will you treat these patients
• What is the criteria for surgical intervention

Student feedback form

1. Topic Neuro Imaging
2. Mode of Teaching Lecture
3. Class Fourth Year MBBS
4. Number of Slides 10-15
5. Interactive portion 25%
6. Assessment 03 MCQs and 2 Scenarios
7. Teacher Professor/Associate Professor
8. Duration of lecture 45min
   Lecture 35 min
   Interactive 10 min

Learning Outcome
Student should be able to:
• CT Scan Brain
  • What to order
  • Where to order a CAT Scan (indications)
  • Which are the main emergent conditions to rule out in head injury in a CT scan brain
  • When to re-scan a patient with head injury
  • How to differ between EDH, SDH, SAH and contusions.

• Spinal Films
  • In trauma: which x-rays to order and when
  • When to order lumber and thoracic x-Rays

• Skull X-Rays
  • Why importance to do skull x-rays
  • What should be looked for in a skull x-rays

• MRI Scan in treatment
  • What is role of MRI in head trauma
  • What is the role of arteriogram in trauma
1. Topic CSF Rhinorhea
2. Mode of Teaching Lecture
3. Class Fourth Year MBBS
4. Number of Slides 10-15
5. Interactive portion 25%
6. Assessment 03 MCQs and 2 Scenarios
7. Teacher Professor/Associate Professor
8. Duration of lecture 45min

   Lecture 35 min
   Interactive 10 min

Learning Outcome

Student should be able to:

- What is the pathway of egress CSF Rhinorhea
- 02 most common subtype of CSF Rhinorhea.
- What is the natural history of CSF Rhinorhea in traumatic and spontaneous CSF Rhinorhea
- Causes of traumatic CSF Rhinorhea
- Causes of spontaneous CSF Rhinorhea
- Which investigations will help in determining if CSF Rhinorhea is due to a CSF Fistula

Student feedback form