



MGM INSTITUTE OF HEALTH SCIENCES

(Deemed to be University u/s 3 of UGC Act, 1956)

Grade 'A' Accredited by NAAC

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COMPETENCY BASED MEDICAL EDUCATION (CBME)

(with effect from 2019-2020 Batches)

Curriculum for Third M.B.B.S – Part II Orthopaedics

Approved as per AC-41/2021, Dated 27/08/2021

Amended History

1. Approved as per AC-41/2021, Resolution No. 5.6, Dated 27/08/2021.

Resolution No. 5.6 of AC-41/2021: Resolved to approve the “Curriculum and Logbook of Orthopaedics” which is prepared according to CBME guidelines, to be implemented from UG admission batch of 2019 onwards

Annexure-62A of AC-41-2021

ORTHOPAEDICS

UG

CURRICULUM

CBME PHASE 3

AND 4

Total LGT 15 hours Total SGT 20 hours. For part 1

Total LGT 20 hours total SGT 25 hours for part 2

1. Topic: Skeletal Trauma, Poly trauma

Code		Teaching Method	Hours	Part
OR1.1	Describe and discuss the Principles of pre-hospital care and Casualty management of a trauma victim including principles of triage	LGT (1 hour)	1	1
OR1.2	Describe and discuss the aetiopathogenesis, clinical features, investigations, and principles of management of shock	LGT	1	1
OR1.3	Describe and discuss the aetiopathogenesis, clinical features, investigations, and principles of management of soft tissue injuries	LGT	1	1
OR1.4	Describe and discuss the Principles of management of soft tissue injuries	SGT (1 Hour)	1	1
OR1.5	Describe and discuss the aetiopathogenesis, clinical features, investigations, and principles of management of dislocation of major joints, shoulder, knee, hip	LGT (2 hours) SGT (1 hour)	2 1	1 1
OR1.6	Participate as a member in the team for closed reduction of shoulder dislocation / hip dislocation / knee dislocation	SGT	1	1

2. Topic: Fractures

Code		Teaching method	Hours	Part
OR2.1	Describe and discuss the mechanism of Injury, clinical features, investigations and plan management of fracture of clavicle	LGT (1 hour) SGT (1 hour)	1 1	1 1
OR2.2	Describe and discuss the mechanism of Injury, clinical features, investigations and plan management of fractures of proximal humerus	LGT	1	1
OR2.3	Select, prescribe and communicate appropriate medications for relief of joint pain	SGT	1	1
OR2.4	Describe and discuss the mechanism of injury, clinical features, investigations and principles of management of fracture of shaft of humerus and intercondylar fracture humerus with emphasis on neurovascular deficit	LGT (2 hours) SGT (1 hour)	2 1	1 1
OR2.5	Describe and discuss the aetiopathogenesis, clinical features, mechanism of injury, investigation & principles of management of fractures of both bones forearm and Galeazzi and Monteggia injury	LGT (1 hour) SGT (1 hour)	1 1	1 1
OR2.6	Describe and discuss the aetiopathogenesis, mechanism of injury, clinical features, investigations and principles of management of fractures of distal radius	LGT (1 hour) SGT (1 hour)	1 1	1 1
OR2.7	Describe and discuss the aetiopathogenesis, mechanism of injury, clinical features, investigations and principles of management of pelvic injuries with emphasis on hemodynamic instability	LGT	1	1
OR2.8	Describe and discuss the aetiopathogenesis, mechanism of injury, clinical features, investigations and principles of management of spine injuries with emphasis on mobilisation of the patient	LGT (1 hour) SGT (1 hour)	1 1	1 1

OR2.9	Describe and discuss the mechanism of injury, Clinical features, investigations and principle of management of acetabular fracture	SGT	1	1
OR2.10	Describe and discuss the aetiopathogenesis, mechanism of injury, clinical features, investigations and principles of management of fractures of proximal femur	LGT (2 hours) SGT (1 hour)	2 1	2 1
OR2.11	Describe and discuss the aetiopathogenesis, mechanism of injury, clinical features, investigations and principles of management of (a) Fracture patella (b) Fracture distal femur (c) Fracture proximal tibia with special focus on neurovascular injury and compartment syndrome	LGT (1 hour) SGT (1 hour)	1 1	2 1
OR2.12	Describe and discuss the aetiopathogenesis, clinical features, investigations and principles of management of Fracture shaft of femur in all age groups and the recognition and management of fat embolism as a complication	LGT (1 hour) SGT (1 hour)	1 1	2 1
OR2.13	Describe and discuss the aetiopathogenesis, clinical features, Investigation and principles of management of: (a) Fracture both bones leg (b) Calcaneus (c) Small bones of foot	LGT (1 hour) SGT (1 hour)	1 1	2 1
OR2.14	Describe and discuss the aetiopathogenesis, clinical features, Investigation and principles of management of ankle fractures	LGT (1 hour) SGT (1 hour)	1 1	2 1
OR2.15	Plan and interpret the investigations to diagnose complications of fractures like malunion, non-union, infection, compartmental syndrome	LGT (1 hour) SGT (1 hour)	1 1	1 1
OR2.16	Describe and discuss the mechanism of injury, clinical features, investigations and principles of management of open fractures with focus on secondary infection prevention and management	LGT (1 hour) SGT (1 hour)	1 1	1 1

3. Topic: Musculoskeletal Infection Number of competencies : (03)

Number of Procedures that require certification: (NIL)

Code		TL Method	Hours	Part
OR3.1	Describe and discuss the aetiopathogenesis, clinical features, investigations and principles of management of Bone and Joint infections a) Acute Osteomyelitis b) Subacute osteomyelitis c) Acute Suppurative arthritis d) Septic arthritis & HIV infection e) Spirochaetal infection f) Skeletal Tuberculosis	LGT (2 hours) SGT (2 hours)	2 2	2 1
OR3.3	Participate as a member in team for procedures like drainage of abscess, sequestrectomy/ saucerisation and arthrotomy	SGT (1 hour)	1	1

4. Topic: Skeletal Tuberculosis

Number of competencies : (01)

Number of procedures that require certification: (NIL)

Code		TL Method	Hours	Part
OR4.1	Describe and discuss the clinical features, Investigation and principles of management of Tuberculosis affecting major joints (Hip, Knee) including cold abscess and caries spine	LGT (2hours) SGT(2 hours)	2 2	2 2

5. Topic: Rheumatoid Arthritis and associated inflammatory disorders

Number of competencies : (01)

Number of procedures that require certification: (NIL)

Code		TL Method	Hours	Part
OR5.1	Describe and discuss the aetiopathogenesis, clinical features, investigations and principles of management of various inflammatory disorder of joints	LGT (1 hour) SGT(3 hours)	1 3	2 2

6.Topic: Degenerative disorders

Number of competencies : (01)

Number of procedures that require certification: (NIL)

Code		TL Method	Hours	Part
OR6.1	Describe and discuss the clinical features, investigations and principles of management of degenerative condition of spine (Cervical Spondylosis, Lumbar Spondylosis, PID)	LGT (1 hour) SGT 2 hours	1 2	2 2

7.Topic: Metabolic bone disorders

Number of competencies : (01)

Number of procedures that require certification: (NIL)

Code		TL Method	Hours	Part
OR7.1	Describe and discuss the aetiopathogenesis, clinical features, investigation and principles of management of metabolic bone disorders in particular osteoporosis, osteomalacia, rickets, Paget's disease	LGT (2 hours) SGT(2 hours)	2 2	2 2

8. Topic: Poliomyelitis Number of competencies : (01) Number of procedures that require certification: (NIL)

Code		TL method	Hours	Part
OR8.1	Describe and discuss the aetiopathogenesis, clinical features, assessment and principles of management a patient with Post Polio Residual Paralysis	SGT	1	2

9. Topic: Cerebral Palsy: Number of competencies : (01) Number of procedures that require certification: (NIL)

Code		TL Method	Hours	Part
OR9.1	Describe and discuss the aetiopathogenesis, clinical features, assessment and principles of management of Cerebral palsy patient	SGT	1	2

10.Topic:Bone Tumors: Number of competencies : (01) Number of procedures that require certification: (NIL)

Code		TL Method	Hours	Part
OR10.1	Describe and discuss the aetiopathogenesis, clinical features, investigations and principles of management of benign and malignant bone tumours and pathological fractures	LGT (2 hours) SGT(3 hours)	2 3	2 2

11.Topic: Peripheral nerve injuries: Number of competencies : (01) Number of procedures that require certification: (NIL)

Code		TL Method	Hours	Part
OR11.1	Describe and discuss the aetiopathogenesis, clinical features, investigations and principles of management of peripheral nerve injuries in diseases like foot drop, wrist drop, claw hand, palsies of Radial, Ulnar, Median, Lateral Popliteal and Sciatic Nerves	LGT (2 hours) SGT (2 hours)	2 2	2 2

12.Topic: Congenital lesions: Number of competencies : (01) Number of procedures that require certification: (NIL)

Code		TL Method	Hours	Part
OR12.1	Describe and discuss the clinical features, investigations and principles of management of Congenital and acquired malformations and deformities of: a. limbs and spine - Scoliosis and spinal bifida b. Congenital dislocation of Hip, Torticollis, c. congenital talipes equino varus	LGT (2 hours) SGT (2 Hours)	2 2	2 2

13.Procedural Skills: Number of competencies : (02) Number of procedures that require certification: (NIL).

Code		TL Method	Hours	Part
OR13.1	Participate in a team for procedures in patients and demonstrating the ability to perform on mannequins / simulated patients in the following: i. Above elbow plaster ii. Below knee plaster iii. Above knee plaster iv. Thomas splint v. splinting for long bone fractures vi. Strapping for shoulder and clavicle trauma	SGT	2	2

Code		TL Method	Hours	Part
OR13.2	Participate as a member in team for Resuscitation of Polytrauma victim by doing all of the following : (a) I.V. access central - peripheral (b) Bladder catheterization (c) Endotracheal intubation (d) Splintage	SGT	2	2

14.Counselling Skills: Number of competencies : (03) Number of procedures that require certification: (NIL)

Code		TL Method	Hours	Part
OR14.1	Demonstrate the ability to counsel patients regarding prognosis in patients with various orthopedic illnesses like a. fractures with disabilities b. fractures that require prolonged bed stay c. bone tumours d. congenital disabilities	SGT	1	2
OR14.2	Demonstrate the ability to counsel patients to obtain consent for various orthopedic procedures like limb amputation, permanent fixations etc..	SGT	1	2
OR14.3	Demonstrate the ability to convince the patient for referral to a higher centre in various orthopedic illnesses, based on the detection of warning signals and need for sophisticated management	SGT	1	2



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