

Version: 111217\_V3

**Conjoint Board of Orthopaedic (CBO) Part 1/ Basic Sciences Examination (BSE):**

**Preparatory Courses (2018):**

| <b>Courses</b>  | <b>Dates</b>          |
|---|-----------------------|
| Course A: (i) Anatomy and Applied Surgical Anatomy                        | 8-9 January 2018      |
| Course A: (ii) How to prepare for OSCE?                                   | 5-6pm, 9 January 2018 |
| Course B: Physiology  | 5-6 February 2018     |
| Course C: Pathology, Biomaterials and Biomechanics, Principles of Surgery | 5-7 March 2018        |

**Monthly Courses: 8<sup>th</sup> – 9<sup>th</sup> January 2018 (Monday-Tuesday):**

**Course A: Anatomy and Applied Surgical Anatomy**

**Objective:** At the end of the course, students will be able to

- Explain the organization of structures, including the skeletal system, muscles, vessels and nerves of the limbs.
- Explain the organization of body wall, cavities and their respective organs and systems
- Describe the structural characteristics and functions of the various body tissues
- Explain the basic embryological development of the various organs and systems.
- Correlate the anatomical knowledge with relevant clinical conditions.

**Venue:** Datin Ragayah lecture hall, National Orthopaedic Centre of Excellence in Research and Learning (NOCERAL), Faculty of Medicine, University of Malaya, 50603 Kuala Lumpur, Malaysia

**Limited to 40 participants**

## Tentative Course Content:

### Lectures (Day 1): 8<sup>th</sup> January 2018 (Monday)

| Course content   | Slot | Assigned person  | Time           |
|--|------|--|----------------|
| Upper Limb   | 1    | Prof Dr Normadiyah Kassim<br>(University of Malaya)          | 9-9.50am       |
| Morning tea break (15 minutes)                                 |      |  | 9.50 – 10.05am |
| Lower Limb   | 2    | Prof Dr Normadiyah Kassim                                    | 10.05 -11am    |
| Abdomen & pelvis   | 3    | Dr. Intan Suhana Binti Zulkafli<br>(University of Malaya)    | 11am– 1pm      |
| Lunch  |      |  | 1-2pm          |
| Surgical Anatomy: Part 1                                       | 4    | Prof. Dr. Tunku Kamarul Zaman<br>(University of Malaya)      | 2-4pm          |
| Small group session<br>(Ratio of speaker to participant: 1:20) | 5    | Prof Dr Normadiyah Kassim<br>Dr. Intan Suhana Binti Zulkafli | 4-5pm          |

### Lectures (Day 2): 9<sup>th</sup> January 2018 (Tuesday)

| Course content   | Slot | Assigned person  | Time          |
|--|------|--|---------------|
| Head, neck, back   | 6    | Dr Snehlata Samberkar<br>(University of Malaya)                                    | 8.30 – 10am   |
| Morning tea break (15 minutes)                                 |      |  | 10-10.15am    |
| Basic Embryology of Limbs & Spine                              | 7    | Assoc. Prof. Dr. Lakshmi<br>Selvaratnam<br>(Monash University Malaysia)            | 10.15–11.15am |
| Histology of Musculo-skeletal Tissues                          | 8    | Assoc. Prof. Dr. Lakshmi<br>Selvaratnam  | 11.15–12.15pm |
| Thorax   | 9    | Prof Dr Normadiyah Kassim  | 12.15–1.15pm  |
| Lunch  |      |  | 1.15–2pm      |
| Surgical Anatomy: Part 2                                       | 10   | Asst Prof Dr Ahmad Fadzli Sulong<br>(International Islamic University<br>Malaysia) | 2–4pm         |
| Small group session<br>(Ratio of speaker to participant: 1:20) | 11   | Prof Dr Normadiyah Kassim,<br>Dr Snehlata Samberkar                                | 4-5pm         |
| How to prepare for OSCE?                                       | 12   | Asst Prof Dr Ahmad Fadzli Sulong<br>(International Islamic University<br>Malaysia) | 5-6pm         |

# Syllabus for Applied Anatomy

## 1. Upper Limb

- Bones, joints, muscles, vessels, lymphatic drainage and nerves
- Hand, forearm, arm, shoulder, pectoral girdle, breast, axillary and scapular region
- The anatomy of extensile exposures of the bones and joints of the upper limb
- The anatomy related to surgical management of breast carcinoma
- The anatomy of brachial plexus injuries and its clinical signs
- The anatomy of the rotator cuff injuries
- The anatomy of entrapment neuropathies

## 2. Lower Limb

- Bones, joints, muscles, vessels, lymphatic drainage and nerves
- Foot, lower leg, thigh, gluteal region
- The anatomy of surgical approaches to the hip joint, knee joint and ankle joint
- The anatomy of vascular anastomosis of the lower limb for trauma and atherosclerosis
- The anatomy of the lower limb as it relates to external fixation
- The anatomy of the knee injuries

## 3. Head and Neck

- Scalp, skull, cerebrum, cerebellum, mid brain, brain stem
- Face, eyes, ears, nose
- Mouth, pharynx, larynx
- Neck
- Bones, joints, muscles, vessels, nerves and cranial nerves.
- Anatomy related to skull fractures and complications
- Anatomy of cerebral circulation
- Anatomy of facial palsies
- Anatomy of ocular palsies
- Anatomy of facial fractures and complications
- Anatomy of the larynx as it related to deglutition, respiration, and intubations
- Anatomy of thyroidectomy and complications
- Anatomy of the movement of the neck
- Anatomy as it relates to cervical spine injuries
- Anatomy of lymphatic drainage of head and neck malignancies

## 4. Thorax

- Chest wall, ribs, diaphragm
- Airways and lungs
- Heart and great vessels
- Mediastinum
- Anatomy of thoracic surgical approaches
- Anatomy of congenital malformations
- The circulatory anatomy of the heart and lungs related to bypass surgery

## 5. Abdomen

- Abdominal wall and peritoneum
- Liver, spleen, intestines, pancreas, kidneys and ureters
- Aorta and vessels

- Anatomy of inguinal ligament and hernia repair
- Anatomy of common surgical procedures: cholecystectomy, gastrectomy, appendectomy, colectomy, bowel resection, nephrectomy.
- Anatomy of congenital malformations
- Abdominal vascular anatomy

## 6. Pelvis

- Bones, joints, muscle nerves, vessels
- Urinary and reproductive organs
- Congenital malformations
- Anatomy of urolithiasis and surgical treatment

## 7. Spine

- Vertebral column
- Spinal cord and nerves
- Anatomy of traumatic paraplegia

## 8. Tissues and Structures

- Skin, mucous membrane, subcutaneous tissue, deep fascia
- Muscles, tendons, ligaments, joints, cartilage
- Peripheral nerves, vessels and lymphatic
- Anatomy of common pedicle and free flaps
- Anatomy of surgical skin incisions

## 9. Surface Anatomy

- Basic Embryology of limbs and spine Notochord, mesoderm, endoderm, limb formation, totipotential, pluripotential.
  - Comparative Anatomy of the Child - Epiphyseal plates, proportions, growth, osteology of the child

## 10. Anatomy of Regional Anaesthesia

- Ankle block, digital block, wrist block, flexor tendon block, axillary block, femoral n. block