

KHYBER PAKHTUNKHWA MIDICAL FACULTY PESHAWAR

CURRICULUM

2nd, 3rd, & 4th Semester

DIPLOMA COURSE

ORTHOPADIC TECHNOLOGY



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EMERGENCY AND INTENSIVE CARE TECHNIQUE-1 2nd YEARS

Emergency & Intensive Care Technique-I

Anatomy & Physiology Related to Emergency & Orthopedic

- Muscular Skeleton System
 - Bones of Upper Limb
 - Bones of Lower Limb
 - Bones of Thorax, Pelvis & Vertebral Column
 - Joints of Upper & Lower Limbs
 - Important Muscles of Upper & Lower Limbs

- Gastro Intestinal System
 - Mouth
 - Pharynx
 - Esophagus
 - Stomach
 - Intestine
 - Accessory Organs
 - ✓ Liver
 - ✓ Spleen
 - ✓ Pancreas
 - ✓ Gall Bladder

- Cardio vascular system
 - Main Arteries
 - Main Veins

- Lymphatic System
- Respiratory System
 - Upper Respiratory Tract
 - Lower Respiratory Tract

- Nervous System
 - Central Nervous System
 - Peripheral Nervous System
 - Autonomic Nervous System

- Urinary System
 - Kidney Urater
 - Urinary Bladder
- Special Scenes
 - Skin
 - Eye
 - Ear
 - Nose

Orthopedics

- Introduction to Fracture & First Aid
- Types of Fracture
- Management of Fracture
- Precaution in Management of Fracture
- Complication of Fracture
- Introduction to POP
- Aim of applying POP
- Types of POP
- Principle of POP Application
- Indication & Contra Indication of POP
- Removal of POP
- Introduction to
 - External Fixation
 - Plating
 - Nailing
 - Traction (Skin, Skeleton Traction)
 - Hamioplasty
 - Total Joint Replacement

Practical Related to Orthopedic

- Receiving of Patient
- Maintaining of Patient of Unit Record
- Introduction Practice of IV & IM Injections maintenance of i/v line
- Preparation of Patient for Procedure
- POP Application
- Removal of POP
- Catheterization/De-Catheterization
- Applying of Traction
- Introduction to Dressing in Different Conditions

Recommended Books

- Outline of Orthopedic
- Anatomy & Physiology for Nurses

Emergency & Intensive Care Technique-II

Emergency Medical Care & Management

- Introduction to Emergency Medical Care
- Overview of Emergency Medical Services
- Component of the Emergency Medical Service
 - Access
 - Administration & Policy
 - Medical Direction & Control
 - Quality Control & Improvement
 - Equipment use in Emergency
- Role & Responsibility of the Emergency Medical Care Provider

Medical Emergency Management

- Common Respiratory Emergency
 - Obstructive Airway Disease
 - Acute Pulmonary Edema
 - Pneumonia
 - Pleural Effusions
 - Pulmonary Thromboembolism
- Management
 - Initial Assessment
 - Inhalation
 - Ventilation
- Common Cardiovascular Emergencies
 - Acute Myocardial Infraction
 - Cardiac Arrest
 - Cardiac Surgery & Pace Maker
- Management
 - Initial Assessment
 - Cardiac Defibrillation
 - Termination of Resuscitation
 - ECG Monitoring
 - Electrical Intervention

➤ Common Pediatric/Neonatal Emergency

- Pediatric Airway Abstruction
- Shocks
- Cardiac Dysrhythmias
- Other Medical Emergencies
 - ✓ Seizures
 - ✓ Altered level of Consciousness
 - ✓ Poisoning
 - ✓ Fever
 - ✓ Dehydration
 - ✓ Maningitis
 - ✓ Hypo/Hyper Glycemia

➤ Management

- Oxygenation
- Ventilation
- Suctioning
- Intubation
- Gastric Decompression
- Resuscitation

Other Medical Emergencies

- Diabetic Emergencies
- Allergic Reaction
- Poising & Over Dose
- Neurologic Emergencies
- Environmental Emergencies
- Behavioral Emergencies
- Gynecological Emergencies
- Brain Hemorrhage & Shock

Management

- Initial Assessment
- The Role of Glucose & Insulin
- Stomach Wash Technique
- Identifying the Patient & the Poison
- Prevention & Treatment of Environmental Emergencies

Common Surgical & Trauma Emergencies

- Fractures
- Head Injury
- Spinal Injury
- Burn & Soft Tissue Injuries
- Abdomen Injury
- Obstetric Emergences
- Blast Injury

Management

- Receiving of Patient
- Fractures Reduction & Immobilization
- Spinal Injury, First Aid & Shifting
- Application of Dressing & Bandages
- Suturing
- Assisted Respiration

Practical (Introduction & Application of the Following on the Above Emergencies)

- Receiving Patient
- Assessment of Patient
- Preparation & Application of Cardiac Monitoring
- Defibrillation
- Syringe Pump
- Infusion Pump
- CPR
- BP, Pulse & respiration Record
- Ventilation
- Arterial Blood Gases Machine Preparation & Operation
- Suction Machine Preparation & Application
- Anesthesia Monitor Preparation & Application
- First Aid Management for Medial Emergencies
- First Aid Management for Surgical/Trauma Emergencies
- Intubation
- NG & OG Tube Application
- Cathrization