

FCEM II Blueprinting 2012

SYLLABUS IMPACT FREQUENCY SUBJECTIVE WEIGHTING

Pre-hospital emergency care:

· Emergency medical services	2	3	6
· Pre-hospital medical devices	2	2	4
· Rural EMS systems	2	2	4
· Alternatives to road transport	2	2	4
· Neonatal and paediatric transport	3	2	6
· Disaster medical services	3	1 *	3
· Mass gatherings	2	2 *	4
· Triage and referral to appropriate facilities	2	3	6
· Injury prevention	2	2	4

Resuscitative problems and techniques:

· Basic cardiopulmonary resuscitation	3	3	9
· Ethics of resuscitation	2	2	4
· Advanced airway support	3	3	9
· Peripheral and central vascular access	2	3	6
· Invasive monitoring and pacing techniques	2	2	4
· Cerebral ischaemia	3	3	9
· Current research in resuscitative techniques	2	2	4
· Neonatal resuscitation and emergencies	3	3	9
· Paediatric cardiopulmonary resuscitation	3	3	9
· Acid-base problems	2	3	6
· Pathophysiology and interpretation of blood gases	2	3	6
· Fluid and electrolyte problems	2	3	6
· Disturbances of cardiac rhythm, conduction and repolarisation	3	2	6
· Pharmacology of anti-arrhythmic and vaso-active medications	2	3	4
· Financial, medico-legal and political aspects of resuscitation	1	2	2
· Termination of resuscitation and diagnosis of death	2	3	6

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· Organ donor, ethical and forensic considerations	2	2	4
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Acute signs and symptoms in adults:

· Chest pain	3	3	9
· Dyspnoea, hypoxia and hypercapnoea	3	3	9
· Haemorrhagic shock	3	3	9
· Septic shock	3	3	9
· Anaphylaxis and acute allergic reactions	3	2	9
· Cyanosis	2	2	4
· Syncope	2	2	4
· Abdominal pain	2	3	6
· Gastrointestinal bleeding	3	2	6
· Coma and altered states of consciousness	3	3	9
· Systemic analgesia and sedation for procedures in adults	2	3	6
· Pain management, care and comfort	2	2	4

Acute signs and symptoms in children:

· Fever	2	3	6
· Diarrhoea and vomiting	2	3	6
· Fluid and electrolyte therapy	3	3	9
· Upper respiratory emergencies	3	3	9
· Paediatric analgesia and sedation	2	2	4
· Hypoglycaemia in children	2	2	4
· Altered mental status in children	3	2	6
· Syncope and breath-holding	2	1	2
· The uncontrollable child	1	1	1

PRIORITY DISTRIBUTION:

Total items =313

Red	38	12%
Orange	61	19.5%
Yellow	92	29%
Nil	122	39%

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SYLLABUS	IMPACT	FREQUENCY	SUBJECTIVE WEIGHTING
Emergency wound management:			
· Evaluation and management of wounds in the emergency department	2	3	6
· Local and regional anaesthesia for wound repair	2	2	4
· Wound preparation and care	2	2	4
· Methods for wound closure	1	2	2
· Technical considerations in the repair of difficult wounds	1	1	1
· Soft tissue injuries to the face	1	1	1
· Fingertip injuries	1	1	1
· Puncture wounds and animal bites	2	2	4
· Post repair wound care and advice	1	1	1
Cardiovascular emergencies:			
· Myocardial ischaemia and infarction	3	3	9
· Pre-hospital and ED fibrinolytic therapy	2	2	4
· Acute interventions in myocardial infarction	3	3	9
· Heart failure and pulmonary oedema	3	3	9
· Endocarditis and valvular emergencies	2	2	4
· Cardiomyopathies, myocarditis and pericardial disease	2	2	4
· Pulmonary embolism	3	3	9
· Hypertensive emergencies	3	2	6
· Thoracic and abdominal aortic aneurysms	3	2	6
· Mesenteric ischaemia	3	2	6
· Acute extremity ischaemia and thrombophlebitis	2	2	4
· Cardiovascular physiology of aging	1	2	2
· Cardiac transplantation	2	1	2
· Cardiac dysrhythmias	3	3	9
Pulmonary emergencies:			
· Bacterial pneumonias	2	3	6
· Viral and mycoplasma pneumonias	2	2	4
· Pneumonias in immunocompromised patients	2	3	6

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· Aspiration pneumonia, empyema and lung abscess	2	3	6
· Tuberculosis	3	3	9
· Spontaneous and iatrogenic pneumothorax	2	2	4
· Haemoptysis	2	3	6
· Acute asthma in adults	3	3	9
Chronic obstructive pulmonary disease	2	3	6

Gastro-intestinal emergencies:

· Oesophageal emergencies	2	1	2
· Swallowed foreign bodies	2	2	4
· Peptic ulcer disease	2	3	6
· Perforated viscus	2	2	4
· Acute appendicitis	2	3	6
· Intestinal obstruction	2	2	4
· Hernia in adults and children	2	2	4
· Ileitis and colitis	2	1	2
· Colonic diverticular disease	2	1	2
· Anorectal disorders	1	2	2
· Gastroenteritis and diarrhoeal diseases including food poisoning	2	3	6
· Cholecystitis and biliary colic	2	3	6
· Acute jaundice and hepatitis	2	3	6
· Acute pancreatitis	3	2	9

· Complications of general and urologic surgical procedures

Liver failure and transplantation

2	1	2
2	1	2

Renal and genito-urinary emergencies:

· Emergency renal problems	2	2	4
· Urinary tract infections	2	3	6
· Male genital problems	1	2	2
· Renal transplant patients	2	1	2
· Emergencies in chronic dialysis patients	2	1	2
· Urologic stone disease	2	3	6

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SYLLABUS	IMPACT	FREQUENCY	excluded	WEIGHTING
Gynaecological and obstetrical emergencies:				
· Gynaecologic emergencies	2	2		4
· Vulvovaginitis	1	1		1
· Emergency medical problems in pregnancy	3	2		6
· Blunt abdominal trauma during pregnancy	2	1		2
· Emergency delivery and post-partum care	3	1		3
· Common complications of gynaecologic procedures	1	1		1
Paediatric emergencies:				
· Normal child development and failure to thrive	1	1		1
· Common neonatal problems	2	1		2
· The premature infant	2	1		2
· Sudden infant death syndrome	3	1		3
· Heart disease	2	1		2
· Otitis and pharyngitis in children	1	3		3
· Skin and soft tissue infections	1	2		2
· Bacteraemia, sepsis and meningitis in children	3	2		6
· Viral and bacterial pneumonias in children	3	2		6
· Vulvovaginitis and paediatric urinary tract infections	1	2		2
· Asthma and bronchiolitis	3	3		9
· Seizures and status epilepticus in children	3	3		9
· Gastroenteritis	3	3		9
· Paediatric abdominal emergencies	3	2		6
· The diabetic child	3	2		6
· Paediatric exanthemas	2	2		4
· Musculoskeletal disorders in children	1	1		1
· Evaluating the handicapped or disabled child	1	1		1

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Infectious diseases and allergy:

· Sexually transmitted diseases	2	2	4
· Toxic shock syndrome and toxic shock-like syndrome	2	1	2
· HIV infection and AIDS	3	3	9
· Tetanus	2	2 *	4
· Rabies	2	2 *	4
· Malaria	3	2	6
· Common parasitic infections	2	1	2
· Tick-borne diseases	2	1	2
· Fever, including haemorrhagic fevers	3	1	3
· SARS and avian flu syndromes	3	1 *	3
· Travel medicine principles	2	1	2
· Universal precautions	2	3	6

Toxicology:

· General management of poisoning	3	3	9
· Tricyclic antidepressants	3	2	6
· Current antidepressants and serotonin syndrome	2	1	2
· Monoamine oxidase inhibitors	2	1	2
· Neuroleptics	2	2	4
· Lithium	2	1	2
· Barbiturates	2	1	2
· Benzodiazepines	2	2	4
· Non-benzodiazepine sedatives and hypnotics	2	1	2
· Alcohols	2	2	4
· Narcotics	2	2	4
· Cocaine	2	2	4
· Amphetamines and amphetamine-like drugs	2	2	4
· Hallucinogens	2	1	2
· Salicylates	2	1	2
· Paracetamol/Acetaminophen	3	2	6
· Non-steroidal anti-inflammatory agents	1	2	2
· Xanthines	2	2	4
· Digitalis glycosides	2	1	2
· Beta blockers	2	2	4

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· Calcium channel blocker	2	2	4
· Clonidine	1	1	1
· Phenytoin toxicity	2	2	4
· Iron	2	2	4
· Hydrocarbons	2	2	4
· Caustic ingestions	2	2	4
· Organophosphate and carbamate poisoning	3	2	6
· Cyanide	3	1 *	3
· Anticholinergic toxicity	2	2	4
· Heavy metals	2	1	2
· Use of Poison Information Centres	1	2	2

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SYLLABUS	IMPACT	FREQUENCY	SUBJECT WEIGHTING
Environmental emergencies:			
· Frostbite and other localised cold-related injuries	2	1	2
· Hypothermia	3	2	6
· Heat emergencies	3	2	6
· Insect and arachnid bites	2	2	4
· Reptile bites and scorpion stings	2	2	4
· Trauma and envenomations from marine fauna	2	1	2
· High altitude emergencies	2	1	2
· Aviation emergencies	2	1	2
· Dysbarism, barotraumas and diving emergencies	2	2	4
· Near drowning	3	2	6
· Thermal burns	3	3	9
· Chemical burns	2	2	4
· Electrical and lightning injuries	3	2	6
· Carbon monoxide poisoning	2	2	4
· Acute exposure to toxic agents	2	1	2
· Radiation injuries	3	1 *	3
· Mushroom poisoning	3	1	3
· Poisonous plants	2	1	2
· Terrorist related environmental agents of mass destruction	2	1 *	2
· Wilderness related emergencies	2	1 *	2
Endocrine emergencies:			
· Hypoglycaemia	2	3	6
· Diabetic keto-acidosis	3	3	9
· Alcoholic keto-acidosis	2	2	4
· Hyperosmolar non-ketotic coma	3	3	6
· Lactic acidosis	3	2	6
· Thyrotoxicosis and thyroid storm	2	2	4
· Hypothyroidism and myxoedema coma	2	2	4
· Adrenal insufficiency and Addisonian crisis	2	2	4
· Pheochromocytoma and hypertensive crisis	2	1	2

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Haematologic and oncologic emergencies:

· Evaluation of the bleeding patient	2	2	4
· Acquired bleeding disorders	2	1	2
· Haemophilias and von Willebrand disease	2	1	2
· Hereditary haemolytic anaemias	1	1	1
· Acquired haemolytic anaemias	1	1	1
· Blood transfusions and component therapy	2	3	6
· Emergency complications of malignancy	2	2	4

Neurological emergencies:

· The neuralgic examination	1	1 x	1
· Headache and facial pain	2	1	2
· Management of cerebrovascular incidents	2	3	6
· Vertigo and dizziness	2	2	4
· Seizures and status epilepticus	3	3	9
· Acute peripheral neurological lesions	2	1	2
· Multiple sclerosis	2	1	2
· Disorders of neuromuscular transmission	2	1	2
· Meningitis, encephalitis and brain abscess	3	3	9
Neuroleptic malignant syndrom	3	1	3

Eye, ear, nose, throat and oral emergencies:

· Ocular emergencies	2	2	4
· Otolaryngology emergencies	2	2	4
· Nasal emergencies and sinusitis	2	2	4
· Maxillo-facial fractures	2	2	4
· General dental emergencies	2	2	4

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SYLLABUS	IMPACT	FREQUENCY	Subjective WEIGHTING
Dermatological emergencies:			
· Toxicodendron dermatitis	1	1	1
· Exfoliative dermatitis	1	1	1
· Erythema multiforme	2	1	2
· Toxic epidermal necrolysis and the staphylococcal scalded skin syndrome	2	1	2
· Cutaneous abscesses	1	3	3
· Soft tissue infections	2	4	4
· Petechial and purpuric emergencies	3	1	3
· Psoriatic and related emergencies	1	1	1
· Porphyria and related emergencies	2	1	2
Trauma:			
· Initial approach to the trauma patient	3	3	9
· General principles of paediatric trauma	3	3	9
· General principles of geriatric trauma	3	2	6
· Head injury	3	3	9
· Spinal injuries	3	2	6
· Penetrating and blunt neck trauma	3	2	6
· Thoracic trauma	3	3	9
· Abdominal trauma	3	3	9
· Penetrating trauma to the posterior abdomen and buttock	2	2	4
· Trauma to the genitourinary tract	2	3	6
· Wound ballistics	2	1	2
· Emergency management of vascular injury	3	2	6
· Trauma of the pregnant patient	3	2	6
· Physical abuse syndromes	2	2	4
· Explosives injuries	3	1 *	3
· Crush syndromes and related injuries	3	2	6
· Multiple organ failure and ARDS	2	2	4
· Crash dynamics and related patho physiology	1	2	2
· Entrapment and other amputation techniques	2	1	2
· Specialised burns; phosphorus, napalm	1	1	1

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· Advanced trauma life support principles	3	3	9
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Fractures and dislocations:

· Early management of fractures and dislocations	2	3	6
· Injuries to the wrist and hand	2	2	4
· Injuries to the elbow, forearm and wrist	2	2	4
· Injuries to the shoulder girdle and humerus	2	2	4
· Trauma to the pelvic girdle, hip and femur	2	2	4
· Injuries to the knee, leg, ankle and foot	2	2	4
· Compartment syndrome	3	2	6
· Immobilisation and alignment techniques	2	2	4

Muscular, ligamentous and rheumatic disorders:

· Neck pain	1	2	2
· Thoracic and lumbar pain syndromes	1	2	2
· Shoulder pain	1	2	2
· Overuse and degenerative syndromes	1	2	2
· Muscle ruptures	2	1	2
· Compartment syndromes	3	2	6
· Rheumatic disorders in adults	2	1	2
· Infections and non-infectious inflammatory states of the hand	2	2	4
· Soft tissue problems of the foot	2	1	2
· Common sport-related injuries	2	2	4

Psychosocial disorders:

· Emergency assessment and stabilisation of behavioural disorders	2	3	6
· Psychotropic medications	2	2	4
· Anorexia nervosa and bulimia nervosa	1	1	1
· Hysteria and panic disorder	2	1	2
· Conversion reactions	2	1	2
· Crisis intervention	1	2	2
· Emergency evaluation of prisoner and substance abuse patients	2	2	4

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· Physician well-being	2	2	4
· Debriefing techniques	2	2	4

SYLLABUS	IMPACT	FREQUENCY	Subjective p _i	WEIGHTING
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Abuse and assault:

· Spectrum of child abuse and neglect	2	2		4
· Male and female sexual assault	2	2		4
· Domestic violence	2	2		4
· Abuse in the elderly and impaired/disabled	2	2		4
· The violent patient	2	2		4
· Post-traumatic stress management	1	1		1

Newer imaging modalities:

· Non-invasive vascular studies	1	2		2
· Cardiac ultrasound	1	1		1
· Abdominal sonography	2	2		4
· Pelvic ultrasonography	1	2		2
· Computed tomography	1	2		2
· Principles and applications of MRI	1	1		1
· Radionuclide imaging	1	1		1

Common implantable devices:

· Complications of central nervous system devices	1	1		1
· Complications of GI and urologic devices	1	1		1
· Complications of cardiovascular and intravenous devices	1	2		2
· Orthopaedic devices and reconstructions	1	1		1
· Complications of airway devices	2	1		2

Medico-legal and ethical principles related to emergency care:

· Patient autonomy and informed consent	2	1		2
· Advance directives and living wills	2	1		2
· The principle of futility	2	1		2
· Duty to treat and the doctor-patient relationship	1	1		1
· Professional and vicarious liability	2	1		2
· Termination of care	2	2		4
· Organ and tissue donation	2	2		4
· Family involvement and support	2	2		4
· Business ethics	1	1		1

· Religious and cultural considerations

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