

# Emergency Medicine CAQ Blueprint

Content Area	Percentage
1. Cardiovascular System	10
2. Dermatologic System	4
3. Endocrine System	3
4. Eyes, Ears, Nose, & Throat	6
5. Gastrointestinal System/Nutrition	10
6. Genitourinary System (Male and Female)	5
7. Hematologic System	4
8. Musculoskeletal System	9
9. Neurologic System	8
10. Psychobehavioral Disorders	7
11. Pulmonary System	10
12. Renal System	4
13. Reproductive System (Male and Female)	2
14. Environmental Disorders	2
15. Systemic Infectious Disorders	4
16. Toxicologic Disorders	4
17. Traumatic Disorders	6
18. Procedures & Skills	2

## 1. CARDIOVASCULAR SYSTEM (10%)

- A. Acute coronary syndrome
- B. Cardiomyopathy
  - Acute/chronic systolic/diastolic heart failure
- C. Conduction disorders/dysrhythmias
  - Atrial
  - Ventricular
- D. Congenital heart disease
- E. Coronary artery disease
- F. Hypertension
  - Hypertensive emergency
  - Hypertensive urgency
- G. Hypotension
  - Cardiogenic shock
- H. Infectious and inflammatory heart conditions
  - Cardiac tamponade
  - Endocarditis
  - Myocarditis
  - Pericarditis
- I. Lipid disorders
- J. Valvular heart disease
- K. Vascular disorders
  - Aortic aneurysm/dissection
  - Embolism
  - Thrombosis

## 2. DERMATOLOGIC SYSTEM (4%)

- A. Desquamation
  - Scarlet fever
  - Stevens-Johnson syndrome
  - Toxic epidermal necrolysis
- B. Diseases/disorders of the hair and nails
- C. Exanthems
  - Erythema infectiosum (fifth disease)
  - Hand-foot-and-mouth disease
  - Hypersensitivity reactions
  - Measles
- D. Infectious diseases
  - Bacterial
  - Fungal
  - Parasitic
  - Viral
- E. Neoplasms
  - Benign
  - Malignant
  - Premalignant
- F. Papulosquamous disorders
  - Dermatitis
  - Eczema
  - Pityriasis rosea
- G. Skin integrity
  - Dermatitis

- Pressure ulcers
- Stasis dermatitis

#### H. Vesiculobullous disease

- Pemphigoid
- Pemphigus

#### I. Other dermatologic disorders

- Acanthosis nigricans
- Cutaneous manifestations of systemic disease
- Generalized skin disorders
- Hidradenitis suppurativa

### J. **ENDOCRINE SYSTEM (3%)**

#### A. Adrenal disorders

- Adrenal crisis
- Adrenal insufficiency

#### B. Diabetes

- Diabetic ketoacidosis
- Hyperosmolar hyperglycemic state
- Hypoglycemia

#### C. Neoplasms

- Benign
- Malignant

#### D. Parathyroid disorders

- Hyperparathyroidism
- Hypoparathyroidism

#### E. Pituitary disorders

- Diabetes insipidus
- Syndrome of inappropriate antidiuretic hormone secretion (SIADH)

#### F. Thyroid disorders

- Hyperthyroidism
- Hypothyroidism
- Myxedema
- Thyroid storm

### G. **EYES, EARS, NOSE, & THROAT (6%)**

#### A. Eye disorders

- Central retinal artery occlusion
- Glaucoma
- Hyphema
- Iritis

- Periorbital and orbital cellulitis
- Retinal detachment
- Trauma

#### B. Ear disorders

- External, middle, and inner ear disorders
- Hearing loss

#### C. Nose/sinus disorders

- Epistaxis
- Rhinitis
- Sinusitis

#### D. Oral disorders

- Candidiasis
- Dental disorders
- Gingivitis
- Lesions
- Ludwig angina
- Salivary disorders

#### E. Throat disorders

- Croup/epiglottitis
- Peritonsillar/retropharyngeal abscess

#### F. Foreign bodies

#### G. Neoplasms

- Benign
- Malignant

### H. **GASTROINTESTINAL SYSTEM/ NUTRITION (10%)**

#### A. Biliary disorders

- Biliary tract disease
- Cholecystitis

#### B. Colorectal disorders

- Abscess/fistula
- Anal fissure
- Colitis
- Constipation
- Diverticulitis
- Hemorrhoids
- Ileitis
- Inflammatory bowel disease
- Obstruction
- Volvulus

#### C. Esophageal disorders

- Foreign body

- Gastroesophageal reflux disease
- Rupture
- Stricture
- Varices

D. Gastric disorders

- Gastritis
- Ulcer disease

DI. Hepatic disorders

- Hepatitis
- Liver failure

DII. Hernias

- Hiatal
- Inguinal
- Umbilical
- Ventral wall

DIII. Mesenteric disorders

- Mesenteric ischemia

DIV. Metabolic, nutritional, and vitamin disorders

- G6PD deficiency
- Hypervitaminosis/hypovitaminosis
- Obesity
- Phenylketonuria

DV. Neoplasms

- Benign
- Malignant

DVI. Pancreatic disorders

- Pancreatitis

DVII. Small intestine disorders

- Appendicitis
- Enteritis
- Gastrointestinal hemorrhage
- Intussusception
- Obstruction

DVIII. **GENITOURINARY SYSTEM  
(MALE AND FEMALE) (5%)**

A. Bladder disorders

- Cystitis

B. Neoplasms

C. Penile disorders

- Paraphimosis/phimosis
- Peyronie disease
- Priapism

D. Prostate disorders

- Benign prostatic hypertrophy
- Prostatitis

DI. Testicular disorders

- Epididymitis
- Orchitis
- Testicular torsion

DII. Urethral disorders

- Obstruction
- Prolapse
- Stricture
- Urethritis

DIII. **HEMATOLOGIC SYSTEM (4%)**

A. Coagulation disorders

- Bleeding disorders
- Disseminated intravascular coagulation
- Emergencies associated with anticoagulant therapy
- Thrombophilias

B. Cytopenia

- Anemias
- Leukopenia
- Polycythemia
- Thrombocytopenia

C. Hemoglobinopathies

- Hemochromatosis
- Sickle cell disease
- Thalassemia

D. Immunologic disorders

- Autoimmune disorders
- Transfusion reaction

E. Myelodysplastic disorders

**8. MUSCULOSKELETAL SYSTEM (9%)**

A. Chest/rib disorders

B. Compartment syndrome

C. Inflammatory and infectious diseases

- Osteoarthritis
- Osteomyelitis
- Septic arthritis/bursitis

D. Lower extremity disorders

- Ankle

- Foot
- Hip
- Knee
- Leg/thigh

E. Neck and spine disorders

- Degenerative disk disease
- Torticollis

F. Neoplasms

- Benign
- Malignant

G. Rheumatologic disorders

- Fibromyalgia
- Gout
- Osteoporosis
- Paget disease
- Rheumatoid arthritis
- Rickets
- Systemic lupus erythematosus

H. Upper extremity disorders

- Elbow
- Forearm/upper arm
- Hand
- Shoulder
- Wrist

**I. NEUROLOGIC SYSTEM (8%)**

A. Central nerve disorders

- Altered mental status (encephalopathies)
- Cord syndromes
- Transverse myelitis
- Vertigo and dizziness

B. Headaches

- Migraine

C. Infectious disorders

- Encephalitis
- Spinal epidural abscess

D. Neoplasms

- Benign
- Malignant

E. Neuromuscular disorders

- Multiple sclerosis
- Myasthenia gravis

F. Peripheral nerve disorders

- Bell palsy
- Carpal tunnel syndrome
- Complex regional pain syndrome
- Guillain-Barré syndrome
- Peripheral neuropathy
- Vertigo and dizziness

G. Seizure disorders

- Febrile seizure
- Status epilepticus

H. Vascular disorders

- Atraumatic intracranial hemorrhage
- Cerebral aneurysm
- Stroke
- Temporal arteritis
- Transient ischemic attack

**I. PSYCHOBEHAVIORIAL DISORDERS (7%)**

A. Abuse and neglect

- Emotional abuse
- Neglect
- Physical abuse
- Sexual abuse

B. Anxiety disorders

- Generalized anxiety disorder
- Panic disorder
- Phobias

C. Bipolar and related disorders (Mood

disorders)

D. Depressive disorders (Mood

disorders)

- Major depressive disorder
- Persistent depressive disorder/dysthymia (Dysthymic disorder)
- Suicidal/homicidal behaviors

E. Disruptive, impulse-control, and

conduct disorders (Impulse-control disorders not elsewhere classified)

- Conduct disorder

F. Dissociative disorders

G. Feeding and eating disorders (Eating disorders)

H. Neurocognitive disorders (Delirium, dementia, and amnestic and other cognitive disorders)

- Delirium
- Major/mild neurocognitive disorders (Dementias)

I. Neurodevelopmental disorders  
(Disorders usually first diagnosed in infancy, childhood, or adolescence)

J. Obsessive-compulsive and related disorders (Anxiety disorders)

K. Personality disorders

L. Schizophrenia spectrum and other

psychotic disorders  
(Schizophrenia and other psychotic disorders)

M. Sexual and gender-related disorders

N. Sleep-wake disorders (Sleep disorders)

- Narcolepsy
- Parasomnias

O. Somatic symptom and related disorders (Somatoform disorders)

P. Substance-related and addictive

disorders (Substance-related disorders)

Q. Trauma- and stressor-related disorders (Anxiety disorders)

- Adjustment disorders
- Post-traumatic stress disorder

R. **PULMONARY SYSTEM (10%)**

A. Infectious disorders

- Acute bronchiolitis
- Acute bronchitis
- Croup
- Empyema
- Influenza
- Lung abscess
- Pertussis
- Pneumonias
- Respiratory syncytial virus infection
- Tuberculosis

B. Neoplasms

- Benign
- Malignant

C. Obstructive pulmonary diseases

- Asthma
- Chronic obstructive pulmonary disease
- Emphysema

D. Pleural diseases

- Pleural effusion
- Pneumothorax

E. Pulmonary circulation

- Cor pulmonale
- Pulmonary embolism
- Pulmonary hypertension

F. Restrictive pulmonary diseases

- Pulmonary fibrosis
- Pneumoconiosis
- Sarcoidosis

G. Other pulmonary disorders

- Acute respiratory distress syndrome
- Cystic fibrosis
- Foreign body aspiration
- Interstitial lung disease
- Pulmonary edema
- Respiratory failure

H. **RENAL SYSTEM (4%)**

A. Acute disorders

- Acute kidney injury/acute renal failure
- Pyelonephritis
- Urinary tract infection
- Urosepsis

B. Chronic kidney disease and end-stage renal disease

C. Congenital or structural renal disorders

- Polycystic kidney disease

D. Fluid and electrolyte disorders

- Acid-base disorders
- Dehydration/hypervolemia

- Hyperkalemia/hypokalemia
- Hyponatremia/hyponatremia

E. Neoplasms

- Renal cell carcinoma
- Wilms tumor

F. Nephrolithiasis/uroolithiasis

**13. REPRODUCTIVE SYSTEM (MALE AND FEMALE) (2%)**

A. Breast disorders

- Mastitis

B. Cervical disorders

C. Complicated pregnancy/obstetric emergencies

- Abortion
- Breech presentation
- Cesarean delivery
- Cord prolapse
- Ectopic pregnancy
- Placenta previa
- Placental abruption
- Postpartum hemorrhage
- Preeclampsia/eclampsia
- Premature rupture of membranes
- Rh incompatibility

D. Contraception

E. Menstrual disorders

F. Neoplasms of the breast and reproductive tract

- Benign
- Malignant

G. Ovarian disorders

- Cysts
- Torsion
- Tubo-ovarian abscess

H. Sexually transmitted infections/pelvic inflammatory disease

I. Uncomplicated pregnancy/normal labor and delivery

J. Uterine disorders

- Endometritis
- Leiomyoma
- Prolapse

K. Vaginal/vulvar disorders

- Bartholin cyst/abscess

- Prolapse
- Vaginitis

**14. ENVIRONMENTAL DISORDERS (2%)**

A. Altitude sickness

B. Dive emergencies

C. Exposure illnesses

- Hyperthermia
- Hypothermia

D. Near-drowning

**15. SYSTEMIC INFECTIOUS DISORDERS (4%)**

A. Bacterial

- Lyme disease
- Meningitis
- Rocky Mountain spotted fever
- Sepsis
- Tetanus

B. Fungal

C. Parasitic

D. Viral

- HIV/AIDS
- Infectious mononucleosis
- Influenza
- Meningitis
- Rabies
- West Nile virus
- Zika virus

**E. TOXICOLOGIC DISORDERS (4%)**

A. Allergic reactions

- Anaphylaxis
- Hypersensitivity reactions

B. Effects of biological/chemical terrorism

C. Envenomation and arthropod bite reactions

D. Ingestion of toxic substances or foreign bodies

- Illicit substances
- Medications
- Metals

- E. Inhalation of toxins
  - Ammonia
  - Carbon monoxide
  - Chlorine

**F. TRAUMATIC DISORDERS (6%)**

- A. Animal/human bites
- B. Electrical injuries
  - Electrocutation
  - Lightning strike
- C. Facial injuries
  - Eyes
  - Ears
  - Nose
  - Teeth
  - Soft tissue
- D. Head and spinal injuries
  - Closed head injuries
    - Concussion
    - Postconcussion syndrome
    - Traumatic brain injury
  - Paralysis
- E. Impaired skin integrity
  - Burns
  - Lacerations
- F. Multisystem injuries
  - Blast injuries
  - Blunt trauma
  - Falls
  - Injuries from motor vehicle collisions
  - Penetrating injuries
    - Gunshot wounds
    - Stab wounds
- G. Musculoskeletal trauma
- H. Physical/sexual assault
- I. Strangulation
- J. Trauma in pregnancy
- K. Traumatic cardiac injuries
  - Cardiac tamponade

**L. PROCEDURES & SKILLS (2%)**

- A. Conducting education on modifiable risk factors with an emphasis on primary and secondary prevention

- Diet
- Exercise
- Smoking cessation

- B. Managing delivery of a newborn
- C. Performing abdominal and gastrointestinal procedures
  - Anoscopy
  - Focused assessment with sonography for trauma (FAST)
  - Gastric lavage
  - Placement of a gastrostomy tube
  - Placement of a nasogastric tube
- D. Performing advanced airway management
  - Cricothyrotomy
  - Managing difficult airways
  - Intubation
    - Endotracheal
    - Nasal
    - Rapid sequence
- E. Performing advanced wound management
  - Multilayer closure
  - Tendon repair
  - Wound debridement
- F. Performing cardiovascular and thoracic procedures
  - Cardioversion
  - Central venous access
  - Defibrillation
  - Focused assessment with sonography for trauma (FAST)
  - Interpretation of electrocardiography
  - Pericardiocentesis
  - Thoracostomy
  - Ultrasound-guided vascular access
- G. Performing musculoskeletal procedures
  - Arthrocentesis
  - Fracture/dislocation reduction
  - Measurement of compartment pressure
- H. Performing resuscitation

- Cardiopulmonary resuscitation
- Fluid and blood component therapy
- I. Performing toxicologic procedures
  - Decontamination
- II. Providing anesthesia
  - Local and regional nerveblock
  - Procedural sedation
- III. Providing psychobehavioral care
  - Management of a violent patient

- Psychiatric screening/examinations
- L. Triage and resource management
  - Disaster management
  - Emergency medical services
  - Homeless and at-risk population
- LI. Using epidemiologic techniques to evaluate the spread of disease
  - Exposure
  - Risk
  - Transmission