



CMSA

The Colleges of Medicine of South Africa NPC

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JOHANNESBURG OFFICE
EXAMINATIONS & CREDENTIALS

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FCEM(SA) Blueprint Part I

Basic Sciences

Blueprint and Subject Matrices

Introduction

The Examination Blueprint is based on the following principles:

It will ensure that the candidate has a sound basic science knowledge relevant to the practice of emergency medicine and is experienced and competent at applying that knowledge to patients suffering from emergencies. The focus will not be on abstract facts but on an application of the basic sciences to emergency medicine and this knowledge should translate into competence as a specialist emergency physician.

The examination questions will be divided equally between the 4 core basic sciences: Anatomy, Physiology, Pathology and Pharmacology.

Within the core basic sciences topics, the MCQ's chosen will ensure that the breadth of the subject is examined and that topics considered more important are represented by a larger percentage of questions across the entire examination.

Colour Key: Impact, Frequency and Subject weighting

Priority 1 Highly relevant topics to emergency medicine practice, most frequently tested

Priority 2 Relevant topics to emergency medicine practice, frequently tested

Priority 3 Relevant to emergency medicine, not frequently tested

Clinical Anatomy: 25%

Tissues and structures
CNS
Upper Limb
Lower Limb
Head and Neck
Thorax
Abdomen and Pelvis
Comparative anatomy of the paediatric patient
Comparative anatomy of the pregnant patient
Surface anatomy

Physiology: 25%

Principles of cellular function
Acid Base
Nervous System
Metabolism
Endocrinology
Digestion and Absorption
GIT
Haematology
Cardiovascular physiology
Respiratory physiology
Renal System

Pathology: 25%

Normal Cell and Cellular Injury/Adaptation
Tissue response to injury
Fluid and haemodynamic derangements
Diseases of immunity
Neoplasia
Infectious disease
Environmental pathology
Diseases of ageing and the disabled
CVS
Respiratory System
Neurology
Liver and Biliary Tract
Pancreas
Renal and Calculi
Haematopoietic system
Endocrine
Musculoskeletal system

Pharmacology: 25%

General Pharmacology
Respiratory System
Cardiovascular System
Antimicrobial Agents
Nervous System
Immune System
GIT
Analgesics and Anti-Inflammatory Agents
Toxicology
Fluids and Electrolytes
Drugs in the extremes of Age
Genitourinary
Miscellaneous

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