

Office of Educational Improvement

KNOWLEDGE NOW

V 07.2016

USMLE STEP 1 Exam

Overview for Faculty

- Identify the basic components of the USMLE Step 1 exam
- Detail the major domains covered by the Step 1 exam
- Recognize the disciplinary and interdisciplinary content covered in the Step 1 exam
- Understand the importance of integration of Basic Science content to normal and abnormal case-scenario applications

Overview of USMLE Step 1 Exam

3

- Understand and apply concepts of the basic sciences to the practice of medicine.
 - Emphasis on <u>principles and mechanisms</u> underlying disease and methods of therapy.
 - Integrated content outline that organizes basic science materials along two dimensions: <u>system and processes</u>.
- One-day examination: divided into seven 60-minute blocks and administered in one 8-hour testing session.
 - Number of questions per block will not exceed 40.
 - Total number of questions overall will not exceed 280.

Discipline content covered in Step 1

Anatomy

4

- Behavioral Sciences
- Biochemistry
- Biostatistics and epidemiology
- Microbiology
- Pathology
- Pharmacology
- Physiology

Interdisciplinary content covered

- Genetics
- Aging
- Immunology
- Nutrition
- Molecular and cell biology

USMLE Step 1 Test Specifications

5	System	Range
18 major	General Principles of Foundational Science	15 – 20 %
domains categorize concepts and principles across organ systems and other knowledge processes.	 Immune System Blood & Lymphoreticular System Behavioral Health Nervous System & Special Senses Skin & Subcutaneous Tissue Musculoskeletal System Cardiovascular System Respiratory System Gastrointestinal System Renal & Urinary System Pregnancy, Childbirth & the Puerperium Female Reproductive & Breast Male Reproductive Endocrine System 	60 – 70 %
	 Multisystem Processes & Disorders Biostatistics & Epidemiology Population Health Social Sciences 	15 – 20 %

6

USMLE Step 1 Test Specifications, cont.

 Individual organ systems are subdivided according to normal and abnormal processes, including principles of therapy.

Process	Range
Normal Processes	10 – 15 %
Abnormal Processes	55 – 60%
Principles of Therapeutics	15 – 20 %
Other	10 – 15 %

USMLE Step 1 Specifications: Physician Task/Competencies

Principles of Basic Science are INTEGRATED with patient care and other competencies

7

Competency	Range
Medical Knowledge/Scientific Concepts	55 – 65 %
Patient Care: Diagnosis	20 – 30 %
 History/Physical Examination Laboratory/Diagnostic Studies Diagnosis Prognosis/Outcome 	
Patient Care: ManagementHealth Maintenance/Disease PreventionPharmacotherapy	15 – 20 %
Communication Professionalism	2 – 5 %
Practice-based Learning & Improvement	4 – 8 %

Content Description

Questions are multiple-choice designed to measure ability to apply basic science knowledge.

Most questions require the student to:

- interpret graphic and tabular material
- identify gross and microscopic pathologic and normal specimens
- **solve** problems through application of basic science principles.
- Patient-centered vignettes are associated with one question, followed by four or more response options.

For more information, visit the USMLE website: http://www.usmle.org/step-1/

Or, contact the Office of Educational Improvement: <u>ACAD_OEl@mcw.edu</u>