

NIHS RESIDENCY TRAINING PROGRAM

Internal Medicine

Final Written Examination

Examination Format:

The National Institute for Health Specialties NIHS (Emirate Board) final specialty written examination shall consist of two papers, each with 100-125 Single-Best-Answer MCQs. Up to 10 % unscored items can be added for pretesting purposes.

Most questions are case-based and assess multiple competencies across different domains, including but not limited to:

- 1. Medical knowledge: disease diagnostic criteria, treatment guidelines, risk factors, and prognosis.
- 2. Clinical reasoning and decision making: Application of knowledge to diagnose, manage, and treat patients.
- 3. Diagnostic interpretation: interpreting laboratory results, imaging studies, ECGs, and other diagnostic tests.
- 4. Pharmacology and therapeutics: pharmacotherapy, drug interactions, and adverse effect management.
- 5. Patient safety and quality improvement: safe clinical practices, medical errors, and healthcare system improvement.
- 6. Ethical decision-making.
- 7. Health systems and evidence-based medicine: cost-conscious care and research interpretation.

Information presented may include photographs, radiographs, electrocardiograms, records of heart or lung sounds, and other media to illustrate relevant patient findings.

Passing Score:





The pass mark in the Final Written Examination will be determined according to the scientific standards and based on reliable practices in assessment.

Suggested References:

- 1. Davidson's Principles and Practice of Medicine
- 2. Davidson's self-assessment questions
- 3. Harrison's Textbook of Medicine
- 4. Harrison's self-assessment questions
- 5. Medical Knowledge Self-Assessment and Practice (MKSAP)
- 6. Current Textbook of Medicine
- 7. Med Studies Reviews
- 8. Massachusetts Internal Medicine Practice
- 9. UpToDate

Note:

This list is intended for use as a study aid only. NIHS does not intend the list to imply endorsement of these specific references, nor are the exam questions necessarily taken solely from these sources.







Purpose of the exam

The exam is designed to assess the knowledge, clinical reasoning, and decision-making skills required for independent practice in internal medicine. The part 2 written examination evaluates the candidate's ability to diagnose, manage, and treat a wide range of acute and chronic medical conditions across diverse patient populations across inpatient and ambulatory outpatient settings.

Exam content

The blueprint is developed by the NIHS and is reviewed annually and updated as needed. The medical content categories are shown below, with the percentage assigned to each section for a typical exam.

Blueprint Outline

No.	Section	Percentage
1	Allergy and Immunology	1%
2	Cardiovascular Disease	12%
3	Critical Care	5%
4	Dermatology	2%
5	Endocrinology, Diabetes and Metabolism	12%
6	Gastroenterology	10%
7	Hematology	8%
8	Infectious Disease	9%
9	Nephrology	12%
10	Neurology	8%
11	Medical oncology	5%
12	Pulmonology	8%
13	Rheumatology	5%
14	Geriatrics	2%
15	Miscellaneous	1%
Total		

The primary sections can be expanded for additional detail to show topics that may be covered in the exam. Below is each major section with their subsection topics that may be covered in the examination. Ambulatory medicine topics are incorporated within the various sections and subsections.





Section	Subsection	
Allergy and Immunology	Anaphylaxis	
	Food and drug allergy	
	Urticaria and angioedema	
	Primary immunodeficiency disorders	
	Allergic complications of transfusions	
	Autoimmune systemic disorders	
Cardiovascular disease	Hypertension	
	Pericardial disease	
	Ischemic heart disease	
	Dysrhythmias and conduction defects	
	Congenital heart disease in adults	
	Valvular heart disease	
	Myocardial disease	
	Endocarditis and other cardiovascular infections	
	Vascular disease	
	Syncope	
	Pre-operative consultation	
Critical care	Respiratory failure	
	Acute respiratory distress syndrome	
	Mechanical ventilation	
	Non-invasive ventilation	
	Bacteremia and sepsis syndromes	
	Sedation and delirium	
	Toxicology	
	Post cardiac arrest care	
Dermatology	Dermatitis	
	Vascular dermatoses	
	Vesiculobullous dermatoses	
	Pigment disorders	
	Photosensitivity dermatoses	
	Nodules and tumors of the skin	
	Cutaneous manifestations of nutritional deficiencies	
	Cutaneous manifestations linked with connective tissue	
	diseases	
	Dermatologic emergencies	
Endocrinology, Diabetes and	Adrenal disorders	
Metabolism	Thyroid disorders	
	Endocrine causes of secondary hypertension	
	Lipid disorders	
	Ovarian disorders	







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	Male hypogonadism	
	Diabetes mellitus	
	Disorders of calcium metabolism and bone	
	Hypothalamic disorders	
	Anterior pituitary disorders	
	Posterior pituitary and water homeostasis	
	Endocrine tumors and endocrine manifestations of tumors	
Gastroenterology	Esophageal disease	
	Stomach and duodenal disease	
	Small intestinal disease	
	Colonic and anorectal disease	
	Pancreatic disease	
	Biliary tract disease	
	Liver disease	
	Gastrointestinal hemorrhage	
Hematology	Hypoproliferative anemia	
	Hemolytic anemia	
	Hemoglobinopathies and thalassemia	
	Leukocyte disorders	
	Platelet disorders	
	Coagulation factor and thrombotic disorders	
	Porphyria	
	Myeloproliferative disorders	
	Myelodysplastic syndromes	
	Hematologic malignancies	
	Principles and complications of transfusion medicine	
	Complications of bone marrow transplantation	
Infectious Disease	Skin and soft tissue infection	
Infectious Disease	Central nervous system infections	
	Upper and lower respiratory tract infections	
	Eye infections	
	Endocarditis and other cardiovascular infections	
	Hepatic infections	
	Enteric infections	
	Acquired immunodeficiency syndrome (AIDS) and human	
	immunodeficiency virus (HIV) infection	
	Sexually transmitted infections and infections of reproductive	
	organs	
	Urinary tract infections	
	Infectious arthritis	
	Osteomyelitis	
	Bacteremia and sepsis syndrome	







	Nosocomial infections	
	Travel-related illness	
	Infectious disease outbreaks	
	Fever of unknown origin	
	Prevention of infectious disease – immunization and	
	prophylaxis	
Nephrology	Acute kidney injury	
	Chronic kidney disease	
	Tubulointerstitial disease	
	Glomerular disorders	
	Nephrolithiasis	
	Water and electrolyte balance	
	Hematuria	
	Renal replacement therapy	
Neurology	Seizures	
	Cerebrovascular disease	
	Headache	
	Nerve root syndromes and spine lesions	
	Peripheral neuropathy	
	Cranial neuropathy	
	Disorders of cerebral function	
	Movement disorders	
	Central nervous system infections	
	Central nervous system infections Central nervous system tumors	
	Diseases of muscle and neuromuscular junction	
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	Multiple sclerosis and other demyelinating diseases	
	Other neurological disorders:	
	Head injury	
	Idiopathic intracranial hypertension, cerebellar ataxia, motor	
	neuron disease, neuroleptic malignant syndrome, vertigo, gait	
	and balance disorders	
Medical oncology	Lung cancer	
	Breast cancer	
	Neoplasms of the head and neck	
	Gastrointestinal and hepatic cancer	
	Urologic cancer	
	Gynecologic cancer	
	Bone tumors	
	Central nervous system tumors	
	Skin cancer	
	Soft tissue cancer	
	Oncologic complications of HIV infection	







	Cancer of unknown primary	
	Cancer prevention	
	Cancer screening	
	Oncologic emergencies	
	Complications of cancer and its treatment	
	Cancer survivorship	
	Palliative care	
Pulmonary Disease	Obstructive airway disease	
	Occupational and environmental lung disease	
	Restrictive lung disease	
	Interstitial lung disease	
	Pulmonary vascular disease	
	Pleural disease	
	Congenital lung disease	
	Sleep medicine	
	Evaluation of common pulmonary symptoms: cough, dyspnea,	
	hemoptysis	
	Solitary pulmonary nodule	
Rheumatology	Crystal-induced arthropathy	
	Spondyloarthropathies	
	Rheumatoid arthritis	
	Systemic lupus erythematous	
	Systemic sclerosis	
	Vasculitis	
	Other primary rheumatic disorders	
	Infectious arthritis	
	Osteoarthritis	
Geriatrics	Pressure injuries	
	Venous ulcers and chronic wounds	
	End-of-life care	
	Constipation in the elderly	
	Disorders of swallowing	
	Incontinence	
	Dementia and delirium	
	Dizziness and vertigo	
	Nutrition	
	Mood, sleep and behavioral and psychological disorders	
	Falls and osteoporosis	
	Clinical pharmacology and aging	
	Frailty	
Miscellaneous	Epidemiology	
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	Luiics	







Patient safety and quality improvement

Note:

- The percentages described are approximate, and the exact exam content may vary. Blueprint distributions of the examination may differ up to +/-2% in each category.
- Percentages and content are subject to change at any time. See the website for the most up-to-date information.
- Research, Ethics, Professionalism, and Patient Safety are incorporated within the various domains.





Example Questions

EXAMPLE OF K2 QUESTIONS

Question 1

A 75-year-old woman was admitted to the hospital for treatment of dehydration secondary to intractable nausea and vomiting. She reports having nausea, vomiting, and early satiety for the past two months. She is started on IV fluids and has a nasogastric tube placed, resulting in significant relief of her symptoms. During her hospitalization, a gastric mass causing agastric outlet obstruction was discovered, and she was started on TPN for nutritional support. Three days later, the patient goes into cardiac arrest (see lab results).

Test	Result	Normal Values
Sodium	135	134-146 mmol/L
Potassium	2.5	3.5-5.1 mmol/L
Chloride	102	97-108 mmol/L
Blood urea nitroge	n 7	2.8 to 8.9 mmol/L
Creatinine	60	58-145 μmol/L
Random Glucose	5.5	3.9-5.5 mmol/L
Calcium	8.4	2.15-2.62 mmol/L
Phosphate	1.0	0.82-1.51 mmol/L
Carbon dioxide	20	20-29 mmol/L
Magnesium	0.4	0.75 - 1.2 mmol/L

Which of the following is the most likely cause?

- A. Intracellular electrolyte shifts
- B. Loss of gastrointestinal fluid via the nasogastric tube
- C. Dilutional effect secondary to volume repletion and TPN
- D. Miscalculation of the concentrations of electrolytes in the TPN solution

EXAMPLE OF K1

Question 2

Which of the following best describes the action of atrial natriuretic peptide?

- A. Increases renin secretion B. Increases aldosterone secretion
- C. Reduces glomerular filtration rate
- D. Opposes the action of angiotensin II

