



**SAUDI FELLOWSHIP**  
**FINAL CLINICAL EXAMINATION**  
**OF**  
**CLINICAL PHARMACY**



General Information	
<b>Exam Format</b>	<ul style="list-style-type: none"> <li>-The final clinical examination shall consist of <b>4</b> graded stations, each with <b>(10)</b> minute encounters.</li> <li>-You will encounter <b>1-2 examiners</b> in each station.</li> </ul>
Conduct of Evaluation	
<b>Station Information</b>	<ul style="list-style-type: none"> <li>-The 4 stations consist of <b>4</b> Structured Oral Exam (SOE) stations.</li> <li>-All stations shall be designed to assess integrated clinical encounters.</li> <li>-Domains and sections may overlap, and more than one category can be evaluated within a station.</li> <li>-Each station may address one or more cases or scenarios.</li> <li>-SOE stations are designed with preset questions and ideal answers.</li> <li>-A scoring rubric for post-encounter questions is also set in advance (if applicable).</li> </ul>
<b>Time Management</b>	<ul style="list-style-type: none"> <li>-The examiner is aware of how much material needs to be covered per station, and it is their responsibility to manage the time accordingly.</li> <li>-The examiner will want to give you every opportunity to address all the questions within the station.</li> <li>-They may indicate that "in the interests of time, you will need to move to the next question." This type of comment has no bearing on your performance. It is simply an effort to ensure that you complete the station. If you are unclear about something during the station, ask the examiner to clarify.</li> <li>-Some stations may finish early – if this occurs, the examiner will end the encounter.</li> </ul>
<b>Examiner Professionalism</b>	<ul style="list-style-type: none"> <li>-The examiners have been instructed to interact with you professionally – don't be put off if they are not as warm and friendly towards you as usual.</li> <li>-We recognize this is a stressful situation, and the examiner is aware that you are nervous. If you need a moment to collect your thoughts before responding, indicate this to the examiner.</li> <li>-The nomination of examiners is based on the principle that candidates are assessed by qualified examiners selected and appointed by SCFHS. The examiner is not obligated by any means to share their personal information or professional details with the candidate.</li> </ul>
<b>Conflicts</b>	<p>The examiners come from across the country. You will likely recognize some of them and may have worked with some of them in your center's clinical/academic capacity. This is completely acceptable to the SCFHS and is not a conflict unless you or the examiner perceive it as such (i.e., if the examiner had a substantial contribution to your training or evaluation, or if you have another personal relationship with the examiner).</p> <p>Identify the conflict at the moment of introduction; examiners have been instructed to do the same. Examiners will alert the SCFHS staff – every attempt will be made to find a suitable replacement for the station.</p>
<b>Confidentiality</b>	<ul style="list-style-type: none"> <li>-Electronic devices are NOT permitted.</li> <li>-Communication with other candidates during the evaluation is prohibited.</li> </ul>

### 1-Pediatric Pharmacy Specialty- Examination Content

<b>Sections</b>	The examination will cover more or less of the following sections:	
	1.	Immunizations / Vaccines
	2.	Cardiovascular <sup>1</sup>
	3.	Respiratory <sup>2</sup>
	4.	Parenteral and Enteral Nutrition
	5.	Gastroenterology <sup>3</sup>
	6.	Neurology/ Psychiatry <sup>4</sup>
	7.	Pediatric Anticoagulation, Anemia
	8.	Infectious Diseases <sup>5</sup>
	9.	Immunology <sup>6</sup>
	10.	Renal/Endocrinology <sup>7</sup>
	11.	Pediatric Critical Care <sup>8</sup> /Pain management
	12.	Neonatology
	<sup>1</sup> Cardiovascular: including hypertension, & Congenital Heart Disease <sup>2</sup> Respiratory: including bronchiolitis, Asthma, Pneumonia, Neonatal Respiratory Distress Syndrome, & Apnea of Prematurity <sup>3</sup> Gastroenterology: including gastroesophageal Reflux Disease, diarrhea and constipation <sup>4</sup> Neurology/ Psychiatry: including seizure disorders, ADHD, Autism Disorders, & Pediatric Depression <sup>5</sup> Infectious Diseases: including neonatal sepsis, meningitis in Infants and Children, cellulitis, osteomyelitis, acute Otitis Media and Upper Respiratory Tract Infections, Infectious Diarrhea, Lower Respiratory Tract Infections, Urinary Tract Infections in Children <sup>6</sup> Immunology: including Kawasaki Disease <sup>7</sup> Renal/Endocrinology: including nephrotic syndrome, osteogenesis imperfecta, Diabetes Mellitus, & Vitamin D analogues / metabolism <sup>8</sup> Pediatric Critical Care: including Fluids/ Electrolytes Management, Acid / Base disorder, Inotropes, DKA, Management of head injuries, sepsis/septic shock, sedation and analgesia	

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## 2-Cardiology Pharmacy Specialty - Examination Content

<b>Sections</b>	The examination will cover more or less of the following sections:	
	1.	Acute Care Cardiology <sup>1</sup>
	2.	Medical Cardiology <sup>2</sup>
	3.	Cardiac Devices and Heart Transplantation <sup>3</sup>
	4.	Preventive Cardiovascular Medicine <sup>4</sup>
	5.	Surgical Cardiology <sup>5</sup>
	6.	Ambulatory Care Cardiology <sup>6</sup>
	7.	Interventional Cardiology <sup>7</sup>
	<sup>1</sup> Acute care cardiology: including acute coronary syndrome, arrhythmias, acute decompensated heart failure, cardiogenic shock  <sup>2</sup> Medical cardiology: including ischemic heart disease, heart failure, valvular heart disease and endocarditis, pulmonary hypertension and anticoagulation  <sup>3</sup> Cardiac devices and heart transplantation: including ventricular assist devices, intraaortic balloon pump, ECMO, Implantable cardioverter defibrillator/pacemakers  <sup>4</sup> Preventive cardiovascular medicine: including dyslipidemia, diabetes and hypertension  <sup>5</sup> Surgical cardiology: including CABG, valve and shunts  <sup>6</sup> Ambulatory care cardiology: including anticoagulation and heart failure, HTN, dyslipidemia, general cardiology.  <sup>7</sup> Interventional cardiology: including stenting and TAVI	

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### 3-Critical Care Pharmacy Specialty - Examination Content

<b>Sections</b>	The examination will cover more or less of the following sections:	
	1.	Hemodynamic, and Shock <sup>1</sup>
	2.	Gastroenterology <sup>2</sup>
	3.	Infectious Diseases <sup>3</sup>
	4.	Neurology Critical Care <sup>4</sup>
	5.	Pulmonary Diseases <sup>5</sup>
	6.	Renal, Endocrine and Metabolic Disorders
	7.	Surgery/Trauma/Immunocompromised Critical Care/Burns
	8.	Cardiovascular and Hematology
<p><sup>1</sup>Hemodynamic and shock: including but not limited to: cardiogenic, hypovolemic and septic shock,</p> <p><sup>2</sup>Gastroenterology: including but not limited to gastrointestinal bleeding, nutritional support and hepatic diseases</p> <p><sup>3</sup>Infectious Diseases: including but not limited to central nervous system infections; pneumonias; intraabdominal infections; urinary tract infections; skin and soft tissue infections, central line associated blood stream infections</p> <p><sup>4</sup>Neurology critical care: including but not limited to ischemic and hemorrhagic stroke, subarachnoid hemorrhage, analgesia, sedation and delirium management</p> <p><sup>5</sup>Pulmonary diseases: including ventilation and ARDS</p>		

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#### 4-Infectious Diseases Pharmacy Specialty - Examination Content

<b>Sections</b>	The examination will cover more or less of the following sections:	
	1.	Bacterial Infections
	2.	Fungal Infections
	3.	Human Immunodeficiency Virus (HIV) Infection
	4.	Immunocompromised Host (Non-HIV Infections)
	5.	Therapeutic Drug Monitoring of Antimicrobial Therapy
	6.	Parasitic Infections
	7.	Vaccinations
	8.	Viral Infections
	9.	Sexually Transmitted Infections (Stis)
	10.	Clinical Microbiology

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### 5-Internal Medicine Pharmacy Specialty - Examination Content

<b>Sections</b>	The examination will cover more or less of the following sections:	
	1.	Allergy/Immunology and Adult Immunization <sup>1</sup>
	2.	Cardiovascular/ Pulmonary <sup>2</sup>
	3.	Endocrinology, Diabetes and Metabolism <sup>3</sup>
	4.	Gastrointestinal/Hepatology <sup>4</sup>
	5.	Hematology/Medical Oncology
	6.	Infectious Diseases
	7.	Neuropsychiatry <sup>5</sup>
	8.	Rheumatology and Renal <sup>6</sup>
	9.	Geriatric
<sup>1</sup> Allergy/Immunology and adult immunization: including urticaria, rhinitis and eczema <sup>2</sup> Cardiovascular/ Pulmonary: including Asthma, COPD, hypertension, heart failure, pulmonary embolism, DVT <sup>3</sup> Endocrinology, Diabetes and Metabolism: including diabetes, thyroid disorders, adrenal gland disorders, pituitary gland disorders, dyslipidemia, osteoporosis, osteoarthritis <sup>4</sup> Gastrointestinal/Hepatology: including peptic ulcer disease, GERD, inflammatory bowel disease, hepatitis <sup>5</sup> Neuropsychiatry: including stroke <sup>6</sup> Rheumatology and Renal: including rheumatoid arthritis, renal failure		

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## 6-Nephrology Pharmacy Specialty - Examination Content

<b>Sections</b>	The examination will cover more or less of the following sections:	
	1.	Acute Kidney Injury
	2.	Renal Replacement Therapy
	3.	Drug Induced Kidney Disease
	4.	Chronic Kidney Diseases and Its Complications <sup>1</sup>
	5.	Glomerulonephritis
	6.	Kidney Transplant
	7.	Assessment Of Kidney Function
<p><sup>1</sup>Chronic kidney diseases: including tubular, interstitial and cystic disorders, anemia of chronic kidney disease, MBD, uremic bleeding, electrolytes disturbance, acid-base disorders, line related infections, peritonitis.</p> <p><sup>2</sup>Kidney disease related complications: including electrolyte imbalance, anemia of chronic disease, line-related infections and renal osteodystrophy and secondary hyperparathyroidism.</p>		

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**7-Hematology/Oncology Pharmacy Specialty - Examination Content**

<b>Sections</b>	The examination will cover more or less of the following sections:	
	1.	Breast Cancer
	2.	Gastrointestinal Cancer
	3.	Genitourinary Cancer
	4.	Gynecological Cancer
	5.	Head/Neck Cancer
	6.	Hematological Diseases <sup>1</sup>
	7.	Lung Cancer
	8.	Melanomas, Sarcomas
	9.	Neuro/Oncology
	10.	Supportive Care
<sup>1</sup> Hematological diseases: including malignant and benign hematological disorders, lymphomas, and bone marrow transplantation.		

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## 8-Solid Organ Transplantation Pharmacy Specialty - Examination Content

<b>Sections</b>	The examination will cover more or less of the following sections:	
	1.	Pretransplant <sup>1</sup>
	2.	Perioperative <sup>2</sup>
	3.	Post-Transplant <sup>3</sup>
	4.	Graft Dysfunction
	5.	Immunosuppression
	6.	Ambulatory Care <sup>4</sup>
<p>Solid Organ Transplantation includes liver; kidney; heart, lung, pancreas and islet cell and small bowel or combination of 2 or more organs</p> <p><sup>1</sup>Pretransplant: including indications and contraindications and candidacy of transplantation; screening of donors and recipients; transplant immunology; prophylaxis of infections (laboratory testing and immunizations)</p> <p><sup>2</sup> Perioperative: including perioperative complications (donor and recipients); management of patients and donors pre- and immediately after transplant in ICU; prophylaxis and management of rejection; prophylaxis of infections (viral, bacterial, mycobacterial, parasitic and fungal)</p> <p><sup>3</sup>Post-transplant including but not limited to: non infectious, infectious, graft dysfunction, management of acute and chronic rejection (cellular and humoral); immunosuppressive medications and immunizations; infectious diseases prevention and management ( bacterial, viral fungal, mycobacterial, parasitic infections); post-transplant complications {short and long term complications including but not limited to cardiovascular, chronic diseases, endocrine, CNS, post-transplant lymphoproliferative disease(PTLD)}; adherence to medical regimen; recurrence of disease; post-transplant malignancy and indications for retransplantation.</p> <p><sup>4</sup>Ambulatory care including but not limited to post transplant care, management of immunosuppression's, common infectious diseases, common comorbidities.</p>		

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### 9-Ambulatory Care Pharmacy Specialty - Examination Content

<b>Sections</b>	The examination will cover more or less of the following sections:	
	1.	Chronic Cardiovascular Diseases <sup>1</sup>
	2.	Chronic Pulmonary Diseases <sup>1</sup>
	3.	Endocrinology <sup>2</sup>
	4.	Thromboembolic Disease and Anticoagulation Therapy
	5.	Rheumatology and Bone Disorders <sup>3</sup>
	6.	Chronic Kidney Disease
	<sup>1</sup> Cardiovascular/Pulmonary: Including but not limited to: Asthma, COPD, hypertension, heart failure, ischemic heart disease, atrial fibrillation <sup>2</sup> Endocrinology, Diabetes: Including but not limited to: diabetes, thyroid disorders, dyslipidemia <sup>3</sup> Rheumatology and Renal: including rheumatoid arthritis, osteoarthritis, renal failure.	

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### 10-Drug Information Pharmacy Specialty - Examination Content

<b>Sections</b>	The examination will cover more or less of the following sections:	
	1.	Drug Information Practice <sup>1</sup>
	2.	Drug Information Resources <sup>2</sup>
	3.	Formulary Management and Medication Use Policies <sup>3</sup>
	4.	Evidence-Based-Medicine and Literature Evaluation
	5.	Medication Use Evaluations
	6.	Medication Misadventures <sup>4</sup>
	7.	Medication Management Accreditation Requirements
	<sup>1</sup> drug information functions, formulation of responses, documentation, communication <sup>2</sup> type of literatures, resources, electronic resources, use of internet <sup>3</sup> P&T, medication use management, non-formulary, investigational medications, drug monograph evaluation <sup>4</sup> Medication safety, adverse drug reactions, medications errors, recalls, drug safety alerts, pharmacy informatics, risk management programs.	

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**11-Parental Nutrition Pharmacy Specialty - Examination Content**

<b>Sections</b>	The examination will cover 4 or more of the following sections:	
	1.	Malnutrition Screening and Assessment (Adults and Pediatrics) <sup>1</sup>
	2.	Nutrition and Energy Metabolism (Adults and Pediatrics) <sup>2</sup>
	3.	Fluids, Electrolytes, and Acid-Base Disorders <sup>3</sup>
	4.	Drug-Nutrient Interactions <sup>4</sup>
	5.	Micronutrients Management <sup>5</sup>
	6.	Complications of Parenteral and Enteral
	7.	Enteral Nutrition
	8.	Parenteral and Enteral Access Devices
	9.	Nutrition Support in Specific Populations
10.	Home Nutrition Support	
<sup>1</sup> Malnutrition Screening and Assessment: including Nutrition Focused Physical Examination (NFPE), and defining malnutrition classifications <sup>2</sup> Nutrition and Energy Metabolism: including methods to determine energy expenditure and macronutrients metabolism <sup>3</sup> Fluids, Electrolytes, and Acid-Base Disorders: including calculating fluid requirement and management of electrolytes and acid base abnormalities <sup>4</sup> Drug-Nutrient Interactions: including physical, pharmaceutical, pharmacokinetic, and administrative related interactions. <sup>5</sup> Micronutrients Management: including Assessment, diagnosis, and management micronutrient deficiencies and toxicities.		

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Definition of Clinical/Practical Skill Domains	
Domain	Definition
<b>Data-Gathering Skills</b>	Defined as: the candidates' ability to obtain and identify important information, correlate the clinical data to recommend appropriate testing. It includes interviewing and history taking.
<b>Reasoning And Analytical Skills</b>	Defined as: the candidates' ability to rationalize recommended effective management plans, evaluate alternative plans, recognize indicators to different appropriate treatments based on relevant, correct clinical data interpretation.
<b>Decision-Making Skills</b>	Defined as: the candidates' ability to formulate a logical diagnosis, identify immediate needs, and make accurate inferences regarding the expected outcomes. It includes recognizing potential complications, risks, and benefits.
<b>Professional Attitude</b>	Defined as the commitment to deliver the highest standards of ethical and professional behavior in all aspects of health practice.  Attitudes, knowledge, and skills based on clinical &/or medical administrative competence, ethics, societal, & legal duties resulting in the wise application of behaviors that demonstrate a commitment to excellence, respect, integrity, accountability & altruism (e.g. self-awareness, reflection, life-long learning, scholarly habits, & physician health for sustainable practice).

**Note:**

- The content are subject to change at any time. See the SCFHS website for the most up-to-date information.