

Experiential Educational Committee
College of Pharmacy, Qassim University
2024-2025



Experiential Program Manual

Advanced Pharmacy Practice Experiences (APPE) The Internship Year



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Disclaimer:

The information in this Manual is intended for informational purposes only and does not constitute a legal contract between the College of Pharmacy, Qassim University, and any person or entity.

Acknowledgment:

This Advance Pharmacy Practice Experience (APPE) manual has been developed and written with the goal of providing internship students with the guidance needed to function with the required skill and confidence during one year of APPE. The College of Pharmacy, Qassim University wishes to acknowledge and thank all the contributors to this manual.

Experiential Educational Committee

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Introduction

The APPE Program of the College of Pharmacy, Qassim University, has been designed to integrate practical skills and experience with knowledge gained during the undergraduate degree. Drawing upon lifelong learning skills, interns will continually build upon this base throughout their professional careers as professional and competent pharmacists. This APPE manual assists the interns in the detection and management of drug-related problems and in promoting safe and effective rational drug therapy.

The APPE Program is prepared to provide academically supervised clinical experiences that will impart scientifically updated and appropriate methods of collecting and applying clinical information concerning the therapeutic and toxic effects of drugs to students.

The APPE manual is designed to prepare interns for a successful career as professional and ethical pharmacists who can think critically and apply knowledge and skills in the best interest of patients regarding individualized pharmacotherapy planning, intervention, and outcome evaluation. The clinical experiences imparted to interns by well-qualified and experienced preceptors will help the interns choose their clinical specialty, continue their lifelong learning and practice, and meet their responsibilities as healthcare practitioners for the overall benefit of patients and other healthcare professionals.

The Program Objectives

The Advanced Pharmacy Practice Experience (APPE) at the College of Pharmacy, Qassim University, ensures interns apply the updated knowledge and skills gained from the Pharm.D. program in real-world settings to provide high-quality pharmaceutical care. The College of Pharmacy is committed to a competency-based APPE program focused on achieving the following learning outcomes:

1. Work professionally and ethically in various pharmacy practice settings.
2. Evaluate, develop, implement, and monitor patient therapeutic outcomes.
3. Utilize drug information services to become a drug information specialist, aiding other healthcare professionals and patients.
4. Develop strong oral and written communication skills for educating healthcare professionals and patients on drug-related topics.
5. Apply scientifically relevant therapeutic knowledge to solve drug-related problems using evidence-based decisions.
6. Provide accurate and effective drug-related counseling to patients.
7. Establish and monitor therapeutic parameters to continuously evaluate therapeutic outcomes.
8. Understand and execute responsibilities for reporting adverse drug reactions.
9. Apply pharmacokinetics in developing and monitoring patient drug therapy.
10. Retrieve and analyze professional and scientific literature to improve patient care and support lifelong learning.

Experiential Program Manual

I. Functions of Experiential Educational Committee:

The Experiential Educational Committee is set up under the Pharmacy Practice Department Council and is set to perform the following functions.

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|--|
| 1. Assigning, planning, implementing, monitoring, scheduling, and placing interns in Advanced Pharmacy Practice Experience (APPE) rotations. |
| 2. Registering new interns and conducting orientation workshops. |
| 3. Developing and updating standards, codes of conduct, goals, objectives, competencies, learning outcomes, and guidelines for the APPE program. |
| 4. Handling notifications, complaints, investigations, and disciplinary hearings related to interns. |
| 5. Assisting and communicating with preceptors to ensure the successful execution of the APPE Program. |
| 6. Periodically evaluating, monitoring, and assessing interns' performance based on APPE learning objectives and outcomes. |

II. Rotation Policies and Procedures:

A. Preceptor Responsibilities

- Preceptors must be knowledgeable about and compliant with the material contained in this Manual.
- Preceptors are responsible for clearly communicating student expectations regarding performance, appearance, attitude, and practice methods.
- Preceptors should provide orientation to students about the laws and regulations of the training site, as well as the discipline and ethics of professional practice.
- Preceptors are responsible for delegating defined duties and assignments to students with appropriate supervision and direction, ensuring that students are never used as substitutes for regular staff.
- Preceptors should assess the intern's competency by reviewing their performance through discussion and observation, rather than assuming it.

- Preceptors should encourage students to communicate with healthcare professionals regarding all rotation aspects.
- Preceptors should maintain proper attendance records of students to ensure punctuality in daily attendance, medical team rounds, and other clinical activities.
- Preceptors are expected to provide constructive criticism in a private and appropriate manner.
- Preceptors are responsible for reviewing students' progress regularly and submitting assessment reports to the Experiential Educational Committee.
- Preceptors should respect the confidentiality of interns.
- Preceptors are responsible for verifying that interns attain the required rotation outcomes.
- Preceptors should inform interns of any areas requiring improvement.
- Preceptors need to hold students accountable for their responsibilities to the rotation site and their own learning. If a student is not meeting expectations, the preceptor should contact the Experiential Educational Committee for further guidance and support.

B. Student Responsibilities

- Students must follow the instructions written in this manual precisely and carefully.
- Students are responsible for contacting the Experiential Educational Committee secretary one week before the start of their rotation to confirm arrangements and registration.
- Students should not copy or remove confidential information from rotation sites.
- Identify yourself as a graduate student pharmacist in interactions with patients and other healthcare professionals within the training site.
- Students are expected to be at the rotation site for at least 40 hours per week during each rotation.
- Students are responsible for adhering to the rotation schedule, assignments, and timings, and reporting their daily activities to the preceptor.
- Students should complete the duties assigned by the preceptor.
- Students should demonstrate professionalism and ethical behavior at all times during rotations.
- Students should take the initiative in communicating with physicians, patients, and other healthcare professionals, but only under the supervision of their preceptors.

- Students should abide by the laws and regulations governing pharmacy practice and seek clarification from the preceptor when necessary.

C. Professionalism

Through the APPE Program, the College of Pharmacy provides an experiential learning environment for the students to develop sufficient, relevant, and experiential knowledge base to utilize appropriate resources necessary to provide patient-centered care, individualized therapeutic planning, and accountability for therapeutic outcomes in pharmaceutical care. The APPE program develops professionalism and interpersonal skills in students to work as a healthcare team member, which is necessary to provide optimal patient care and pharmaceutical services.

Professional behavior expected from all interns (trainees) at all times includes but is not limited to:

- The student's appearance must comply with the dress code: a clean, ironed white lab coat should always be worn, along with the college identification badge and/or rotation identification as instructed by the Preceptor.
- The student should interact with their rotation-specific Preceptor and other healthcare professionals in a respectful and professional manner.
- The behavior of a student reflects their qualification and potential to become a competent pharmacist.
- Attitudes and behaviors inconsistent with compassionate care, refusal or inability to participate constructively in learning or patient care, derogatory attitudes or inappropriate behavior directed at patient groups, peers, faculty or staff, or other unprofessional conduct can be grounds for dismissal from the rotation, program, or other disciplinary actions.
- Students are responsible for self-learning as requested.

D. Student Assessment and Evaluation

1. Assessment Terminology

The following definitions should be used when assessing students:

Excellent	Very good	Satisfactory	Poor	Deficient
Consistently performs above expected pharmacist level and displays attributes consistent with an advanced practitioner	Often performs at a level above expected pharmacist competency	Performs at a pharmacist level. Display attributes consistent with readiness to enter general practice	Rarely performs at the level expected for a pharmacist. Needs improvement to be ready to enter general practice	Not applicable or no opportunity to evaluate during the rotation

2. Advanced Pharmacy Practice Experiences (APPE) Assessment Process

- Students will be assessed by their respective Preceptors using the Rotation Assessment Form (attached in the Appendix).
- Preceptors assess students based on the general program objectives of APPE and rotation-specific learning outcomes.
- Based on the total score, preceptors should highlight specific strengths observed during the rotation and areas needing improvement for future focus.
- Successful completion of the APPE program is based on the Preceptor's recommendation, which is based on assessing the student's performance throughout the program.
- The Preceptor and the student must sign and date the rotation assessment form, and the completed form should be returned to the Experiential Educational Committee office within 7 days of the completion of each rotation.
- The student must achieve a minimum of 70% to pass any rotation.

Pass	Fail
$\geq 70\%$	Below 70%

E. Attendance

- Complete attendance is mandatory for all students for every rotation.
- Students are expected to be present at the assigned practice site for at least 40 hours per week (8 hours per day) from 8 a.m. to 4 p.m. during each rotation, as per the Preceptor's schedule.
- Additional hours beyond this schedule may be required to complete assignments or other rotation activities.
- The holidays include one week each for Eid-al-Fitr and Eid-al-Adha, and one day each for National Day and Foundation Day.
- Students do not have excused absences from the assigned practice site unless a holiday, inclement weather, or other event closes the training site.
- If a student is ill or has a personal emergency, the Experiential Educational Committee secretary and Preceptor must be contacted as early as possible on or before the day in question. Documentation from a physician or relevant third party may be requested for these types of absences.
- Requests for absence or time off for any reason other than personal or family emergency and student illness must be approved at least two weeks in advance by the Experiential Educational Committee secretary and the Preceptor.
- If a student does not complete the entire 6-week experience during the assigned timeframe, the student will be required to complete the same 6-week experience.
- All student rotation schedules are coordinated through the Experiential Educational Committee secretary. Any student who makes an unauthorized change in their rotation without the approval of the Experiential Educational Committee secretary will fail the rotation.
- Schedules of student rotations may only be modified at the discretion of the Experiential Educational Committee secretary.
- Students are encouraged to participate in College of Pharmacy-sponsored events like conferences and seminars, which may be scheduled during rotation hours. To receive an excused absence to attend any of these events, each student must submit a written request to the Experiential Educational Committee secretary at least two weeks before the event. Students may be required to make up these hours.

F. Student Behavior

Students are expected to conduct themselves professionally and ethically during their rotation. Students must understand that their behavior reflects on themselves, the College of Pharmacy, and Qassim University. Unprofessional or unethical behavior will result in disciplinary action by the Experiential Educational Committee, including failing the rotation or other appropriate actions as deemed by the committee. Preceptors are encouraged to report any unprofessional or unethical behavior of students.

III. Pharmaceutical Care:

In every rotation, interns utilize their knowledge and skills to meet patients' health needs by optimizing all aspects of drug use. Proper pharmaceutical care is achieved through collaboration and harmony between the intern, pharmacist, and other healthcare providers. The process of pharmaceutical care involves several sequential steps:

- Establishing a therapeutic relationship with the patient.
- Recording and evaluating patient-specific data, including current and past medical and drug histories, and identifying actual and potential drug-related problems (DRPs) based on evidence-based guidelines and up-to-date literature.
- Identifying and discussing potential drug-disease, drug-drug, drug-lab value, and drug-dietary interactions and making appropriate recommendations.
- Monitor the daily progress of the patient's disease state(s) and drug therapy, identify any problems associated with laboratory data and subjective and objective findings, and recommend appropriate therapeutic interventions.
- Applying pharmaceutical knowledge and cognitive skills to individualize the therapeutic regimen (best drug, dose, formulation, regimen, schedule, etc.) based on patient-specific data.
- Utilizing drug information resources to answer questions related to drug use and toxicity.
- Providing organized and individualized written and oral counseling to patients about their prescribed drugs.

IV. Inter-professional Relationships

During the rotation, interns should play a vital role in actively communicating with other healthcare providers. This communication involves:

- Receiving and accepting prescription orders from prescribers.
- Clarifying unusual dosages.
- Requesting clarification on possible therapeutic problems, errors of omission or commission, and communicating therapy recommendations to the prescriber.
- Consult with the prescriber if a drug is being under or over-utilized by the patient.
- Contact the prescriber in cases of suspected adverse drug reactions, side effects, toxicity, or interactions.
- Providing drug information, such as composition, availability, dose, use, classification, nomenclature, administration techniques, and special formulations.
- Informing the practitioner of any prescriptions that may have been adapted or renewed through continued care.

Advanced Pharmacy Practice Experiences (APPE):

Introduction:

The primary purpose of the Advanced Pharmacy Practice Experiences (APPE) at the College of Pharmacy, Qassim University, is to provide an experiential learning environment where students can develop a comprehensive and relevant knowledge base. This foundation enables them to utilize appropriate resources for direct patient care, individualized therapeutic planning, intervention, and evaluation.

Internship students must master the clinical skills required to assume accountability and responsibility for therapeutic outcomes while providing pharmaceutical care. The program cultivates these clinical skills, ensuring that students are prepared to take on such responsibilities.

Additionally, the program promotes the development of professionalism and interpersonal skills, enabling students to work effectively as team members within the healthcare provider community. These skills are essential for delivering optimal patient care and pharmaceutical services.

Internship Duration:

The APPE includes seven rotations spanning 42 weeks. The seven rotations include 5 core rotations and 2 elective rotations. The core rotations consist of three clinical rotations, one institutional rotation, and one community-based rotation. Each core and elective rotation lasts 6 weeks.

Core Rotations		30 Weeks Total
Clinical Rotation I		6 Weeks Each
Clinical Rotation II		
Clinical Rotation III		
Hospital Pharmacy Rotation		
Community Pharmacy		
Elective Rotations*		12 Weeks Total
Drug and Poison Information	Food and Drug Authority	6 Weeks Each
Oncology	Surgery	
Hematology	Ambulatory Care Clinics	
Organ Transplant	Pediatrics	
Nephrology	Total Parenteral Nutrition	
Cardiology	Infectious Diseases	
Internal Medicine	Medication Safety	
Psychiatry	Academia	
Pharmaceutical Companies		

- The elective rotation can be a new rotation or a repeat of a core rotation.

Types of Rotations:

Hospital Pharmacy Rotation

Rotation Objectives:

This rotation is designed to provide exposure to a professional field and an understanding of professional etiquette by developing professionally relevant competencies and relationships in pharmacy settings. The interns will be trained on:

- Pharmacy administration
- Unit dose system and dispensing of medications
- Understanding the philosophy of the institutional pharmacy department and its role in patient care and practice
- Exploring the healthcare team approach to patient care
- The role of pharmacists in professional decision-making

Learning Outcomes:

- Demonstrate and interpret pharmacy operations, including:
 - Appropriateness of medication orders and processing
 - Automated medication systems
 - Inspection and filling of medication storage units
 - Inventory management
 - Procedures for disposal of expired medication

- Describe and demonstrate medication administration in the institutional setting, including:
 - Medication administration records
 - Narcotic count sheets
 - Different routes of administration

- Observe and perform:
 - Sterile products compounding
 - Application of aseptic technique
 - Pharmaceutical calculations
 - IV admixture technique

➤ Observe and demonstrate clinical services, including:

- Medication monitoring
- Therapeutic drug monitoring
- Therapeutic recommendations
- Medication reconciliation
- Patient education and discharge counseling
- Medication error reporting
- Adverse drug reaction reporting

Critical (Intensive) Care Unit (ICU) Rotation

Rotation Objectives:

The aim of this rotation is to prepare and facilitate the intern's learning and cognitive skills in a critical care environment, enabling them to understand the needs of patients in a critical care setting and apply evidence-based management from a pharmaceutical care perspective. The interns will be trained on:

- Professional skills in a critical/intensive care environment.
- Understanding and analyzing drug and disease-related problems in a critical care setting and developing abilities to solve them with evidence-based therapy.

Learning Outcomes:

Upon successful completion of this rotation, the intern should be able to:

- Interpret hemodynamic parameters and acid-base status in critically ill patients.
- Differentiate between presentation of and treatment strategies for hypovolemic, obstructive, and distributive shock.
- Discuss the appropriate use of fluids, vasopressors, antibiotics, and corticosteroids in patients with sepsis, severe sepsis, or septic shock.
- Discuss strategies to optimize the safety and efficacy of therapeutic hypothermia for patients after cardiac arrest or any other condition.
- Recommend therapeutic options to prevent stress ulcers, venous thromboembolism, hyperglycemia, and ventilator-associated pneumonia in critically ill patients.
- Perform therapeutic drug monitoring in critically ill patients for aminoglycosides, vancomycin, phenytoin, digoxin, and all drugs with a narrow therapeutic index that significantly affects the patient's kidney and liver function.
- Identify and solve the drug-related problems of the cases of critically ill patients.

Internal Medicine Rotation

Rotation Objectives:

This rotation is designed to enhance the intern's ability to provide comprehensive medication therapy management for acutely ill patients in a hospital or clinic setting. Interns will gain the knowledge and clinical skills needed to offer patient-specific therapeutic interventions and pharmaceutical care to patients in internal medicine departments. The interns will be trained on:

- The goals of treatment for each disease in the internal medicine specialty.
- Designing treatment plans and selecting the most appropriate pharmacologic and non-pharmacologic management strategies for diseases in this specialty based on up-to-date, evidence-based clinical guidelines.
- Understanding the relationship between the pathophysiology of diseases and the mechanisms of action of drugs.
- Identify potential and actual drug-related problems and provide rational, reasonable, and practical solutions for these problems in patients with diseases in this specialty.
- Evaluating treatment outcomes for each disease in this specialty.
- Designing a monitoring plan for drug efficacy, adverse effects, compliance, and drug interactions in inpatient drug therapy.
- Performing pharmacokinetic and therapeutic drug monitoring (TDM) for drugs in this specialty (e.g., digoxin, warfarin).
- Developing team-based learning and effective communication skills.

Learning Outcomes:

Upon completion of this rotation, the intern should be able to:

- Develop the goals of treatment for patients with diseases in the internal medicine specialty.
- Describe the rationale, benefits, drug interactions, adverse drug reactions, and appropriate use of combination drug therapy for managing patients with diseases in this specialty.
- Recommend and design patient-specific treatment plans, including pharmacological and non-pharmacological management, based on the most up-to-date, evidence-based clinical guidelines.

- Identify drug-related problems and risk factors for diseases in this specialty and provide appropriate solutions.
- Develop specific monitoring plans for patients in this specialty, including desired outcomes, drug efficacy, and drug safety.
- Demonstrate the ability to provide patient education and counseling.
- Demonstrate the ability to work and communicate effectively (both verbal and written) with healthcare professionals and patients during the rotation.

Common diseases in this specialty:

- a. Hypertension
- b. Heart failure (acute & chronic)
- c. Thromboembolic disorders
- d. Coronary artery disease: (chronic stable angina)
- e. Acute coronary syndromes: (unstable angina & acute myocardial infarction)
- f. Arrhythmias
- g. Dyslipidemias
- h. Peripheral Vascular Disorders
- i. Cardiogenic shock
- j. Endocarditis
- k. Diabetes Mellitus
- l. Anemia
- m. Thyroid disorders
- n. Pain management
- o. Asthma
- p. COPD

Cardiology Rotation

Rotation Objectives:

The aim of the cardiology rotation is to provide interns with knowledge and skills in cardiovascular diseases and enhance their ability to participate actively in creating, designing, and monitoring therapies in cardiology. Interns will learn to analyze and apply evidence-based therapy and explain monitoring parameters, including efficacy, toxicity, potential adverse drug reactions, and drug interactions. The interns will be trained on:

- The goals of treatment for each disease in cardiology.
- Designing treatment plans and selecting the most appropriate pharmacologic and non-pharmacologic management of various cardiovascular diseases, supported by up-to-date, evidence-based clinical guidelines.
- Understanding the relationship between the pathophysiology of cardiovascular diseases and the mechanisms of action of the drugs used in this specialty.
- Identifying and solving potential and actual drug-related problems in patients with cardiovascular diseases.
- Designing a pharmaceutical care plan with a focus on treatment outcomes for cardiovascular diseases.
- Monitoring drug efficacy, adverse effects, compliance, and drug interactions for patients on cardiovascular drug therapy.

Learning Outcomes:

Upon completion of this rotation, the intern should be able to:

- Recommend patient-specific pharmacologic therapy for the management of different cardiovascular diseases, with an emphasis on mortality-reducing agents and their target doses.
- Develop an evidence-based pharmacologic regimen and monitoring plan for patients with different cardiovascular diseases.
- Develop a pharmaceutical care plan for patients with hypertension, hyperlipidemia, heart failure, coronary artery diseases, and arrhythmia.
- Identify patients at risk of atherosclerotic cardiovascular disease (ASCVD) using the pooled cohort equation to estimate the 10-year ASCVD risk and determine which patients should initiate statin therapy.

- Specify drug-drug interactions, if any, for different classes of antihypertensive drugs, antihyperlipidemic drugs, and drugs used in coronary heart diseases, heart failure, and arrhythmias.
- Design a therapeutic management plan for different compelling diseases, including dyslipidemias, heart failure, cardiogenic shock, arrhythmias, and cardioembolic disorders.
- Identify the toxicology of drugs used in different cardiovascular diseases.
- Understand the local administration of drugs to the cardiovascular system.
- Describe how an anticoagulation clinic works and how it is established.
- Calculate different parameters of the International Normalized Ratio (INR), understand the techniques involved, and measure it.
- Perform INR measurements for patients and adjust anticoagulant doses accordingly.

Infectious Diseases (ID) Rotation

Rotation Objectives:

This rotation is designed to enhance the intern's ability to provide comprehensive and up-to-date medication therapy management for patients with infectious diseases. The students will be trained on:

- Achieve treatment goals specific to infectious diseases caused by bacteria, viruses, protozoa, and fungi.
- Gain knowledge to select the most appropriate patient-specific antibacterial, antiviral, antiprotozoal, and antifungal treatments, supported by up-to-date, evidence-based clinical guidelines.
- Understand the pathophysiology of infectious diseases and the mechanisms of action of the drugs used in this specialty.
- Understand the sources and different types of pathogens causing infection.
- Identify potential and actual drug-related problems in patients with infectious diseases.
- Design a monitoring plan for drug efficacy, adverse effects, compliance, and drug interactions for patients with infectious diseases.

Learning Outcomes:

Upon completion of this rotation, the intern should be able to:

- Describe and recognize appropriate treatment for patients with upper and lower respiratory tract infections, urinary tract infections, central nervous system (CNS) infections, skin and soft tissue infections, osteomyelitis, intra-abdominal infections, and endocarditis.
- Develop a rationale for antimicrobial therapy, including proper dosing, frequency, and schedule.
- Recommend appropriate prophylaxis and preventive therapies for infectious diseases.
- Discuss the pathophysiology of infectious diseases, including signs and symptoms, clinical presentations, diagnosis, common laboratory findings, and complicating factors.
- Apply pertinent pharmaceutical principles when evaluating therapeutic problems, such as dose or regimen adjustments for certain drugs in the presence of renal or liver dysfunction or other comorbid conditions affecting drug absorption, distribution, metabolism, and elimination.
- Monitor patients' progress concerning therapeutic objectives to achieve the outcomes of pharmaceutical care.

- Develop and explain the most effective therapeutic plans to combat resistant strains in antimicrobial therapy.
- Define policies and procedures for the preparation and administration of admixtures, chemotherapy, and antimicrobial therapy.
- Discuss and compare specific antimicrobial therapy concerns and needs for different types of patients (e.g., neonatal, pediatric, elderly, critically ill, and septic patients).
- Design a treatment plan based upon evidence-based medicine, the latest guidelines, and literature review for the following but not limited to these diseases:
 - a. Viral hepatitis
 - b. Bacterial Gastroenteritis
 - c. Urinary tract infections
 - d. Sexually transmitted diseases
 - e. Community-acquired, hospital-acquired, and nosocomial pneumonia
 - f. Mycobacterium tuberculosis
 - g. HIV-related infections
 - h. Fungal infections
 - i. Soft tissue and bone infections
 - j. Malarial and parasitic infections
 - k. CNS infection
 - l. Brucellosis
 - m. Sepsis and septic shock

Clinical Nutrition and IV Admixture Rotation

Rotation Objectives:

This rotation is designed to allow interns the opportunity to enhance their knowledge base and develop clinical skills in providing clinical nutrition support therapy. The students will be trained on:

- Preparing IV admixtures using appropriate sterile techniques and gaining direct patient care experience.
- Understanding the principles and procedures of administering enteral and parenteral nutrition.
- Recognizing the management of malnutrition, including nutritional deficiencies associated with gastrointestinal and hepatopancreatic biliary dysfunction, as well as the gastrointestinal luminal, hepatic, and pancreatic consequences of overweight and obesity.
- Recognizing the nutritional deficiencies associated with premature infants.
- Providing sound and efficient nutrition care as part of pharmaceutical care for inpatients needing nutrition support therapy.
- Effectively using preventive and therapeutic clinical nutrition interventions.
- Understanding IV admixture and clinical nutrition-related calculations.

Learning Outcomes:

Upon completion of this rotation, the intern should be able to:

- Demonstrate skills and proficiency in identifying, interpreting, and suggesting appropriate patient-specific laboratory tests required to monitor clinical nutrition.
- Identify and solve nutrition and drug-related problems associated with enteral and parenteral nutrition administration.
- Perform aseptic techniques for preparing IV admixtures.
- Interpret and review physician orders for all types of clinical nutrition and IV admixture.
- Demonstrate competence in estimating and assessing individual patient nutritional requirements.
- Discuss and compare specific parenteral therapy concerns and needs for different types of patients (e.g., neonatal, pediatric, elderly, critically ill).
- Review the hazards, precautions, and guidelines for preparing, administering, and disposing of antineoplastics.

- Evaluate and optimize drug therapy outcomes by assessing:
 - The rationale for total parenteral nutrition (TPN)
 - The appropriateness of TPN use, dose, route, and schedule
 - Possible side effects and complications (pharmaceutical, metabolic, and mechanical)
 - Prescribing, dispensing, and administration errors
- Observe the preparation of all types of IV admixtures:
 - Large volume parenteral
 - Small volume parenteral
 - TPN
 - Chemotherapy
 - Home parenteral therapy

Pediatrics Rotation

Rotation Objectives:

The aim of this rotation is to develop the intern's knowledge, skills, clinical reasoning, and decision-making abilities to provide pharmaceutical care to pediatric patients (neonates, infants, and children) and recommend safe and effective evidence-based drug therapy. The students will be trained to:

- Understand the latest drug therapies for treating pediatric patients with diseases and disorders.
- Acquire the skills, knowledge, and attitude to develop autonomy and provide appropriate levels of supervision in pediatric clinical pharmacy.
- Understand the pharmacokinetics and pharmacodynamics, psychosocial influences on pediatric drug therapy selection, and differences in treatment options from adults.
- Assess the appropriateness of drug therapy in pediatric illnesses with different dosing, frequency, and formulations.

Learning Outcomes:

Upon completion of this rotation, the intern should be able to:

- Describe the most common pathogens associated with neonatal and pediatric sepsis and meningitis and current therapeutic options for their management.
- Identify the drugs available for preventing and treating respiratory syncytial virus.
- Describe the most common causative organisms of otitis media in children and their potential treatment options.
- Discuss the differences between children and adults in anticonvulsant drug pharmacokinetics and adverse effects.
- Discuss the pathophysiology of selected pediatric diseases, including signs and symptoms, clinical manifestations, common lab findings, and complicating factors.
- Monitor patients' progress regarding therapeutic objectives to achieve the outcomes of pharmaceutical care.
- Evaluate and solve drug-related problems associated with pediatric pharmacotherapy.
- Calculate pediatric dosing protocols and regimens.
- Discuss the latest guidelines and evidence-based pharmacy practices while evaluating therapeutic care plans and drug choices related to pediatric treatment.
- Identify the recommended pediatric immunization schedule and potential barriers.

Drug & Poison Information (DPIC) Rotation

Rotation Objectives:

The aim of this rotation is to enhance the intern's knowledge and cognitive and critical thinking skills in understanding the systematic approach to retrieving and evaluating drug information, as well as appreciating the role of a drug information specialist in multidisciplinary patient care. The students will be trained to:

- Understand and review comprehensive, unbiased, evidence-based medication information.
- Formulate responses to drug information requests based on literature analysis.
- Assess the effectiveness of drug information recommendations.
- Evaluate the appropriateness and cost-effectiveness of drug therapy.
- Report and evaluate adverse drug reactions, disseminate drug safety alerts, and participate in the medication use evaluation program.
- Maintain updated and appropriate drug information resources and support the professional development of pharmacy staff.

Learning Outcomes:

Upon completion of this rotation, the intern should be able to:

- Produce a search strategy for answering questions posted to a drug information center and understand the principles of a drug and poison information center and the pharmacist's role as a drug information provider.
- Describe the processes and materials required to establish a drug information center or service.
- Differentiate between primary, secondary, and tertiary literature in answering drug and poison information requests, including IDIS (IOWA system), MICROMEDEX, Medline, and the internet.
- Identify and analyze the strengths and weaknesses of available resources (primary, secondary, and tertiary references) and select the appropriate resources/databases.
- Define various types of requests and the required background information that should be extracted for each type.
- Prepare drug monographs as part of the student experience in performing drug and poison information services.

- Record information about drug-induced hepatotoxicity, nephrotoxicity, and hematological disorders.
- Evaluate responses to drug and poison information requests verbally and in written format.
- Describe various types of drug poisons, information about antidotes, and poisoning from animals, plants, and food products, including snake bites.

Ambulatory care Rotation

Rotation Objectives:

This rotation is designed to impart communication and interpersonal skills to interns to provide the highest quality ambulatory care to patients by developing clinical expertise and data to inform clinical care decisions. The students will be trained to:

- Review patient-specific data and medication history and assess the patient's clinical condition.
- Assess the appropriateness of physician medication orders by identifying possible dosing issues, scheduling concerns, cautions, and contraindications.
- Gain experience providing integrated, accessible healthcare services by pharmacists accountable for addressing outpatients' medication needs.
- Develop active and professional communication skills, both written and oral, with patients and other healthcare providers.
- Counsel patients about the optimal and rational use of their medications.

Learning Outcomes:

Upon completion of this rotation, the intern should be able to:

- Recommend suitable drug therapy, diet, or lifestyle modification changes for patients with acute and chronic diseases.
- Apply disease state knowledge to individual patients to evaluate existing medication therapies.
- Interpret patient-specific data and assess the patient's clinical status.
- Define the purpose of medication usage review.
- Demonstrate knowledge of medical conditions commonly encountered in ambulatory care settings.
- Recommend informed interventions and changes in drug regimens and non-drug interventions.
- Organize patient information into a SOAP note format to document patient interactions and care interventions according to rotation site procedures.
- Counsel patients about their drug use and foster drug adherence.
- Demonstrate knowledge of medical conditions commonly encountered in ambulatory care settings.

Medication Safety Rotation

Rotation Objectives:

This rotation is designed to provide interns with critical thinking and problem-solving skills in identifying and preventing medication risks and possible medication errors. The students will be trained to:

- Develop clinical skills to design, implement, and monitor rational, safe, effective, and individualized pharmaceutical care plans.
- Ensure that all patient-specific and medication-specific information supports safe medication use.
- Evaluate the appropriateness of using automation in preparing, storing, and dispensing medications.
- Establish inter-professional relationships with the multidisciplinary team for administering therapeutic medicine, including effective dosages, side effects, precautions, and contraindications.
- Ensure the right patient receives the right drug, in the right dose, by the right route, at the right time.
- Ensure all medicinal products are stored according to the patient information leaflet and any instructions on the label.

Learning Outcomes:

Upon completion of this rotation, the intern should be able to:

- Develop strategies to improve the healthcare system's monitoring and reporting of adverse events.
- Communicate effectively with other healthcare professionals to improve the healthcare system's medication use process policies and procedures.
- Describe the appropriate, safe, and correct preparation and dispensing of medications.
- Explain conditions that may affect the efficacy of medications, such as dosages, routes of administration, patient weight, renal and hepatic functioning, and other important patient characteristics, such as pregnancy.
- Evaluate potential interactions between newly prescribed medications and other medications already used by the patient.
- Define the potential risks of high-alert medications.
- Ensure that the patient's current medication is continued and that any additional medication used during the hospital stay is compatible with the patient's current therapeutic regimen.

Nephrology Rotation

Rotation Objectives:

This rotation is designed to help interns develop critical thinking skills and knowledge necessary to assess, prevent, and manage common renal diseases, such as acute kidney injury (AKI) and chronic kidney disease (CKD). It also familiarizes interns with the concept of dose adjustment in patients with renal diseases and introduces them to the medicines used in hemodialysis. The students will be trained to:

- Understand the symptomatology, physical findings, pathophysiology, diagnostic procedures, laboratory test results, and treatment options for acute and chronic renal failure patients.
- Develop clinical skills necessary to design, implement, and monitor rational, safe, effective, and individualized pharmaceutical care plans for acute and chronic kidney disease patients.
- Accurately analyze patient data to identify different stages of renal disease, renal function, and fluid and electrolyte status.
- Review the need to adjust drug dosages in patients with chronic kidney disease and, if necessary, change the dosage regimen based on informed pharmacokinetic calculations.

Learning Outcomes:

Upon completion of this rotation, the intern should be able to:

- Describe acute kidney injury (AKI) as pre-renal, intrinsic, or post-renal based on patient history, physical examination, and laboratory values.
- Identify risk factors for AKI and CKD.
- Formulate preventive strategies to decrease the risk of developing AKI in specific patient populations and create a therapeutic plan.
- Identify medications and medication classes associated with acute and chronic kidney damage.
- Describe characteristics that determine the efficiency of drug removal by dialysis.
- Classify the stage or category of chronic kidney disease (CKD) based on patient history, physical examination, and laboratory values.
- Identify risk factors for the progression of CKD.
- Formulate strategies to slow the progression of CKD.
- Calculate drug doses according to the stages of kidney failure.

Psychiatry Rotation

Rotation Objectives:

The purpose of this rotation is for students to gain professional skills in psychiatric pharmacotherapy. The psychiatry rotation allows interns to effectively participate in the patient care decision-making process. The students will be trained to:

- Understand the pharmacotherapeutic needs of psychiatric patients by utilizing evidence-based pharmacotherapy.
- Gain knowledge and make decisions about drug selection, dosing regimen design, frequency of drug administration, therapeutic monitoring, and the attainment of therapeutic goals while avoiding adverse reactions.
- Understand common psychiatric diseases, such as depression, anxiety disorders, substance abuse, bipolar disorder, and psychotic disorders, and their treatment modalities.

Learning Outcomes:

Upon completion of this rotation, the intern should be able to:

- Describe the role and responsibilities of psychiatric pharmacists in institutional or ambulatory care practice settings.
- Describe pharmacotherapeutic options for managing the following psychiatric disorders: major depression, bipolar disorder, schizophrenia, anxiety disorders, insomnia, and substance abuse.
- Describe the drugs used to treat these disorders with respect to unique pharmacologic properties, therapeutic uses, adverse effects, and cognitive and behavioral effects.
- Formulate a pharmacotherapeutic treatment plan for patients with major depression, bipolar disorder, schizophrenia, anxiety disorders, insomnia, or substance abuse.
- Evaluate and review drug selection, dosing regimen design, and therapeutic drug monitoring (TDM) to assess therapeutic efficacy and avoid adverse reactions in the context of drug-related problems (DRPs).
- Explain the mechanism of action, pharmacological effects, indications, dosage, side effects, cautions, and contraindications of drugs used in the treatment of:
 - Anxiety disorders and panic attacks
 - Major depression and mood disorders
 - Schizophrenia

Surgery/Trauma Rotation

Rotation Objectives:

The purpose of this rotation is for interns to gain professional skills in trauma and surgery.

This rotation provides interns with the opportunity to effectively participate in the patient care decision-making process. The students will be trained to:

- Familiarize themselves with different surgical procedures and the pharmacotherapeutic requirements in surgical and anesthetic fields.
- Understand the most commonly encountered pharmacotherapeutic issues in surgery, including hemodynamic support (fluids and/or pressors), sedation, prophylaxis for pain management, wound care, and the prevention of complications (such as thrombosis).

Learning Outcomes:

Upon completion of this rotation, the intern should be able to:

- Define the role of the most common medical devices used in trauma and surgery.
- Describe the role of inhalation, oral, and parenteral anesthetics in general surgery.
- Discuss and monitor the use of analgesics, neuromuscular blockers, reversal agents, and prophylactic antibiotics in surgical processes.
- Provide recommendations for medication dose adjustments based on recent evidence-based guidelines.
- Develop the ability to discuss the therapeutic management of postoperative complications.

Solid Organ Transplantation Rotation

Rotation Objectives:

This rotation enhances the intern's knowledge and critical thinking skills regarding solid organ transplantation, focusing on in-depth therapeutic approaches, post-transplantation complications, and their management. The students will be trained to:

- Understand and familiarize themselves with treatment options for patients undergoing solid organ transplantation, including but not limited to kidney, liver, lung, and heart transplantation.
- Describe the rationale and utilization of immunosuppressive drugs used in pre- and post-transplantation.
- Review and familiarize themselves with post-transplant complications, including but not limited to post-transplant rejection, delayed graft function, drug toxicities, infections, bone and mineral metabolism, and metabolic complications.

Learning Outcomes:

Upon completion of this rotation, the intern should be able to:

- Demonstrate the utilization of immunosuppressive drugs used for transplantation.
- Monitor pre- and post-transplant drug therapy tailored to the individual patient's condition.
- Evaluate and manage post-transplantation complications, including but not limited to acute and chronic transplant rejection, delayed graft function, drug toxicities, infections, bone and mineral metabolism, and post-transplant metabolic disorders.
- Demonstrate proficiency through literature review, topic discussion, and/or direct patient care in common diseases in organ transplantation, including but not limited to:

Chronic diseases in organ transplant recipients:

- a. Diabetes Mellitus
- b. Hypertension
- c. Hyperlipidemia
- d. Ischemic heart diseases

Infectious disease complications post organ transplantation:

Bacterial, fungal, parasitic, and viral infections

Non-infectious complications of organ transplantation:

Osteoporosis, polycythemia, posttransplant lymphoproliferative diseases (PTLD), Nephrotoxicity, Neurotoxicity, and acute coronary syndrome

Oncology Rotation

Rotation Objectives:

This rotation is designed for interns to gain critical thinking and professional skills to participate in interdisciplinary oncology patient care. The students will be trained to:

- Understand and recommend evidence-based pharmacotherapeutic regimens, monitoring plans, and pharmaceutical care for patients with cancer.
- Organize and evaluate patient-specific medical details to prevent, detect, and resolve drug-related problems.
- Assess and recommend appropriate pharmacotherapy for managing chemotherapy-related complications.
- Familiarize themselves with various chemotherapy protocols and understand the dosing, frequency, dosage forms, and adverse effects.
- Understand the pharmacokinetics and pharmacodynamics of cancer medications and dose calculations by body surface area.

Learning Outcomes:

Upon completion of this rotation, the intern should be able to:

- Describe and treat the most common complications of cancer chemotherapy, such as nausea and vomiting, anemia, immunosuppression, allergic reactions, fever, pain management, and prophylaxis against infections.
- Perform cancer-specific patient assessments and develop therapeutic goals.
- Utilize available protocols, latest guidelines, medication policies, and critical pathways to recommend appropriate evidence-based and cost-effective patient-specific treatment.
- Explain various genetic, gender-related, age-related, and disease-related factors that influence responses to cancer-related drug therapy.
- Explain the rationale for the standard drug combinations used to treat individuals with cancer.
- Accurately calculate cancer-related medication doses according to body surface area, area under the curve, or other standard methods the organization prefers.
- Explain the necessity of prescribing supportive medications when chemotherapy is prescribed.
- Provide counseling to cancer patients about their discharge medications and develop specific pharmaceutical care plans and monitoring parameters.

- Explain and demonstrate good aseptic techniques and standard precautions when using hazardous drugs.
- Discuss treatment modalities for some common cancers through literature review, topic discussion, and/or direct patient care experience, including but not limited to:
 - a. Breast cancer and prostate cancer
 - b. Colorectal cancer
 - c. Acute and chronic leukemia and lymphomas
 - d. Lung cancer
 - e. Ovarian cancer
 - f. Brain tumors

Hematology Rotation

Rotation Objectives:

This rotation is designed to impart interns with professional and critical thinking skills regarding therapeutic medications, supportive care for patients, as well as the effects of medications on lab results and disease management in hematological disorders. The students will be trained to:

- Understand and familiarize themselves with treatment protocols for hematological disorders.
- Develop a knowledge base of etiology, pathogenesis, clinical presentation, diagnostic criteria, prognosis, standard treatment regimens, therapeutic goals, pharmaceutical care plans, and monitoring parameters associated with hematological diseases.

Learning Outcomes:

Upon completion of this rotation, the intern should be able to:

- Identify, assess, and recommend appropriate pharmacotherapy for managing common complications of hematology chemotherapy.
- Assess and recommend appropriate pharmacotherapy for managing anemia and blood-related disorders.
- Assess and recommend appropriate pharmacotherapy for managing hematologic emergencies, including severe iron deficiency and low hemoglobin levels.
- Describe and evaluate the toxicology of drugs used to treat blood-related disorders and their management.
- Utilize evidence-based pharmacy and literature evaluation and apply critical thinking and decision-making in designing the latest management strategies for different types of anemia, thalassemia, hemophilia, sickle cell anemia, aplastic anemia, thrombocytopenia purpura, and other blood-related disorders.

Community Pharmacy Rotation

Rotation Objectives:

This rotation is designed to develop interns' skills in patient counseling, medication management, and community health initiatives. Interns will gain practical experience in dispensing medications and advising on over-the-counter products.

Learning Outcomes:

Upon completion of this rotation, the intern should be able to:

- Understand the job responsibilities of community pharmacists, including the ethical and legal implications of dispensing medications and advising patients.
- Understand the operational aspects of running a community pharmacy, including inventory management, regulatory compliance, and financial operations.
- Deliver effective patient counseling on prescription medications and over-the-counter products.
- Evaluate and implement strategies for improving medication adherence among patients.
- Design and manage medication therapy for chronic diseases prevalent in the community setting.
- Collaborate with healthcare providers to optimize patient outcomes and promote a collaborative care model.
- Utilize pharmaceutical care tools and technology to enhance patient care and service delivery.
- Be aware of brand names and generic alternatives of medications, understanding the implications for patient choice and cost.
- Learn the basics of selling techniques in retail pharmacy to effectively promote health products and services.
- Develop essential soft skills such as communication, teamwork, and problem-solving in a high-paced retail environment.

Food and Drug Administration Rotation

Rotation Objectives:

This rotation is intended to familiarize interns with the regulatory framework governing pharmaceuticals and medical devices in the United States. Interns will participate in reviewing and approving new drug applications and gain insights into post-marketing surveillance and compliance monitoring.

Learning Outcomes:

Upon completion of this rotation, the intern should be able to:

- Navigate the regulatory pathways for drug approval, understanding the detailed requirements for each stage.
- Understand the FDA regulations, focusing on drug safety and efficacy throughout a product's lifecycle.
- Participate in evaluating adverse drug reactions and safety updates to ensure public health protection.
- Develop skills in interpreting and applying regulatory guidelines to ensure that pharmaceutical practices meet current standards.
- Understand the roles and responsibilities of regulatory professionals within the FDA, including the complexities of risk assessment and management.
- Utilize regulatory databases and tools for tracking drug development and post-market activities.
- Enhance teamwork and communication skills for effective collaboration within and across FDA divisions.

Pharmaceutical Companies Rotation

Rotation Objectives:

This rotation is designed to expose interns to the drug development process, from research and development to marketing and sales. Interns will learn about the regulatory requirements and the scientific, ethical, and business considerations involved in bringing current and new pharmaceutical products to the market.

Learning Outcomes:

Upon completion of this rotation, the intern should be able to:

- Describe the drug development process, including discovery, clinical trials, and regulatory approval.
- Analyze the impact of pharmaceutical marketing strategies on healthcare practices.
- Navigate and adhere to industry regulations and ethical guidelines in all interactions.
- Master comprehensive product knowledge, including various pharmaceutical products' indications, contraindications, benefits, and risks.
- Understand effective sales techniques and develop and evaluate strategic territory management plans to increase product visibility and market share.
- Analyze market data to support sales performance assessments and identify opportunities for market growth.
- Understand the job responsibilities of Medical Representatives and the tools used in their daily work, including CRM systems, data reporting tools, and communication platforms.
- Develop essential soft skills such as advanced communication, teamwork, problem-solving, and adaptability to support and enhance team efforts.

Appendices

Undertaking Form

I, _____ S/o

_____,

I.D No. _____ is an Intern Pharmacist at the College of Pharmacy, Qassim University. I abide by all the Rules, Regulations, and Instructions mentioned in this clerkship manual as written and framed by the College of Pharmacy and as amended occasionally. I shall be responsible for any actions from the authorities if I fail to comply with the rules and instructions in the clerkship manual.

Intern Name: _____

Signature _____ Date: _____

Evaluation of the Learning Experience (Rotation Assessment Form by Field Supervisors)

Intern's Name: _____ Field Supervisor Name: _____

Rotation: _____ Rotation Duration Dates: _____

Assessment Scale

- [5] - **Excellent** Consistently performs above expected pharmacist level **and** displays attributes consistent with an advanced practitioner.
 [4] - **Very Good** Often performs at a level above expected pharmacist competency.
 [3] - **Satisfactory** Performs at a pharmacist level. Displays attributes consistent with readiness to enter general practice.
 [2] - **Poor** Often performs at a level below that of expected pharmacist competency.
 [1] - **Deficient** Rarely performs at the level expected for a pharmacist. Needs improvement to be ready to enter general practice.

Please note:

Section A: assessed in every rotation (clinical and non-clinical).

Sections B and C: Select the competencies applicable to the specific rotation.

A. GENERAL SKILLS AND ABILITIES [Professionalism and Values]

1	2	3	4	5	
					1. Consistently demonstrates reliability, accountability, and confidence in accepting and fulfilling assigned tasks
					2. Actively assesses personal progress, identifies learning opportunities, and demonstrates commitment to continuous improvement
					3. Collaborates effectively within multidisciplinary healthcare teams, contributing to collective goals
					4. Facilitates and supports effective teamwork across disciplines
					5. Maintains high ethical standards and trust through transparency and proper judgment in all professional interactions
Total Marks					

B. COMMUNICATION SKILLS

Check all the appropriate boxes

1	2	3	4	5	
					6. Exhibits clear and collaborative communication, both verbal and written, with team members
					7. Displays adaptability in communication styles to meet the needs of patients from diverse social and economic backgrounds
					8. Demonstrates proper administration techniques for various drug delivery systems and communicates the appropriate dosages and durations of therapy
					9. Demonstrate practical patient counseling skills
Total Marks					

C. COMPETENCIES AND ABILITIES [*Knowledge and Skills*]

Check all the appropriate boxes

1	2	3	4	5	
					10. Critically assesses medical information based on evidence-based guidelines and scientific literature
					11. Demonstrates adherence to professional standards, legal mandates, and institutional policies
					12. Maintains accurate records while respecting patient confidentiality and industry data integrity standards
					13. Designs and communicates patient-centered care plans or product information, considering patient needs and healthcare professional inquiries
					14. Identifies and addresses drug-related problems or product inquiries based on clinical significance and market impact in healthcare
					15. Effectively applies guidelines and scientific data
					16. Evaluates patient safety and medication use, advocating for rights and educating on proper use across healthcare settings.
					17. Applies mathematical and analytical skills to accurately calculate dosages and understand economic implications
					18. Observes and articulates protocols for aseptic handling and dispensing of sterile and compounded pharmaceutical preparations
Total Marks					

Final Grade (100%): $\frac{\text{Total Score from all items}}{\text{Number of evaluated items}} \times 20 =$

* Note: Section A items are evaluated in every rotation. Select applicable items from Sections B and C only.

Example: If an intern scores a total of 80 points over 18 items, the calculation would be: $(80/18) \times 20 = 88.89\%$

Another example: If an intern scores a total of 75 points over 15 items, the calculation would be: $(75/15) \times 20 = 100\%$

Other Comments:

Specific strengths:

-
-

Specific areas needing improvement:

-
-

Preceptor's Signature: _____ Date: _____

Note: Please submit this form via email to the Internship Year Office at pharmacyintern@qu.edu.sa

Appeals

Students who wish to appeal the outcome of an experiential rotation may complete the appeal form attached below, duly named, signed, and dated, and send it to the Experiential Educational Committee secretary for discussion within the committee. Depending on the circumstances, students may be allowed to progress until the rotation appeal has been resolved. The committee will consider and decide the appeal within 30 days of receiving the notification of the appeal.

The Experiential Educational Committee, in accordance with the information it receives, may:

- a. Uphold the appeal
- b. Deny the appeal
- c. Make recommendations concerning the appeal as appropriate in the circumstances and are not inconsistent with the College Internship regulations.

The decision of the Experiential Educational Committee regarding the appeal shall be final.

Appeal Form

Section (1) About the Decision You Are Appealing Against

Title of the Appeal

Section (2) About You

Name	ID
Location	
Rotation	

Section (3) About Your Appeal

Grounds for appeal

In this section, we need to know why you are appealing. Please write down why you disagree with the decision in your own words.

If you do not complete this section, your appeal will be delayed, and the appeal form may be returned to you.

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Section (4) Your Signature

You must write your name and sign your appeal form for it to be valid

Name	Signature
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Date	DD	MM	YY	YY	YY
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