



APPE Rotation Description

UC San Diego Hillcrest Medical Center Hospital Practice Rotation

GENERAL INTRODUCTION

The UC San Diego Hillcrest Medical Center is a 350 bed clinical teaching hospital that provides opportunities for pharmacy students to apply their acquired knowledge and skills to the range of professional services and activities expected in a hospital of integrated pharmaceutical services.

PRIMARY PRECEPTOR

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INTRODUCTION TO THE ROTATION – 6 Week Rotation

The Acute Care Hospital Practice Rotation will take place within UC San Diego Health – Hillcrest Medical Center Department of Inpatient Pharmacy. The student will meet with preceptors in a variety of settings to gain a broad exposure to hospital pharmacy practice. Practice settings may include but are not limited to:

1. The central dispensing area (CDA)
2. IV room
3. Decentralized pharmacy services on patient units
4. Pharmacy Home Infusion Services (PHIS)
5. Operation Room Pharmacy

A majority of patients at Hillcrest are adult patients with various races, ethnic, socioeconomic differences. There is also a labor & delivery and neonatal intensive care unit catering to a neonatal/pediatric population.

From this rotation, students will learn the medication use process by gaining experience in the preparation of parenteral medications, drug distribution, practice management-related activities as well as decision-making and drug information activities. Through these activities and assigned projects, students will not only learn and grow professionally, but will also provide valuable information to the Inpatient Pharmacy operations.

The student is under the supervision of a variety of clinical pharmacists. The student will have an opportunity to work with an inter-professional environment with a team including, but not limited to the following disciplines:

- Pharmacist Preceptor (including pharmacy residents)
- Physicians

- Nurses
- Other healthcare providers

Through this hands-on experiential rotation, an individual will progress from the student pharmacist level to being accountable for pharmacist-associated responsibilities. This will require communication with pharmacists, patients and other caregivers. Responsibilities include, but are not limited to:

- Rounding on various inpatient units
- Therapeutic drug monitoring
- Performing admission/discharge medication reconciliations
- Assisting with projects that help the department evaluate its drug use system

Students will have access to EPIC, which is UC San Diego's electronic medical record (EMR). Students will have access to contemporary online information resources, including Micromedex, Up-To-Date, Clinical Pharmacology Online, and Natural Medicines Database.

GOALS AND OBJECTIVES

General objectives can be found in the APPE Hospital/Health-System syllabus located on the SSPPS website: <http://pharmacy.ucsd.edu/faculty/experiential.shtml> .

Site Specific Objectives:

During the Hospital Practice Rotation, a special focus will be made on the following outcomes and goals:

Medication Use Process – The student will develop a general understanding of the medication use process.

1. Selection and procurement
2. Storage
3. Ordering & Transcribing
4. Preparing & Dispensing
5. Administration
6. Monitoring & Evaluation

Selection, Procurement, & Storage – Develop and Manage Medication Distribution and Control Systems

1. Learn how an automated drug distribution system (Pyxis®) operates.
2. Understand and perform drug control, storage, and security functions in pharmacy distribution.
3. Demonstrate competency in the distribution of controlled substances in compliance with DEA regulations.
4. Evaluate the department's policies and procedures pertaining to the detection, evaluation and reporting of adverse medication events.
5. Understand strategies that the department is using to monitor and evaluate the cost of drug therapy (Pharmacoeconomics) and attend various meetings (example: P&T).

6. Work on assigned projects that help the department evaluate its drug use system for safety and effectiveness.

Preparation & Dispensing of Medications – The student may develop proficiency in the use of equipment and devices for compounding medication products and in the preparation of sterile products.

1. Demonstrate competency with USP (United States Pharmacopeia) Chapter 797, Pharmaceutical Compounding: Sterile Preparations, (USP).
2. Demonstrate competency in preparing a variety of intravenous medications using appropriate aseptic techniques.
3. Demonstrate the proper procedure for maintaining the sterility of materials being used for compounding a sterile product.
4. Demonstrate the proper use of equipment and devices used in compounding sterile products including horizontal and vertical laminar flow hoods.
5. Compound non-sterile products using the appropriate technique.

APPE ACTIVITIES

Direct patient care activities

1. Providing patient education, i.e. anticoagulation counseling, discharge counseling, etc.
2. Performing medication reconciliations

Non-patient care activities

1. Participating in discussions and assignments regarding compliance with accreditation, legal, regulatory/legislative, and safety requirements
2. Participating in the health system's formulary process
3. Participating in discussions and assignments regarding the drug approval process
4. Participating in the pharmacy's quality improvement program

Interprofessional interaction and practice

1. Ensuring continuity of pharmaceutical care among health care settings
2. Rounding with inpatient teams

Medication dispensing, distribution, administration, and systems management

1. Reviewing physician orders and verify prescription orders under preceptor direction
2. Preparing and dispensing medications
3. Managing systems for storage, preparation, and dispensing of medications
4. Managing the medication use system and applying the systems approach to medication safety
5. Participating in purchasing activities
6. Identifying and reporting medication errors and adverse drug reactions
7. Working with the technology used in pharmacy practice

EVALUATION

The student will complete three evaluations throughout this experience:

- 1) A Midpoint/Formative Self-Evaluation
- 2) A Preceptor Evaluation
- 3) A Site Evaluation

The preceptor, in addition to commenting/signing off on the student Midpoint/Formative Self-Evaluation, will complete a Summative Evaluation at the end of the rotation. Students may be evaluated at any other time at the discretion of the preceptor. Preceptors may evaluate students more frequently, so that the student is informed of areas requiring improvement early in the rotation. The primary preceptor should obtain feedback from all team members as well as any patient comments. Grading will be Satisfactory/Unsatisfactory.

ORIENTATION TO THE ROTATION

During the first day of the rotation the student will be oriented to the pharmacy services and pertinent policies and procedures will be reviewed. On the first day, the following will take place:

- A brief tour and overview of the pharmacy
- Meet with pharmacy staff and understand each person's role in the pharmacy and how they integrate within the system
- Discuss rotation's expectations and the student's schedule
- Review department specific policies and procedures, including:
 - Medication Use Process
 - Inpatient Drug Distribution and Control
 - Compounded Sterile Products
 - Controlled Substances
- Review available drug information resources
- Review training materials: CD on sterile compounding and USP 797 Facts
- Attendance: primarily Monday-Friday, times and locations will vary. One week will include overnight shifts.
 - Preceptor will communicate in advance any changes to the schedule. Student needs to contact preceptor by texting preceptor on their listed cell phone above for any sick calls. Other professional requests must be discussed and approved by preceptor in advance.
- Dress Code: Business casual attire or scrubs as appropriate closed toes, white coat and badge required.
- Parking: Students may park in the Bachman parking structure and purchase a parking permit: <http://blink.ucsd.edu/facilities/transportation/permits/buy.html>

SUPPLEMENTARY MATERIALS AND ASSIGNMENTS

Specific reading assignments will be given upon the start of the rotation and subject to change.

- Board of Pharmacy Self-assessments

- Hospital Pharmacy self-assessment: http://www.pharmacy.ca.gov/forms/17m_14.pdf
- Compounding self-assessment: http://www.pharmacy.ca.gov/laws_regs/17m-39_rev2011_adopted.pdf
- California Title 22: [https://govt.westlaw.com/calregs/Document/I8AD1D2C0941F11E29091E6B951DDF6CE?viewType=FullText&originationContext=documenttoc&transitionType=CategoryPageItem&contextData=\(sc.Default\)](https://govt.westlaw.com/calregs/Document/I8AD1D2C0941F11E29091E6B951DDF6CE?viewType=FullText&originationContext=documenttoc&transitionType=CategoryPageItem&contextData=(sc.Default))
- DEA Pharmacist Manual: <http://www.deadiversion.usdoj.gov/pubs/manuals/pharm2/index.html>
- Online Clinical Library Review: <http://libraries.ucsd.edu/clinlib/>
- USP Compounding Standards & Resources: <http://www.usp.org/usp-healthcare-professionals/compounding>
 - ASHP's compounding sterile prep: <https://vimeo.com/64917527>
- UC San Diego Health Medical Center Policies (MCPs): <http://mcpolicy.ucsd.edu/>
 - Specific policies will be specified
- Other Supplementary Materials to be given on first day of rotation