Syllabus
Hospital Advanced Pharmacy Practice Experience

Overview

Course Description
During the course of the four-week rotation period, the student will be exposed to the daily clinical activities of the hospital pharmacy setting, with the focus placed upon a patient care approach. The student will learn the goals of clinical intervention and the steps necessary to effectively execute those interventions. Evaluating and solving drug related problems, patient interaction, and acting as a primary health care source will be stressed.

Ability Based Outcomes

A. The student should demonstrate competency in performing pharmacy operations.
   1. Processes a prescription order.
   2. Retrieves and interprets patient specific data.
   3. Demonstrates knowledge of pharmacy laws and regulations.
   4. Demonstrates knowledge of management skills needed to maintain a pharmacy department.
   5. Assesses and evaluates the financial impact of drug therapy.

B. The student should be able to evaluate, review or develop, implement and monitor therapeutic outcomes associated with a pharmaceutical care plan for a patient.
   1. Understand how to evaluate laboratory and patient data.
   2. Develop basic patient (including physical) assessment.
   4. Develop a pharmaceutical care plan for patients.
   5. Integrate problem solving in developing cost-effective therapy related plan toward achieving a desired therapeutic outcome, keeping in mind non-pharmacologic alternatives.

C. The student should be able to identify and use drug information services to facilitate their role as a drug-information specialist for other health care professionals and patients to achieve positive therapeutic outcomes.
   1. Interact appropriately with other members of the health care team.
   2. Know and use the sources of drug information in the community pharmacy setting.
   3. Apply drug information to obtain positive outcomes for patients.
   4. Serve as drug information specialists for patients and other health care professionals.
   5. Understand the responsibility and reporting mechanism for adverse drug reactions.

D. The student should be able to develop oral or written presentations on a drug topic or drug-related topics to other health care professionals and patients.
   A. Effectively communicate in verbal and/or written form, in concise and organized fashion, a pharmaceutical evaluation of the patient.
   B. Develop presentation skills for variable audiences for interdisciplinary or community health education.

Portions of this syllabus adapted from References 11, 13 and the Achieving Preceptor Excellence (APEX) program.
More information about APEX is available at www.cop.ufl.edu/apex.
Syllabus
Hospital Advanced Pharmacy Practice Experience

E. The student should be able to develop oral and written skills to provide education to patients.
   1. Develop specific communication skills for prescription counseling, support group education, compliance education.
   2. Develop a specific knowledge base and communications skills to provide appropriate self care counseling.

F. The student should be able to understand the purpose of and develop skills in completing the following pharmacy management skills/tasks
   1. Inventory control
   2. Personnel management
   3. Quality improvement procedures
   4. Fiscal management (e.g., third party billing)
   5. Marketing
   6. Physical space and workflow design/management

G. Based on the services and facilities available at the site, the student should develop the knowledge skills and attitudes to provide one or more of the following patient care services:
   A. Disease management including patient assessment skills, drug related problem solving skills, health care team interaction skills, and patient monitoring skills.
   B. Durable medical equipment, devices, and supplies
   C. Compounding
   D. Ancillary services e.g., home infusion, long term care dispensing, long term care consulting

Activities

In this clerkship the student will be involved in the following activities.
1. Perform and record patient medication histories.
2. Initiate and update patient medication profiles.
3. Perform triage functions in discussing health related problems with patients and referring them to appropriate health care providers or recommending appropriate self-care.
4. Perform therapeutic drug monitoring through patient interview and medication profile review and drug serum concentrations and other laboratory tests as needed.
5. Counsel and teach patients regarding the appropriate use of prescription medication, OTC medications, and medical supplies.
6. Prepare a personal non-prescription formulary to assist in over-the-counter (OTC) medication recommendations. This formulary will address the following therapeutic topics: selection of analgesics, cough and cold, antacid, and laxative products. It should address the needs of patients with hypertension, diabetes, and elderly, pediatric, and pregnant patients. It is recommended that this be presented in a table format. The OTC formulary is due by week 3 of the rotation.
7. Interact with health care providers verbally and in writing when necessary.

Portions of this syllabus adapted from References 11, 13 and the Achieving Preceptor Excellence (APEX) program.
More information about APEX is available at www.cop.ufl.edu/apex.
Syllabus
Hospital Advanced Pharmacy Practice Experience

8. Participate in community health education or screening project.
9. Prepare a written and oral patient case report critically analyzing drug therapy. The student should select a case that is sufficiently complex or unique. The faculty member will approve the patient selection. The process of data collection for this report should include a thorough patient interview.
10. Answer with proper documentation at least 3 drug information questions (forms provided) drug from patients or other health related professionals.
11. The student will prepare and submit two “new drug” reviews. The first will be presented to the on-site preceptor during week 3. A written copy of information presented must also be submitted by the close of the rotation. The second “new drug” is due by the last day of rotation. One of these reviews may cover an herbal medication.
12. Journal Club assignment

Project Activities

The student must select and complete at least one of the following by the end of the month.

1. Prepare a project proposal outlining the expansion of clinical services at the clerkship site. This should include data on need, feasibility, legalities, expense, profitability, and time to implement. This could be an expansion of existing services or a new service to be instituted.
2. Prepare an analysis of a current clinical service for evaluation purposes. This could include, patient subjective evaluation, health care professional subjective evaluation, cost justification, or impact on patient studies.
3. Participate in expanding the clinical services of the pharmacy as outlined in a previous clerkship project.
4. Prepare and deliver an in-service or newsletter to a group of local health care professionals concerning a current topic.
5. Prepare one review article covering a timely therapeutic topic, new drug, innovative community pharmacy intervention, or other topic. A detailed outline (1-2 pages) of the article should be submitted to the faculty by week 2; the first complete draft is due by week 3.
6. Other projects as appropriate to the site and agreed upon by the student and preceptor.
Syllabus
Hospital Advanced Pharmacy Practice Experience

Evaluation & Grading

1. A total of 100 points will be divided as follows:

   Daily Professional Activities Evaluation 45%
   A. Team Interaction / Education
   B. Critical Thinking and Problem-Solving Skills
   C. Verbal and Written Communications Skills
   D. Disease State Knowledge
   E. Evaluate Prescription and Pharmacy Profile
   F. Patient Interviews / Drug History Taking / Patient Assessment
   G. Design Care Plan/Identify, Resolve and Monitor Medication Related Problems
   H. Professionalism/Caring Attitude
   I. Initiative / Enthusiasm /Follow-through
   J. Attendance

   Subtotal

   Assignment Evaluation 55%
   K. Selected Project (15%) _____
   L. New Drug Review (2) (10%) _____
   M. Drug Information Questions (3) (5%) _____
   N. OTC Formulary (5%) _____
   O. Formal Patient Presentation (15%) _____
   P. Journal Club (5%) _____

   Subtotal

   Total

2. The grading scale is as follows:

   A 92-100
   B+ 87-91
   B 82-86
   C+ 77-81
   C 72-76
   F < 72

3. A verbal or written mid-point evaluation is recommended at the end of week 3 of rotation. It is the student’s responsibility to request a mid-point evaluation from their site preceptor.

Portions of this syllabus adapted from References 11, 13 and the Achieving Preceptor Excellence (APEX) program.
More information about APEX is available at www.cop.ufl.edu/apex.