Advanced Pharmacy Practice Experience

Community Patient Care Pharmacy Practice Syllabus

Course Number: PHA 3030
Course Title: Community Patient Care Pharmacy Practice
Credit Hours: 5 Hours
Prerequisites: P3 Standing
Date Syllabus Prepared: January 13, 2010

Course Description:
This is a 5-week required advanced pharmacy practice experience in an community pharmacy setting that focuses the student experience on providing patient-centered pharmaceutical care services such as disease management, medication therapy management, preventative health screening, immunizations, specialty compounding, patient education, or other advanced patient care activities.

Background:
The community pharmacy practice setting provides the opportunity for pharmacists to be "the most accessible health care providers." To achieve this, pharmacists must be able to provide cognitive services such as disease management, triage of patients to pharmacist-directed care or referral to medical services, individualized patient education including non-prescription/self-care counseling, and patient follow-up and monitoring. The primary purpose of this rotation is to prepare students to be a health care provider in the community setting. The patient care process emphasized during this rotation is one in which a pharmacist cooperates with a patient and other health professionals in designing, implementing, and monitoring a therapeutic plan that will produce specific positive *outcomes* for the patient.

Community pharmacy practice settings are undergoing significant change to provide patient-focused care and some of the sites where this rotation is taught are involved in this transition. When applicable, the student will participate in this transition process by promoting the role of the pharmacist to patients through conduction of a special project or pilot implementation of a new pharmaceutical care service.

<u>Outcomes and Goals</u>
The Advanced Pharmacy Practice Experience Manual outlines the core outcomes and goals that are to be achieved by the end of the course. During the Community Patient Care Pharmacy Practice experience, a special focus will be made on the following outcomes and goals:

Communication Abilities – The student shall read, write, speak, listen, and use media to communicate.

A. Effectively communicate, verbally and in writing, with other health care professionals (pharmacists, physicians, nurses, etc.) about therapeutic plans, other patient care needs, and health care issues.
B. Articulate and support drug therapy recommendations.
C. Effectively communicate patient and/or medication self-management information to patients and health professionals.
D. Formulate and deliver programs for health care consumers that center on disease prevention and wellness promotion (i.e., smoking cessation, exercise, nutrition, immunizations, weight reduction).
E. Prepare and present an educational program to a group of health care professionals or patients in an effective manner.
F. Effectively interviews patients and/or their caregivers to obtain pertinent patient information and history needed to provide pharmaceutical care.

Patient Counseling

A. Uses open-ended questions to determine patient needs and understanding of medication counseling.
B. Describes the legal obligations for patient counseling, including documentation.
C. Collects and organizes written patient information materials for use in counseling.

D. Identifies patients who have or may have problems with medication compliance and methods useful in enhancing compliance.

Drug Therapy Assessment, Monitoring, and Management – The student shall assess the appropriateness of patient's drug therapy, monitor tolerance and effectiveness, and identify, prevent, and resolve drug-related problems.

A. Assess each acute and chronic medical problem.
B. Identify the following drug-related problems:
    a. Drug therapy is needed for untreated indications.
    b. Patient is receiving a drug that has no indication and/or there is therapeutic duplication.
    c. There is a better choice of drug based on patient/disease characteristics, formulary, cost, etc.
    d. Drug therapy needs optimization (population and patient-specific pharmacokinetic and pharmacodynamic data indicate a drug regimen is not optimized).
    e. Medication non-adherence.
    f. Drug induced disease/medical conditions.
    g. Socio-behavioral and economic barriers to effective drug therapy.
    h. Adverse drug reactions that are substantiated by laboratory, test, and physical findings.
    i. Routes of administration that are not the best, safest, and most cost-effective.
    j. Drug interactions that are substantiated with pharmacokinetic/dynamic and compatibility information.
C. Evaluate and resolve each drug-related problem.
D. Prioritize drug-related problem list.
E. Demonstrates skill in the use of monitoring devices (e.g., blood pressure, pulse, blood glucose).

Compounding of Medications *(if applicable to practice site)*

A. Collects and assembles the correct components for products that require compounding.
B. Calculates the correct amount of ingredients for a compounded product by solving mathematical problems involving:
    a. conversion of weights and measures and direct ratio and proportion
    b. reducing and enlarging formulas
    c. specific gravity, percent strength, weight-in-volume, weight-in-weight, and volume-in-volume
    d. involving dilution and concentration
    e. milliequivalents
C. Compounds a variety of products using the appropriate technique.

The student should receive a schedule at the beginning of the month that will provide a time-line for completion of the rotation objectives. Some responsibilities may require the student to be present during evenings and weekends.

Typical Rotation Schedule *(To be completed by preceptor and student)*

Times	Monday	Tuesday	Wednesday	Thursday	Friday	Weekends
7-8 am						
8-9 am						
9-10 am						
10-11 am						
11-12pm						
12-1 pm						
1-2 pm						
2-3 pm						
3-4 pm						
4-5 pm						

Rotation Activities

Orientation to Pharmacy: During the first few days of the program, the student should be oriented to the practice site and pertinent policies and procedures. The student should:

A. Tour the practice site and meet personnel. The preceptor will explain the personnel member's role within the site and duties to the student (if applicable) and the student's responsibilities as a student pharmacist within the practice site.
B. Review the pharmacy's policies and procedures if a manual is available. The student and preceptor should discuss the policies and procedures. Specific discussion points should include:
    a. Confidentiality including HIPAA
    b. Appropriate Dress
    c. Lines of Authority
    d. Pharmacy security
    e. The student's schedule
    f. Available drug information resources
    g. The preceptor's practice philosophy regarding professional responsibilities and pharmaceutical care.
C. Learn how to access and interpret a patient's pharmacy record (medical history, patient data (height, weight, labs, BP, etc.), legend and nonprescription medications, allergies, adverse drug reaction history, pharmacist's progress notes.
D. The student and preceptor should review and discuss the student's professional portfolio.

Student Responsibilities:

A. Provide direct patient care by participating in the pharmacy's disease management and other patient monitoring programs to include:
    a. Patient History
    b. Patient Assessment
    c. Drug Therapy Assessment
    d. Develop, Implement, and Monitor Drug Therapy Plans
    e. Pharmacotherapy Decision Making/Critical Thinking.
B. Students should review the patient database and collect data to identify, resolve, or prevent drug related problems (DRP). The student is expected to document a minimum of 10 DRPs involving prescription medications for which they intervened on the patient's behalf. The **DRP Intervention Sheet** is provided in the APPE Manual.
C. Students should provide and document a minimum of five (5) interventions regarding OTC or herbal products. Patient follow-up for intervention outcomes should be provided when possible (with the patient's consent).
D. During the rotation, a minimum of five (5) patient care SOAP notes should be written and placed in the Learning Portfolio. Patient care notes should reflect disease / medication management or prevention.
E. Provide new drug updates and answers to drug information questions that arise in the pharmacy.
F. Prepare and present a new drug update weekly (5 total) for the pharmacy staff. The update will be a 5-10 minute presentation. A handout should be prepared and provided to the audience.
G. Prepare and provide at least one (1) educational program/presentation that centers on disease prevention or wellness promotion to patients and caregivers in either the pharmacy or extended community.
H. At developing sites, implement a project or pilot a new pharmaceutical care service at the pharmacy. The plan for this project or service should include rationale, a fiscal plan, methodology for implementation, and criteria for continuous quality improvement.
I. Demonstrate the ability to perform basic dispensing-related procedures in the pharmacy:
    a. Interpret the appropriateness of a medication order/prescription before dispensing a prescription.

b. Comply with federal, state, and local laws and related regulations.
c. Make appropriate decisions in professional practice situations which may give rise to liability under civil law.
d. Follow established policies and procedures to maintain accuracy of the patient profile.

J. Participate in the management of any medical emergencies.
K. Demonstrate effective communication skills with employees, patients, and other health care providers.
L. Make ethical decisions and exhibit professional behavior.
M. Document all patient interventions and outcomes, projects and presentations in the learning portfolio.

Activities Checklist

Rotation Requirements	Minimum Expectation	Completed
Drug related problem interventions	10	
OTC drug related problem	5	
Patient care SOAP notes	5	
New drug updates	5	
Education program / presentation	1	
Other: *		

** The preceptor may list additional activities as a required component of this course.*

Additional Activities

Up to three (3) additional activities may be selected for each rotation. If core activities listed above are unable to be completed at the site then please select applicable replacement activities from the list provided below or document other applicable activities in the space provided.

- ☐ Participate in a MUE / DUE.
- ☐ Complete at least two (2) Adverse Drug Reaction (ADR) reports.
- ☐ Complete at least two (2) Occurrence Reports involving a medication error.
- ☐ Present at least one (1) journal article and prepare a written summary.
- ☐ Attend a Pharmacy and Therapeutics meeting and type a one page (double-spaced) reflective summary of the experience.
- ☐ Prepare and present at least one (1) drug monograph.
- ☐ Prepare an article for publication.
- ☐ Create and reference a therapeutic drug protocol or pathway.
- ☐ Prepare a case report (e.g. unique clinical finding, adverse drug event, drug interaction).
- ☐ Participate in the development or revision of a departmental or institutional policy.
- ☐ Create and present one (1) brochure or pamphlet for patient education (e.g. food-drug interactions).
- ☐ Complete a project assigned by the preceptor.
- ☐ Participate in blood pressure screening for at least 10 patients.
- ☐ Participate in diabetes screening for at least 10 patients.
- ☐ Participate in osteoporosis screening for at least 5 patients.
- ☐ Administer immunizations and provide appropriate patient education.
- ☐ Participate in a home visit with a home health provider and type a one page (double-spaced) reflective summary of the visit experience.
- ☐ Compound at least five (5) different non-intravenous medication preparations.
- ☐ Conduct a mock Board of Pharmacy inspection.
- ☐ Participate in a mock JCAHO pharmacy inspection and type a one page (double-spaced) reflective summary of the experience.
- ☐ Other:_____

Textbooks / Resources

The student is expected to build a personal library of text resources. The following list outlines topics of resources to be included in the personal library; the student is expected to select a specific text or reference that covers the stated topic:

- Pharmacotherapy Book/Reference
- General Drug Information Reference
- General Medicine Book/Reference
- Physical Assessment Book/Reference
- Laboratory Interpretation Book/Reference
- Pharmacokinetics Book/Reference
- Adverse Drug Reaction Book/Reference

The student is expected to be self-directed in obtaining drug literature pertinent to patient care issues. The student is expected to have Internet access in order to utilize the College of Pharmacy library resources. Students are expected to check their email and have internet access on a daily basis.

Grading and Assessment

Equivalent Rubric Score	Final Letter Grade
4.5-5.00	A
3.50-4.49	B
3.00-3.49	C
2.99 or below	F

Policies

Specific policies pertaining to all Advanced Practice Experiences are found in the ***Appalachian College of Pharmacy, Advanced Pharmacy Practice Experience Manual.*** A copy of this comprehensive manual is available on our website at www.acpharm.org under the Experiential Education section. Students are required to be at the rotation site a minimum of 40 hours/week. As a professional, the student is expected to stay beyond the usual work hours when patient care still needs to be completed.