

ROTATION DESCRIPTION

ROTATION TITLE

Drug Information (PGY2)

PURPOSE

The purpose of the longitudinal drug information rotation is to allow the PGY2 resident to develop advanced skills in the following areas: problem solving, verbal communication, medical writing, critical literature evaluation, formulary management, and Center management.

LEARNING EXPERIENCE DESCRIPTION

The MUSC Drug Information Center provides timely, unbiased answers to the professional staff's medication-related questions. Each month, the Drug Information Center answers approximately 100 questions received from nurses, physicians, pharmacists, and consumers. The scope of drug information requests received is broad and covers most patient populations, disease states, and includes many operational and policy development issues. The Center also provides an electronic, consumer-based Ask-A-Pharmacist service. The mission of the Center is to promote safe, efficacious, cost effective, and rational medication use by providing high-quality drug information services.

The PGY2 resident will be involved in the daily activities of the Residency Program Director (RPD) and/or his/her designee. This will include, but will not be limited to the activities listed in Appendix A.

LEARNING EXPERIENCE ACTIVITIES

- Participate in the daily activities with the Drug Information Service (see Appendix A)
(R1.2.1; R1.2.11; R3.1.6; R3.1.7; R3.1.8; R3.1.9; R3.2.2; R3.2.4; R3.2.5; R3.4.1; R3.4.3; R5.1.1; R5.1.2; R5.1.3; 5.2.1; E1.1.2; E2.1.1; E2.1.2; E2.1.3; E2.1.4; E2.1.5; E2.1.6; E2.1.7; E2.2.2; E2.2.3; E2.2.4)
- Respond to drug information requests and verify responses written by learners in the Center
(R1.2.1; 1.2.11; R1.5.1; R1.5.2; R3.1.6; R3.2.5; E3.1.2)
- Gain efficiency using a wide variety of tertiary, secondary, and primary resources
(R1.2.1; R1.2.10; R3.1.6)
- Prepare and present formal journal club presentations
(R1.1.1; R1.1.4; R1.2.2; R1.2.3, R1.2.4; R1.2.5; R1.2.6; R1.2.7; R1.2.8; R1.2.9; R3.1.6; R3.2.5)
- Prepare and present pharmacotherapy consult presentations
(R1.1.2; R1.1.4; R1.5.1; R3.1.6; R3.2.5)

- Write and revise newsletter articles and serve as the assistant editor for the *Pharmacy and Therapeutic Update: Drug Information for Health Care Professionals* (R1.1.2; R1.5.1; R1.5.2; R3.1.6; R3.2.5)
- Write, revise, and present formulary monographs for the Pharmacy and Therapeutics Committee (R1.1.4; R1.5.2; R2.1.2; R3.1.6; R3.2.5)
- Write, revise and present a class review for the Pharmacy and Therapeutics Committee (R1.1.4; R1.5.2; R3.1.6; R3.2.5)
- Participate in adverse event detection and surveillance by conducting chart reviews, preparing summaries of serious/preventable ADRs, and preparing/presenting the ADR report (R2.2.1; R2.2.2; R2.4.1; R3.1.6)
- Participate in mini-learning sessions by attending lectures and by preparing and presenting lectures to the learners in the Center (R1.1.4; R1.2.10; R1.5.1; R1.5.2; R3.1.6; R3.2.5)
- Participate in project(s) involving informatics (eg, smart pumps, CPOE, barcode administration scanning) (R2.2.1; R3.1.6; E1.2.1; E1.2.2; E1.2.3; E1.2.4)
- Attend meetings that are pertinent to formulary management (see Required Meetings section) (R2.1.1; R2.1.2; R2.1.4; R2.2.1; R3.4.2; R3.4.3)
- Serve as the Chair of the Informatics and Formulary Subcommittee for at least 6 months of the residency year (R2.1.1; R2.1.2; R2.1.4; R2.1.5; R2.2.1; R3.4.1; R3.4.2; R3.4.3)
- Attend meetings that are pertinent to informatics (see Required Meetings section) (R2.1.1; R2.1.2; R2.1.4; R2.2.1; R3.4.2; R3.4.3; E1.2.1; E1.2.2; E1.2.3; E1.2.4)
- Develop and coordinate a Drug Information Discussion Group regarding critical literature evaluation or other pertinent topics (R1.1.4; R1.1.5; R1.2.2; R1.2.3; R1.2.4; R3.1.6; R3.2.5)
- Participate in medication use policy development (see Appendix A) (R1.4.1; R1.4.2, R1.5.1; R1.5.4; R2.1.1; R2.1.2; R2.2.1; R2.2.4; R2.2.5; R2.3.3; R2.3.4; R2.3.5; R3.1.6; R3.1.7; R3.1.9; E1.3.1)
- Participate in activities related to formulary management (see Appendix A) (R2.1.1; R2.1.2; R2.1.5; R2.2.1; R2.2.4; R2.2.5; R2.3.3; R2.3.4; R2.3.5; R3.1.6; R3.1.7; R3.1.8; R3.1.9; R5.1.1; R5.1.2; R5.1.3; R5.2.1; E1.31)

- Become a peer reviewer for a selected pharmacy journal (eg, AJHP Annals of Pharmacotherapy)
(R1.3.3; R1.5.2; R3.1.6)
- Develop advanced medical writing skills and advanced editing skills (see Appendix A)
(R1.3.1; R1.3.2; R1.5.1; R1.5.2; R1.5.4; R3.2.5)
- Assist with updates to the online formulary
(R1.5.2; R3.1.6; R3.2.5)

REQUIREMENTS OF LEARNING EXPERIENCE

Required Hours

9:00 AM to 5:30 PM, Monday thru Friday
As patient care requires, times may vary

Required Meetings

Pharmacy and Therapeutics Committee
Pre-Pharmacy and Therapeutics Committee meeting
Informatics and Formulary Subcommittee
Medication Safety Improvement Group
Anti-infective Subcommittee
Clinical Interdisciplinary Information Committee (CIIC)
Pharmacy Information Systems Project Update meeting
MUPI Monthly meeting
Kindred PNT meeting
Department of Pharmacy Staff meetings
Biostatistics Discussion Group
AdminRx Steering Committee (and other related committees)
CPOE Steering Committee (and other related committees)
Pharmacy Management Team meetings
Pharmacy Leadership Team meetings

Required Presentations

Journal club
Pharmacotherapy consult
Book-of-the-Day
Internet-Site-of-the-Day
Mini-learning sessions (once monthly)
Biostatistics Discussion Group
Staff meeting presentations (as assigned)

Required Readings

- Journal articles chosen by other learners
- Textbooks
 - Malone et al. *Drug information: a guide for pharmacists*. 3rd edition.
 - Gelbach SH. *Interpreting the medical literature*. 5th edition
 - Lang TA and Secic M. *How to report statistics in medicine*. 2nd edition
 - Chumney ECG and Simpson K. *Methods and designs for outcomes research*.
 - Gaebelain CJ and Gleason BL. *Contemporary drug information: an evidence based approach*.
 - JAMA & Archives Journals. *AMA manual of style: a guide for authors and editors*. 10th edition
- ASHP-guidance documents on the following topics:
 - Formulary management
 - P&T Committee and Formulary System
 - Medication use policy development
 - Adverse Drug Reaction Monitoring and Reporting
 - Medication Use Evaluation
 - Preventing Medication Errors in Hospitals
 - ASHP Expert Panel on Medication Cost Management. *ASHP Guidelines on Medication Cost Management Strategies for Hospitals and Health Systems*. Am J Health-Syst Pharm. 2008; 65:1368-84
 - ASHP Expert Panel on Formulary Management. *ASHP guidelines on the pharmacy and therapeutics committee and the formulary system*. Am J Health-Syst Pharm. 2008;65(1):1272-83.
 - ASHP Section of Pharmacy Practice Managers. *ASHP Statement on the Pharmacist's Role in Informatics*

ROTATION PRECEPTOR(S)

Kelli Garrison, PharmD, BCPS

Pager – 11599

Phone – 792-4682

E-mail: garrisok@musc.edu

Jason Cooper, PharmD

Phone – 792-2238

E-mail: cooperjc@musc.edu

Chris Wisniewski, PharmD, BCPS

Phone – 792-8443

E-mail: wisniews@musc.edu

METHOD OF EVALUATION

Evaluation of residents will be based on the learning experience objectives outlined by the Residency Program Director (RPD). The RPD will identify the specific goals and objectives on which the resident will be evaluated (available in E-Value). The preceptor and resident will review the resident's customized plan and the learning experience introduction document on the

first day of rotation. Feedback will include, but not be limited to, verbal and written mid-point and end of rotation evaluations. Written evaluations for the longitudinal experience will occur quarterly with verbal feedback throughout the quarter.

APPENDIX A

PGY2 Drug Information Areas of Exposure

1. Drug information center management
 - a. Direct daily activities
 - b. Check Ask-A-Pharmacist email
 - c. Prioritize pending requests
 - d. Edit & verify completed responses
 - e. Deliver assigned mini-learning sessions, as assigned
 - i. Systematic approach to drug information
 - ii. Review of MICROMEDEX and IPA
 - iii. Literature searching (eg, PubMed, Ovid Medline, PsycINFO, CINHAL, TOXNET, IBIDS, PDQ)
 - iv. Adverse Drug Events
 - v. Medication Errors
 - vi. Critical Literature Evaluation
 - vii. Biostatistics
 - viii. Formulary Management
 - ix. Interacting with Industry
 - x. Medical Writing
2. Formulary management
 - a. Maintain online pharmacy through Formulary Productions
 - b. Develop monthly Pharmacy and Therapeutics Committee meeting agenda, as assigned
 - c. Prepare & disseminate background materials Pharmacy and Therapeutics Committee meeting

- d. Prepare & submit Pharmacy and Therapeutics Committee meeting minutes, as assigned
 - e. Assist with preparation of nonformulary report, as assigned
 - f. Attend committee meetings related to formulary management
 - i. Pharmacy and Therapeutics Committee
 - ii. Informatics and Formulary Subcommittee
 - iii. Medication Safety Improvement Group
 - iv. Anti-infective Subcommittee
 - g. Update policies/procedures related to formulary management
3. Medication use policy development
- a. Select projects for policy/guideline development
 - b. Present results at appropriate committee and/or national meetings (eg, poster)
4. Medical Writing
- a. Assistant editor for *Pharmacy and Therapeutic Update: Drug Information for Health Care Professionals*
 - b. Prepare newsletter articles
 - c. Be a peer reviewer for a pharmacy journal
 - d. Prepare at least one manuscript for submission
 - e. Assist with editing monographs and newsletters written by students on rotation
 - f. Edit and verify drug information responses written by students on rotation
5. Medication Misadventures
- a. Assist with preparation of monthly Adverse Drug Reaction report, as assigned
 - b. Participate in a Root Cause Analysis or FEMA, as needed for the organization