OHSU Pharmacy Practice Residency

Learning Experience Descriptions

In accordance with the ASHP-mandated core areas of patient care, practice management, and completion of an appropriate project, the * items are required. The patient care requirement is tailored for each resident based on their knowledge base, past experience and interests. Lengths of rotations are not fixed for most experiences.

Rotation Choices and Activities (Most rotations feature multi-disciplinary rounds and the resident may help precept a pharmacy student)

- **General Medicine**: residents join one of the 5 hospitalist led general medicine/cardiology teams and provide input on initial medication selection, dosing and monitoring plans. Clarification of patient's home medication regime and drug allergies are performed through patient interview. Drug information is provided on suspected adverse reactions, optimal therapies, and drug administration. The resident attends Grand Rounds, Noon Conference and other educational opportunities with the Gen Med team. Preceptors: Jackie Sharpe, PharmD, BCPS and clinical pharmacists.

- **General Pediatrics**: focuses on principles of pediatric dosing and verifying correct dosing calculations; therapeutic drug monitoring; infections diseases common to pediatric patients; and fielding questions concerning literature support for use and dosing of medications not commonly used in pediatric patients. Review of common childhood diseases. Preceptors: Kim Schulz, PharmD, BCPS and clinical pharmacists.

- **General Surgery**: residents monitor adult post-operative patients following a variety of surgical types, through medication profile review, post-op order verification and provide input to surgical teams on transition of care back to the primary treating team (if different). Preceptors: Bryan Brock, PharmD, and clinical pharmacists.

- **Hematology-Oncology/BMT, Adult and Pediatric**: features symptom control recommendations for pain, nausea/vomiting, bowel care and end of life care; checking, signing off, and coordinating chemotherapy orders per guidelines; therapeutic drug monitoring; review of chemotherapeutic drug, disease and herbal products; and opportunities for medical writing and clinical research. Preceptors: Joe Bubalo, PharmD, BCPS, BCOP and Erin Corella, PharmD, BCPS, BCOP (adult) and Nancy Gadd, PharmD, BCPS (pediatrics).

- **Infectious Diseases**: OHSU antimicrobial management team and joint consult service between OHSU and VA rounds on complicated patients. Empiric drug selection, streamlining of therapy based on C/S, and therapeutic drug monitoring are covered. Review and discussion of common infections and citywide infectious diseases conference insure a broad knowledge base. Preceptor: Jerusha Taylor, PharmD, BCPS

- **Informatics**: opportunities for this experience include defined automation (carousel, syringe robot, Pyxis) projects, CPOE/EPIC projects, understanding and using workload metrics, decision support for creation and management of order sets, and the supply chain inventory management system. Residents participate in weekly Pharm-IS team meetings for a global understanding of department technology issues along with integrating technology into pharmacy operations and clinical practice. Preceptors: Neil Edillo, PharmD, BCPS and John Chang, PharmD

- **Intensive Care, Adult**: experiences include daily rounds with one of two pharmacist critical care teams covering patients in the medicine, trauma, neurology, neurosurgery and cardiac intensive care areas. Residents will focus on therapeutic drug monitoring, specific disease states and devices encountered in the critical care areas, and standards of care for critically ill patients. Preceptors: Lindsey Eick, PharmD, and clinical pharmacists.

- **Intensive Care, Neonatal and Pediatric**: residents may focus on one age based area or spend time in both. Principles of dosing unique to these areas and age groups, therapeutic drug monitoring, prevention of complications associated with critical care interventions such as ventilation, sedation, and IV access are covered. Standards of care for critically ill infants and children are reviewed. Preceptors: Nicole Richardson, PharmD and Nancy Gadd, PharmD, BCPS (pediatrics) and Kim Schulz, PharmD (neonates).

- **Nutrition Support**: residents gain an understanding of both clinical and distributive aspects of nutritional support pharmacy for neonate, pediatric and adult patients. Weekly rounds with the pediatric gastrointestinal team provide experience with continuity of care decisions and long-term pediatric nutrition support. Preceptor: Joe Stewart, RPh, BCNSP

- **Research Pharmacy Services**: works with principal investigators and pharmaceutical companies to implement studies in the hospitals and clinics, compounds specialty products for active treatment or
placebos, establishes dispensing and record keeping policies and procedures, and attends IRB and cancer review board. Preceptor: Jennifer Petrolati, PharmD

- **Oregon Poison Center**: follow-up calls and triaging initial calls from the regional poison center telephone line are performed under the supervision of poison center nursing staff. Community poison prevention education, participation in multidisciplinary teaching rounds and journal club highlight the resident’s role as an information provider. Clinical support and pharmacist precepting for the resident is provided through the Drug Information Service. Preceptor: Sandy Giffin, RN and Kate Farthing, PharmD, BCPS

- **Solid Organ Transplantation**: resident has substantial patient contact through admission interviews, coordination of discharge medicines, and intensive self-medication teaching. Opportunities for medical writing and clinical research. Review of common transplant protocols and management of rejection and opportunistic infections. Preceptor: Jessica Steffl, PharmD, BCPS and clinical preceptors.

**Longitudinal Experiences and Activities**

- **Citywide Residency Conferences**: meeting generally every two weeks, this forum for all of the residencies in the state and SW Washington offers a journal club, case presentations, major project assistance, and discussions lead by the preceptors on topics such as career planning, personnel management and technology. Social events are also included.

- **Drug Information/Drug Policy**: health care provider generated questions primarily focusing on therapeutic use, adverse drug reactions, and pharmacokinetics are answered utilizing state of the art electronic and paper references through the Drug Information Service and the on-site medical library. P and T monographs and publications, drug utilization evaluations, medication use guideline development and implementation, and educational materials are prepared as longitudinal drug policy projects. Preceptors: Rebecca Lines, PharmD, BCPS and Lisa Perry, PharmD

- **Ambulatory Clinic**: residents select two longitudinal clinic experiences for the year, with options in geriatric or chronic illness/diabetes care clinics. Medication regimen review, medication history taking, counseling and drug information are the chief duties of the resident. Preceptors: Kristy Butler, PharmD, BCPS (OHSU campus based geriatric and chronic illness/diabetes care clinics), Devon Flynn, PharmD (HIV Clinic), Sarah Adams, PharmD (Rheumatology Clinic), Josh Wiegel, PharmD (Hepatitis C Clinic) and Sumathi Devarjaran, MD (Family Medicine geriatric clinic).

- **Major Project**: the resident chooses a project focusing on an aspect of clinical or administrative pharmacy practice. Substantial guidance and support is provided by a project preceptor with experience in the area of the resident’s project. Most projects require IRB review and take 6-8 months to conduct. Publication of the project is encouraged but not required. Preceptor: chosen by director and resident

- **Practice Management/Pharmacy Administration**: extensive contact time with the Pharmacy Leadership Team working on projects concerning CQI processes, routine and strategic planning, new service proposals, and redesigning systems to best utilize available resources in compliance with legal and regulatory requirements. Features a unique longitudinal focused experience in medication error prevention, reporting and detection. Preceptors: Pharmacy Leadership Team (assistant directors, operations managers and the Director of Pharmacy)

- **Staffing**: four shifts per month the resident provides patient care including identifying and resolving drug therapy problems for medicine, surgery and subspecialty patients at the time of CPOE entry verification, unit dose and Pyxis Profile distribution of medications, checking of sterile products and provision of drug information. During the decentralized portion of the shift, pharmacists focus on therapeutic drug monitoring, patient interview and teaching, and investigating drug problems that need resolution. Residents may also train to cover the non-distributive weekend clinical specialist shift. Preceptor: Erin Corella, PharmD, BCPS, BCOP

Experiences outside of OHSU may also be scheduled. Through the Citywide Residency Conference group, programs exchange learning experiences for their residents with other sites.