VA Puget Sound Health Care System
PGY-1 Pharmacy Residency Program

Accredited by the American Society of Health-System Pharmacists since 1976
Philosophy

The VA Pharmacy provides pharmaceutical care services in a tertiary care, teaching and research affiliated medical center on two campuses, Seattle and Tacoma. The residency training program prepares pharmacists to face the challenges of contemporary pharmaceutical care. The residency centers on a broad, in-depth experience with emphasis on evidence-based drug therapy and the development of advanced pharmaceutical care practice skills. The program prepares pharmacists to provide the highest quality care in today's challenging health care environment.

Program Description

The VA Puget Sound Health Care System (VA Puget Sound) residency in pharmacy practice is a one-year postgraduate training program (PGY-1). It is accredited by the American Society of Health-System Pharmacists (ASHP) and follows training objectives outlined in the accreditation standard.

The purpose of the VA Puget Sound Healthcare System PGY-1 pharmacy residency program is to prepare residents to be fully functional at the Department of Veterans Affairs Clinical Pharmacist qualification standards upon successful completion of the program. Residents will competently provide patient-specific pharmaceutical care in the ambulatory, inpatient, and administrative settings, ensuring patient safety, efficacy and minimizing pharmaceutical cost to the patient and organization.

In order to gain inpatient distribution experience, residents will provide periodic weekend staffing, approximately 12 weekend throughout the residency year. Three of these weekends are considered training weekends and the rest will be paid staffing once Dual Appointment is obtained. All clinical and distributive functions of a staff pharmacist will be performed during this time, including IV medication preparation and clinical services. A research project is required, and each resident will present their project at the ASHP Midyear Clinical Meeting and at the Western States Conference for Pharmacy Residents, Fellows, and Preceptors in San Diego, California. Appropriate resources are provided to guide the resident through the process of developing, executing and presenting a research project.

About the Medical Center

The VA Puget Sound Health Care System is a 421-bed acute care center that provides tertiary care for veterans in Western Washington. Services are also provided to veterans upon referral from Alaska, Eastern Washington and Northern Idaho. The VA is affiliated with the University Of Washington School Of Medicine and has 37 allied health training programs (including pharmacy, nursing, psychology, and various other disciplines). Inpatient and outpatient clinical services include medicine, dialysis, surgery, neurology, substance abuse, rehabilitation medicine, gerontology, spinal cord injury, bone marrow transplant, women's care, and psychiatry. The VAPSHCS receives $38 million in research for biomedical, gerontological, rehabilitation, and health systems research.

Benefits

The stipend and benefits are determined annually on a national basis by the VA and are adjusted per location. Each resident accrues 4 hours of vacation and sick leave each pay period (every two weeks). Additionally, each resident is eligible for 10 paid holidays, medical, and life insurance. All residents are provided administrative leave to attend educational conferences including the ASHP Midyear Clinical Meeting and the Western States Conference for Pharmacy Residents, Fellows, and Preceptors.
Qualifications

All residency candidates must meet the following prerequisites:

- United States Citizenship
- Bachelor or Doctor of Pharmacy with eventual licensure in any state
- A minimum GPA of 3.0
- A personal, on-site interview
- Participation in the ASHP residency matching program

How to Apply

Interested candidates may apply through the PhORCAS (Pharmacy Online Residency Centralized Application Service) application portal. Standard application materials include:

1) Basic demographics
2) Verified transcripts (pharmacy school ONLY)
3) Letter of intent and curriculum vitae
4) Submission of three letters of recommendation from preceptors and university/college faculty as required through PhORCAS.
5) Extracurricular information
6) Supplemental information
   a. A completed Application for Associated Health Occupations (VA Form 10-2850c)

Deadline for application to the VA residency is January 4th, 2017. The resident must participate in the American Society of Health-System Pharmacists (ASHP) residency matching program.

Please note: This residency site agrees that no person at this site will solicit, accept, or use any ranking-related information from any residency applicant.

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For information, please contact the Residency Coordinator:
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Overview of Rotations

Residency Training Schedule

The residency is a one-year program beginning Monday July 3rd, 2017. It is a full-time obligation with a minimum of 2,000 hours completed over a period of 50-52 weeks. The resident's schedule will be designed according to the resident's individual interests, background and education, as well as the needs of the institution. Residents become competent in each activity by meeting set goals and objectives and are monitored throughout the program.

Four week clinical rotations in addition to longitudinal clinic rotations provide experience and the opportunity to develop competence in four major areas of pharmacy practice including: acute patient care, ambulatory patient care, drug information, and pharmacy management. The resident schedule will consist of six scheduled clinical rotations, four elective rotations, one (five month) longitudinal clinic in management, and one elective (five month) longitudinal clinic rotation. The resident can opt to choose two elective longitudinal rotations if they are able to complete practice management goals and objectives outside of scheduled rotations.

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Acute Inpatient Care

Acute patient care pharmacy services are aimed at optimizing drug therapy. The resident will gain an appreciation for formulary management while learning to incorporate evidence-based medical practices. The resident will have the opportunity to provide pharmacy services to various inpatient teams and providers by evaluating patient drug regimens and making appropriate interventions.

Inpatient activities include:

- Consultation in drug therapy selection
- Discharge counseling
- Drug information
- Formulary management
- Monitoring drug therapy
- Nutrition support
- Patient education and counseling
- Patient medication reconciliation
- Precepting pharmacy students
Ambulatory Patient Care

Ambulatory patient care pharmacy services provide primary and specialized health care to veterans. The resident will be involved in direct patient care and disease state management in collaboration with multidisciplinary teams.

**Ambulatory activities include:**

- Disease state management of various chronic conditions
- Drug information requests
- Formulary management
- Monitoring safety and efficacy of drug therapy
- Participating in physical assessment and patient triage
- Patient counseling
- Providing drug information to healthcare professionals
- Reviewing patient profiles for drug interactions, therapeutic duplications, or contraindications

Pharmacy Practice Management – Longitudinal

The management longitudinal rotation prepares the resident to perform pharmacy practice management in formulary management and/or ambulatory care pharmacy services and allows the initiation and completion of important long term pharmacy administrative projects. The resident will attain a well-rounded knowledge base of pharmacy practice management activities with a focus on project management and implementation. Residents will work with pharmacy managers and staff to gather information, develop solutions, and present plans.

**Activities in this area include:**

- Administrative projects
- Continuous quality improvement sessions
- Formulary / budget reviews and recommendations
- Interdepartmental projects and correspondence
- Management of controlled substances
- Drug Information and Drug Use Policy Development
- ISMP report for PN&T committee
- Adverse drug reaction reporting
- Drug information
- Formulary management
- Formulary monographs and drug reviews
- Medication error reporting
- Pharmacy Drug Bulletin Newsletter
- Staff presentations
- Medication Use Evaluation Project
Rotation Descriptions

Scheduled Rotations

**PRIMARY CARE CLINIC – SEATTLE (4 weeks)**

The Primary Care Clinic (PCC) rotation provides the resident with the skills to perform the responsibilities of a Primary Care Clinical Pharmacy Specialist. The resident attains a well-rounded knowledge base of primary care disease states and therapy guidelines. Residents function independently in counseling patients on medication therapy (primarily involving diabetes, hypertension and dyslipidemia) upon completion of this rotation. The resident develops the skills to conduct a pharmacy clinic visit that ensures safety and efficacy of medication therapy. The resident works directly with providers, nursing staff and other team members to gain written and verbal communication skills to function as a patient-provider liaison.

**MEDICAL CENTER OF EXCELLENCE IN PRIMARY CARE EDUCATION (4 weeks)**

The VA Puget Sound, Seattle Division has been selected to participate in the VA Center of Excellence in Primary Care Education, whose mission is to promote the advanced education of interprofessional teams, thereby creating clinical leaders able to deliver patient centered care, transform delivery of health care services, and improve health outcomes. Pharmacy residents will actively partake in this new and highly innovative program with dedicated pharmacy preceptors in providing hands on didactic education and pharmacy consultation for medical residents and nurse practitioner students enrolled in this curriculum. Pharmacy residents participate in weekly collaborative practice care plans with as well as monthly in panel management. Future plans are in place for additional pharmacy involvement in disease state management duties and responsibilities.

**GENERAL INTERNAL MEDICINE (4 weeks)**

The resident will participate with a general medicine team in daily activities which include work rounds and attending rounds. The resident will monitor drug therapy and outcomes, provide drug information to the medical team, and provide patient/family education and medication counseling. The resident will be involved with warfarin and vancomycin monitoring as well as formulary management. The purpose of this general medicine rotation is to provide exposure and education in the care of patients requiring acute inpatient hospitalizations. The rotation will be focusing on understanding pharmacotherapy and using evidence-based literature to develop therapeutic regimens.

**SURGICAL INTENSIVE CARE UNIT/SICU (4 weeks)**

The overall purpose of the SICU rotation is to allow the resident to gain experience in some aspects of critical care medicine relative to surgery. Emphasis will be placed on evidence-based critical care concepts and pharmacotherapy while assuming responsibility for medication therapy outcomes. This will allow the resident to assert an active role as the pharmacist on the multidisciplinary team through development, assessment, and ongoing monitoring of medication therapy. Resident will be involved in the daily activities and direct care involved in peri-operative management of patients in the SICU and step-down unit. The resident will work in collaboration with other health care providers (physicians, ARNPs, PA-Cs, nurses, nutritionists, and respiratory therapists) to understand, develop, and monitor a therapeutic plan daily. This rotation is designed to provide an intense focus on critical care, including pathophysiology and disease/medication management. Brochure
ONCOLOGY CLINIC (4 weeks)
The resident will participate in daily activities in the care and management of patients receiving treatment for a variety of oncologic disorders including solid tumors, lymphomas and leukemias. This rotation includes provision of care in both inpatient and outpatient settings. Focus will be on understanding of therapies for treatment and management of the side effects of these therapies as well as management of symptoms related to disease. At the end of this rotation, the resident will have developed practice skills in medication review, appropriate laboratory monitoring, and implementation of treatment plans while working as a pharmacist in a team-based multidisciplinary cancer care clinic.

BONE MARROW TRANSPLANT UNIT (4 weeks)
The resident provides direct patient care to Marrow Transplant Unit (MTU) patients in collaboration with the multidisciplinary team. Responsibilities include attending interdisciplinary rounds, TPN management, making recommendations to optimize drug therapy (immunosuppression, infection prophylaxis, etc.) throughout the transplant process, and counseling opportunities. The resident also acts as a preceptor to fourth year pharmacy students. Precepting responsibilities include facilitating topic discussions and helping students prepare for their presentations. The resident also presents one in-service to the MTU staff. Other learning opportunities include attending meetings and lectures on the MTU as time allows. The resident may also observe procedures, including bone marrow biopsies and lumbar punctures.

MEDICAL INTENSIVE CARE UNIT (MICU 4 weeks)
The goal of this clinical experience is to provide the pharmacy resident with unique opportunities to develop, manage, and optimize pharmacotherapeutic plans in the context of complicated and challenging patients who require an elevated level of medical care. These experiences are intended to form a framework for gaining insight into the realm of critical care medicine that may serve as the foundation for future career opportunities within this clinical specialty. Emphasis will be placed on evidence-based critical care concepts and pharmacotherapy while assuming responsibility for medication therapy outcomes. The resident will serve an active role on the multidisciplinary team, including presence on daily rounds. This will necessitate professional collaboration with other health care providers to ensure that pharmacotherapy is optimized for the patient’s specific needs. Other valuable opportunities on this rotation will include education of medical, pharmacy, and nursing staff on particular topics pertinent to pathophysiology and disease state/medication management in the MICU.

Elective Rotations

PRIMARY CARE CLINIC - AMERICAN LAKE (4 weeks)
The American Lake Ambulatory Care rotation allows the resident to gain experience working in both Women's Clinic and Geriatric Clinic primary care multidisciplinary teams in a rural area south of Tacoma. The resident will work directly with patients as well as with providers, nursing staff, and other team members to provide optimal health care to veterans. Responsibilities include performing disease state management (primarily hypertension, diabetes and hyperlipidemia), counseling patients on new medications, and serving as a drug information resource for team members and patients. There will also be opportunities to teach group classes (anticoagulation, diabetes, weight management) and participate in other specialty clinics at the site (Mental Health, Addiction Treatment Clinic, Hematology Clinic, and Clozapine Clinic).
SPINAL CORD INJURY UNIT (4 weeks)
The resident will participate in daily patient care activities in collaboration with SCI providers which includes ward, bowel care, and wound rounds. The resident will attend the comprehensive medication review rounds (Rx/SCI rounds) with the pharmacy preceptor and SCI providers weekly, provide medication formulary management, participate in disease management, is a resource for SCI providers for drug information related questions, and provide patient and family medication education and counseling.

HOME-BASED PRIMARY CARE (4 Weeks)
Residents will function as a provider extender and patient-provider liaison. There will be opportunities to develop skills to conduct pharmacy home visits and collaborate with nurse practitioners, psychologists, dietitians and various other disciplines to ensure safety and efficacy of medication therapy. Residents will attain a well-rounded knowledge base of primary care disease states and therapy guidelines and will function independently in providing teaching to nursing staff regarding medication therapy in older adults. The resident will also have the opportunity to attend and participate in weekly HBPC Interdisciplinary Team Meetings.

ANTIMICROBIAL STEWARDSHIP (4 Weeks)
The Infectious Disease rotation is a learning experience directed at providing care for patients with acute infectious disease processes while practicing antimicrobial stewardship. Residents participate in all aspects of multi-disciplinary care as part of the Infectious Disease (ID) Consult Service and VA Puget Sound Antimicrobial Stewardship Program (ASP). The ID Service is a consulting specialty service, which consists of infectious diseases attending physicians and fellows, medical residents, and the antimicrobial stewardship pharmacist. The Antimicrobial Stewardship program consists of a pharmacist and ID physician. Pharmacy residents will have the opportunity to independently contribute to a stewardship effort; conduct a formal journal club or infectious disease topic presentation, and complete a comprehensive, written patient specific pharmaceutical care plan as identified by the preceptor.

MENTAL HEALTH CLINIC (4 weeks)
The resident will be involved in daily activities and direct patient care in the outpatient mental health clinic in collaboration with clinic providers. Resident will be greatly involved in assisting with direct patient care through counseling, psychiatric assessment, disease state management, and as a resource for mental health providers for drug information. Resident also will have opportunities to participate in morning rounds with attending inpatient psychiatry physicians and residents in the inpatient psychiatric unit.

Longitudinal Clinic Rotations

RHEUMATOLOGY CLINIC
The arthritis pharmacy collaborative care clinic receives referrals from rheumatology providers to manage and monitor patient’s rheumatology conditions to attain goals of therapy. The referrals may involve gout disease state management (medication initiation, titration, laboratory monitoring and adherence to therapy) and rheumatology medication laboratory monitoring. The resident will become proficient in conducting patient clinic visit, proposing and implementing treatment plan. Preceptor will provide feedback on proposed treatment plan and consensus to implement. In addition, resident will provide pharmacy consultation, patient counseling and prescription processing.
CARDIOLOGY CLINIC
Residents are involved in direct patient care activities related to cardiac disease state management in collaboration with cardiology providers. Residents develop the necessary skills and knowledge base to provide pharmacologic management for conditions, including but not limited to post-ACS/MI, HTN, dyslipidemia, and heart failure. Residents assess medication adherence/tolerance, labs and physical assessments, disease progression, and social history to determine changes in regimen to attain treatment goals while ensuring patient safety. In addition, residents will be involved in medication use evaluations and will serve as a valuable drug therapy resource for cardiology providers. Topic discussions or formal case presentations occur weekly with a focus on the standards of practice as outlined by the American Heart Association (AHA) and American Association of Cardiology (AAC).

GERI PACT CLINIC
Residents are involved in direct patient care activities as an integral part of the interdisciplinary geriatric team in the Primary Care Clinic. These activities include medication review/reconciliation to assess for polypharmacy, ADRs, and adherence, disease state management, physical assessment, team huddles, patient counseling as well as serving as a drug resource to geriatric providers. The resident will also have the opportunity to lead an educational “Falls Group Session” focusing on high-risk medications and work alongside an interdisciplinary “falls team” to help reduce falls and increase self-confidence as part of a pilot program at the Puget Sound VA. Topic discussions will focus on disease states frequently encountered in the geriatric population and residents will also develop teaching skills by presenting on geriatric drug-related topics to medical residents, fellows and students.

HEPATOLOGY CLINIC
With the recent advances and increasing complexity in pharmacological management of patients with chronic hepatitis C virus infection (HCV), there is a new opportunity for resident involvement in the care of these patients within a longitudinal clinic setting. Residents are involved in patient care including counseling opportunities, limited physical assessment, disease state management, safety and efficacy monitoring, drug-drug interaction management, and serving as a resource for hepatology providers for drug information related questions. Other activities include a weekly discussion of a medical topic relating to hepatology or formal case presentations.

NEPHROLOGY CLINIC
The resident attains a well-rounded, working knowledge base of chronic kidney disease (CKD), diabetic nephropathy, renal artery stenosis (RAS), and other commonly encountered diseases affecting the kidneys. The resident works closely with the renal pharmacist preceptor and renal providers to provide evidence-based drug therapy recommendations accompanied by appropriate safety and efficacy monitoring, follow-up, and documentation. This rotation also provides extensive experience in triaging acute patient issues and managing refractory hypertension, volume overload, or electrolyte abnormalities in complex patients with multiple co-morbidities.

WOMEN'S HEALTH CLINIC
Residents will be involved in daily activities in collaboration with primary care providers with a focus in women’s health. Direct patient care activities include conducting patient interviews, documentation, physical assessment, counseling opportunities, medication reconciliation, and serving as a liaison and resource to primary care providers. The resident will also have opportunities to participate in the Women’s Clinical Care conference with WHC nursing staff/providers/gynecologist.
ORAL CHEMOTHERAPY CLINIC
With the growing number of oral chemotherapy agents on the market, there is an opportunity for pharmacists to play a key role in assessing their efficacy and safety among oncology patients. Resident responsibilities include conducting patient interviews, providing patient counseling, monitoring lab results, adverse drug reactions, drug-drug interactions, compliance and tolerance for various oral chemotherapy drugs. Additionally, residents are responsible for proper documentation via chart notes and directly communicating with hematology/oncology providers when necessary. The resident attains a well-rounded knowledge base for supportive pharmacological management of oral chemotherapy agents.

Frequently Asked Questions

1. **How many pharmacy residents train at VA Puget Sound each year?**

VA Puget Sound currently has seven positions in our PGY-1 Pharmacy Residency Program. Residents share a centralized office with individual work spaces and interact with each other on a daily basis.

2. **How do I apply for a residency position at VA Puget Sound?**

Residents are selected through the Residency Matching Program. This is administered through the American Society of Health-System Pharmacists (ASHP). Visit the ASHP web site at: [http://www.ASHP.org](http://www.ASHP.org), select the link to “Residency and Accreditation Information,” and then select the link for “PhORCAS” for more details about applying for a residency.

3. **How much staffing is required of the residents?**

The pharmacy residents are required to staff approximately twelve weekends throughout the course of the residency year. Three weekends will be considered training and the rest will be completed once Dual Appointment is obtained. This is designed to meet the staffing experience requirement for accredited Pharmacy Practice Residencies. During this staffing experience the resident will review and verify medication orders and perform clinical pharmacy monitoring functions.

4. **What types of elective rotations are available?**

Pharmacy residents have 16 weeks of elective opportunities during the residency year. These electives may include (but are not limited to) spinal cord injury, home based primary care, primary care clinic (American Lake), antimicrobial stewardship, mental health, or creation of one’s own elective. The elective time is used to tailor specific interests of the resident within the training program.

5. **How is the performance of pharmacy residents evaluated?**

Residents are evaluated by preceptors on every rotation through PharmAcademic. The evaluations are based on the ASHP Residency Learning System. Specific goals and objectives must be met for each of the rotations.

6. **What types of health benefits are available to pharmacy residents?**

Residents are eligible for the same medical, dental, vision, and life insurance plans that are offered to full time employees of VA Puget Sound. These include a wide range of HMO (Health Maintenance Organization) and PPO (Preferred Provider Organization) health plans.
7. Do pharmacy residents go to educational meetings?

Residents are expected to attend the ASHP Midyear Clinical Meeting in December and the Western States Conference for Pharmacy Residents, Fellows, and Preceptors in May. If funds are available, registration to the Midyear Clinical Meeting or Western States Conference may be funded, otherwise it is the responsibility of the resident.

8. Do I need a Washington Pharmacist license to be a pharmacy resident at VA Puget Sound?

Residents are required to have a state pharmacist license in order to fulfill their duties as a pharmacy resident. However, the license can be from any state in the USA. Residents are advised to gain licensure prior to starting the residency program if possible to ensure timely approval of dual appointment.

9. Do I need to be a U.S. citizen to be a resident at VA Puget Sound?

Yes. According to federal law, you must be a citizen of the United States of America in order to be employed as a pharmacy resident at VA Puget Sound.

10. What type of computer and electronic resources are available at VA Puget Sound?

VA Puget Sound utilizes an electronic medical record. Each pharmacy resident has their own dedicated work office desk and computer terminal. Residents have access to a wide variety of Windows-based programs and drug information resources. Additional media devices are available for temporary use on request.

11. What types of medical references are available?

VA Puget Sound has access to a large number of electronic and paper drug information and therapeutics references. Electronic Drug references include but are not limited to UpToDate, Micromedex, Sanford Guide, PubMed, and Natural Medicines Comprehensive Database. Residents also have access to the library, which carries medical text books and maintains subscriptions to various medical journals. Residents also have access to the University of Washington library and electronic database through the clinical appointment.

12. What jobs have former residents taken after completing a pharmacy residency at VA Puget Sound?

The primary objective of the residency training program is to prepare pharmacists to take a role in multiple practice settings and provide patient care that maximizes a pharmacists abilities as an independent provider. Former residents have taken a wide variety of positions in several practice settings, both inpatient and ambulatory care. Several past residents have stayed with the VA Puget Sound. In fact, the majority of preceptors are previous VA Puget Sound residents. Several have entered into PGY2 residencies or fellowships in a wide area of specialties, such as oncology, pain and palliative care, administration, and ambulatory care. Other careers that past residents have pursued are academia, management, and program development.

13. What is there to do in the Pacific Northwest?

Seattle is the perfect mixture of outdoor and urban living, nestled in the Puget Sound (pyoʊˈoʊjɪt ˈsɔʊnd), an inlet of the Pacific Ocean, and surrounded by the Cascade and Olympic mountain ranges, activities are only limited by your imagination. Outdoor activities include hiking, camping, kayaking, boating, rock climbing, biking, skiing, whale watching, and so much more. Although nicknamed the Emerald City for the surrounding greenery, shades of green do flow through the veins of Seattle’s dedicated professional football, baseball and soccer fans. If sporting events are not your cup of tea (or coffee), within Seattle you can find a plethora of local breweries, wineries, dive bars, and world class restaurants, not to mention the original Starbucks coffee shop. Additionally, you will find historic communities, music/art festivals and a legacy of Native American culture throughout the region. If this large metropolitan city isn’t enough, Seattle is within three hours of three famous national parks (Mt. Rainer, North Cascades and Olympic) as well as Portland, OR and Vancouver, BC.