VA Northern California Health Care System
Pharmacy Residency Programs

Sacramento VA Medical Center; Mather, CA

VA Martinez Outpatient Clinic; Martinez, CA
2017 Residency Showcase Information

- CSHP Seminar 2017
  - Las Vegas, NV
  - Friday, October 27 (2:00 —5:00 PM) and Saturday, October 28 (8:00—11:00 AM)
  - Booth 412

- ASHP Midyear 2017
  - Orlando, FL
  - Monday, December 12 (1:00—4:00 PM)
  - Booth 6027

- Open House 2017
  - Sacramento VA Medical Center
  - Friday, December 15 (1:00—3:00 PM)
  - 2018 PGY1 and PGY2 Applicants Only
  - Please RSVP to:
    richard.martinez2@va.gov
VANCHCS is an integrated health care delivery system, offering a comprehensive array of medical, surgical, rehabilitative, mental health and extended care to veterans in Northern California. The health system is comprised of a 66 bed medical center in Sacramento; a rehabilitation and extended care facility in Martinez, and seven outpatient clinics. The outpatient clinics are located in Oakland, Mare Island, Fairfield, McClellan (Sacramento area), Yuba City, Chico, Redding and Yreka (Rural Health Clinic).

VANCHCS has two divisions, each with an Associate Director. The Sacramento Valley Division is comprised of medical facilities in Sacramento, Chico and Redding. The East Bay Division is comprised of medical facilities in Fairfield, Vallejo, Martinez and Oakland. VANCHCS serves an area covering 17 counties, more than 40,000 square miles and over 377,700 veterans.

As part of the VA Sierra Pacific Network (VISN 21), VANCHCS provides veterans access to an extensive range of health and specialty services. VISN 21 includes VA medical centers in San Francisco, Palo Alto and Fresno, California; Reno, Nevada, and medical facilities in Hawaii, Guam and Manila.

VANCHCS Mission

Our mission is to provide comprehensive health care services to Veteran patients in a compassionate, high quality, and cost effective manner. We are committed to achieving customer satisfaction by meeting or exceeding the needs of our patients and staff.
VA Northern California Health Care System
Pharmacy Service

VANCHCS Pharmacy Service

The pharmacy service has nearly 70 pharmacists, 4 PGY1 pharmacy residents (3 with a focus in ambulatory care and 1 with a focus in applied pharmacoeconomics) and 1 PGY2 pharmacy resident (psychiatric pharmacy). The Pharmacy Service has formal affiliations with several schools of pharmacy for advanced pharmacy practice experiences (APPEs). Computerized provider order entry is utilized in all settings and bar code recognition technology is in place for verification and documentation of medication administration. The Pharmacy Service has implemented automated technology for many of its dispensing activities. The Inpatient Pharmacy provides 24-hour, hospital-wide unit dose and intravenous admixture services. Pharmacists are assigned to clinical duties in acute care, extended care, primary care, and several other specialty care areas (e.g. mental health, academic detailing). Clinical services include medication reconciliation, patient monitoring, medication management, discharge counseling, drug information, patient education, pharmacokinetics, drug usage evaluations and adverse drug event reporting.

VANCHCS Pharmacy Service Philosophy and Mission Statement

The Pharmacy Service commits to provide high quality primary and acute patient care services, education, and research through pharmacist, technician, trainee, and office personnel expertise and skills.

Shared responsibility for patient care outcomes results in interdisciplinary teams including pharmacists that provide inpatient and outpatient pharmaceutical care.

Pharmaceutical care involves the identification, resolution, and prevention of drug-related problems affecting patient-care outcomes, and encompasses the total spectrum of patient care, education and research.

The Pharmacy Service offers an effective drug use control system, in order to support pharmaceutical care by pharmacists in clinically oriented activities of patient compliance, telephone medicine advice, and pharmacoeconomics.

The system for drug use control includes:

1. patient-specific drug distribution and administration logistics,
2. participation in educational and therapeutic decisions supporting rational pharmacotherapy,
3. consistent drug use monitoring and surveillance documenting and ensuring quality drug therapy outcomes.

Attuned to changing trends in healthcare, the Pharmacy Service adapts pharmaceutical care to the veteran patient populations’ needs by observing and surpassing the most up-to-date standards of practice. To accomplish this, the Pharmacy Service fosters continual staff growth by developing patient education, clinical pharmacology, research, and academic skills.
Pharmacy Residency Programs

<table>
<thead>
<tr>
<th>Program</th>
<th>Residents</th>
<th>Established</th>
<th>Accreditation</th>
</tr>
</thead>
<tbody>
<tr>
<td>PGY1 Pharmacy — Ambulatory Care Focus</td>
<td>3</td>
<td>1980</td>
<td>ASHP</td>
</tr>
<tr>
<td>PGY1 Pharmacy — Applied Pharmacoeconomics Focus</td>
<td>1</td>
<td>2008</td>
<td>ASHP</td>
</tr>
<tr>
<td>PGY2 Psychiatric Pharmacy</td>
<td>1</td>
<td>2015</td>
<td>ASHP</td>
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Julio Lopez, Pharm.D.
Chief, Pharmacy Service
julio.lopez@va.gov

Richard M. Martinez, Pharm.D.
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Christine Johnston, Pharm.D., BCPP
PGY2 Psych Residency Program Director
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916-843-9357
Applicant Qualifications and Process

APPLICANT QUALIFICATIONS

• Register with the National Matching Service (NMS).
• Possess United States citizenship.
• Possess a Doctor of Pharmacy degree from an accredited School or College of Pharmacy.
• PGY1 applicants must be eligible for licensure to practice pharmacy in any state at the beginning of their residency program.
• PGY1 applicants must submit a separate application in PhORCAS to each focus in which they wish to apply.
• PGY2 applicants must have completed or be in the process of completing an ASHP accredited PGY1 residency or have equivalent experience. PGY2 applicants must also hold current pharmacist licensure in a State of the United States.

APPLICATION PROCESS

• All application materials must be submitted through PhORCAS
  • Phase 1 Deadline for PGY1 Program is: January 2, 2018
  • Phase 1 Deadline for PGY2 Program is: January 12, 2018
  • Phase 2 Deadline for ALL open Programs is: March 28, 2018
• Submitted materials must include:
  • Official transcripts from School/College of Pharmacy (sent directly to PhORCAS from your School)
    ♦ PGY2 Applicants: Transcript must be official and indicate Pharm.D. degree was conferred.
  • Personal Statement/Letter of Intent
    ♦ PGY1 Applicants: include your short-term and long-term professional goals, describe how our residency program will assist you in accomplishing your goals.
  • Curriculum Vitae
    ♦ All applicants: Include details of rotation activities for in progress, completed and to-be completed rotations. Include duration spent on each rotation. Also, include details of extracurricular activities.
  • Three letters of recommendation using the standardized reference template in PhORCAS
    ♦ PGY1 Applicants: at least one letter writer should be a preceptor of a direct patient care APPE (preferably inpatient internal medicine or ambulatory care)
  • Supplemental information (submitted through PhORCAS)
    ♦ All applicants: Application for Health Professions Trainees (VA Form #10-2850D) accessible at http://www.va.gov/oaa/archive/vaform10-2850d.pdf.
    ♦ PGY1 applicants: Application Cover Sheet, accessible on our residency website.
    ♦ PGY2 applicants: Copy of pharmacist license.
• Selected applicants will be invited to an on-site interview occurring in February. An on-site interview is required. Candidates who are not invited for an on-site interview will be notified by e-mail no later than: January 26, 2018.
General Residency Information

Pay and Benefits

- Period of Appointment
  - PGY1: 12 months, from July 1, 2018 through June 30, 2019
  - PGY2: 12 months, from July 10, 2018 through July 8, 2019

- Estimated Stipend: $44,903 (PGY1) $52,709 (PGY2)

Benefits

- 13 days of Annual Leave (“vacation”) and 13 days of Sick Leave
  - Sick Leave is earned at the rate of 4 hours every two weeks and can be used for illness and injury as well as medical, dental, optical and other medically-related appointments or procedures
- 11 federal holidays
- Authorized Absence to attend selected professional meetings
- Health, life, vision/dental insurance options

Pharmacist Licensure

- **PGY1**: Residents are expected to possess full, current, and unrestricted licensure to practice pharmacy in a State, Territory, or Commonwealth of the United States, or the District of Columbia by October 1 (90 days) following the commencement of the residency program. At the start of the residency year, the RPD will meet with each resident to determine his or her licensure status and timeline for completion. A copy of all pharmacist licenses will be obtained and kept on file by the Pharmacy Service. Residents needing to re-take board exams should work with state and national boards of pharmacy to ensure a re-take date as soon as possible. If the resident is unsuccessful in obtaining licensure by October 1st, input will be sought by the Residency Advisory Committee regarding disciplinary action. Disciplinary action may include extension of the residency year or dismissal from the program.

- **PGY2**: Current licensure in at least one of the United States is required at the time of application to the residency program. Therefore, all PGY2 residents are expected to be licensed prior to the start of the residency experience and will furnish VANCHCS with a copy of licensure. The residency experience is directly related to the status of licensure. Without licensure, skill building will be minimized leading to a less than optimal residency experience. Please note that out-of-state residents are welcome to pursue licensure in California, but it is not a requirement for working at VANCHCS. The only requirement is that the resident be licensed in at least one state of choice.
PGY1 Program Overview

Program Purpose
PGY1 pharmacy residency programs build on Doctor of Pharmacy (Pharm.D.) education and outcomes to contribute to the development of clinical pharmacists responsible for medication-related care of patients with a wide range of conditions, eligible for board certification, and eligible for postgraduate year two (PGY2) pharmacy residency training.

Choosing a focus
Our program offers four PGY1 pharmacy residency positions with two unique focuses (ambulatory care and applied pharmacoeconomics). All residents completing the PGY1 pharmacy residency program, regardless of focus, will complete the same required (“core”) learning experiences, as outlined on page 9. Residents choosing to focus in ambulatory care will have additional opportunities, through electives, to spend time in outpatient clinics. The resident choosing to focus in applied pharmacoeconomics will spend additional time in the population/formulary management arena. Applicants can choose to apply to all PGY1 programs or just one.

Although residents are primarily located in either Sacramento, CA or Martinez, CA, rotations are completed throughout the health care system. For example, all residents will complete the Acute Care/Internal Medicine rotation at the Sacramento VA Medical Center. Residents based in Martinez are required to complete this rotation in Sacramento, CA. The distance between Sacramento and Martinez is approximately 63 miles.

Applied Pharmacoeconomics Focus
This focus builds a strong clinical background into an ability to manage entire populations to meet a specific goal or target. The pharmacoeconomics rotations consists of a variety of formulary management, cost-containment, data analytics and population management experiences. Data analytics examples include SQL code writing as well as use of Pyramid Analytics.

Examples of population management experiences at VANCHCS include opioid, testosterone, high risk medication, hypoglycemia, oncology, hepatitis C and mental health. Formulary management/cost containment examples include pharmacy budget review and implementation, prior authorization, lost opportunities of cost, drug shortage management and conversion proposal development. The core areas in the practice of pharmacoeconomics are:

formulary management
- development and maintenance of drug use criteria/treatment algorithms/restriction policies
- development of computerized tools to assist with formulary implementation, such as consult forms, reminder dialog templates, blue text, drug file messages
- provider education
- adjudication of non-formulary drug requests
- development and implementation of pharmacoeconomic cost-saving initiatives and therapeutic interchange programs

population medication use monitoring
- development and achievement of medication use performance metrics
- medication use evaluations
- outcomes analyses

pharmaceutical budget oversight
- budget preparation
- evaluation of recent utilization trends and identification of targets for improvement
# PGY1 Program Structure

**Program Structure**

- Orientation: 2 weeks
- 10 rotation blocks (5-6 weeks each)
- No pharmacy staffing (outside of required outpatient pharmacy operations rotation)

<table>
<thead>
<tr>
<th>Required Rotations (# of blocks)</th>
<th>Ambulatory Care Focus</th>
<th>Applied Pharmacoeconomics Focus</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>Acute Care/Internal Medicine (1)</td>
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<tr>
<td></td>
<td>Administration (1)</td>
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<tr>
<td></td>
<td>Ambulatory Care (2)</td>
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<tr>
<td></td>
<td>Drug Information (1)</td>
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<tr>
<td></td>
<td>Outpatient Operations (1)</td>
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<tr>
<td></td>
<td>Electives (4)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Applied Pharmacoeconomics (2)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Acute Care/Internal Medicine (1)</td>
<td></td>
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<tr>
<td></td>
<td>Administration (1)</td>
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<tr>
<td></td>
<td>Ambulatory Care (2)</td>
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<tr>
<td></td>
<td>Drug Information (1)</td>
<td></td>
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<tr>
<td></td>
<td>Outpatient Operations (1)</td>
<td></td>
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<tr>
<td></td>
<td>Electives (1)</td>
<td></td>
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</tbody>
</table>

| Resident’s Primary Location     | Sacramento: 2 residents  |
|                                 | Martinez: 1 resident      |
| Required Longitudinal Experiences | Non-Formulary Drug Requests |
|                                 | Research Project          |

- ASHP Program Code: 92422
- NMS Code:
  - Sacramento: 208121
  - Martinez: 208113
# PGY1 Program Structure

<table>
<thead>
<tr>
<th>Electives</th>
<th>Ambulatory Care Clinics</th>
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</thead>
<tbody>
<tr>
<td>Academic Detailing</td>
<td>Anticoagulation</td>
</tr>
<tr>
<td>Emergency Department</td>
<td>Diabetes</td>
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<tr>
<td>Infectious Diseases</td>
<td>Lipids</td>
</tr>
<tr>
<td>Long-term Care (Community Living Center)</td>
<td>Patient Aligned Care Team (PACT)</td>
</tr>
<tr>
<td>Mental Health (Outpatient Clinic)</td>
<td>Home Based Primary Care (HBPC)</td>
</tr>
<tr>
<td>Inpatient Pharmacy Operations</td>
<td></td>
</tr>
</tbody>
</table>

For additional information, contact:
Richard M. Martinez, Pharm.D.
PGY1 Residency Program Director
10535 Hospital Way
Pharmacy Service (119)
Mather, CA 95655
richard.martinez2@va.gov
Phone: 916-843-7296

ASHP accredits the PGY1 pharmacy residency program at VANCHCS
Current PGY1 Residents

Eric Lozano, Pharm.D.
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Alysa Feng, Pharm.D.
Pharmacoeconomics Focus, Martinez
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Tran Le, Pharm.D.
Ambulatory Care Focus, Sacramento
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Thanh Le, Pharm.D.
Ambulatory Care Focus, Sacramento
thanh-binh.le@va.gov
PGY2 Psychiatry Pharmacy Residency
Program Overview

Program Purpose
The VA Northern California Health Care System (VANCHCS) PGY2 psychiatric pharmacy residency program builds on Doctor of Pharmacy (Pharm.D.) education and PGY1 pharmacy residency programs to contribute to the development of clinical pharmacists in the specialized area of psychiatric pharmacy practice. This PGY2 residency program provides residents with opportunities to function independently as practitioners by conceptualizing and integrating accumulated experience and knowledge and incorporating both into the provision of patient care that improves medication therapy in individuals with psychiatric and neurologic disorders. Residents who successfully complete this PGY2 pharmacy residency will possess competencies that qualify them for clinical pharmacist and/or faculty positions and position them to be eligible for attainment of board certification in psychiatric pharmacy practice.

Description of VANCHCS Mental Health Services
VANCHCS provides mental health services to an adult population with diagnoses including major depression, anxiety disorders, substance use disorders, schizophrenia and other psychotic disorders, bipolar disorder, trauma – and stress-related disorders, and more. The Sacramento campus offers outpatient mental health services in General Mental Health (GMH), PTSD Clinical Team (PCT) and Addiction Recovery Treatment Service (ARTS), and inpatient acute stabilization in the 16-bed Behavioral Health Inpatient Unit (BHICU). We employ four outpatient, two telehealth, and one inpatient psychiatric clinical pharmacy specialist, all of whom function as members of psychiatric interdisciplinary care teams.

Facilities
The resident will be based the Sacramento VA Medical Center campus, most activities will occur from this site. Other clinical experiences may be conducted at the outpatient clinics in Martinez, Oakland, and/or Fairfield.

For additional information, contact:
Christine Johnston, Pharm.D., BCPP
PGY2 Psych Residency Program Director
10535 Hospital Way
Pharmacy Service (119)
Mather, CA 95655
christine.johnston2@va.gov
Phone: 916-843-9357

ASHP accredits the PGY2 psych pharmacy residency program at VANCHCS
PGY2 Psychiatry Program Structure

Program Structure
The PGY2 program begins with four weeks of orientation followed by two consecutive 8-12 week blocks each in outpatient and inpatient mental health to round out the first half of the residency year. This serves to fully immerse the resident within the mental health service in order to build a solid foundation prior to shifting into the second half of the year, which is largely longitudinal. The program structure during the second half of the year is designed to allow the PGY2 resident to fully experience and balance the myriad responsibilities of a specialty psychiatric pharmacist.

Example weekly schedule for second half of residency year:

<table>
<thead>
<tr>
<th></th>
<th>Monday</th>
<th>Tuesday</th>
<th>Wednesday</th>
<th>Thursday</th>
<th>Friday</th>
</tr>
</thead>
<tbody>
<tr>
<td>AM</td>
<td>Inpatient MH</td>
<td>Elective</td>
<td>Inpatient MH</td>
<td>Outpatient GMH</td>
<td>Outpatient GMH</td>
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<tr>
<td>PM</td>
<td>Elective</td>
<td>Elective</td>
<td>Outpatient Addictions</td>
<td>Post-discharge clinic</td>
<td>Admin time</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PGY2 Psychiatric Pharmacy</th>
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<tbody>
<tr>
<td><strong>Required Rotations</strong></td>
</tr>
<tr>
<td>Outpatient Mental Health</td>
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<tr>
<td>Inpatient Mental Health</td>
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<tr>
<td>PBM and eConsult Service</td>
</tr>
<tr>
<td>Residency Project</td>
</tr>
<tr>
<td>Mental Health Didactics</td>
</tr>
<tr>
<td>Pharmacy Administration/Professional Development</td>
</tr>
<tr>
<td><strong>Elective Rotations</strong></td>
</tr>
<tr>
<td>Long-term Care (Community Living Center)</td>
</tr>
<tr>
<td>TBI/Neuropsychiatry</td>
</tr>
<tr>
<td>Home Base Primary Care</td>
</tr>
<tr>
<td>Pain Management</td>
</tr>
</tbody>
</table>

| Locations | Sacramento: 1 resident |
| ASHP Program Code | 92123 |
| NMS Code | 723466 |
First Position Accepted Post-Residency
2013-2017 Classes

PGY1 Pharmacy Residents
- PGY2 Outcomes and Health Care Analytics at the VA’s VISN 21 (x2 graduates)
- PGY2 Psychiatric Pharmacy at VA Madison
- PGY2 Psychiatric Pharmacy at VA Palo Alto
- PGY2 Transitions of Care at Sharp HealthCare in San Diego
- Pharmacoeconomics pharmacist at VA Sierra Nevada
- Ambulatory Care pharmacist at VA Northern California (x2 graduates)
- Oncology Clinical pharmacist at VA Northern California
- ED pharmacist at VA Northern California
- Inpatient pharmacist at VA Palo Alto
- Outpatient pharmacist at VA Northern California
- Outpatient pharmacist at New Mexico VA
- Ambulatory Care pharmacist at Kaiser South Sacramento
- Ambulatory Care pharmacist at Kaiser South San Francisco
- Ambulatory Care pharmacist at Kaiser Oakland
- Inpatient pharmacist at NorthBay Healthcare in Fairfield
- Poison Control pharmacist at San Diego Poison Control Center
- Clinical pharmacist at Fircret Residential Habilitation Facility in Washington

PGY2 Psychiatric Pharmacy Residents
- Outpatient mental health pharmacist at Kaiser South San Jose
- Rural health pharmacist, mental health at VA Northern California
- Rural health pharmacist, pain management at VA Northern California
VA Northern California Health Care System
Pharmacy Service (119)
150 Muir Road
Martinez, CA 94553
Phone: 925-372-2161

http://www.northerncalifornia.va.gov/careers/pgy1/