### PGY2 Oncology Pharmacy Residency Program Overview

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<td><a href="https://health.ucsd.edu/specialties/pharmacy/residency/Pages/hem-onc.aspx">https://health.ucsd.edu/specialties/pharmacy/residency/Pages/hem-onc.aspx</a></td>
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The UC San Diego Health (UCSDH) Department of Pharmacy offers a one-year specialty residency in oncology pharmacy practice beginning August 1st of each year or upon licensure in California (see below for more information).

### About UC San Diego Health
UC San Diego Health consists of three acute care hospitals (UC San Diego Medical Center in Hillcrest, and in La Jolla - Sulpizio Cardiovascular Center and Jacobs Medical Center) and associated outpatient clinics with hematology/oncology services at Moores Cancer Center in La Jolla, North County Cancer Services in Encinitas & Vista, and UCSD Medical Center in Hillcrest. UC San Diego Health is also affiliated with Rady Children’s Hospital-San Diego, the Veterans Affairs San Diego Healthcare System, and the Sharp Memorial Hospital Joint Blood and Marrow Transplant Program. The Health System is affiliated with the UC San Diego School of Medicine and the UC San Diego Skaggs School of Pharmacy and Pharmaceutical Sciences (SSPPS). Nationally recognized as a National Institute of Health (NIH), National Cancer Institute (NCI) – Designated Cancer Center and a member institution of the National Comprehensive Cancer Network (NCCN), UCSDH offers innovative cancer care and research opportunities for its patients.

### Purpose
Post Graduate Year 2 (PGY2) pharmacy residency programs build on Doctor of Pharmacy (PharmD) education and PGY1 pharmacy residency programs to contribute to the development of clinical pharmacists in specialized areas of practice. PGY2 residencies provide 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 or other advanced practice settings. Residents who successfully complete an accredited PGY2 pharmacy residency are prepared for advanced patient care, academic, or other specialized positions, along with board certification.

### Program Description
UC San Diego Health PGY2 Oncology Pharmacy Residency Program prepares its graduates to assume positions in settings such as (but not limited to) an inpatient or outpatient hematology/oncology clinical specialist or as assistant professor at a college of pharmacy. Graduates will be prepared to sit for the Board-Certified Oncology Pharmacist (BCOP) exam. Our academic medical center provides the unique capability to engage each of our residents in direct patient care activities across a vast array of disease states, research, administration and project management, and multidisciplinary teaching.

Oncology PGY2 residents will gain the skills to function as the primary oncology pharmacist during their required core rotations. Primary responsibilities vary based on rotation but can include rounding with the oncology, hematology, blood and marrow transplant disease specific teams (inpatient and outpatient), designing, recommending, monitoring, and evaluating patient-specific therapeutic regimens that incorporate the principles of evidence-based medicine, addressing all pharmacokinetically-monitored medications, acting as secretary of the Hematology/Oncology Pharmacy & Therapeutics subcommittee, validating pharmacy orders for oncology patients (including chemotherapy), and overseeing and directing PGY1 resident and pharmacy student activities. This integration of staffing, clinical services, and teaching prepares residents for any type of practice environment they may encounter in their future by emphasizing the development of essential skills required for an advanced pharmacy practitioner: independent practice skills, multi-tasking, and prioritization. Residents will also complete a research project and publication. Scientific writing is strongly emphasized and the preparation of a manuscript suitable for publication will be expected, and submission to a journal is strongly encouraged.

Teaching activities include regular didactic presentations, leading oncology topic discussions for fourth year pharmacy students, involvement with UCSD Skaggs School of Pharmacy and Pharmaceutical Sciences, and the opportunity to participate in resident-led research projects and/or research activities of the department.
Sciences (SSPPS) courses (e.g., conference leader for third year therapeutics course, lecturer for oncology elective and therapeutics course (as needed)). The ability to work independently and to supervise pharmacy students and residents will be emphasized. The resident will also be involved in a research project which may include student precepting.

**Number of residency positions available:** 2 residents are accepted each year

**Application Process:**

**All applicants must be enrolled in the Resident Matching Program.** To facilitate this enrollment process and for further information, please visit the following website: [www.natmatch.com/ashprmp](http://www.natmatch.com/ashprmp). Applications will be accepted when PhORCAS opens and due by December 31. Applications should be submitted through PhORCAS and include the following:

1. Letter of Intent describing your interest in oncology and why this program is a good match for you
2. Additional Question - What is your vision of an oncology pharmacist practicing at the top of their license? (Please answer in 1-2 paragraphs)
3. Curriculum Vitae with all completed and anticipated learning experiences as well as pharmacy and non-pharmacy work experience
4. References - at least 3 individuals, 2 of which should be able to directly comment on your clinical practice skills
   a. **NOTE:** Please have recommendation writers complete the electronic reference form within PhORCAS with detailed characteristic and narrative comments. One to two areas of improvement or constructive feedback that the recommender feels the candidate should continue to work on as a PGY2 resident should be identified. No separate letter of recommendation is required.

Applicants may be contacted for a preliminary phone interview in January. On-site interviews will be held during late January through early March. This specialty residency program participates in the ASHP Resident Matching Program.

**Requirements of Residents Prior to Starting the Program:**

If matched with the UC San Diego Residency Program, matched candidates must have all the following:

1. Graduated from an ACPE-accredited school of pharmacy with a Doctor of Pharmacy degree
2. Successfully completed an ASHP-accredited PGY1 pharmacy residency.
   a. Upon receipt of application to the program, the RPD will reach out to the PGY1 program director to assess good standing in the program
   b. A signed residency certificate will be required prior to beginning residency
3. Licensure:
   a. The residency is expected to begin on the last Monday of July, or the first Monday of August, depending on the Human Resources orientation schedule. However, the resident must have obtained their California pharmacist license prior to beginning residency (absolute deadline to start is November 1st),
   b. If the resident is not licensed by November 1st, they will be dismissed from the residency program. The residency offer may be rescinded if the resident does not take the California Board of Pharmacy law exam prior to August 1st or does not pass the California Board of Pharmacy law exam on the first attempt.

**Resident Pay and Benefits:** Refer to UC San Diego Health Pharmacy Residency website ([https://health.ucsd.edu/specialties/pharmacy/residency/Pages/Salary-and-Benefits.aspx](https://health.ucsd.edu/specialties/pharmacy/residency/Pages/Salary-and-Benefits.aspx)) for details on salary and benefits
Program Structure
Learning Experiences:
Descriptions of each learning experience can be found in PharmAcademic

This PGY2 Oncology Program will focus on both inpatient and outpatient hematology/oncology experiences.

1 week of orientation
4 months outpatient
  ▪ 1 month outpatient infusion center (serves as orientation to outpatient staffing; CORE required)
  ▪ 3 months outpatient clinics (CORE required)
5 months inpatient
  ▪ 1 month inpatient staffing orientation (serves as training for inpatient staffing; CORE required)
  ▪ 2 months inpatient hematology/oncology consult (CORE required)
  ▪ 2 months inpatient hematopoietic stem cell transplant (CORE required)
2, 1 month long electives
Approximately 4 weeks of research time
Approximately 2 weeks Investigational Drug Service

Elective Choices:
Descriptions of each learning experience can be found in PharmAcademic
There will be a total of 5 rotations that the resident can choose their 2 electives from. Any of the required rotations could be repeated as an elective.
• Pain Management & Palliative Care (highly recommended)
• Investigational Drug Service
• Cancer Center Administration
• Cancer Center Retail Pharmacy
• Infectious Diseases
### Yearlong Schedule Example:

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Staffing:
The PGY2 resident will be required to staff 16 weekends at UCSD (which includes 1 minor holiday weekend and 1 major holiday (Thanksgiving, Christmas, or New Year’s)). Although subject to change this will be set up as inpatient staffing x6 months and outpatient staffing x6 months. Most months the resident will staff once, although some months will have two weekends scheduled due to training or major/minor holiday. There will be 1-2 weekends that may be exchanged for weekday staffing. Weekday staffing would be inpatient or outpatient staffing after rotation, one day per week, to allow the resident to gain more experience with chemotherapy order evaluation and to experience the differences between weekday and weekend staffing.

To help provide more formative feedback, residents are expected to seek feedback from at least one staff member each weekend they staff. The feedback will be solicited via an online survey [link to survey].

Example Staffing Calendar: see Yearlong Schedule Example above

Research Project:
The resident will be involved in 2 research projects throughout the academic year. To facilitate approval from our Investigational Review Board (IRB) the primary project will be started for the incoming resident by the outgoing resident (i.e., IRB submission completed) then the resident will complete data collection, analysis, and presentation of results. The secondary project will be chosen toward the end of the year by the newly matched resident then the current resident will complete the IRB submission. This process allows the resident to see all aspects of the research experience while minimizing delays during the IRB approval process – giving the resident more time for data collection/analysis. The primary project will be presented at a national oncology organization meeting (e.g., Hematology/Oncology Pharmacist Association - HOPA) or an equivalent conference, presented at a local or state-wide meeting, and written up in manuscript form. A list of project ideas will be generated from the preceptors and the resident is expected to select a project prior to starting the program.

Other Projects:
The resident will be asked to complete multiple projects throughout the PGY2 year. Some will focus on formulary management & quality improvement; others may initiate new protocols or guidelines. These projects will be formulated through their involvement in the Hematology/Oncology Subcommittee of the Pharmacy & Therapeutics Committee or during their learning experiences.

Presentations and Teaching
The residents will be required to give many educational lectures to their colleagues throughout their residency year. Some of these events are listed below:

Grand Rounds:
The resident will be delivering a 1-hour CE lecture to the pharmacy staff regarding a new drug, new guidelines, controversial topic in hematology/oncology or another topic approved by PGY2 Onc Residency Program Director (RPD).

If there are 2 hematology/oncology PGY2 resident(s), they can present individual topics at separate times of the year, or they could present a controversial topic together (taking opposing stances). The idea behind a joint presentation is not to antagonize each other but to deliver an unbiased complete presentation of the controversial topic diving into the pertinent literature that supports their viewpoint and counters their opponents. The residents will have rehearsed their presentation together ahead of time to provide a seamless educational lecture.

Monthly Didactic Forums – BCOP Lecture Series:
In addition to the grand rounds, the resident(s) will be required to research and deliver two or three 45–60-minute lectures on oncology related topics throughout the year. These topics will assist the resident as a study guide for the BCOP exam and will be relevant to the patient population they are currently involved with from a rotational perspective when possible. All parties are welcome to attend but the core hematology/oncology staff are strongly recommended to attend. This lecture series is held in conjunction with...
with PGY2 Oncology residents from the San Diego area, along with the UCSD SSPPS/Industry fellows, which gives the residents/fellows the opportunity to network with other oncology pharmacists in the area.

**Drug/Disease Review:**
At the beginning of the residency and continuing during outpatient blocks residents will go through various classes of anti-neoplastic agents and disease states. This will be an informal presentation to inpatient/outpatient preceptor(s). The drug topic discussions will focus on mechanism of action, pharmacokinetics, adverse effects, drug interactions, counseling pearls, etc. Disease topic discussions will focus on risk factors, treatment algorithms (first line treatment in each stage; other common agents they should know and when you would use them), long term follow-up. Preceptors will give the residents landmark trials to review prior to the discussion.

**Journal Club:**
Residents will prepare a hematology/oncology journal club where the resident(s) will be required to present 4 articles by the end of the year. These meetings will be scheduled during the inpatient (2 articles) and outpatient (2 articles) rotation blocks, and the date/location will be announced during the preceding week or so.

**Skagg’s School of Pharmacy and Pharmaceutical Sciences (SSPPS):**
The resident’s involvement with UCSD’s SSPPS will vary depending on requests from SSPPS, but possible activities include writing up hematology/oncology cases for student case conference, co-leading a case conference section with another PGY1 or PGY2 resident, preparing exam questions based on the hematology/oncology lectures presented, and/or presenting formal lectures on hematology/oncology topics. Involvement beyond this would be related to precepting a student if they are on a learning experience with the resident.

**Publication**
Scientific writing is strongly emphasized and the preparation of a manuscript suitable for publication will be expected, and submission to a journal strongly encouraged. The purpose of this requirement will be the development of scientific writing skills and communication skills. The types of publishable literature can include any of the following types of manuscripts:
- Case reports with a review of the literature
- Primary research/original research
- Medication Use Evaluation (MUE)
- Meta-analysis of a disease state or therapy
- Review article

**Meetings**
**Professional Meetings:**
The residents will attend a professional meeting during their PGY2 year. The UCSD program will grant the resident a travel stipend to be used as reimbursement for attendance at a specialty meeting (i.e., annual meetings for HOPA, ASCO, ASH, NCCN, etc.) or the resident may choose to attend California Society of Health System’s Pharmacist (CSHP), American Society of Health Systems Pharmacists (ASHP) midyear meeting or other local conference (i.e., UC Collaborative). Their research project must be presented at either the specialty meeting or the local conference. A resident may, upon request, be granted the opportunity to attend more than 1 of the meetings above but any reimbursement beyond the travel budget will be the responsibility of the resident. All meeting attendance must be approved by the RPD.

**Hematology/Oncology Subcommittee of Pharmacy & Therapeutics Committee:**
The resident will attend, take minutes, and complete projects as needed for the monthly Hem/Onc P&T Subcommittee which meets on the first Friday of every month from 7-8am. This meeting will introduce the resident to healthcare professionals within UCSD, allow the resident to see policy making from infancy to the final product, and generate projects for the resident to gain involvement in. Drug monographs will be presented to this committee.
Weekly Residency Program Director (RPD) Meetings:
The resident will meet every 2 weeks with the RPD to review progress on learning experiences, projects, and upcoming commitments.

Research Meetings:
It is strongly encouraged for the residents to meet with their research preceptor weekly, especially as the project is starting. Meeting frequency may be extended to every 2-3 weeks as needed.

Assessment Strategy – PharmAcademic
The PGY2 Oncology Specialty Residency Program uses the ASHP on-line evaluation tool called PharmAcademic, which is available for all ASHP-accredited pharmacy residency programs. This system, which is technologically supported by the McCreddie Group, supports the ASHP Residency Learning System (RLS).

Residents who are matched with this PGY2 specialty program are entered into PharmAcademic prior to their arrival in August. The incoming resident completes two pre-residency questionnaires that help the RPD design a residency year that is tailored to the specific needs and interests of the resident:
- ASHP Standard Entering Interests Form
- Goal-Based Entering Interests Form

Residents’ schedules and assigned RLS Goals are entered into PharmAcademic. We have chosen to use the PharmAcademic evaluation tools for our Learning Experiences. For each Learning Experience, the following Assessments are completed:
- Preceptor Assessment of Resident: Summative (for each Learning experience)
- Resident Self-Assessment: Summative self (for each Learning experience)
- Resident Assessment of the Learning Experience
- Resident assessment of Preceptor

Preceptors and residents are encouraged to exchange on-going, daily verbal feedback throughout each rotation experience. The residents and preceptors are trained and reminded throughout the year to complete evaluations in a thorough (quantitative and qualitative) and timely manner. To this end, evaluations may be used, not only as assessment tools, but also as tools that preceptors may turn to for help in guiding residents to improve, grow and achieve the residency programs and the residents’ goals and objectives for the residency year. The RPD reviews all evaluations and solicits verbal feedback from preceptors and residents to provide guidance to help the resident maximize the residency experience.

The residents discuss their program goals and interests quarterly (Quarterly Update and Customized Training Plan) with the RPD to evaluate where they are in meeting the residency goals and to set or modify goals for the remaining months of the residency program. Residents may meet as needed as their interests change throughout the year. The resident may request schedule modifications throughout the residency year and the RPD will make all efforts to accommodate these requests. Assessment tools will be adjusted as changes are made.

The resident completes the ASHP PharmAcademic exit evaluation. Residents also are requested to complete a yearlong evaluation of the Residency Program by indicating pros/cons of each rotation. This document is to be updated at the end of each rotation rather than at the end of the year.

The results of these year-end program evaluations are reviewed by the RPD for potential merit and potential action plans are developed to achieve continuous quality improvement.

Assessment Overview
It is the resident’s responsibility to ensure the timely completion of all evaluations. Self-reflection is encouraged to be included in Summative Evaluation of Resident for each rotation.

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<th>Learning Experience</th>
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**PGY2 Oncology Competency Areas, Goals and Objectives**

- **Competency Areas**: Broad categories of the residency graduates’ capabilities.
  - **Required**-
    - Competency Area R1: Patient Care
    - Competency Area R2: Advancing Practice and Improving Patient Care
    - Competency Area R3: Leadership and Management
    - Competency Area R4: Teaching, Education, and Dissemination of Knowledge
    - Competency Area R5: Oncology Investigational Drugs
  - **Elective**- (optional competency areas)
    - Competency Area E1: Teaching and Learning
    - Competency Area E2: Initiating an Oncology Pharmacy-Related Service
    - Competency Area E3: Oncology Credentialing
    - Competency Area E4: Publishing
    - Competency Area E5: Management of Oncology Medical Emergencies
    - Competency Area E6: Specialty Pharmacy
- **Educational Goals**: Goals listed under each outcome are broad sweeping statements of abilities.
- **Educational Objectives**: Resident achievement of educational goals is determined by assessment of the resident’s ability to perform the associated educational objective below each educational goal.
- The resident is encouraged to read detailed information about each goal at the ASHP website (click here or use this link: https://www.ashp.org/-/media/assets/professional-development/residencies/docs/pgy2-newly-approved-oncology-pharmacy-2016.ashx?la=en&hash=0897D1F3D3A0F3F2E9009DB480812AE9A618C594)
For information about Goals and Objectives Taught/Taught and Evaluated in Learning Experiences, please visit PharmAcademic, go to the ‘Reports’ tab, and click on ‘Goals and Objectives Taught/Taught and Evaluated in Learning Experiences.’

**PGY2 Oncology Residency Requirements for Completion/Graduation**

- Successful completion of all learning experiences
  - NOTE: Successful completion is defined as all learning experience objectives marked satisfactory progress (SP), achieved (ACH) or achieved for residency (ACHR) by the final evaluation, of all learning experiences. Any expectations of the residents that are not met or learning objectives with needs improvement (N/I) from an on-demand or scheduled evaluation will result in a meeting between the learning experience preceptor, RPD, and resident and a plan of correction will be formulated. Failure to complete the plan of correction may result in disciplinary action.

- A minimum of 90% of RLS objectives marked “Achieved for the Residency” by the end of the year (as evaluated by individual rotation preceptors or by the RPD upon final review of the resident’s progress). All patient care goals (Outcome R1: Patient Care) and objectives must be achieved.
- If not completed during a UC San Diego Health PGY1 residency program, residents will be required to complete a Research Primer Course and demonstrate competence as defined by the Research Council. If necessary, a remediation plan will be designed for residents who do not demonstrate competence.
- Staffing 16 weekends per year or equivalent as approved by RPD
- Completion of required presentations: 4 Journal Clubs, 1 Grand Rounds, 2-3 BCOP lectures, 2-3 monographs, 1 in-service, 1 Clinical Forum, Outreach
- Completion of a residency project; including presentation at a suitable conference/meeting and manuscript suitable for publication
- Completion of a MUE
- Submission of a manuscript for publication
- Participation in Therapeutics Conference as a facilitator
- Twelve months maximum is allotted to successfully complete the core requirements. If a core rotation must be repeated, then elective time shall be used. If the above requirements are not met in full, the residency certificate may be withheld at the discretion of the residency director.