

Appendix F Solid Organ Transplantation

PGY2 Solid Organ Transplantation Pharmacy Residency Program Overview

National Matching Service Code: 635476

<https://health.ucsd.edu/specialties/pharmacy/residency/Pages/transplant.aspx>

The UC San Diego Health Department of Pharmacy and the UC San Diego Skaggs School of Pharmacy and Pharmaceutical Sciences (SSPPS) offers a one-year specialty residency in solid organ transplantation beginning August 1 with an option for a July 1st start date.

Scope:

UC San Diego Health consists of three acute care hospitals and ambulatory care clinics that offer a broad spectrum of transplant programs, including kidney, combination kidney-pancreas, pancreas, liver, lung, heart, and mechanical circulatory support. The Health System is affiliated with the UCSD School of Medicine and UCSD Skaggs School of Pharmacy and Pharmaceutical Sciences. The Department of Pharmacy provides clinical services in both the inpatient and outpatient setting to all transplant patients in all phases of care.

This specialty residency balances service, research, and teaching opportunities and is tailored to the individual. The emphasis will be placed in providing excellent pharmaceutical care in conjunction with the multidisciplinary transplant team. Teaching activities include didactic, therapeutics conference leader, and clerkship preceptorship of first-year pharmacy practice residents and fourth-year UC-San Diego pharmacy students in their clinical rotations. A residency project will be completed and presented at a national conference with intent of publication.

Program Purpose:

The purpose of the UC San Diego Solid Organ Transplant Pharmacy Practice Residency is to train and educate pharmacists in the delivery of exemplary pharmaceutical care focused in solid organ transplantation in both the inpatient and outpatient setting. Following the completion of the transplant residency program, the resident will be a competent member of the interdisciplinary team caring for transplant patients and assuming responsibility for the medication-related aspects of care. The resident will become skilled in providing education to multiple audiences including transplant patients and caregivers and other members of the healthcare team. In addition, the resident will have the opportunity to gain valuable experience in research and guideline/protocol development and will be able to contribute to the rapidly developing field of transplantation. The resident will demonstrate a commitment to professional and personal development, monitoring his/hers own performance and exhibiting leadership skills in all practice areas. Graduates of this specialized program will be highly skilled practitioners in transplantation and will be prepared for career opportunities in the focused field of solid organ transplantation.

Number of residency positions available: 1 new resident is accepted each year.

Salary and Benefits: The annual stipend is currently \$54,000. Benefits include medical, dental, and vision insurance. In addition, vacation, sick and professional leave are provided. Please visit the UC San Diego Health Pharmacy Residency webpage for more information about duty hours, leave, benefits, position description, terms of dismissal, and more. Click on the House Officer Policy and Procedure Document:

<https://health.ucsd.edu/specialties/pharmacy/residency/Pages/Salary-and-Benefits.aspx>

Requirements:

An on-site interview is required and will be held during late January through early March. This specialty residency program participates in the ASHP Resident Matching Program. **All applicants must be**

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enrolled in the Resident Matching Program. To facilitate this enrollment process and for further information, please visit the following website: www.natmatch.com/ashprmp

If matched with the UCSD Residency Program, matched candidates must have all of the following:

1. Graduated from an accredited school of pharmacy with a Doctor of Pharmacy degree
2. Successfully completed an accredited PGY1 pharmacy practice residency
3. Obtained California pharmacy licensure prior to beginning residency (Absolute deadline = November 1st)

Application:

Applications will be accepted when PhORCAS is open. Deadline for applications is December 31st.

Applications should be submitted through PhORCAS and include the following:

1. Letter of intent
2. Current Curriculum Vitae
3. Photo (passport size) of yourself along with your full name printed clearly in pen on the back.
Note: Photo will be used for Candidate ID purposes and will likely be reproduced
4. Official academic transcript (pharmacy school only)
5. Three Letters of recommendations are required. At least 2 of the letters should be from preceptors or supervisors who can directly comment on your clinical and practice skills.
Note: Please have letter writers complete the ASHP Recommendation Form included in this application along with a Letter of Recommendation.

Program Structure:

Descriptions of each learning experience can be found in [PharmAcademic](#)

Orientation Training	2-4 weeks
Inpatient Abdominal Transplant	2 blocks of 6 weeks
Inpatient Cardiothoracic Transplant	2 blocks of 6 weeks
Ambulatory Care Clinics for Abdominal and Cardiothoracic Transplant	6 weeks
Supplemental Learning Experiences	2-3 blocks of 4-6 weeks
Research and Immunology Lab	4 weeks

Supplemental Learning Experience Options:

- Transplant Infectious Disease
- Critical Care
- Academia
- Option to repeat any required learning experience as a supplemental learning experience

Longitudinal Clinic Experience:

The resident will choose two 6 month longitudinal clinics to participate in throughout the year. Each clinic is ½ day per week. Available clinics include: Perioperative Kidney Transplant, Long-Term Kidney Transplant, Liver Transplant, Heart Transplant, and Lung Transplant.

Committee Experience:

The resident will participate in select hospital and transplant committees throughout the year. This will include participation in the transplant teams selection and quality assurance committees.

Research Project:

The resident will serve in a lead role for a research project throughout the year that will be completed and presented at a conference. A list of project ideas will be generated from program preceptors. The resident is expected to select a project during the first month of the residency year.

CQI Project:

The residents will need to complete a Continuous Quality Improvement project during the year. A list of project ideas will be provided to residents at the start of their residency year. The project will be selected

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during the first month of the residency year and will be prepare a final write-up or PDSA for this project.

Teaching Experience:

The resident will precept student and PGY1 residents on assigned learning experiences and also participate as a leader in therapeutic case conference at SSPPS or a similar teaching experience. Additionally, focus is place on teaching patients and care givers pre and post-transplant in both the inpatient and outpatient setting.

Transplant Policy and procedure review/update:

The resident will assist in writing or updating a minimum of 1 transplant protocol or policy and procedure during the residency year.

Presentations:

The residents will give many educational lectures to their professional colleagues and patients throughout their residency year. The presentations will include a 1-hour Grand Rounds CE lecture to the Pharmacy staff regarding a topic in transplantation. Additionally, the resident will be given the opportunity to give CE lectures to the transplant nursing staff and educational presentations for the transplant patient support groups. The resident will also present a minimum of 1 journal club throughout the year. The resident will also be given multiple opportunities to provide inservices to other healthcare providers throughout the year.

Staffing:

Staffing will be incorporated into the residency experience with weekend shifts that provide the opportunity for PGY2 residents to cover the inpatient transplant services. The PGY2 solid organ transplant residents are required to staff 16 weekends (which includes 1 minor holiday weekend PLUS 1 major holiday (Thanksgiving, Christmas, or New Year's). The resident will get 13 paid days for holidays and 12 sick days for the academic year. Vacation time will be in accordance with GME rules and will be defined as 20 days of vacation PLUS 5 days for professional leave to attend meetings or conferences. Please refer to House Officer Policy and Procedure Document for more detailed information about vacation.

Professional Meetings:

The resident will have the opportunity to attend various professional meetings throughout the year. Residents receive an annual travel stipend that is variable based on available funding. Residents are encouraged to attend a transplant specialty meetings (e.g. American Transplant Congress, ISHLT).

Assessment Strategy – PharmAcademic:

The PGY2 Solid Organ Transplantation 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 McCreadie 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 Residency Program Director (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
- Resident Assessment of the Learning Experience
 - Resident assessment of Preceptor

- Resident assessment of Learning Experience

Preceptors and residents are encouraged to exchange in on-going, daily verbal feedback throughout each learning experience. The Resident and Preceptors are trained and reminded throughout the year to complete evaluations in a thorough (quantitatively and qualitatively) and timely manner. To this end, evaluations may be used, not only as assessment tools, but 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 Form to evaluate where they are in meeting the residency goals and to set or modify goals for the remaining six 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 complete the ASHP PharmAcademic exit evaluation. Residents also are requested to complete a year-long evaluation of the Residency Program.

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

PGY2 Solid Organ Transplant Competency Areas, Goals and Objectives:

- Educational Outcome: broad categories of the residency graduates' capabilities.
 - Outcome R1: Serve as an authoritative resource on the optimal use of medications in recipients of a solid organ transplant
 - Outcome R2: Optimize the outcomes of transplant patients by promoting and/or providing evidence-based medication therapy as an integral member of an interdisciplinary team in acute and ambulatory care settings.
 - Outcome R3: Manage and improve the medication-use process in transplant patient care areas.
 - Outcome R4: Demonstrate leadership and practice management skills.
 - Outcome R5: Demonstrate excellence in the provision of training or educational activities about transplant-related medications for health care professionals and health care professionals in training.
 - Outcome R6: Conduct transplant research.
- 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 on Solid Organ Transplantation (PGY2))
<https://www.ashp.org/Professional-Development/Residency-Information/Residency-Program-Directors/Residency-Accreditation/PGY2-Competency-Areas>
- For information about Goals and Objectives Taught/Taught and Evaluated in Learning Experiences, please visiting [PharmAcademic](#) , go the 'Reports' tab, and click on 'Goals and Objectives Taught/Taught and Evaluated in Learning Experiences'.

PGY2 Solid Organ Transplantation Residency Requirements for Completion/Graduation:

- Successful completion of all required learning experiences (all learning experience goals marked SP or ACH by the final evaluation)
- $\geq 90\%$ of RLS goals marked "Achieved for the Residency" by the end of the year (as evaluated by individual learning experience preceptors or by the RPD upon final review of the resident's progress)
- Completion of required presentations: 1 Journal Clubs, 1 Grand Rounds, 1 In-service
- Completion of a residency project; including presentation at a suitable conference/meeting and completion of a project 'write-up' in a manuscript suitable for publication
- Protocol or policy update
- CQI project
- Twelve months minimum is allotted to successfully complete the core requirements. If a learning experience must be repeated, then time allotted for a supplemental learning experience 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