
UWHealth

University of Wisconsin
Hospital and Clinics

uwhealth.org

**PGY2 - Critical Care Pharmacy
Residency Program
Information and Application Materials**



UWHC PGY2 - Critical Care Residency at a Glance:

UNIVERSITY OF WISCONSIN HOSPITAL AND CLINICS
PGY2 - Critical Care Residency Program
Department of Pharmacy, F6/133-1530
600 Highland Avenue
Madison, Wisconsin 53792

ASHP Program Code: 45103
National Matching Service Code: 593052

Internet site: www.uwhealth.org (search for pharmacy resident)

Program Director: Jeffrey Fish, Pharm.D.
(608) 263-1290
Fax: (608) 263-9424
E-mail: jfish@uwhealth.org

Contact Person: Jeffrey Fish, Pharm.D.
(608) 263-1290
Fax: (608) 263-9424
E-mail: jfish@uwhealth.org

Residency Program:

Duration/Type: 12 mo/residency
Number of Positions: 1
Application Deadline: January 17
Starting Date: July 1 (or time agreed to by Program Director and Resident)
Estimated Stipend: \$39,500
Interview Required: Yes

Special Features: The resident will participate as a member of the critical care team in a level 1 trauma center. Experience will be gained via practice in the adult medical and surgical intensive care areas, participation in academic and preceptor programs of the UW School of Pharmacy and completing a project acceptable for publication. Rotations are tailored to meet the needs and interest of the resident while meeting ASHP standards.

Fringe Benefits: Health insurance, 5 vacation days, travel days to visit other institutions, 6 days sick leave, 9 holidays, 3 interview days and funding for professional meetings.

Special Requirements for Acceptance: Graduation from an accredited school of pharmacy, prior PGY1 - Pharmacy Residency, eligibility for Wisconsin licensure, onsite interview.

Training Site:

Type: Hospital/Health System
Owner/Affiliate: Public Authority
Model Type(s): Teaching, Tertiary
Patient volume: 136,000 inpatient days; 43,000 emergency room visits, 566,000 outpatient visits
Tax Status: Nonprofit
Professional Staff FTE: 143
Non-Professional Staff FTE: 220
Total Beds: 493

Average Daily Census: 360
Other statistics: 6 intensive care units with the following bed distributions:
24 Medical/Surgical ICU
24 Pediatric ICU
7 Medical Cardiac ICU
8 Cardiothoracic Surgery ICU
7 Burn ICU
16 Neurology/Neurosurgery ICU
25,000 inpatient admissions; 18 bed Psychiatric Unit; 85 outpatient clinics; 550 house staff (physician residents/fellows)

Special Features: Ranked among the top 10 academic health centers nationwide in a University HealthSystem Consortium benchmarking study of safety, mortality, clinical effectiveness and equity in delivery care. Named a "Top Ten Company" in the nation by Working Mother magazine. Recognized by Health Information Management Systems Society (HIMSS) as one of 38 hospitals in 7 health systems nationwide to attain Stage 7 (of 0 - 7) for electronic health record implementation. Recognized as one of the nation's Most Wired and Most Wireless hospitals by Hospitals and Health Network magazine, July 2010. The department's drug distribution system is heavily supported using automation, using innovative robotic and point-of-care technology, which is supported by a fully integrated information system and network. Pharmacist involvement at every step of the medication use process provides high levels of safety and quality in the provision of patient care. The department manages 13 retail pharmacies, a home care company, hospital and long-term care consulting services, full PBM managed care services, a telepharmacy mail order service, and a hospice hospital.

Major Programs

Critical Care—Med Flight critical care air transport service, established April 1985; fully equipped emergency room; trauma center with Level One status for both adult and pediatric care; burn unit; a combined medical/surgical intensive care unit; pediatric intensive care unit; cardiac medicine and surgery intensive care units; neurosciences intensive care unit.

UW Carbone Cancer Center—one of 39 federally designated centers for cancer treatment and research.

American Family Children's Hospital—62-bed pediatric hospital adjacent to UW Hospital and Clinics, nationally known for treatment of children's lung diseases, cardiac surgery and other pediatric specialties.

Organ Transplant—one of the nation's largest programs, with patient outcomes consistently cited among the best in the nation. Recognized by US Department of Health and Human Services as organ procurement best practice site.

Heart and Vascular Care—offers a comprehensive program of prevention, expert diagnosis and treatment of full spectrum of heart-related diseases.

Stroke Center—offers one of the most comprehensive sets of stroke studies in the nation, including testing of multiple surgical interventions, advanced diagnostic imaging and medications and therapeutic interventions for acute stroke and its after-effects

Program Mission Statement

Residents who successfully complete the University of Wisconsin Hospital and Clinics Critical Care Specialty Residency Program will be able to provide evidence-based integrated pharmaceutical care to critically ill patients. The program will provide residents with opportunities to conceptualize, integrate, and transform accumulated experiences and knowledge into skill, competence, and confidence in providing patient care to this specialty patient

population. The primary objective of the program is development of critical care pharmacist leaders who practice at an exemplary level.

Residents will develop a philosophy of practice that includes:

- Pharmacists' responsibility and accountability for pursuing optimal drug therapy outcomes in the provision of care to critically ill patients
- A program of self learning and assessment
- A commitment to advancing the profession
- Education and training of other healthcare professionals to enhance inter-professional relationships
- An understanding of and commitment to pharmaceutical research design and implementation via completion of a research project

Accreditation

The PGY-2 Critical Care Residency Program is accredited by the American Society of Health-System Pharmacists

Residency Director

The residency program director is Jeffrey Fish, Pharm.D, Senior Clinical Pharmacist at UW Hospital and Clinics and Clinical Assistant Professor at the UW-Madison School of Pharmacy

The Residency Year, Numbers, and “The Match”

The residency begins July 5th, 2011 (or upon a date agreed on between the resident and the program director) and ends June 29th, 2012. One residents is accepted into the program. The program participates in the **ASHP Residency Matching Program**; therefore applicants should be enrolled in the matching program to be considered for the residency. Applications for the matching program may be downloaded from the ASHP website (www.ashp.org). The deadline for match registration is usually in mid-January.

Application Deadline

All application materials for the PGY2- Critical Care Residency at UWHC must be received by *January 17th, 2011*.

Stipends & Benefits

Residents during 2011-2012 will receive a stipend of \$39,000/year. Critical care residents receive 14 paid vacation days/holidays and 5 sick days per year and are not required to use vacation time to attend meetings. As employees of University of Wisconsin Hospital and Clinics, residents receive full health insurance benefits and full access to the University of Wisconsin's recreational, educational, and cultural facilities

The Residency Experience

Rotations: Critical care residents complete an initial 4-6 weeks of training in the combined medical/surgical intensive care unit. All other rotations are 2-8 weeks depending on the resident's experience and interests.

Required Rotations	Elective Rotations
<ul style="list-style-type: none"> • Trauma-Life Center (TLC: combined medical/surgical intensive care unit); a minimum of 3 months • Cardiac Medicine Intensive Care Unit • Neurosciences Intensive Care Unit • Pediatric Intensive Care Unit • Nutrition Support Service 	<ul style="list-style-type: none"> • Infectious Disease Consults • Burn • Renal Consults • Cardiovascular Surgery ICU • Trauma/Surgery Service • Emergency Medicine • Others based on resident interest

Clinical Staffing: Pharmacy services are provided by teams of pharmacists within an integrated practice model. These team of pharmacists are decentrally/unit based and provide care as part of the interdisciplinary team through: patient care rounds, clinical monitoring, medication order review, admission histories, first-dose teaching, discharge teaching and care coordination, code and stroke response teams, drug information resource and medication use stewardship. The Critical Care Resident will staff as a decentral pharmacist primarily in the combined medical/surgical intensive care unit. The resident will staff approximately 16 hours every 2 weeks.

Resident Daily Activities (while on rotation will include, but are not limited to):

- Collaboratively managing drug therapy with other members of the healthcare team
- Rounding with the team daily
 - This will help gain an understanding of rational drug therapy and its application to critical care patient care
 - It will also help develop skills in working as an integral member of the multidisciplinary critical care team
- Admission histories / discharge teaching (completed for all UWHC patients)
- Patient monitoring and documentation
 - Understand the pathophysiology and medication implications of commonly encountered acute medical problems listed under the areas of emphasis in the ASHP standards
- Investigation of medication error reports and patient/medication safety follow-up
- Adverse drug event reporting
- Problem solving
- Drug information and literature searches
- Attending codes
- Quality improvement activities & audits
- Team-related projects
- Communication and interaction with team preceptor and pharmacists
- Communication and interaction with physicians and nurses
- Working with 4th year clerkship students

- Working with PGY1 – Pharmacy Residents on rotation
- Instructional and patient case presentations

Pharmaceutical Research Center: Residents may spend time with Pharmaceutical Research Center staff learning about drug research, protocol activation and management, sponsor and federal regulations, drug accountability, educational tools, human subject protection, and development and management of investigational drug services.

Projects: The critical care resident will complete a major research project suitable for publication. Projects are presented at the UHC resident poster session prior to the ASHP Midyear Clinical Meeting, Great Lakes Pharmacy Resident Conference, and Pharmacy Society of Wisconsin Educational Conference.

Past resident projects include:

- 1) Assessed propylene glycol toxicity from lorazepam infusions
- 2) Developed enteral feeding/drug interaction table
- 3) Surveyed Critical Care pharmacy practice across the US
- 4) Evaluated the use of an antibiotic order form in the ICU
- 5) Evaluated the use of a CRRT table for dosing of antibiotics and non-antibiotics
- 6) Assessed the time to positive cultures and antibiotic changes
- 7) Assessed the percentage of patients who were started on stress ulcer prophylaxis and then were inappropriately prescribed them on discharge
- 8) Evaluate differences between pharmacist-obtained and physician-obtained medication histories in the intensive care unit
- 9) Evaluate the use of prolonged infusions of piperacillin/tazobactam and meropenem in the intensive care unit
- 10) Quetiapine use in a mixed medical/surgical intensive care unit
- 11) Efficacy of a novel antibiotic dose reduction strategy based on pharmacokinetic and pharmacodynamic principles in the intensive care unit

Presentation Opportunities: Residents have ongoing opportunities to improve their speaking skills as they prepare for and deliver a Pharmacy Grand Rounds presentation. In addition, residents provide educational presentations and inservices on clinical rotations and lead journal club discussions. Past residents have also given presentations to the trauma surgeons, eICU staff and other health care professionals.

Teaching Opportunities: Residents receive clinical instructor status at the University of Wisconsin School of Pharmacy. They have the opportunity to take an active role in teaching 4th year students on clinical rotation at the hospital. A teaching certificate program for residents at area hospitals is offered in conjunction with the University of Wisconsin School of Pharmacy.

Other Activities:

- Weekly resident lunch sessions – meetings with program director, director of pharmacy, speakers discussing clinical and administrative topics
- Involvement in patient/medication safety and quality improvement programs
- Participation on a clinically-focused (patient care) committee – e.g. Pharmacy Practice, Nutrition, Patient Education, Kinetics, Pain

- Advanced Cardiac Life Support training
- Participation in resident group service projects/volunteering
- Opportunities to interact with residents in pharmacy practice, community, administrative, nutrition, and transplant.

Travel: Residents receive travel support to attend the ASHP Midyear Clinical Meeting or the Society of Critical Care Medicine, the Great Lakes Pharmacy Residents Conference, and a spring visit to other health systems and residency programs in order to observe, learn, and share ideas.

Current Positions of Past Residents: Medical Liaison for pharmaceutical company, critical care pharmacy specialist (7 past residents), Professor of Critical Care and Nutrition and emergency medicine pharmacy specialist.

How Do I Apply?

In order to be considered for the PGY2 - Critical Care Residency at UW Hospital and Clinics, you must:

1. Graduated from an accredited school of pharmacy; obtain pharmacist intern status in the State of Wisconsin no later than June 27th, 2011; obtain pharmacist licensure in Wisconsin no later than September 1, 2011
2. Have completed a PGY1 - pharmacy residency by July 1, 2011
3. Be enrolled in the American Society of health System Pharmacists Residency Matching Program. Applications may be downloaded from the ASHP website (www.ashp.org). The deadline for match registration is usually in mid-January.
4. Complete an online application:
 - a. Go to our website at www.uwhealth.org/careers
 - b. Search for jobs at University of Wisconsin Hospital and Clinics UWHC
 - c. Apply for job ID 99005
 - d. The online application includes/requires a behavioral assessment. Your online application will be rejected if you do not fully complete this assessment. Take your time to read each questions carefully and answer as accurately as possible.
5. Submit an application packet by January 17th containing the following:
 - Letter of intent. Include the following in your letter:
 - Why do you want to complete a PGY2 - critical care residency?
 - Why do you want to complete a PGY2 - critical care residency at UW Hospital and Clinics?
 - UWHC PGY2 - Critical Care Residency Application (attached)
 - Curriculum vitae

Mail or fax application packets to:

Jeffrey Fish, Pharm.D.
University of Wisconsin Hospital and Clinics
Pharmacy Services
600 Highland Avenue, F6/133-1530
Madison, WI 53792-1530
Fax number: 608-263-9424

6. The three persons you select as references should mail their recommendation forms (attached) directly to Jeffrey Fish at the address listed above.
7. Request a copy of your official pharmacy school transcripts; have them sent directly to Jeffrey Fish at the address listed above.

8. Once your complete application packet is received, you will be contacted to set up an interview. You may also contact the program director with any questions about the interview or the program.

The ASHP Matching Program results are announced in mid-March. If you match at UWHC, you will receive a letter of acceptance from the program director, and an official job offer from UWHC Human Resources with salary/benefit information including preliminary on-boarding information (e.g. employee health exam, new employee orientation, parking, etc.)

(over)

Relative to persons of similar background, training and professional interests, how would you rate this applicant for each of the following characteristics? Please place an X under the rating column which best described the applicant.

CHARACTERISTICS EVALUATED	UPPER 10%	UPPER 25%	UPPER 50%	LOWER 50%	NO BASIS FOR JUDGEMENT	COMMENTS
Academic ability						
Quality of work						
Written communication skills						
Oral communication skills						
Leadership skills						
Industriousness and perseverance						
Initiative and motivation						
Problem solving						
Assertiveness						
Cooperativeness						
Ability to organize, prioritize and manage time						
Ability to manage multiple priorities/tasks						
Ability to work with supervisors						
Ability to work with peers/teamwork						
Ability to work with patients						
Dependability						
Resourcefulness and originality						
Willingness to accept constructive criticism						
Personal appearance and professional demeanor						
Commitment to professional practice						
Emotional stability and maturity						
Enthusiasm						
Integrity						

Recommendation concerning admission (check one):

- I highly recommend this applicant. I recommend this applicant, but with some reservations.
 I recommend this applicant. I am not able to recommend this applicant.

Signature of recommender Date

Name (typed or printed)

Title

Affiliation

Street address or P.O. Box

City State Zip

Telephone Number

E-mail Address