
**University of Wisconsin Hospital and Clinics
Critical Care Specialty Residency Program
Information and Application Materials**

UWHC Critical Care Residency at a Glance:

UNIVERSITY OF WISCONSIN HOSPITAL AND CLINICS

Critical Care Residency Program

Department of Pharmacy, F6/133-1530

600 Highland Avenue

Madison, Wisconsin 53792

Program Director: Jeffrey Fish, Pharm.D.
(608) 263-1290
Fax: (608) 263-9424
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(608) 263-1290
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Residency Program:

Duration/Type: 12 mo/residency
Number of Positions: 1
Application Deadline: January 15
Starting Date: July 1 (or time agreed to by Program Director and Resident)
Estimated Stipend: \$38,500
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: Onsite interview, Pharm.D. Degree, prior pharmacy practice residency.

Training Site:

Type: Hospital
Owner/Affiliate: Public Authority
Model Type(s): Teaching, Tertiary
Tax Status: Nonprofit
Professional Staff: 117
Non-Professional Staff: 159
Number of Patients, Enrollment,
Covered Lives, Census: 130,038 inpatient days, 200,000 covered lives, 555,183 outpatient visits
Total Beds: 477
Average Daily Census: 360
Number of Medical Centers: 2 Hospitals, 30 Satellite Clinics, 15 Community Pharmacies
(Applies to Multi-facilities)

Training Site Features: The University of Wisconsin is a tertiary care teaching hospital with extensive research, clinic, ambulatory care, home care, HMO, and referral services augmenting its inpatient services (600,000 outpatient visits per year). The decentralized and computerized pharmacy department actively participates in each of the hospital's inpatient and outpatient services as well as conducting teaching and research of its own. The department's drug distribution system is fully automated, using innovative robotic and point-of-care technology, which is supported by a fully integrated information system and network. The department manages 7 retail pharmacies, a home care company, a long-term care consulting service; full PBM managed care services, and a telepharmacy mail order service.

The Residency Experience

Objectives

Residents who successfully complete the University of Wisconsin Hospital and Clinics' Critical Care Residency Program will be able to provide integrated pharmaceutical critical care at a patient-specific level. This residency will provide residents with opportunities to conceptualize, integrate and transform accumulated experiences and knowledge into skill, competence and confidence in providing patient care to critically ill patients through clinical experience. The residency will also provide an opportunity to develop teaching and clinical research skills.

Residents will acquire a philosophy of practice that includes:

- Pharmacists' responsibility and accountability for pursuing optimal drug therapy outcomes in the provision of patient care to critically ill patients
- Education and training of other health professionals
- A program of self learning
- A commitment to the profession

Accreditation

The 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

Qualifications

In order to recruit high-quality residents, every potential pharmacy resident candidate will be evaluated using defined criteria. Those meeting the criteria will be actively pursued, with the current critical care pharmacy resident acting as that individual's liaison to the University of Wisconsin and its pharmacy residency program. Although high academic achievements are important for success in this program, other experiences of professional practice are also taken into consideration, keeping in mind that a correlation between grades and professional practice does not always exist.

The Department of Pharmacy at UW Hospital and Clinics (UWHC) has established the following policy and procedural method for the selection of residents that assures a consistent methodology and prevents potential for a prejudiced selection of a candidate. All applications must be received by January 15th and will be screened according to the following criteria:

- Completion of a prior residency and/or equivalent practice experience
- Graduation from an accredited college of pharmacy
- Completed critical care residency application
- Curriculum vitae contains no deficits or cause for concern in the areas of written communication, pharmacy experience, or academics
- Three recommendation letters and/or forms contain no deficits or cause for concern in the areas of personal relations/maturity/leadership, initiative/motivation, academics, pharmacy experience, or written/verbal communication
- Official transcripts must demonstrate a GPA \geq 3.0 with no cause for concern in upper level pharmacy courses such as therapeutics, pharmacology, pharmacotherapy lab, etc.

Critical Care Resident applicants will interview with the Program Director, Director of Pharmacy, the Manager of Acute Care, rotation preceptors, critical care pharmacists, and the current resident in the program. This does not preclude input and suggestions from any other member of the staff. Other aspects considered are knowledge of professional practice, ability to communicate, practical application of theoretical knowledge, interest in the program, and the ability to show leadership, confidence and maturity.

Clinical/Resident activities

- Round as part of the critical care service
 - This will help gain an understanding of rational drug therapy and its application to patient care
 - It will also help develop skills in working as an integral member of the multidisciplinary critical care team
- Monitor patients in the critical care unit
 - Understand the pathophysiology and medication implications of commonly encountered acute medical problems listed under the areas of emphasis in the ASHP standards
- Prevent, detect, manage and follow-up adverse drug reactions, drug interactions and patient safety issues in critically ill patients
- Apply pharmacokinetic and pharmacodynamic principles to the critically ill patient and recommend serum drug concentration sampling times to achieve cost-effective drug monitoring when applicable
- Monitor and understand nutrition support in critically ill patients
- Answer medication-related questions from physicians, nurses, other health care professionals, patients and families
- Understand the hospital's policies and procedures and adhere to them during patient care
- Participate as an effective member of the cardiopulmonary resuscitation team
- Help develop protocols and guidelines for medications administered to critically ill patients in cooperation with the medical and nursing staff
- Take part in an interdisciplinary (i.e., pharmacokinetics, DUE) and multidisciplinary committee (i.e., TLC QA, P&T, ER QA)
- Contribute to pharmacy department's drug information database
- Obtain critical care management experience by attending meetings and doing projects with the Manager of Acute Services

Education

- Develop an understanding of the references important to practice in critical care
- Participate in interdisciplinary continuing education activities, including grand rounds, research seminars, clinical conferences and inservices
- Participate in the critical care and pharmacy practice journal clubs
- Become proficient in the use of computers for both pharmacy-related activities and word processing
- Participate in the Teaching Certification Class at the University of Wisconsin School of Pharmacy
- Attend either a pharmacy (ASHP or ACCP) or critical care (SCCM) national meeting
- Present at the spring Pharmacy Society of Wisconsin Educational Conference
- Present at the Great Lakes Residency Conference in the spring
- Resident will be encouraged to join the Society of Critical Care Medicine and the Pharmacy Society of Wisconsin

Teaching

- Serve as a co-preceptor for pharmacy practice residents, junior administrative residents, and Pharm.D. students during their critical care elective rotations
- Present formal and informal lectures on critical care therapeutic topics to pharmacists, pharmacy residents, physicians, nurses, students and other health care professionals
- Participate in teaching pharmacotherapy lab at the University of Wisconsin School of Pharmacy

Rotations

- Required: Critical Care Service (3 months), Nutrition (1-2 months), Cardiac Medicine ICU (1-2 months), Neurosciences ICU (1 month), and Pediatric ICU (1 month)
 - Length of rotations may vary depending on resident interests and past experiences
- Elective: cardiac surgery critical care unit, burn unit, emergency room, operating room, infectious disease consult team, solid organ transplant and the renal consult team
- Other rotations as agreed to between the Program Director and resident

Research project

A research project agreed to between the resident and the program director is required for completion of the residency. The project will evaluate the use of drugs, drug delivery devices, or drug monitoring in critically ill patients. This will allow the resident application of the scientific method and to provide experience in conducting clinical research. The resident will also participate in ongoing research in the critical care unit.

Staffing

Residents are required to staff in the Intensive Care Unit every other weekend.

Stipends and benefits

Residents during 2006-2007 will receive a stipend of \$37,000 per year. The critical care resident receives 14 paid vacation days/holidays, six sick days and 3 interview days per year. Residents are not required to use vacation time to attend meetings. As employees of University Hospital, residents receive full health insurance benefits and full access to the University of Wisconsin's recreational and cultural facilities.

Current Positions of Past Residents

- Medical Liaison for pharmaceutical company
- Critical care pharmacy specialist (4 past residents)
- Professor of Critical Care and Nutrition
- Critical care pharmacy specialist/School of Pharmacy Pharmacotherapy Lab instructor

Applying to the program

To apply to UW Hospital and Clinics Pharmacy Residency program, complete the following documents and send by January 15 to:

Jenny Lendborg
University of Wisconsin Hospital and Clinics
Department of Pharmacy
600 Highland Avenue, F6/133-1530
Madison, WI 53792-1530

- The residency application
- Curriculum vitae
- A letter of intent
- Three letters of recommendation from previous preceptors, instructors or employers
- Official transcripts from your school of pharmacy
- Be licensed as a pharmacist or pharmacy intern in the state of Wisconsin.
 - For more information, contact the Wisconsin Pharmacy Examining Board at:
 - Wisconsin Pharmacy Examining Board
State of Wisconsin
Department of Regulation and Licensing
P.O. Box 8935
Madison, WI 53708-8935
- 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 97150
 - 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.

Residency Faculty - Clinical

Jeffrey Fish (Senior Clinical Pharmacist) received his B.S. degree from the University of Wisconsin, and his Pharm.D. degree from the University of Minnesota. He completed a cardiology research fellowship with the University of Minnesota, and is BCPS certified. His responsibilities include providing pharmacy services for medical, surgical and burn intensive care patients. His interests include pain, sedation, dosing of medications in CRRT and infective disease issues in this patient population.

Brian LaRowe (Senior Clinical Pharmacist) received his B.S. and M.S. degrees from North Dakota State University, School of Pharmacy. He is responsible for pediatric patients including intensive care and hematology, oncology, bone marrow and transplant as well a general care patients from birth through teen years. Primary interests within pediatric population include emergency medicine, critical care and therapy management for patients with varying degrees of renal function impairment.

Sheila Aton (Senior Clinical Pharmacist) received her B.S. and Pharm.D. degrees from St. Louis College of Pharmacy. She completed a pharmacy practice residency at the University of Wisconsin Hospital and Clinics. Responsibilities include patient care services for neurology and neurosurgical as well as movement disorder clinic and neuro/neurosurgery rehab clinic. Her interests include Parkinson's disease patients and spinal cord injury patients and she is very involved with the inpatient and outpatient management of these population.

Judy Olson (Clinical Pharmacist) received her Pharm.D. degree from Drake University and completed a pharmacy practice residency at Mayo Clinic in Rochester, Minnesota. She is board certified in pharmacotherapy. Prior to coming to UWHC in 2002, she worked in cardiac surgical and medical/surgical intensive care units. At UWHC, she primarily works in the coronary care unit and telemetry floor. Her interests are in cardiology and critical care pharmacy practice.

Trisha Ludwig (Clinical Pharmacist) received her Pharm.D. degree from the University of Wisconsin. As a clinical pharmacist she is responsible for providing patient care to a variety of patient populations including transplant, cardiology, and critical care. Trisha is also affiliated with the University of Wisconsin – Madison, School of Pharmacy as a clinical Instructor precepting pharmacy students. Other teaching responsibilities include precepting pharmacy practice resident and pharmacy administrative residents within the organization. Her interests include infectious disease, immunosuppressive therapy in solid organ transplantation and drug interactions. She is a member of the pharmacy department's pharmacokinetic committee. She is working with other clinical staff members to evaluate a new antibiotic-streamlining program.

Residency Faculty - Administrative

Steve Rough is the Director of Pharmacy at the University of Wisconsin Hospital and Clinics, and Clinical Assistant Professor at the UW-Madison School of Pharmacy. Steve received his Bachelor of Science in Pharmacy degree (1991) and his Master of Science in Hospital Pharmacy Administration degree (1994) from the School of Pharmacy at the University of Wisconsin, Madison. He completed residency training in Pharmacy Practice and Health-System Pharmacy Administration in 1994 at the University of Wisconsin Hospital and Clinics. Steve's practice and research interests include pharmacy administrative practice, medication use safety, work redesign, pharmacy technology, financial management, outcomes research and implementation of progressive pharmacy services.

Philip Trapskin (Clinical Instructor) received his BS Pharmacy (1999) and PharmD (2000) from the University of Wisconsin-Madison. Upon graduation he practiced at Marshland Pharmacies, Inc., an independent community pharmacy in Horicon, WI. He completed a pharmacy practice residency (2004) and pharmacy practice management specialty residency (2005) at the University of Kentucky Chandler Medical Center in Lexington, Kentucky. Currently, his position is Manager, Acute Care Pharmacy Services at the University of Wisconsin Hospital and Clinics in Madison, WI. His interests include residency training, role of pharmacist with computerized prescriber order entry implementation, clinical services and scholarly activity development.

Bill Tanke (Clinical Instructor) is Manager, Acute Care Services. Bill received his B.S. degree from the University of Wisconsin. His responsibilities include providing leadership and direction to pharmacists in the areas of cardiology and cardiothoracic surgery and adult critical care. He is also responsible for blue cart training for all new pharmacy staff. His interests include hypertension, sedation, and medication issues in the area of heart and lung transplant patients.

Thomas Thielke (Clinical Professor) is Vice President, Professional and Support Services. He received his B.S. and M.S. degrees from UW-Madison and completed the two-year Administrative Residency at UW Hospital and Clinics. He is a Fellow of ASHP and a Past President of ASHP, and is past Chairman of the ASHP House of Delegates. He is currently the Immediate Past President of the Hospital Pharmacy Section of FIP. His research activities and interests include productivity analysis, financial management, health care delivery systems, health care finance, technology assessment and resource utilization.

Sylvia Thomley (Clinical Instructor) is Manager, Patient Care Services and Medication Safety. Sylvia has Doctor of Pharmacy and Master of Science in Health-System Pharmacy Administration degrees from the School of Pharmacy at the University of Wisconsin, Madison. She also completed a two-year Residency in Health-System Administration at UW Hospital and Clinics. Sylvia has a strong interest in patient and medication safety and chairs the Medication Safety Committee at UWHC. Her practice interests also include clinical informatics and decision support, ambulatory clinical pharmacy practice, and advancing the role of pharmacy technicians. Sylvia is active in the Pharmacy Society of Wisconsin and is chair of their Membership Committee.

Lee Vermeulen (Clinical Associate Professor) is Director of the Center for Drug Policy. He received his B.S. degree in pharmacy from the State University of New York at Buffalo, and his M.S. degree in pharmacy administration from UW-Madison. He completed residency training in pharmacy practice and pharmacy administration at the University of Wisconsin Hospital and Clinics, and has served a fellowship in medical technology assessment at the University Hospital Consortium. His research focuses on drug policy development and clinical decision making, with an emphasis on clinical economics, outcome evaluations, the validation and use of quality-of-life and functional status measures, the development of practice guidelines and the measurement of the impact of practice guidelines on patient care

Residency Faculty – School of Pharmacy

Ronald Sorkness (Associate Professor and Associate Scientist in Medicine) received his B.S., M.S, and Ph.D. from the University of Wisconsin. His clinical interests are in critical care and pulmonary disease. His research focuses on the mechanisms of hyper-responsive airway disease and virus-induced airway dysfunction. He has been teaching at the UW School of Pharmacy since 1977, and he is a member of ASHP, PSW, Rho Chi, American Physiological Society, American Thoracic Society, and the American Association for the Advancement for Science.

Madison, Wisconsin

Madison is a thriving city of 250,000 situated in south central Wisconsin. It combines the friendly atmosphere of a university town with the appeal of a big city, including sporting events, art festivals, farmers' markets, and cultural activities. Madison is only a short distance from lakes, parks, state and national forests, and larger cities such as Chicago and Milwaukee. Publications such as *USA Today*, *Money Magazine*, *Outside*, and *U.S. News and World Report* have rated Madison as one of the finest cities in the country in which to live and work.

The University of Wisconsin-Madison, with 45,000 students, is one of the largest and most diverse universities in the country. The campus is situated on the shores of Lake Mendota, within walking distance of the State Capital. There are 26 libraries throughout the campus. The Wisconsin Badgers, of the Big Ten Conference, offer major-college football, basketball, volleyball, hockey, crew, and many other sports.



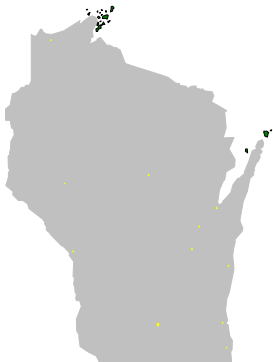
There are 13 beaches and over 150 parks throughout the city. Some of the more popular city attractions include the Henry Vilas Zoo, Olbrich Botanical Gardens, and the UW-Madison Arboretum, with 1200 acres of natural forests, prairies and orchards. There are four lakes, with over 18,000 acres of lake surface for sailing, swimming, fishing, and water skiing. Many major streets have bike lanes to accommodate citizens and students who ride bicycles. On Saturdays in spring through fall, the Farmers' Market takes place on the sidewalks surrounding the capital. With hundreds of vendors, it is one of the largest such markets in the country.

There are several museums and playhouses throughout the Madison area, including the Elvehjem Art Museum, Madison Children's Museum, Museum of Natural History, Madison Art Center, Overture Center, and the Isthmus Playhouse. The Memorial Union, on the UW-Madison campus, plays host to various events as well. The Dane County Coliseum plays host to fairs, sporting events, and concerts year round. The Monona Terrace, a Frank Lloyd Wright design overlooking Lake Monona, is a 250,000 square foot meeting facility. The annual Art Fair on the Square draws over 100,000 visitors each year.

Madison is within driving distance of many attractions. An hour's drive north is the famous Wisconsin Dells recreation area and the Circus World Museum in Baraboo. To the northeast is Green Bay, home of the Green Bay Packers football team, and Door County, with its old-style charm and bed-and-breakfast inns. One hour to the east on I-94 is Milwaukee, home of Miller Brewing Company and the Brewers baseball club and Bucks basketball. Chicago is only 2½ hours southeast on I-90, and Minneapolis-St. Paul is 4 hours west on I-94.

More information about Madison can be found on the following websites:

- madison.com
- madisonmag.com
- visitmadison.com
- greatermadisonchamber.com
- wisc.edu
- insiders.com



How Do I Apply?

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

1. Have completed a pharmacy practice residency by July 1, 2009
2. 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.
3. Complete an online application:
 - e. Go to our website at www.uwhealth.org/careers
 - f. Search for jobs at University of Wisconsin Hospital and Clinics UWHC
 - g. Apply for job ID 97150
 - h. 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.
4. Submit an application packet by January 15th containing the following:
 - Letter of intent. Include the following in your letter:
 - Why do you want to complete a critical care residency?
 - Why do you want to complete a critical care residency at UW Hospital and Clinics?
 - UWHC Critical Care Residency Application (attached)
 - Curriculum vitae

Mail application packets to:

Jenny Lendborg
University of Wisconsin Hospital and Clinics
Department of Pharmacy
600 Highland Avenue, F6/133
Madison, WI 53792-1530

5. The three persons you select as references should mail their recommendation forms (attached) directly to Jenny Lendborg at the address listed above.
6. Request a copy of your official pharmacy school transcripts; have them sent directly to Jenny Lendborg at the address listed above.
7. Once your complete application packet is received, you will be contacted by the department secretary to set up an interview. You may also contact the critical care program director, Jeff Fish, at (608) 263-1290 or jfish@uwhealth.org with any questions about the interview or the program.

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

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