Department of Veterans Affairs

VISN 15 Heartland Network (Kansas City, Mo)

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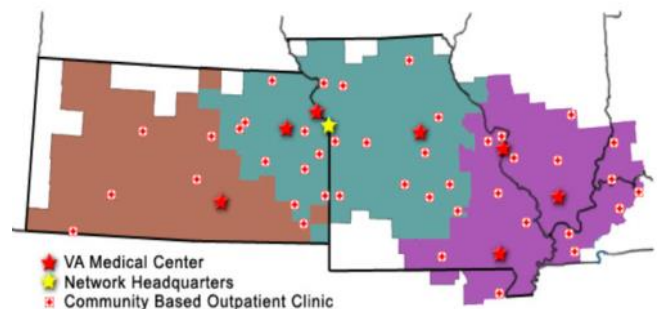**Accredited**

Post Graduate-Year 2 (PGY2)

Pharmacy Outcomes and Healthcare Analytics Residency

Healthcare evidence integration and data analytics are evolving areas within the healthcare industry. As the prevalence of electronic health records, integration of health systems, and emphasis on business intelligence increases as well as the need to monitor health outcomes, the demand for clinically competent healthcare pharmacy benefits managers and data analysts will become greater. The VA Heartland Network (VISN 15) PGY2 Pharmacy Outcomes and Healthcare Analytics Residency Program will help to meet this demand through its innovative approach to training and education. This PGY2 program is designed to develop accountability, practice patterns, habits, and expert knowledge, skills attitudes and abilities to meet the needs of this advanced area of pharmacy practice.

The purpose of the VA Heartland Network (VISN 15) PGY2 Pharmacy Outcomes and Healthcare Analytics Residency Program is to develop clinically proficient pharmacy benefits managers who will improve the quality and outcomes of patient care services through the integration of evidence-based medicine, formulary management, outcomes analysis, and process improvement. The resident will gain advanced skills in information technology, informatics, and data analysis to ensure success in pharmacy benefits management in integrated health systems. While special emphasis is placed on developing residents for VA careers, the residency will encourage each resident's intellectual and personal development and foster the development of lifelong learners committed to advancing the profession of pharmacy.

VA Heartland (VISN 15) Network

The VA Heartland Network is the regional unit that directs activities for Veteran Integrated Service Network (VISN) 15. The VA Heartland Network is one of 18 VISNs in the Veterans Health Administration (VHA). It is composed of seven integrated healthcare systems that include 9 medical centers (all provide ambulatory care services), 56 community-based outpatient clinics (CBOCs), 7 long-term care facilities, and numerous specialized services. The VA Heartland Network

★ VA Medical Center
★ Network Headquarters
⊞ Community Based Outpatient Clinic

spans a geographic area of 162,207 square miles across Kansas and Missouri, as well as parts of Illinois, Indiana, Kentucky and Arkansas. VISN 15 provides health care services to over 275,000 Veterans annually and

has an annual operating budget of $2 billion with 11,000 employees. VA Heartland Network is one of the only VA networks in the country to be endorsed by the National Committee for Quality Assurance (NCQA).

VA Heartland Network 15 Pharmacy Benefits Management

Mission:

"To improve the quality and provision of healthcare to veterans by leveraging best practice outcomes, health analytics, and optimal use of medications."

Vision:

We will build and enhance relationships and collaborations with all members of the healthcare team.

We will control costs to the best of our ability while maximizing the value of medications for our veterans.

We will utilize the most evidence-based biomedical literature to improve veteran outcomes.

We will promote quality measures and metrics to hold ourselves accountable for the care we provide.

We will advance the use of innovative data technologies to ensure safe and optimal care is being consistently provided to our veterans.

PGY-2 Program Vision and Purpose

The PGY2 residency in pharmacy outcomes and healthcare analytics builds upon PGY1 residency graduates' patient-care competence, clinical foundation, and overall knowledge of pharmacy operations to prepare residents to assume high level, multifaceted careers in a variety of healthcare settings. The residency promotes the integration of evidence-based medicine, outcomes measurement, and process improvement with information technology, informatics, and data analysis to inform decisions surrounding pharmaceutical products and services. Throughout the program, residents will develop proficiency in applied pharmacoeconomics, data analytics, and population level health improvement. Residents enjoy frequent collaboration with staff VISN-wide, such as pharmacoeconomic pharmacists, clinical program coordinators, clinical pharmacy specialists, PACT teams, and specialty providers who provide evidence-based care to our veterans. They will assist in establishing multi-facility metrics/monitors and will lead, facilitate, and collaborate with active taskforces, committees, and regional health care teams comprised of interdisciplinary experts.

The Outcomes:

1. Demonstrate effective leadership and practice management skills in the areas of administration, analytics, informatics, and outcomes.
2. Optimize patient outcomes through the provision of evidence-based, patient-centered therapy and fostering effective decision support as an integral part of interdisciplinary healthcare teams. Provide medication and practice-related information, education, and/or training
3. Serve as an authoritative resource on the optimal use and development of analysis tools, formulary management, and pharmacy outcomes.
4. Demonstrate excellence in the provision of training and educational activities for health care professionals, health care professionals in training, and the public.
5. Demonstrate the technical skills essential to the role of a pharmacist specializing in pharmacy outcomes and healthcare analytics.
6. Understand a pharmacy benefits management structure and contribute to the organization's formulary management.
7. Contribute to the body of pharmacotherapy knowledge by conducting outcomes-based research or quality improvement projects with the assistance of analysis tools.

Core Rotation Experiences

The residents are scheduled for experiences throughout the year in order to allow for learning in various areas. Most of the learning experiences during this PGY-2 residency are longitudinal in structure. To successfully complete the program, the resident will be expected to achieve proficiency in the 21 required critical objectives and 'Satisfactory Progress' rating on non-critical required objectives

The core rotations will be in the areas of:

♦ **Data Management and Analytics**

♦ **Pharmacoeconomics and Health Outcomes**

♦ **Pharmacy Practice Foundation, Service, and Policy Development**

♦ **Clinical Research Project**

♦ **Population Management**

♦ **Academic Detailing**

Data Management and Analytics

The resident will develop data skills ranging from advanced Excel analytics, data extraction from multiple sources, to creating and maintaining population health management dashboards and reports. Knowledge and applied use of query languages will be taught and developed for interacting with relational databases. Resident will become proficient in advanced Excel functions, including, but not limited to writing functions with various commands and creating pivot tables to analyze data. The resident will also learn to work proficiently in business intelligence (BI) platforms (ProClarity and Pyramid Analytics). The resident upon graduation from the program will have an overall understanding of the VA health data repository enterprise architecture data warehouse structure applied to VISN 15. This will include specialized knowledge of use of BI platforms, col-

laborative development environments, digital report development and maintenance, and formulating, executing, and revising plans and coding
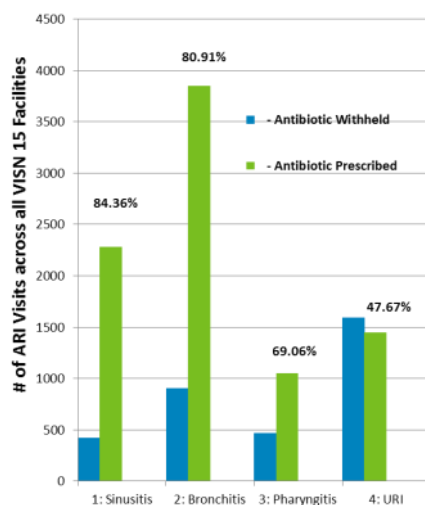
procedures for database searches using SQL.

	# of Patients NOT on a Statin by Indication						% of Patients ON on a Statin by Indication	
	Total	ASCVD History	High LDL	DM + (HTN or Tobacco)	High 10 Year Risk (>12%)	Moderate 10 year Risk	ASCVD History	DM + (HTN or Tobacco)
⊞ Medical Center #1	8729	1456	244	1951	6125	1805	75.6%	71%
⊞ Medical Center #2	6899	1195	190	1734	4652	1548	71.4%	65.5%
⊟ Medical Center #3	7867	1475	262	1953	4982	1723	73.4%	69.1%
⊞ Clinic #1	399	82	6	108	261	77	75.9%	71.1%
⊞ Clinic #2	217	37	9	62	150	35	79.9%	70.3%
⊞ Clinic #3	475	87	23	97	318	92	73%	67.3%
⊞ Clinic #4	130	19	3	23	93	20	74.3%	75%
⊞ Clinic #5	430	91	26	100	296	74	72%	70.3%
⊞ Clinic #6	261	50	10	81	173	44	77.3%	66.4%
⊟ Clinic #7	5401	983	163	1346	3340	1286	72.6%	68.8%
Provider #1	1	0	0	0	1	0	100%	100%
Provider #2	50	3	4	8	8	33	25%	46.7%
Provider #3	12	0	1	0	5	6	100%	100%
Provider #4	224	48	4	55	145	48	66.7%	70.6%
Provider #5	278	44	5	67	193	57	67.4%	59.9%

Pharmacoeconomics, Health Outcomes, and Formulary Management

The resident will develop skills, values and abilities in the practical application of pharmacoeconomic principles to the VA healthcare environment and in research design and methodologies to assess pharmaceutical-related economic, clinical, and humanistic health outcomes. The resident will also de-

Pharmacy Location	# Total Patients	Reduced Renal Function	Critical Drug Interaction	Over 75 and Not on Apixaban	Hgb/PLT/Scr >1 Year Old	Valve Replacement	Abnormal Hgb/PLT /LFTs	Long-Term High Dose Apixaban for PE/DVT	> Two Weeks Late for Refill	BMI > 40 or Wt. > 120 kg or Wt. < 50 kg
Medical Center #1	489	25	2	87	17	4	34	3	42	100
Medical Center #2	733	32	3	112	13	7	55	4	75	134
Medical Center #3	640	4	0	23	25	0	31	3	85	119
Medical Center #4	331	13	0	66	19	0	28	2	26	71
Medical Center #5	568	41	2	161	83	2	55	4	77	88
Medical Center #6	485	8	7	114	2	0	25	4	32	67
Medical Center #7	340	16	1	61	8	0	29	0	33	66
Medical Center #8	625	28	1	36	32	5	56	6	66	123
Total	4211	167	16	660	199	18	313	26	436	768

velop the knowledge, skills, values and abilities necessary to assist in creating and maintaining Drug Usage Criteria, improving procurement, contract compliance, and inventory control activities to achieve maximum savings and data accuracy. The resident will be exposed to the concepts of managed care systems through their involvement in all aspects of VISN formulary management. The resident will understand the complete cycle of formulary development from decision making, to contracting, and finally procurement. In

addition, the resident will gain the necessary experience to better understand legislative and regulatory effects on the delivery of the VHA prescription benefits to veterans. The resident will focus on developing initiatives to address population health management gaps in care and solutions to fill gaps with interventions by clinical pharmacy specialists. The resident will be assigned tasks and will work with a variety of VISN employees in diverse areas to accomplish tasks for this learning experience.

Pharmacy Practice Leadership, Foundation, Service, and Policy Development

The resident is fully integrated into the VISN 15 PBM work unit, contributes to the development and achievement of pharmacy goals at the local, VISN, and Nation levels, and applies key principles of leadership to improve practice within the health system.

This is an extended learning experience that begins after orientation and continues throughout the residency. This experience is designed to expose the resident to leadership nomenclature, key principles, tools, and available resources that will assist them in growing as clinicians, practitioners, and leaders. Topics may include mission/vision statements, strategic plans, effective communication, networking, mentoring, clinical leadership, leadership strategies, available resources/opportunities, regulatory bodies, finances, medication safety, organizations, the importance of publishing, and various programs/activities designed to develop the resident's pharmacy practice/leadership foundation.

Clinical Research Project

This learning experience is designed to develop, execute, and report results of investigations of pharmacy practice-related issues. The resident will be responsible for obtaining experience in all areas of a research or quality improvement project including development of a hypothesis, submission of a project proposal, application to IRB (for research approval or classification as a QI), data collection, data analysis, drawing conclusions, and manuscript presentation. The resident will work with the RPD and one or more preceptors throughout the project life cycle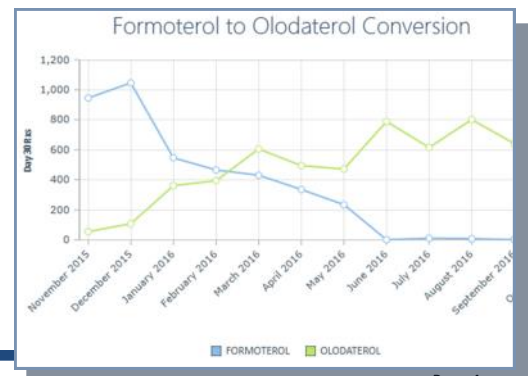 who will assist in coordinating project deadlines and IRB approval. Residents will be encouraged to conduct outcomes-based research or quality improvement projects, preferably incorporating the skills learned from other rotations and building a new analysis tool that will assist in the data mining component of the project. In addition to the manuscript, residents are required to present a project poster at the annual Midwest Pharmacy Residents Conference or other conference approved by preceptors.

Formulary and Utilization Management (Medical Center Experience)

This is an extended learning experience ½ day/week throughout the year. The resident will be working with the VISN 15 Formulary Management Workgroup, VISN Pharmacy & Therapeutics Committee, and Kansas City VA (KCVA) Pharmacy Service to improve quality and value of medication therapies through appropriate formulary and utilization management techniques. The resident will develop the knowledge, skills, values and abilities necessary to render prior authorization decisions, improve procurement, contract compliance, and inventory control activities to achieve maximum savings and data accuracy. Several standing committees and many practitioners are involved with the work of developing, modifying, and maintaining the VA National Formulary. In addition, both **VISNs** and **medical facilities** are responsible for adherence to VHA Drug Use Criteria and clinical guidelines. Pharmacy services at the VISN and facility levels implement national formulary and utilization management decisions. Medical facilities review their unique services and processes to render decisions through local Pharmacy & Therapeutics Committees to promote high reliability organizations centered on patient safety. The purpose of the rotation is to prepare the resident to take on the role of a formulary manager at both the local and VISN levels. The resident will apply knowledge of the VHA drug benefit and market trends to design analyses to track cost savings, cost avoidance,

Academic Detailing

The purpose of the Academic Detailing experience is to introduce the pharmacy resident to the skills and techniques of Academic Detailing and to allow them to practice the skill.

The Academic Detailer is responsible for providing Academic Detailing to staff based on national and VISN initiatives. Academic Detailing involves reviewing and learning evidence-based medicine, developing and/or promoting educational pieces that include key messages, providing Academic Detailing outreach visits to VA staff, identifying and resolving barriers, and socializing new Academic Detailing campaigns.

Additional Skills Development

- ◆ Healthcare Analytics Certificate Program
- ◆ Pharmacy Teaching Certificate through the University of Missouri—Kansas City
- ◆ Didactic Teaching and Student Preceptorship
- ◆ Academic Detailing Basic Skills Training
- ◆ Lean Yellow Belt Certification
- ◆ Board Certification Review Sessions and Study Groups

Meet The Program

Monica Schaefer, PharmD
Residency Program Director
VISN 15 Pharmacoeconomics Program Manager
Monica.Schaefer@va.gov
Primary Preceptor for:
Pharmacoeconomics and Formulary Management, Pharmacy Foundation and Leadership

Veronica Fassio, PharmD (not pictured)
Clinical Pharmacy Specialist, Formulary Management, Pharmacoeconomics
Kansas City VA Medical Center
Veronica.Fassio@va.gov
Primary Preceptor for:
Academic Detailing

Patrick Spoutz, PharmD, BCPS
Kansas City VA Pain and Population Health Clinical Pharmacist and graduate of the program
Patrick.Spoutz@va.gov
Primary Preceptor for:
Data Management and Analytics

Kimberly Schaffer, PharmD
Pharmacoeconomics Facility Program Manager
Kansas City VA Medical Center
Kimberly.Schaffer@va.gov
Primary Preceptor for:
Formulary and Utilization Management (Medical Center Site)

Mark Patterson, PhD, MPH
Assistant Professor of Pharmacy Practice & Administration at the University of Missouri - Kansas City School of Pharmacy
Pattersonmar@umkc.edu
Primary Preceptor for: Clinical Research Project

Chris Sedgwick, PharmD, BCPS
Pharmacy Informatics Clinical Pharmacy Specialist and graduate of the program
Christopher.Sedgwick@va.gov
Co-Preceptor for: Data Management and Analytics

Department of Veterans Affairs

VA Heartland (VISN 15) Network

"Maximum Veteran Benefit"

1201 Walnut St. Suite #800
Kansas City, MO 64106

Primary Contact:
Phone: 816-701-3000 or 3011
Fax: 816-221-0930
E-mail: Monica.Schaefer@va.gov

Positions Available:
One (1) PGY2 Resident

National Match ID#: 697481

All application and supplemental materials should be submitted via the PhorCAS system:
http://www.ashp.org/phorcas

Application forms OF306 and 10-2850d can be found at:
http://www.va.gov/oaa/app-forms.asp

Application must be submitted by:

January 12, 2018

Candidates will be ranked according to the National Match Program. This residency site agrees that no person at this site will solicit, accept, or use any ranking-related information from any residency applicant. Information about registering for the Match can be found at: www.natmatch.com/ashprmp

Program Website:

http://www.visn15.va.gov/services/V15_Pharmacy_Residency_Program.asp

Benefits:
♦ Competitive stipend: $44,651
♦ Eligible for medical and life insurance as a VA employee
♦ Thirteen (13) days each of annual leave and sick leave, ten (10) paid federal holidays
♦ Teaching certificate, Health Analytics Certification Course, Academic Detailing Basic Skills training

Qualifications:
♦ United States citizen
♦ Graduated from an ACPE accredited school of pharmacy with a Doctor of Pharmacy degree
♦ Possess a valid US pharmacist license
♦ Complete a first-year pharmacy practice residency or equivalent experience

Application:
♦ Letter of Intent
♦ Curriculum Vitae
♦ Three (3) professional letters of references
♦ OF 306 – Declaration for Federal Employment
♦ Application for Health Professions Trainees VA Form 10-2850d
♦ Official College of Pharmacy Transcript(s)

VA Heartland (VISN15) Network Office

The PGY2 Pharmacy Outcomes and Healthcare Analytics Residency is located at the VA Heartland Network (VISN 15) Executive offices at 1201 Walnut Street in downtown Kansas City, MO. The building is located in the central business district. Renowned restaurants, lounges and shops intertwine with chic lofts and the city's core business community, all within an eight-block area. A unique system of covered walkways connects 1201 Walnut with buildings spanning more than six city blocks. This climate-controlled environment provides a pleasant walk, regardless of the weather. In addition, access to the building's attached parking garage is provided so there is no need to worry about finding a parking space. Free access to the property's fitness center is also provided.