What role should pharmacists play in the evolving concept of the patient-centered medical home? It’s a question that seems to be on the minds of most pharmacy leaders these days. With both federal and state policy placing an emphasis on this model, pharmacists must define how their expertise in medication management and medication use systems will contribute uniquely to practices that adopt the principles of the medical home. I anticipate that this is a frequent topic of conversation within the practices of our program alumni. It certainly has been a focus within the residency program over the past year.

Nearly all of the organizations affiliated with our residency program are hard at work implementing medical home initiatives. As part of a state grant, East Side Family Clinic has been targeting patients at high-risk for hospital admission through an interprofessional coordinated care initiative. Pharmacists with the Fairview Health System have been contributing to care model redesign efforts and working towards Fairview’s recognition as an Accountable Care Organization (ACO). The pharmacy department at the St. Cloud VA is in the midst of planning for service changes that will coincide
From the Director, continued.

with continued expansion of the medical home across the entire VA system. This is just a sampling of activities occurring across our affiliated sites—activities that are creating outstanding learning experiences for our residents.

We have also focused on the medical home through our Academic Day activities. In September, we were fortunate to have Dr. Linda Strand share her experience working with the Patient-Centered Primary Care Collaborative, a group that has prepared a resource guide on integrating medication management in to the patient-centered medical home. In October, residents heard from Dr. Gordon Harvieux, a physician working to integrate medical home practices with pediatric care services provided by the Essentia Health System in Duluth. Our residents have been enthusiastic about their experience interacting with these medical home leaders.

Through these activities, preceptors in our program are being recognized for their successes. Amanda Brummel, Chrystian Pereira and Steve Simenson have all recently participated as speakers in state or national programs addressing medication management in the medical home. It’s exciting to see our preceptors recognized within the profession for their expertise and leadership in this area.

Developing knowledge and skills in practice management is a critical element of a pharmacy resident’s experience. We have always strived to link important national issues that are influencing practice in ambulatory care settings to the experience residents gain at their respective training sites. The medical home movement is certainly one of the most noteworthy issues facing health care today. I am delighted that we have been able to immerse our residents in this topic through several different types of learning experiences. This is but one of many examples we can cite highlighting the value we gain from a multi-site residency model that connects the College of Pharmacy to organizations on the leading edge of pharmacy practice.

All the best,

Todd D. Sorensen, Pharm.D.

Associate Professor and Associate Head
Department of Pharmaceutical Care and Health Systems
College of Pharmacy
University of Minnesota
soren042@umn.edu

2009-2010 Residents:
Where are they now?

Daniel Aistrope – Assistant Professor, University of Kansas-City, Columbia Campus, Columbus, MO
Magdi Awad – Assistant Professor, Northeastern Ohio Universities College of Medicine and Pharmacy, Rootstown, OH
Jessica Bruns – Staff Pharmacist, VA Medical Center, St. Cloud, MN
Jenna Buskohl Nasset – Staff Pharmacist, VA Medical Center, Minneapolis, MN
Allison Close – Manager, Target Pharmacy, Owatonna, MN
Amy Edge – MTM Pharmacist, Coborns, Glencoe, MN
Drew Klinkebiel – Clinical Pharmacist, Siouxland Community Health Center, Sioux City, IA
Kajua Betsy Lor – Assistant Professor, College of Pharmacy, Touro University, Vallejo, CA
Heather Maracle – MTM Practitioner, Fairview Pharmacy Services, Maple Grove, MN
Jennifer Nickell – Staff Pharmacist, Fairview Pharmacy Services, Minneapolis, MN
Adele Reichel – MTM Practitioner, Fairview Pharmacy Services, Minneapolis, MN
Sean Stewart – Assistant Professor, Concordia College of Wisconsin, Milwaukee, WI
Katharine Scheidt – Pharmacy Manager, Riverwood Healthcare, Aitkin, MN
Sarah Schweiss – Assistant Professor, University of Minnesota College of Pharmacy, Duluth, MN
FirstLight Health System, (formerly Kanabec Hospital and Allina Clinic), in Mora, Minn., offers a unique opportunity for residency experiences in both ambulatory and acute care in a progressive rural health system. Brent Thompson, Pharmacy Director, and Patty Lind, Residency Site Coordinator, have led the work of establishing outstanding pharmacy services that serve this rural community of 3,000 residents. The pharmacy staff also includes Jenny Houglum, Nick Giller, and Kati Dvorak (a 2009 graduate of the College’s residency program).

Kanabec Hospital was the first Critical Access Hospital in the United States to reach stage 6 designation by the Healthcare Information and Management Systems Society (HIMSS) for excellence in electronic medical records and is the highest staged hospital in Minnesota. Ten years ago the hospital had few computers, technology was virtually non-existent and what did exist was primarily billing systems. Today, all areas of the hospital have been converted to an electronic platform. Virtually everything is handled electronically, including physician order entry, laboratory reporting, patient care documentation, electronic medication administration, bedside bar code administration, smart pumps and interfaced inventory management. Automatic dispensing cabinets are interfaced through the hospital and are tied to medication profiles. Electronic clinical order sets are now incorporated into practice to advance the level of evidence based medicine, improve patient safety and minimize medication errors.

System-wide collaboration with pharmacists is invaluable to the growth of services. The hospital has earned Minnesota Hospital Association (MHA) Patient Safety Excellence Awards for various patient safety initiatives. Pharmacists participate in hospital committees such as infection prevention, fall prevention, IV, IT, obstetrics, and the newly formed Rural Palliative Care Development project. Pharmacists also provide education to hospital staff, physicians and nurses, and mentor and precept pharmacy interns and high school students interested in a health career.
Kanabec Hospital, continued.
In the acute care setting, pharmacists lead clinical initiatives in antibiotic stewardship, anticoagulation monitoring, oncology, and renal dosing. They also participate on an interprofessional discharge planning team and lead the medication reconciliation process. This includes conducting bedside interviews to evaluate home medication regimens and discussing discharge medications. With these programs well-established, the group is focusing on delivering medication therapy management services in the primary care clinic. Through this effort, the team is seeking to enhance continuity of care by establishing outpatient MTM visits for patients recently discharged from the hospital.

FirstLight Health System’s pharmacy services have grown immensely in the last 10 years. Since this time, they have grown and matured from a dispensing pharmacy to one where staff are empowered as direct patient care advocates and are actively engaged in new initiatives throughout the organization.

Site Profile: Fairview Pharmacy Services

Fairview Health Services, in partnership with the University of Minnesota, consists of 7 hospitals and 48 primary care clinics located throughout the state of Minnesota. Fairview Pharmacy Services, a subsidiary of Fairview Health Services, started developing MTM sites in 1997. Fairview Pharmacy Services currently has 17 pharmacists and two pharmacy residents providing MTM services in 22 ambulatory care clinics. All of the MTM pharmacists at Fairview Pharmacy Services practice under the philosophy and patient care process of pharmaceutical care. MTM pharmacists within Fairview Pharmacy Services practice under collaborative practice agreements that allows them to initiate, modify, or discontinue drug therapy and order laboratory tests for multiple medical conditions.

Fairview Pharmacy Services became a University of Minnesota Ambulatory Care Residency site during 2005-2006. Three of their four residents have remained employed with Fairview Pharmacy Services (see below).

<table>
<thead>
<tr>
<th>Name</th>
<th>Residency Year</th>
<th>Current Practice Site</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kelly Schweim</td>
<td>2005-2006</td>
<td>University of Minnesota Primary Care Center</td>
</tr>
<tr>
<td>Allyson Schliechte</td>
<td>2006-2007</td>
<td>Fairview Uptown Clinic / Fairview MTM Program Supervisor</td>
</tr>
<tr>
<td>Mark Abdel-Malak</td>
<td>2008-2009</td>
<td>Ontario Pharmacists Association</td>
</tr>
<tr>
<td>Heather Maracle</td>
<td>2009-2010</td>
<td>Fairview Pharmacy Services</td>
</tr>
</tbody>
</table>

The Medication Therapy Management Resident for Fairview Pharmacy Services is involved in many exciting opportunities. The resident spends two days each week at the Fairview Crosstown Clinic and one day a week at the Fairview Uptown Clinic providing MTM services. The resident also spends one day each week providing MTM services to home-bound senior citizens who take multiple medications and one day a week participating in management activities associated with running a large MTM program. The remainder of the resident’s time is spent working with pharmacy students, providing medication safety information to patient groups, working on their residency project, and working to expand MTM services provided in the community.
Meet Our Residents, 2010-2011

Kassy Bartelme, Pharm.D.
Pharmaceutical Care Leadership (Year 2)
Sites: Hennepin County Medical Center-Brooklyn Center Clinic

Kassy Bartelme received her Doctor of Pharmacy degree from the University of Minnesota-Twin Cities in May 2009. In her second year of residency, Kassy splits her time between practicing in a clinic and teaching at the College of Pharmacy. She is currently starting a pharmaceutical care practice at HCMC-Brooklyn Center Clinic and enjoys serving a diverse patient population alongside a variety of family medicine physicians, internists, specialists, nurse practitioners and midwives. After completing the two year residency, Kassy would like to hold a practice faculty position at a college or school of pharmacy where she is able to both care for patients in an ambulatory care clinic and provide didactic education to pharmacy students.

Molly Branaugh, Pharm.D.
St. Cloud VA Medical Center

Molly received her Doctor of Pharmacy from South Dakota State University College of Pharmacy in May 2010. Molly is currently a resident at the VA Medical Center in St. Cloud, MN. At her practice site, she works with veterans in the primary care clinics and is directly involved in the therapeutic decisions surrounding their care. In the future, Molly hopes to continue working with veterans in the ambulatory care setting of the VA health system. She hopes to increase awareness of the benefits of lifestyle changes in improving general health and wellness, as well as preventing and improving management of chronic diseases.

Andrew Bzowyckyj, Pharm.D.
Pharmaceutical Care Leadership (Year 2)
Site: Unity Hospital

Andrew Bzowyckyj graduated with his Pharm.D. from the University of Connecticut School of Pharmacy in 2009. Andrew is currently in the second year of the University of Minnesota’s two-year Pharmaceutical Care Leadership Program. His current role has him located at Unity Hospital in Fridley, MN for part of the week balanced with working at the University of Minnesota - College of Pharmacy for the other part. After completing residency, Andrew plans to pursue a career in academia while providing clinical pharmacy services at an ambulatory care practice site. He also plans to pursue further studies and/or experiences in healthcare policy in order to continue advancing the profession and the overall health care quality patients receive forward.

Jennifer Chen, Pharm.D.
Site: St. Mary’s Duluth Clinic

Jennifer Chen received her Doctor of Pharmacy degree from The Ohio State University College of Pharmacy in June of 2010. Jen is a pharmaceutical care resident at St. Mary’s Duluth Clinic. She provides medication therapy management services to patients in the internal medicine department, where she works with a great team of physicians, nurses, and assistants to manage chronic conditions. Jen also serves on the Hospice Care Team, helps precept pharmacy students on APPEs, delivers CME presentations to clinic providers, and instructs pharmacy students in the pharmaceutical care learning center at the UMD College of Pharmacy. After her residency, Jen plans to seek a career in academia and in a clinical ambulatory care practice where she can precept pharmacy students.

Amy Engelhart, Pharm. D.
Site: St. Cloud VA Medical Center

Amy Engelhart graduated with her Doctor of Pharmacy degree from South Dakota State University in May 2010. Amy is currently one of the Pharmaceutical Care residents at the VA Medical Center in St. Cloud, Minn. At her practice site, she works directly with Veterans in the primary care clinics and is directly involved in the decision making for their care. Amy is excited to work with the Veterans while expanding on her clinical pharmacy knowledge and skills. In the future, she plans to continue in an ambulatory care setting as a clinical pharmacist working to prevent and improve management of chronic diseases.
Jonica Hazaert, Pharm.D.
Site: Fairview Pharmacy Services with Genetics and Rare Diseases Specialty

Jonica Hazaert is a 2010 graduate from the University of Minnesota – Duluth College of Pharmacy. Jonica is currently in the first year of a two year residency program focusing on the pharmacotherapy and pharmacogenetics of inherited metabolic diseases. During the first year she is spending two and a half days a week in the University of Minnesota Primary Care Center working in a general medication therapy management (MTM) practice. One day a week is spent in the Advanced Therapies clinic at the University of Minnesota working with patients who have inborn errors of metabolism. The second year of the residency program focuses heavily on research and working in the Advanced Therapies clinic. After residency, Jonica would like to provide MTM services and continue her research in inherited metabolic diseases.

Alison Knutson, Pharm.D.
Pharmaceutical Care Leadership (Year 1)
Site: Smiley’s Family Medicine Clinic

Alison Knutson graduated from the University of Minnesota College of Pharmacy, Twin Cities Campus with her PharmD in May of 2010. Alison is in her first year of the University of Minnesota’s two-year Pharmaceutical Care Leadership Residency Program. Her clinical practice is at Smiley’s Clinic in Minneapolis. At Smiley’s, Alison works closely with an inter-professional team to provide pharmacy services including medication reconciliation and medication therapy management. After completion of the Pharmaceutical Care Leadership Residency, Alison’s career goals include holding a practice faculty position allowing a career in academia and ambulatory care practice.

Amanda Pasche, Pharm.D.
Site: Goodrich Pharmacies

Amanda Pasche earned her Doctor of Pharmacy degree from Creighton University in Omaha, Nebraska in May 2010. Amanda is currently the resident at the Goodrich Pharmacy site in Anoka, Minn. She splits her time between seeing patients in the pharmacy and at the clinic next to the pharmacy. She sees patients for MTM visits, is involved in planning various flu clinics at the pharmacy, monitors chronic disease states through the use of collaborative practice agreements, does quarterly chart reviews for a local group home and helps precept pharmacy students. After her residency, Amanda plans to pursue a pharmacy career that involves providing pharmaceutical care to patients to help improve patient outcomes.

Jenny Rivera, Pharm.D.
Site: Westside Community Health Services

Jenny received her Doctor of Pharmacy degree from the University of Minnesota College of Pharmacy in May 2010. Jenny is currently a pharmaceutical care resident at La Clinica, the largest clinic in the West Side Community Health Services Organization. Her main responsibilities include providing medication therapy management and anticoagulation services to the clinic’s underserved, diverse population. Jenny works with clinic staff to manage chronic disease states such as diabetes, hypertension, asthma and dyslipidemia through collaborative practice agreements. She looks forward to helping develop and implement diabetes group visits. After finishing her residency, Jenny hopes to continue practicing pharmaceutical care in an ambulatory care clinic with a diverse, underserved population.
Heidi Schultz, Pharm.D.
Site: Fairview Pharmacy Services, LLC.

Heidi Schultz received her Doctor of Pharmacy degree from the University of Minnesota, Duluth campus in May of 2010. As the Medication Therapy Management Resident for Fairview Pharmacy Services, Heidi is involved in many exciting opportunities. She spends two days each week at the Fairview Crosstown Clinic and one day each week at the Fairview Uptown Clinic working with patients and their physicians by providing Medication Therapy Management services. Heidi also spends one to two days each week doing home visits with home-bound senior citizens who take multiple medications. After completing her residency, Heidi would like to continue to practice Medication Therapy Management in the ambulatory care setting.

Mariette Sourial, Pharm.D.
Site: Kanabec Hospital

Mariette Sourial graduated with her Doctor of Pharmacy from the Albany College of Pharmacy and Health Sciences in May of 2010. Her rural site is a unique experience because it encompasses both acute care and ambulatory care pharmacy. She is currently continuing to build up the MTM clinic that past residents have created and plans to expand it to include chronic disease management, immunizations and women’s health. She also anticipates working with local pharmacies to refer target patients and establish funding for MTM services. In the future, Mariette would like to be an Ambulatory Care Pharmacist with a focus in Women’s Health and Chronic Kidney Disease as well as be associated with a College of Pharmacy (clinical professor).

Mary Jo Vierkant, Pharm.D.
Site: Westside Community Health Services

Mary Jo Vierkant is a 2010 Doctor of Pharmacy graduate of the University of Minnesota College of Pharmacy. As the pharmaceutical care resident at Eastside Family Clinic, Mary Jo will provide medication therapy management and anti-coagulation services to an under-served, diverse population. Mary Jo works aside physicians, nurses, support staff, and interpreters providing care to help manage chronic conditions such as diabetes, hypertension, asthma, dyslipidemia, depression, anti-coagulation, and smoking cessation. After completing her residency, Mary Jo will pursue a career in clinical pharmacy most likely with an ambulatory care practice in the Twin-Cities area. She would love to enter academia and utilize her teaching gifts as well.

Maggie Wallace, Pharm.D.
Pharmaceutical Care Leadership (Year 1)
Site: University of Minnesota - Broadway Family Clinic

Maggie Wallace received her Pharm.D. from North Dakota State University in May 2010. Maggie is currently in her first year of the two-year Pharmaceutical Care Leadership Residency and spends half of her time at Broadway Family Medicine and half of her time at the College of Pharmacy. At the clinic, she enjoys working with the providers to manage chronic disease states in a diverse patient population; Maggie also precepts fourth year pharmacy students. In the future, Maggie plans to pursue a career in academia as a practice faculty, and work in the ambulatory care setting.

A Decade by the Numbers

Graduates:
Community Clinic Emphasis 42
Rural Emphasis 18
Leadership Emphasis 14

Alma Mater of Residents:
University of Minnesota 44
Non-University of Minnesota 30

Graduates currently practicing:
In Minnesota 54
Outside Minnesota 20

Current Practices of Graduates:
Health System (clinic, hospital) 35
Community Pharmacy 7
Administration 5
Other 5
Residency Program Endowment

It is through the achievements and generous support of our program alumni and friends that the residency program continues to thrive. One of the unique ways the program is supported is through our Residency Program Enhancement endowment fund. This endowment provides a flexible funding source that supports community building activities with current residents and program alumni.

The endowment was initially established with funds received from the APhA Pharmacy Services Support Center (PSSC) for clinical writing services provided by the program.

Residents originally developed (and now maintain) a series of 31 therapeutic class monographs. These reviews are made available to safety net organizations across the US via a formulary management tool managed by the PSSC. We are pleased that our program will continue to provide this service in 2011.

The endowment’s current balance is approximately $40,000, with a goal of reaching $100,000 by 2015. As you consider your charitable giving options in 2011, we would be honored if you would choose to recognize the role your residency experience has had on your professional development via a gift to the program.

You can contribute online at www.pharmacy.umn.edu, and click “Make a Gift to Pharmacy.” On the online gift form, choose college-wide support. Next to the box titled “Special Instructions for your gift,” enter Residency Program Enhancement Fund.

Thank you to our 2010 donors:
Sherry Welliver
Allyson Schlichte
Kassandra Bartelme
Daniel J. Rehrauer
Brent Thompson
Jean Y. Moon
Jennifer Lamberg
Shannon Reidt
Kelly Ruby
Upsher-Smith Laboratories

On May 21, 2010, the Ambulatory Care Residency Program celebrated its 10th anniversary at a reunion banquet held at TCF Bank Stadium on the U of M campus. Over 50 residents, preceptors and other friends of the program attended. The event celebrated the accomplishments of the program, which has partnered with over 25 organizations and graduated over 70 residents since its inception.