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PROGRAM HISTORY

Robert Knopp, MD founded the Regions Hospital Emergency Medicine Residency in 1994. Before arriving in St. Paul, he served as the residency director at Valley Medical Center in Fresno, CA for 17 years. The first class of residents at Regions began their training in 1996. Felix Ankel, MD, has been involved with the residency program since its inception and became residency director in July 2000. As of July 2011, the EM residency has graduated 108 residents from 39 medical schools who now practice in 20 states. Regions faculty are graduates of 13 different EM residencies.
Welcome to the 2011 Regions Hospital Emergency Medicine Residency annual report. I am delighted to highlight some of our residency’s accomplishments from this past year. Our activities center around our mission: to incorporate the Institute of Healthcare Improvement’s Triple Aim (quality, experience, and stewardship) into our daily practice. Our mission is guided by the Baldridge Educational Criteria for Performance Excellence (www.quality.nist.gov) and includes best practices in leadership, strategic planning, stakeholder focus, measurement, analysis, process management and results.

We salute our residents who were involved in leadership activities in 2011:

* Autumn Erwin (’11) continued her service on ACEP’s EMS Committee.
* Kara Kim (’11) co-presented “Quality: A New Academic Career” at CORD Academic Assembly and SAEM Annual Meeting. She also presented multiple posters at AAMC Integrating Quality Meeting and AIAMC Annual Meeting.
* Katie Davidson (’11) continued her work as associate medical director of the EMS Academy (www.ehs.net/emsacademy/), an intensive Emergency Medical Technician (EMT) and firefighter awareness program designed for low income youth ages 18-21.
* Clint Hawthorne (’12) continued to serve on the Board of Directors for the East Metro Medical Society.
* Kate Katzung (’12) continued her service as residency representative to the AAEM-RSA
* Tolu Oyewo (’13) serves as the resident representative of the HealthPartners IME EBAN Emergency Medicine project, focusing on healthcare disparities and ED pain management (www.ebanexperience.com).

We recruit resident applicants who extend their activities beyond clinical shifts and positively impact their environment. In 2011, residents were co-investigators on five grants and IRB-approved studies, co-authors of three peer-reviewed articles, and presenters of 10 regional and national scientific presentations.

Our residency is designed to operate as a complex adaptive system (www.plexusinstitute.org). We train our residents to manage the bridge between the rescue care of emergency medicine and the health of populations (www.improvingpopulationhealth.org). We complement the transfer of knowledge with the transfer of meaning in a connected environment with our extended residency community. Our yearly conference schedule includes an advocacy and ethics conference at the State Capitol, an institutional core competency conference, and an alumni day conference where our residents mine the wisdom of our graduates. The 2011 residency retreat focused on using web 2.0 to facilitate education, maximizing healthcare delivery education, quality program design, and integrating formalized resilience training. Residency graduates can now choose from five fellowships offered through our department and the IME: medical toxicology, peds-EM, prehospital/EMS, quality and patient safety, and international emergency medicine.

This year, we matched another competitive class of residents featured in this report. Our goal is to incorporate the highest level of professionalism and humanism into our interactions with patients and members of the healthcare team. We are grateful for the support of our many residency partners and look forward to training the emergency medicine providers of the future.
The Regions Hospital Emergency Center continues to play a critical role in emergency care throughout the Twin Cities east metro and western Wisconsin communities. This significant impact is made possible through the efforts of our dedicated staff and those we teach.

A mission of our department is to incorporate the IHI’s triple aim (quality, experience, stewardship) into our daily practice and guide our academic focus. 2011 was another productive year for our ED faculty, who continue to obtain internal and external research grants, present nationally and internationally and publish peer-reviewed manuscripts, electronic publications and book chapters. Faculty are involved in leadership activities within the hospital and community. They have major involvement in national and international specialty societies serving as academic peer reviewers, committee members, board members, an ABEM item writer, and oral board examiners. We welcomed Dr. Aaron Burnett to our faculty.

Many faculty members received recognition for their work beyond the confines of our emergency department. Felix Ankel, MD was recognized for his outstanding contribution to medical education with the 2012 Parker J. Palmer Courage to Teach award. Jessie Nelson, MD received the 2011 HealthPartners Excellence in Education award. Karen Quaday, MD received the 2011 HealthPartners Clinical Excellence in Specialty Care Award, and RJ Frascone, MD received the 2011 HealthPartners Excellence in Research award. Best research project, best clinical pathology case history presentation and analysis awards were given to our toxicology team of Sam Stellpflug, MD, Joel Holger, MD, and fellow Jon Cole, MD during the 2011 North American Academy of Clinical Toxicology conference.

Regions Hospital and HealthPartners are leaders in quality medical care. In 2011 we welcomed Kara Kim, MD (’11) as our first Quality and Patient Safety Fellow.

Drs. Kim and Drew Zinkel have been asked to present curriculum development in quality and patient safety for resident education nationally and internationally. Their interactive presentation “Quality, A New Academic Career” was presented at SAEM during the “best of CORD” session.

Our emergency center operations, nursing, crisis program, toxicology, EMS, ultrasound, simulation, sexual assault nurse examiner program, and research section continue to be strengths of our educational experience for both residents and medical students. We have a lot to be proud of in 2011. I look forward to leading the emergency department’s vision to be the center of excellence for quality emergency care, education and research in 2012.
Here at Regions, we pride ourselves on our ability to evolve as the world of medicine changes. We have made a concerted effort to involve our residents in quality and performance improvement projects, and this exposure is critical with the growing focus on quality metrics and evidence-based healthcare delivery. We also have an administrative curriculum that allows the ROD, or resident of the day, a chance to experience the administrative side of emergency medicine and the hospital as a whole. This too is critical to preparing to practice in our increasingly dynamic healthcare system.

We have expanded our educational opportunities with focused, “back to the basics” teaching at morning sign-out and by inviting more consultants to participate in Critical Case, our signature interactive teaching session during Thursday morning conference.

We are continuing the longitudinal integrated intern rotation involving anesthesia/ultrasound (affectionately known as “ultrasthesia”). We also have fantastic exposure to Toxicology, Pediatric Emergency Medicine, Quality and EMS throughout our three years of training, as our program is affiliated with fellowships in each of these areas.

We also continue to have the excellent critical care experience that is a key component of our training – through 6 weeks in the SICU every year, 1 month in the MICU 1st and 2nd year, and caring for critically ill medical and trauma patients in the ED.

And, as always, we have lots of clinical exposure and great faculty teaching in an environment that is challenging yet supportive, helping us grow to provide excellent health care to our patients in the ED and to our community.

RESIDENT SPOTLIGHT: Adetolu Oyewo, MD

Dr. Oyewo was highly recruited into our residency, and we were delighted that she matched with us in 2010. After graduating from the University of Minnesota in 2005 with a Bachelor of Science in Biochemistry, Tolu entered Mayo Medical school in 2006.

As a medical student, Dr. Oyewo distinguished herself as a leader, contributor and scholar. She served as treasurer and president of the Mayo chapter of SNMA, participated in a mission trip in Thomonde, Haiti through Project MediShare, was involved in more than 10 national scientific presentations, and was first author of four abstracts.

Dr Oyewo has continued with her leadership and service while a resident. She is a integral part of an emergency department EBAN team looking at health care disparities and acute pain management (www.ebanexperience.com). The EBAN Experience is a team-based collaborative that focuses on improving health disparities through community dialogue, experiential education and quality improvement projects.

Dr. Oyewo is also the resident member of the Regions Hospital/IME team for the Alliance of Academic Medical Centers’ (AIAMC) National Initiative III - improving patient care through medical education (www.aiamc.org/ni-overview.php). The goal of NI-III is to develop teaching leadership and change organizational culture to support quality improvement initiatives.

Dr. Oyewo returned to Haiti in November with Project Medishare at Bernard-Mevs hospital in Port-au-Prince. She will undoubtedly continue to serve her patients and community well and leave her mark nationally in addressing healthcare disparities in the emergency department. We are fortunate that she is part of the Regions family.
Michael Bond, MD  
BS - Chemical Engineering - University of Wisconsin-Madison  
MD - University of Minnesota  
Alpha Omega Alpha Honor Society  
Interests: running, swimming, biking, basketball, weightlifting, spending time with his two daughters

Jenna LeRoy, MD  
BS - Integrative Physiology - University of Iowa  
MD - University of Iowa  
Interests: travel, volleyball, running, wakeboarding, snow skiing, rock climbing, and cooking

Ryan Bourdon, MD  
BS - Mechanical Engineering - Michigan Technological University  
MD - University of Wisconsin  
Gold Humanism Honor Society  
Interests: wilderness backpacking, travel, running, cycling

Brian Roach, MD  
BA - Biology & Biomedical Studies - St. Olaf College  
MD - University of Wisconsin  
Alpha Omega Alpha Honor Society  
Interests: camping, hiking, running, skiing, golfing, fishing, traveling, piano, kayaking

Eric Ellingson, MD  
BA - Biology - Luther College  
MD - University of Minnesota  
Alpha Omega Alpha Honor Society  
Phi Beta Kappa Honor Society  
Interests: Triathlons, running, cycling, downhill and xc skiing, backcountry snowshoeing, backpacking, traveling, kayaking, guitar, piano

Kelsey Shelton-Dodge, MD  
BA cum laude - Biochemistry - Rice University  
MD - Mayo Medical School  
Interests: cycling, SCUBA diving, international travel

Marc Ellingson, MD  
BA magna cum laude - Chemistry - St. Olaf College  
MD - Creighton University  
Phi Lambda Upsilon Honor Society (chemical studies)  
Theta Alpha Kappa Honor Society (theological & religious studies)  
Interests: Running, cycling, triathlons, backpacking, skiing, snowshoeing, traveling, photography, piano, singing

Jason Van Valkenburg, MD  
BA - Biology - Concordia College - Moorhead  
MD - University of North Dakota  
Gold Humanism Honor Society  
Interests: soccer, coaching, running, hunting, water sports, and spending time with family

David Warren, MD, MPH  
BS - Zoology & Spanish - University of Wisconsin  
MPH - Public Health Administration & Policy - University of Minnesota School of Public Health  
MD - University of Texas - Houston  
Sigma Delta Pi Honor Society (Spanish)  
Interests: outdoor activities, running, marathons, cooking, home-brewing, international travel

Kyle Holloway, MD  
BA - Psychology - St. John's University  
MD - University of Minnesota  
Interests: mountain biking, trail building, road cycling, snow boarding, camping, trail running, traveling
The Regions Hospital Emergency Medicine Residency supplements the clinical learning experience with lectures, workshops and procedural skills labs that are open (space permitting) to all residents, faculty, students, alumni, nurses, physician assistants, consultants and others from our residency community to share and discuss new knowledge.

Number of lectures: 221

Hours of attendance: 5399 resident hours

Number of workshops: 48 workshops were taught to 32 rotating residents, 179 medical students and 21 PA students.

Number of labs: 34 residents participated in 10 procedural skills labs

Residency Presentations 2011

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Number of workshops: 48 workshops were taught to 32 rotating residents, 179 medical students and 21 PA students.

Number of labs: 34 residents participated in 10 procedural skills labs
Residency Timeline

1993 - Bob Knopp was hired to start the EM residency. Ready to return to Minnesota, Dr. Knopp left the residency he directed in Fresno for 17 years to work on the development of the Regions Hospital Emergency Medicine Residency. Lori Barrett is selected for coordinator. Lori had previously worked as the department head admin and EM office supervisor.

1995 - Residency receives a 3-year provisional accreditation by the ACGME-RRC for Emergency Medicine, and recruitment begins for the first class of eight residents. Approximately 200 applications were reviewed and 126 interviews were conducted.

1996 - First class of eight residents starts - The Class of 1999 included students from Creighton University, University of Colorado, Mayo Medical School, University of Minnesota, and University of North Dakota.

1999 - Residency receives full 3-year ACGME accreditation and graduates its first class. Of that first class of eight residents, seven continue to work and live in Minnesota. Pat Anderson joins the program as a program assistant.

2000 - Felix Ankel is named program director. Dr. Ankel, a graduate of the University of Wisconsin Medical School, completed his residency at the University of Illinois-Chicago and joined the faculty at St. Paul-Ramsey Medical Center in 1994.

2003 - Residency receives a 5-year full ACGME accreditation.

2004 - Jessie Nelson is selected for an Educational Fellowship and becomes the first faculty member for clinical simulation.

2005 - Medical Toxicology Fellowship is launched. EM grad, Matt Morgan, is selected as the first fellow.

2008 - Bob Knopp retires from clinical work. He continues to play an important role in resident education with his EKG lectures.

2009 - Residency receives a continued 5-year full ACGME accreditation.

2010 - EMS Fellowship starts, under the direction of RJ Frascone, with selection of EM grad, Aaron Burnett, as the first fellow.

2011 - Quality & Patient Safety Fellowship begins, under the direction of Drew Zinkel, with selection of EM grad, Kara Kim, as its first fellow.

Can Bucky Badger really be practicing emergency medicine at Regions? Indeed! Before entering medical school, Dr. Mike Zwank served as the Bucky Badger mascot for the University of Wisconsin. After finishing his residency at Boston Medical Center, where he served as chief resident, Dr. Zwank joined our faculty in August of 2006. He serves as the ultrasound education director and has been instrumental in developing the ultrasound curriculum and fostering resident scholarly activity.

Mike has a strong following of his ultrasound program - not surprising, since he has been a registered diagnostic medical sonographer since 2009. He instituted a longitudinal ultra-sthesia curriculum for the intern class, where residents intubate in the OR in the morning and perform bedside ultrasound exams in the ED in the afternoon over a 12-month period. He collaborates with HCMC in offering a bedside ultrasound course for medical students, and many senior residents choose to spend their elective time honing their bedside ultrasound skills with Mike. A recognized educator, he has been the recipient of both the Apple Award for medical student education, and the Faculty Teaching Award given by the residents.

Dr. Zwank oversees the residents’ scholarly projects. He actively engages residents and has developed a research assistant program for undergraduate and graduate students. He continually plans new projects and currently has five studies underway. Mike’s efforts this past year resulted in multiple articles and scientific presentations. We are certainly fortunate to have this Bucky Badger on board!
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2004 - Jessie Nelson is selected for an Educational Fellowship and becomes the first faculty member for clinical simulation.

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Staying connected with residents, alumni and colleagues is a pleasant challenge for us. The bulletin board between our offices was loaded with holiday pictures/cards which were replaced by baby announcements throughout the year. Numerous residency-sponsored events kept us in touch with alumni and allowed them the opportunity to meet and network with our current residents. Our website and Facebook fan page continue their popularity in the EM community, according to our usage stats. Many thanks to our alumni who contribute content and comments.

We attended the annual meeting of Emergency Medicine Association of Residency Coordinators (EMARC) in San Diego as part of the 2011 CORD Academic Assembly. It allowed us the opportunity to network with our coordinator colleagues throughout the country and share best practices. As a result, we’re using a web-based scheduling program for our residency interviews for the first time. So far, so good!

It was our pleasure to host 107 medical students from 13 medical schools, 32 rotating residents from 6 specialties and 5 EM residents from Hennepin County Medical Center who participated in our 2nd year swap.

New Faculty 2011

Aaron Burnett, MD
Undergraduate:
Boston University
Med School: State University of New York at Syracuse
Residency: Regions Hospital
Fellowship: EMS - Regions Hospital
Interests: EMS
Hobbies: bicycling, canoeing, listening to live music
The Registered Nurses (RN’s) in the Emergency Department demonstrate an impressive commitment to education. Over 50% are baccalaureate prepared and many others are pursuing either a baccalaureate or master’s degree in nursing or other related health care field. Thirty six percent of the RN staff have a specialty certification in emergency nursing, pediatric emergency nursing, critical care nursing, SANE nursing or medical-surgical nursing; of those, eighteen percent hold 2 or more specialty certifications. A decentralized nurse educator coordinates orientation and education for the over 125 nurses, 22 paramedics, and 58 Emergency Room Technicians. New staff completes a comprehensive orientation program to ensure competence in their skills. Continuing education takes place in the classroom through posters, presentations, simulation and hands-on learning. All nurses are certified in BCLS, ACLS, TNCC, and an advanced Pediatric Life Support Class such as PALS or ENPC. Many nurses have additional certifications in CATN, FCCS, PFCCS and other specialties.

Regions ED nurses teach other professionals in the community. Many nurses teach paramedic, EMT-basic and nursing students at the college level in didactic and clinical roles. We have nurses that provide education in the community for correct placement of child safety seats. Many nurses also provide education to the Western Wisconsin area including online education, didactic and clinical time. ED Nurses are active in the Emergency Nurses Association (ENA), with several nurses that are currently holding or have held positions at the administration level of the local chapter including president, secretary and state representative.

Richelle Jader, BSN, MHA, Administrative Director
Karen Quaday, MD, Operations Medical Director
Michelle Noltimier, RN, BSN, Nurse Manager
Eric Peterson, MHA, BA, Sr Manager ED, Finance and Operations
Jeffrey Fritz, Support Services Manager
Physician Assistants play an integral role in the management of patients in our busy Emergency Department and have since 1984. We currently have a staff of 21 PA’s representing 14 different University PA programs.

We are excited to offer the first EM PA residency program in Minnesota with the first class starting in July of 2012. The PA residents will work alongside physician residents, study the core curriculum, and participate in weekly conferences in addition to their clinical rotation schedule. We are offering 10 weeks of critical care training with opportunities for procedural experience during these rotations, during outreach hospital and rural hospital rotations, as well as simulation training.

With the rising volume of patients with increasingly complex medical problems, the benefit of advanced training for newly employed PAs has been recognized. The American College of Emergency Physicians (ACEP) and Society of Emergency Medicine Physician Assistants (SEMPA) are advocating the role of advanced training for PAs. We agree that residency training will allow PAs to refine their knowledge and skills, and to successfully integrate into the specialty of emergency medicine at an accelerated rate compared to on-the-job training. Employers, physicians, and patients will benefit from PA residency trained providers and the training will lead to increased competence, confidence, and job satisfaction to the provider.

Brad Hernandez, MD, Medical Director  I  Ann Verhoeven, PA-C, Program Director

Crisis Program

The Crisis Program, a psychiatric crisis intervention service in Regions Hospital Emergency Center, represents a unique collaboration between Regions Behavioral Health and the Emergency Department (ED).

An experienced, committed group of licensed independent clinical social workers staff the program 24 hours a day, seven days a week. This innovative and cost-effective program has been an integral part of the ED for more than 35 years and serves more than 6,000 patients annually. Approximately 60 percent of all patients who are evaluated by crisis social workers, in collaboration with ED medical providers, are not hospitalized and instead return to the community with referrals for outpatient services. Psychiatric consultations are available in the ED 7 days a week during daytime hours.

Patients are seen for a variety of mental health issues including depression, psychosis, anxiety, and substance abuse. The crisis staff works closely with ED physicians, residents, physician assistants and nurses to provide comprehensive psychiatric and psychosocial assessments and to create discharge plans that maximize safety and stabilization in the community or in the hospital.

Maddy Cohen, MSW, LICSW, Manager, ED Crisis Program
Welcome to another year of lifetime learning!

In past years, I’ve advocated organizing your learning on the ‘tiers of knowledge’. Specifically, this means organizing how you receive new learning: ‘Cutting Edge’ = reading or reviewing journal articles, talking with experts; ‘Standard of Care’ = summarized abstracts, textbooks, blogs; ‘The Limits’ = know where to find what you need when you need it.

While some of you may have taken this advice to heart, I suspect some had the reaction: “Are you kidding me? I don’t have time to ‘plan my learning’”. No problem. To those of you in this boat, let me suggest non-structured methods of lifetime learning:

Engage in teaching - teaching others certainly causes re-learning and retention of knowledge. Maybe this is the year you’ll put on an inservice for nurses on how to use ultrasound for IV insertion, or sponsor a journal club at your house for your colleagues.

Read up after interesting, unusual or misadventure cases - certainly not a new approach, and highly advocated during residency. But it works for all ages.

Do follow ups - many of you are using an electronic health record - use it for your education! Keep a log or run a report of patients you saw... go back and find out what happened to them later. Even better - give them a call and ask.

Find a ‘sweet spot’ in your day for reflection and education - reading articles and journals can’t be done as you are going to bed. (Journal reading can be an efficacious form of procedural sedation!) Find that time in the day/ eve/ night when your brain is running at the right speed to digest what you are reading. You’ll find yourself engaging into your learning, rather than trying to force it.

With regard to our residency, we continue to grow our family. Metrics this year include 322 subscribers to EMRes, our residency mailing list. Over 500 have connected with us on Facebook. We’ve achieved the ‘century’ milestone with 100 residents graduating our program, not to mention the 29 in the residency right now. We have over 35 attending providers who work full or part time at Regions. The collective wisdom of the above group is astounding!

Finally, I’ll draw your attention to the educational content from our program now available. At emres.regionsem.org, we have over 40 blog updates from the last few months.

Posts include critical case conference summaries, tidbits from morning reports, and other ‘bite sized’ updates. Also, links to related blogs on tox, EMS, trauma and ECG blogs are available. (some from Regions EM staff, some from Trauma, some from HCMC!) Enjoy browsing from time to time or subscribe to one of these blogs so that you never miss an update.

Until next year, happy learning!
Regions Emergency Medicine Residency Program offers residents a full spectrum of topics in emergency medicine based on *The Model of the Clinical Practice of Emergency Medicine*. This model is the basis of the content specifications of all examinations by the American Board of Emergency Medicine. The core curriculum is designed to repeat itself in its entirety on an 18-month basis.

Our residency also encourages experiences outside of the typical EM core content lecture. For example, HealthPartners Institute for Medical Education sponsors a Core Competency Conference Day which is a multi-disciplinary conference, focusing on the six core competencies. We have had numerous guest speakers from around the area and the country, including Georgia and Maine, covering topics such as wellness, preventive medicine in EM practice, and community orthopedics. In April, we held an Ethics and Advocacy Day in the Capitol building which included as speakers, presidents from two different health systems as well as a former US senator. In May, we held a joint HCMC and Regions Simulation Day at the University of Minnesota. At our alumni day conference in September, we hosted more than 15 graduates who shared their wisdom with our residents. In October, we held an Ortho Day taught by three orthopedic staff physicians, covering common ED injuries and providing the opportunity to practice procedures such as arthrocentesis. In November, residents participated in our yearly combined EM/Trauma Update co-sponsored by Hennepin County Medical Center, North Memorial Medical Center, Mayo Clinic and Regions.

The conference curriculum is set up to cover both the depth and breadth of emergency medicine through traditional as well as innovative and interactive means. Curriculum components include:

- **Critical Case**, a favorite of residents and faculty alike. Critical Case conference provides an interactive forum for discussion of a case of educational value. Case discussion is focused not only on the content of the eventual diagnosis, but also on the decision-making process in evaluating critically-ill patients with limited immediate data. Cases are actual cases from the ED and are chosen by the chief residents.

- **Core Content Lectures** reinforce knowledge that is gained on clinical rotations as well as supplement the clinical experience. Lectures are given by faculty members who are experts in a core content area.

- **Journal Club** is held on a regular basis and facilitates discussion of two or three current practice-changing articles in emergency medicine.

- **Joint Conferences** are collaborative conferences held in conjunction with other departments such as radiology, trauma services, critical care and internal medicine to discuss related areas of interest.

- **Small Group Sessions** encourage interactive learning. Small group simulation days have been incorporated into the curriculum. Residents are divided into three groups and rotate through stations that may include case discussion, simulation or mini-lectures.

- **Forensics** includes a basic forensic medicine didactic curriculum that all residents receive. Additionally, residents are trained in sexual assault examinations.
Educational objectives:
By the end of the third year of training, residents must demonstrate appropriate knowledge and skill in the use of ED ultrasound. Ultrasound applications that are mastered in emergency residency training are the trauma (FAST) exam, emergency echocardiography, abdominal aortic aneurysm, undifferentiated hypotension, early intrauterine pregnancy and procedural ultrasound including vascular access, thoracentesis, paracentesis, bladder identification, abscess location and others.

Description of clinical experience:
Ultrasound education begins during orientation with a half-day didactic and hands-on instructional session. During the first year, the ultrasound experience is combined in the emergency department integrated (EDI) months. During the ultrasound/anesthesia (ultrasthesia) days of these months, the resident spends the morning intubating in the OR and the afternoon scanning in the ED, completing 10 modules that encompass emergency ultrasound. Residents are encouraged to perform ultrasounds on any patients in the emergency department including those with normal anatomy and no pathology. Resident ultrasounds are supervised variably by the staff emergency attending, ultrasound director or senior residents. EM-2 and EM-3 residents are responsible for ultrasounds during all trauma team activations. An optional elective in the 3rd year is available to further ultrasound skills and knowledge.

Evaluation process/feedback mechanisms:
Residents receive feedback on ultrasound technique, image quality and trouble-shooting techniques by the supervising ED attending or senior resident. Additionally, ultrasound images are reviewed as part of the quality assurance initiative and feedback is given to the resident and faculty by the ultrasound director. Residents are given a semi-annual report of the number and type of ultrasounds they have done in the ED. This is reviewed during the semi-annual resident evaluation meetings with the program director. Residents are provided an ultrasound credentialing letter upon graduation.

Simulation

The Regions Hospital Emergency Medicine Residency has a robust group of faculty with strong interests in simulation-based education. We have worked to integrate simulation and small-group learning as an important part of the residency curriculum. Simulation is also used to augment medical student and faculty education, to address systems-based barriers to quality care and to analyze communication issues.

Several residents are pursuing simulation-based projects for their scholarly activity requirements this year, and we look forward to mentoring more residents in this area in the future. Dr. Nelson continues to work with HealthPartners Clinical Simulation, and Drs. Hegarty and Binstadt continue as co-directors of emergency medicine and trauma for the University of Minnesota SimPORTAL.
Regions EMS is proud of our affiliation with Regions Hospital Emergency Medicine Residency, and we would like to highlight some of the accomplishments of the past year.

**Resident Rotation:**
Emergency Medicine residents complete a 15-day longitudinal rotation in EMS during their intern year. In 2011, we developed a new G1 EMS curriculum. Our residents provide patient care in the streets with urban fire based services (St. Paul Fire), volunteer/paid on-call services (White Bear Lake), police/medic services (Cottage Grove Public Safety) and hospital based units (Lakeview Ambulance). Emergency Medical Dispatch fundamentals are stressed during shifts at the Ramsey County Communications Center. Residents are integrated as active educators during critical case reviews, simulation based critical thinking labs, and, new in 2011, cadaver labs at the University of Minnesota. Additional opportunities are available for residents to educate students at the EMT-Basic (St. Paul Fire EMS Academy) and Paramedic (Inver Hills Community College) level.

**Associate Medical Directorship:**
Residents with a particular interest in EMS may elect the EMS Associate Medical Director (AMD) program for their scholarly project. This program was restructured in 2010 to create a more formalized approach to better prepare graduates for EMS fellowships. In addition to increased exposure to prehospital patient care, residents are tasked with learning the administrative and legislative foundations of EMS. Residents in the AMD program have the opportunity to attend the MN EMS Medical Directors conference and to participate in original research.

**2011 Associate EMS Medical Directors:**
- Clint Hawthorne, MD (’12), St. Paul Fire
- Ben Watters, MD (’12), National Parks Service
- Bjorn Peterson, MD (’12), Maplewood Fire
- Zabrina Evens, MD (’13), St. Paul Fire
- Darcy Rumberger, MD (’13), St. Paul Fire EMS Academy
- Jodi Deleski, MD (’13), St. Paul Fire

**EMS Fellowship:**
Beginning in August 2010, Regions EMS began offering a 1-year Prehospital Medicine/EMS fellowship. In August 2011, Dr. Aaron Burnett became the first graduate of our fellowship. We are excited to announce that Dr. Bjorn Peterson has been selected as our next fellow beginning August 2012. A board certification examination for Prehospital Medicine/EMS is expected to be available in 2013.

**Event Medicine:**
EM residents regularly have the opportunity to participate in mass gathering medicine under the medical direction of Regions EMS. In 2011, our residents provided medical coverage at the Stillwater Marathon and Warrior Dash extreme terrain 5K. Residents staffed the critical care section of the finish line medical tent at the Twin Cities Marathon. The MN State Fair draws tens of thousands of visitors daily, and Regions EM residents were on-site providing care. Residents also provide medical coverage to fans during events at the Xcel Energy Center, including MN Wild NHL hockey games.

**Research:**
Our EMS research activities are enriched by and open to the participation of our residents. In 2011, Dr. Autumn Erwin (Brogan) presented an oral presentation at SAEM on identification of prehospital sepsis. Dr. Casey Woster had posters presented at both SAEM and NAEMSP on his work in video laryngoscope use by prehospital providers. Dr. Ben Watters co-authored a case report on laryngospasm after prehospital ketamine administration to a patient in excited delirium, and Dr. Zabrina Evens is a member of our research team conducting a field trial of video laryngoscopes for prehospital intubation.
The PEM Fellowship at Children's Hospitals and Clinics of Minnesota received sponsorship from HealthPartners Institute for Medical Education in July 2011. Prior to this, the PEM fellowship was sponsored by the University of Minnesota and has trained numerous PEM physicians. The Emergency Department staff at Children’s is comprised of 35 PEM physicians, 6 PEM Fellows, 16 pediatric nurse practitioners and six trauma service physician assistants/nurse practitioners. This makes up the largest pediatric-emergency trained staff in the region. This staff covers the Emergency Departments in both the Minneapolis & St Paul hospitals, where a combined 88,000 patients were seen in 2011. Children’s is currently a designated Level-3 trauma center and received a 17 million dollar grant from United Health Care to become a Level-1 trauma center at the Minneapolis campus.

PEM fellowship is designed to complete all core requirements in two years. Fellows who have previously completed an EM residency operate on a two-year curriculum. Those who have a Pediatric residency function as a junior faculty in third year and have 75% protected research time to complete their scholarly activities. Besides spending time in ED, clinical rotations include Toxicology, Sedation, Anesthesia, PICU and Radiology. Outpatient and Inpatient pediatric service, NICU/Delivery room rotations are required for EM trained fellows. Scholarly activities by PEM fellows include retrospective and prospective studies as well as QI projects. All PEM fellows attend Emergency Medicine Basic Research Skills workshop conducted by ACEP. Currently, there are 33 ongoing studies in the ED, eight of these are grant funded. There were numerous presentations and publications by PEM fellows and faculty in 2011. The didactic curriculum includes monthly educational meetings at Children’s (Minneapolis and St. Paul) and Regions Hospitals. They include PEM chapter/board review, core lectures, Simulations, resuscitation case reviews, combined EM/PEM critical care conference, journal club and inter hospital pediatric case conferences. (www.regionsem.org/fellowships)

Pediatric Emergency Medicine Fellowship

We are pleased to announce that Amy Walsh, chief resident at the Iowa emergency medicine residency, was accepted as our first fellow to begin in August, 2012. As a fellow Amy will be doing 6-7 months of international field work, will be pursuing a Masters of Development Practice at the University of Minnesota, and will complete an otherwise rigorous program in our fellowship. Activities rounding out the program include a publishable project, research into global toxicology, and completion of the Health Emergencies in Large Populations course. Additionally she will join our physician group and begin her practice of emergency medicine. Amy brings international experience from her travels and work in Tanzania, Haiti, and Israel. We are looking forward to what should be a productive and rewarding couple of years.

Pediatric Publications


Elizabeth Placzek, DO, Leena Sastry, MD, Annalisa Rudser, MD, Olufunmilayo Salami, MD, Jennifer Longo, MD and Manu Madhok, MD, MPH

International Fellowship

Matt Morgan, MD, Fellowship Director

We are pleased to announce that Amy Walsh, chief resident at the Iowa emergency medicine residency, was accepted as our first fellow to begin in August, 2012. As a fellow Amy will be doing 6-7 months of international field work, will be pursuing a Masters of Development Practice at the University of Minnesota, and will complete an otherwise rigorous program in our fellowship. Activities rounding out the program include a publishable project, research into global toxicology, and completion of the Health Emergencies in Large Populations course. Additionally she will join our physician group and begin her practice of emergency medicine. Amy brings international experience from her travels and work in Tanzania, Haiti, and Israel. We are looking forward to what should be a productive and rewarding couple of years.
The Toxicology Service at Regions Hospital, an integral section of the Emergency Medicine Department, focuses on education, research and clinical evaluations of toxicology patients. The toxicology educational service provides quarterly interdisciplinary conferences (critical care, pediatrics, nephrology), a weekly toxicology journal club, adverse drug reaction, and herbal and toxicology chapter reviews. Other educational events during the year included forensic toxicology case review, toxicology “field trips” to the University of Minnesota Arboretum to learn about toxic plants; an “Herbal Outing” to the cultural markets in the Twin Cities; and an annual toxic mushroom hunting trip at a rural park.

The Toxicology Service is the home base for the Medical Toxicology Fellowship sponsored by the HealthPartners Institute of Medical Education and the Hennepin Regional Poison Center. We serve as a major training station for the fellows and play an active role in their education. To supplement the education of residents, fellows and students, the toxicology service uses a computer-controlled mannequin for case simulations. New cases are revised and developed throughout the year. The close relationship with the Hennepin Regional Poison Center allows us to share in the educational roles of the Poison Center, participating in their weekly and monthly case conferences and toxicology didactic sessions. During 2011 the clinical toxicology service rotation included 3 pediatric emergency medicine fellows, 14 emergency medicine residents from Regions; 5 medical students from Minnesota, New York, and Wisconsin; 2 Psychiatry PA Residents; 1 Psychiatry resident; 1 Pediatric resident; and more than 24 PharmD candidates. Members of Regions toxicology education and clinical service were involved in more than 20 formal presentations at local, regional and national conferences, local colleges and community hospital grand rounds in Minnesota and Wisconsin in 2011. Our faculty has participated regularly in the toxicology training of critical care fellows, internal medicine residents, and physician assistants. International presentations at the Fourth International Congress on Acute Care in Cochabamba, Bolivia are examples of our range in providing toxicology educational activities.

The toxicology consultation service is relatively active and provides 30 or more formal consultations per month at Regions. In addition, we continue to provide informal educational consults, telephone consults, and consults on pediatric patients at the Minnesota Children’s Hospitals and Clinics in Minneapolis and St. Paul. Our service also evaluates inpatients at Regions for herbal-drug and herbal-disease state interactions and provide recommendations. Our toxicology clinic received multiple referrals to evaluate new patients with acute, subacute and chronic toxicologic exposures.

Members of the toxicology service participated in toxicology-related clinical and benchtop research. Our research focuses on the treatment of toxin-induced shock with high-dose insulin as an inotropic treatment, and induced hypothermia for the treatment of severe carbon monoxide poisoning. During 2011, The Tox team presented at meetings of the Society for Academic Emergency Medicine, North American Congress of Clinical Toxicology, and the Mediterranean Emergency Medicine Congress in Kos, Greece. Toxicology faculty and former fellow won awards for Best Young Investigator, Best CPC presentation, and Best CPC analysis at the NACCT annual meeting in Washington D.C.

Overall, we are a very active service with energetic and dedicated professionals with a passion for teaching and providing quality care, as well as expanding and contributing to toxicology knowledge through research.
Medical Quality Management and Patient Safety
Our inaugural Medical Quality Management and Patient Safety Fellowship began in July with the appointment of Kara Kim, MD ('11) as its first fellow. Kara is currently practicing as an emergency physician, actively involved in several quality projects at Regions Hospital as well as within the HealthPartners Family of Care, and working towards completion of an Executive Masters in Business Administration at the University of Minnesota Carlson School of Management. She will complete and publish a major project and will become certified in medical quality by the American Board of Medical Quality by the end of her fellowship. Kara was actively involved in quality improvement and patient safety education as a resident, creating an education program which guides our residents through the completion of their own quality projects. She is an asset to our department and a champion for improving the quality of care we provide to our patients.

Drew Zinkel, MD, EMD Quality Director

In Memory of James J Cicero, MD
James J Cicero, MD - 1938-2011
Dr. James Cicero, whose vision of starting an Emergency Medicine Residency at Regions was realized with the first class of residents entering in 1996, began his career at St. Paul-Ramsey Medical Center (now Regions Hospital) as a staff physician in the ED in 1974. He was appointed Associate Chief of Emergency Medicine in 1977, Acting Chief from 1981-83 and Chief from 1983 to 1995.

Dr. Cicero graduated from Northwestern University Medical School in 1963. Prior to his work at Regions Hospital, he served as captain in the United States Army in Munich, Germany. After completing his service, he moved to River Falls where he served on the staff of the River Falls Medical Clinic and was later appointed medical director at the Minnesota State Prison at Stillwater.

An innovative administrator, he began hiring physician assistants to augment staffing in the Emergency Department in 1984. Regions ED now has a staff of 21 PAs and a PA residency training program approved to start in 2012. He also developed the first urgent care at Regions, known as ReadyCare, in 1985 and led the ED through its first construction of a new Emergency Center, which opened in 1995, shortly before his retirement.

An avid golfer, author and community activist, he served on boards of the Union Gospel Mission, the River Falls Area Hospital, and the First Covenant Church in River Falls. Jim also participated in several mission trips with the Good News Project.

Regions Hospital Foundation EM Residency Funds

L134 - Emergency Medicine Residency Education
Gifts to this fund allow the residency to educate future emergency practitioners by funding programs such as our procedural skills lab, international rotations, specialty conferences, and much more. In 2011, this fund provided assistance to three residents to attend national and regional meetings.

Regions Circle ($10,000+)
Regions Hospital Emergency Medicine Physicians

Advocate ($1,000+)
Felix & Lisa Ankel
Robert & Jenny LeFevere
Kevin & Abbie Smith
Jeffrey & Sarah Young

Builder ($500+)
Bradley & Karine Hernandez
Jeffrey & Laurie Geddes

Sponsor ($100+)
Nathaniel & Deanna Curl
Katharine Davidson
Bradley & Laura Gordon
Kelly & Jeff Rhone
Jonathan Shultz
Scott Thielen
Robert Zeleznikar

EO09 - Mark Bernas Endowment
The Mark Bernas Endowment was established in 1998 after the death of EM resident, Mark Bernas. It’s purpose is to provide long term financial resources for the Emergency Medicine resident learning center and educational projects.

Advocate ($1000+)
Dorothy Bernas

Sponsor ($100+)
Gary Collins
Karen Lushine
Kevin & Lisa Sipprell
Regions Emergency Medicine Department continues to have a strong interest and commitment to medical student education. Rotations hosted at Regions include our core, required EM clerkship through the University of Minnesota Medical School, our advanced EM clerkship, our toxicology course, and a new elective bedside ultrasound experience.

Our core rotation consistently gets top reviews from University of Minnesota students. The highlights of the rotation include the outstanding supervision, education, and feedback to the students from our senior residents, their experience in our weekly resident conferences, and the weekly student focused educational workshops, including a simulation resuscitation workshop. This rotation allows our senior residents to experience daily teaching and supervision, and allows the students a chance to have a close working relationship with our EM residents.

The advanced rotation is our sub-internship experience for students from the University of Minnesota as well as other US medical schools. Highlights of this advanced rotation include direct supervision by EM faculty, EMS, ultrasound, and EKG education and experiences, and an informal session with Dr. Ankel focused on the Emergency Medicine residency application process.

Students taking the toxicology rotation here get a well rounded tox experience with our clinical toxicology service. During their four weeks they get to experience ED consults, inpatient consults and rounds on the toxicology inpatient consultation service, time at the Poison Control Center, and outstanding small group educational sessions.

Our newest EM elective is bedside ultrasound for the clinician—a rotation hosted by Dr. Mike Zwank from Regions and Dr. Rob Reardon from HCMC. Students taking this elective get to spend time with an ultrasound technician learning the ins and outs of the ultrasound machine, have focused reading on ultrasound and its EM application, and plenty of hands-on, supervised ultrasound time in the ED.

Thanks to the efforts of Dr. Keith Henry, as of 2011, we have expanded and integrated clinical instruction into the first and second year medical school curriculum at the University of Minnesota School of Medicine. The Essentials of Clinical Medicine course introduces early medical students to acute care medicine and to the acute care decision-making skill set. Through an innovative mix of workshops, didactic learning sessions, and real time emergency department site observations, early medical students are introduced to acute care/emergency medicine, and to its essential role and function within the modern health care system.

In 2011, Regions Hospital hosted a total of 107 students from 13 medical schools, with 38 of them taking the advanced course. Dr. Hegarty continues in his role as clerkship director for all EM courses through the department of EM at the University of Minnesota in addition to his roles as co-chair of the University of Minnesota Medical School Twin Cities campus curriculum committee, and chair of the clinical education committee at the Medical School.

If interested in learning more about our student rotation opportunities, check the ‘student program’ link on our website (http://www.regionsem.org/student-program) or call Lori Barrett at 651-254-3666. Applications are being accepted for the 2012-2013 academic year through the Visiting Student Application Service (https://services.aamc.org/20/vsas/).
GRANTS AND IRB APPROVED STUDIES


Carr ME, Engebretsen K. HealthPartners Research Foundation Discovery Grant. Identification of Therapeutic Blood and Urine Tetrahydrozoline Levels in Adults. (2010-2011)


Chung WG, Salzman JG, Wewerka SS, Koenekamp D, Frascone RJ. HealthPartners Research Foundation Discovery Grant. Use of the Emergency Severity Index by RNs and EMS Providers. (2009-2011)


Frascone RJ, Wewerka SS, Salzman J. International Association of Fire Fighters Burn Foundation. The Effect of Fire Fighter SCBA Use on Carboxyhemoglobin Values During the Overhaul Phase of Fire Fighting. (2009-2012)


Hegarty CB, Peterson BK, Dahl EJ. Emergency Medicine Residency Program Interviewee Survey. (2010-2011)


Quaday KA, Gordon BD, Salzman J. A Retrospective Descriptive Study of MRI Use in an Academic Emergency Department. (2011-2012)


Zwank MD, Walker JR. Improving Patient Comfort in the Emergency Department. (2010-2011)

Zwank MD. Emergency Department Patient Knowledge and Physician Communication Regarding Computed Tomography Scans. (2010-2011)

Zwank MD. Impact of CT on Diagnosis of Kidney Stones. (2011-2012)

Zwank MD, Paech NK. Medical Screening Protocols. (2011)

Institute for Medical Education (IME)

The Regions Hospital Emergency Medicine Residency is sponsored by the HealthPartners Institute for Medical Education (IME). The IME was created in 1996 to provide an innovative structure to lead the organization’s health professional educational efforts. Today, the IME partners with academic institutions, provides an innovative environment for health-provider education and is an advocate for education that measurably improves patient care. The IME provides professional education through undergraduate and graduate medical education, nursing education, allied health professional education, continuing professional development, medical library services and clinical simulation programs.

The IME has a formal affiliation agreement with the University of Minnesota that guides the educational relationship between the two organizations. Regions Hospital emergency medicine staff enjoy faculty appointments within the department of emergency medicine at the University of Minnesota, and contribute to the teaching of medical students and residents in HealthPartners and University residency programs.
RESIDENCY AWARDS, RECOGNITION, HONORS

Star Award - resident teacher selected by medical students
2011 Kara Kim, MD
2010 Aaron Feist, MD, Gregory Vigesaa, DO
2009 Adina Connelly, MD, Danielle Jackson, MD
2008 Samuel Stellpflug, MD
2007 Sandy Fritzlar, MD
2006 Nathan Anderson, MD, Martin Richards, Jr., MD,
John Travnicek, MD, Melissa Tschohl, MD
2005 Keith Henry, MD
2004 Robert LeFevere, MD
2003 Lynn Howard, MD
2002 John Bonta, MD
2001 Cullen Hegarty, MD

Apple Award - faculty teacher selected by medical students
2011 Samuel Stellpflug, MD
2010 Rachel Dahms, MD
2009 Keith Henry, MD
2008 Cullen Hegarty, MD, Kevin Kilgore, MD
2007 Joel Holger, MD, Peter Kumasaka, MD, Michael Zwank, MD
2006 Jeahan Hanna, MD
2005 Rachel Dahms, MD, Robert LeFevere, MD
2004 Cullen Hegarty, MD
2003 Kevin Kilgore, MD
2002 Felix Ankel, MD
2001 Paul Haller, MD

Faculty Teaching Award - EM faculty teacher selected by residents
2011 Michael Zwank, MD
2010 Bradley Hernandez, MD
2009 Keith Henry, MD
2008 Cullen Hegarty, MD
2007 Rachel Dahms, MD, Jeahan Hanna, MD
2006 Robert Knopp, MD
2005 Felix Ankel, MD
2004 Karen Quday, MD
2003 Carson Harris, MD
2002 Scott Cameron, MD
2001 Robert Knopp, MD
2000 Joel Holger, MD

Nurse Educator Award - EM nurse teacher selected by residents
2011 Kevin Guenard, RN
2010 Clarice Marsh, RN
2009 Angela Hoeppner, RN
2008 Andrew Hebdon, RN
2007 Lawrence Cochrans, RN
2006 Tom Peterson, RN, Karen Poor, RN
2005 Donovan Taylor, RN
2004 Mary Healy, RN

Excellence in EMD Research
2011 N Kolja Paech, MD
2010 Nathanial Curl, MD
2008 Tara O’Connell, MD
2007 Emily Mason, MD, Ben Peake, MD
2006 Scott Donner, MD
2005 Sandy Fritzlar, MD
2004 Kurt Isenberger, MD
2003 S. Wade Barnhart, MD, Christopher Obetz, MD
2002 Randall Hofbauer, MD
2001 Frank Coughlin, MD
2000 Paul Satterlee, MD, Paul Jewett, MD
1999 Kevin Sippell, MD, James Parker, MD

Ian Swatez Teaching Award - faculty teacher from outside EM selected by residents
2011 Eric Korbach, MD
2010 Julie Switzer, MD
2009 Azhar Ali, MD
2008 David Dries, MD
2007 Eric Korbach, MD, Henry Ortega, MD
2006 David Lee, MD
2005 Bruce Bennett, MD
2004 Raj Sarpal, MD
2003 William Mohr, MD
2002 Mari Goldner, MD
2001 David Dries, MD
2000 Ian Swatez, MD

Robert Knopp Humanism Award
2011 Katharine Davidson, MD
2010 Heather Ellsworth, MD
2009 Tara O’Connell, MD
2008 Mark Connelly, MD
2007 Emily Mason, MD
2006 Martin Richards, Jr., MD
2005 Keith Henry, MD, Jon Hokanson, MD

Excellence in EMS Award
2011 Katharine Davidson, MD
2010 Aaron Burnett, MD
2009 Owen Anderson, MD
2008 Joey Peterson, MD, Jonathan Shultz, MD
2007 Heidi Lako, MD

Toxicology Award
2011 Katherine Katzung, MD
2010 Heather Ellsworth, MD

Mark Bernas Advocacy Award
2011 Autumn Erwin, MD
2010 Autumn Erwin, MD
Peer Reviewed Articles:


Kilgore, KP. This Abdominal Finding was Incorrectly Attributed to Trauma. http://www.EMedHome.com; Weekly Clinical Case, April 29, 2011


Stellpflug SJ. Transaminitis: the lab test that has inflammation…. *J Med Toxicol*. 2011 Sep;7(3):252-3.


Non-Peer Reviewed Articles:
Hernandez BS. Don’t Assume the Worst, *Minnesota Monthly*, October 2011;94(10):

Taft S. Core Tox for EM Docs: Cyanide Toxicity. ACP Toxicology Section Newsletter. December 2011.

Book Chapters:


Presentations:
Bandiera G, Ankel F. Transitions in Residency Education. Presented at International Conference on Resident Education. Quebec City, Quebec, September 2011.


Kilgore KP. Dreams Lost - the Impaired Physician. Oral presentation, University of North Dakota School of Medicine November 4, 2011.


<table>
<thead>
<tr>
<th>Name</th>
<th>Medical School</th>
<th>Current Location</th>
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<tbody>
<tr>
<td>Luke Albrecht, MD '08</td>
<td>University of Minnesota</td>
<td>New Ulm Medical Center - New Ulm, MN</td>
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<tr>
<td>Nathan Anderson, MD '06</td>
<td>University of Minnesota</td>
<td>United Hospital - St. Paul, MN</td>
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<tr>
<td>Owen Anderson, MD '09</td>
<td>University of Wisconsin</td>
<td>EMS/Wilderness Medicine Fellowship - University of Utah</td>
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<tr>
<td>Cheri Audrain-Schroeder, MD '01</td>
<td>University of Nevada</td>
<td>Fairview Southdale Hospital - Edina, MN</td>
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<tr>
<td>Kendal Baker, MD '03</td>
<td>Indiana University</td>
<td>Hancock Regional Hospital - Greenfield, IN</td>
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<td>Stephen Wade Barnhart, MD '03</td>
<td>Michigan State University</td>
<td>Good Samaritan Hospital - Puyallup, WA</td>
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<td>Kelly Barringer, MD '08</td>
<td>University of Minnesota</td>
<td>Regions Hospital - St. Paul, MN</td>
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<td>Bradley Barth, MD '00</td>
<td>University of Minnesota</td>
<td>St. John's Hospital - Maplewood, MN</td>
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<tr>
<td>Marny Benjamin, MD '02</td>
<td>Loyola University</td>
<td>Methodist Hospital - St. Louis Park, MN</td>
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<tr>
<td>Mark Bernas, MD '00</td>
<td>University of Minnesota</td>
<td>Deceased</td>
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<tr>
<td>John Bonta, MD '02</td>
<td>University of Nebraska</td>
<td>Bryan LGH Medical Center - Lincoln, NE</td>
</tr>
<tr>
<td>Autumn Erwin Brogan, MD '11</td>
<td>Mayo Medical School</td>
<td>International Medicine Fellowship - Loma Linda University, CA</td>
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<tr>
<td>Sandy Fritzlar Buckman, MD '07</td>
<td>SUNY at Syracuse</td>
<td>United Hospital - St. Paul, MN</td>
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<td>Aaron Burnett, MD '10</td>
<td>University of Colorado</td>
<td>Regions Hospital - St. Paul, MN</td>
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<td>Catherine Carlson, MD '11</td>
<td>University of Minnesota</td>
<td>Critical Care Fellowship - University of Pittsburgh, PA</td>
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<td>Adina Miller Connelly, MD '09</td>
<td>University of Nebraska</td>
<td>North Memorial Medical Center - Robbinsdale, MN</td>
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<td>Frank Coughlin, MD '01</td>
<td>University of South Dakota</td>
<td>Bryan LGH Medical Center - Lincoln, NE</td>
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<td>Susan Zola Cullinan, MD '01</td>
<td>University of North Dakota</td>
<td>Luther Milderford Hospital - Eau Claire, WI</td>
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<td>Nathaniel Curl, MD '10</td>
<td>University of Iowa</td>
<td>Trinity Medical Center - Bettendorf, IA</td>
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<td>Katharine Davidson, MD '11</td>
<td>University of Cincinnati</td>
<td>Elmendorf Air Force Base - Anchorage, AK</td>
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<td>Laresa DeBoer, MD '02</td>
<td>University of Minnesota</td>
<td>Ridgeview Hospital - Waconia, MN</td>
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<td>Tanya Klevon Decker, MD '04</td>
<td>University of North Dakota</td>
<td>St. Luke's Hospital - Cedar Rapids, IA</td>
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<td>Chanah Delisle, MD '99</td>
<td>University of Minnesota</td>
<td>St. Francis Hospital - Shakopee, MN</td>
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<td>Christopher Dillon, MD '09</td>
<td>University of Wisconsin</td>
<td>Mercy Hospital - Coon Rapids, MN</td>
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<td>Joseph Dolan, MD '09</td>
<td>University of Iowa</td>
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<td>Scott Donner, MD '06</td>
<td>University of Kansas</td>
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<td>Joey Peterson Duren, MD '08</td>
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<td>Mary Fehringer Drake, MD '00</td>
<td>University of Nebraska</td>
<td>Bozeman Deaconess Hospital - Bozeman, MT</td>
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<td>Roseann Ekstrom, MD '07</td>
<td>University of Minnesota</td>
<td>Fairview Northland Medical Center - Princeton, MN</td>
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<td>Heather Ellsworth, MD '10</td>
<td>University of Minnesota</td>
<td>Toxicology Fellowship - Regions Hospital - St. Paul, MN</td>
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<td>Aaron Feist, MD '10</td>
<td>University of North Dakota</td>
<td>Community Medical Center - Missoula, MT</td>
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<td>Jared Friedman, MD '05</td>
<td>University of Dakota</td>
<td>Avera McKennan Hospital - Sioux Falls, SD</td>
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<td>Jon Fuerstenberg, MD '04</td>
<td>Mayo Medical School</td>
<td>Abbott Northwestern Hospital - Minneapolis, MN</td>
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<td>Leah Gapinski, MD '10</td>
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Robert Zeleznikar, MD, PhD ’99       University of Minnesota               University of Minnesota Medical Center - Minneapolis, MN
James Wood, MD ’01                         Mayo Medical School                   Kaiser Permanente Northwest - Portland, OR
Beth Wicklund, MD ’07                     University of Minnesota    Methodist Hospital - St. Louis Park, MN
Clark Williams, MD ’03                     University of Wisconsin     Mercy Hospital - Dubuque, IA
Brent Walters, MD ’10                       University of Minnesota                Methodist Hospital - St. Louis Park, MN
Joseph Wahlberg, MD ’06                 University of Minnesota               United Hospital - St. Paul, MN
Gregory Vigesaa, DO ’10                   University of Virginia COM          Sanford Hospital - Fargo, ND
Jeffrey Vespa, MD ’00                       Loyola University                          North Memorial Medical Center - Robbinsdale, MN
Melissa Tschohl, MD ’06                   University of Minnesota                University of Minnesota Medical Center - Minneapolis, MN
Paul Travnicek, MD ’08                    University of South Dakota          Avera McKennan Hospital - Sioux Falls, SD
John Travnicek, MD ’06                   University of South Dakota          Avera McKennan Hospital - Sioux Falls, SD
Trenten Thorn, MD ’06                     Medical College of Wisconsin Medical College of Wisconsin - Minneapolis, MN
Robert LeFevere, MD ’04                   Creighton University                   Regions Hospital - St. Paul, MN
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Christopher Russi, DO ’03                 University of Wisconsin               Regions Hospital - St. Paul, MN
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Ann Schapiro, MD ’05                       University of Wisconsin               Regions Hospital - St. Paul, MN
John Seidner, MD ’01                         University of Wisconsin               Regions Hospital - St. Paul, MN
Jonathan Shultz, MD ’08                 University of Wisconsin               Regions Hospital - St. Paul, MN
Kevin Sipprell, MD ’99                        University of Minnesota               Regions Hospital - St. Paul, MN
Jillian Smith, MD ’11                          University of Minnesota               Regions Hospital - St. Paul, MN
Kevin Smith, MD ’07                        University of Minnesota Medical Center - Minneapolis, MN
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Natasha Srb, MD ’08                          University of Minnesota Medical Center - Minneapolis, MN
Samuel Stellpflug, MD ’08                  University of Minnesota Medical Center - Minneapolis, MN
Nicole Stethem, MD ’05                     University of South Dakota          Avera McKennan Hospital - Sioux Falls, SD
Nicole Stoik, MD ’10                          University of Minnesota Medical Center - Minneapolis, MN
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Stephanie Taft, MD ’04                        University of Minnesota Medical Center - Minneapolis, MN
Peter Tanghe, MD ’03                          University of Minnesota Medical Center - Minneapolis, MN
Charis Thatcher, MD ’09                      University of Minnesota Medical Center - Minneapolis, MN
Scott Thelen, MD ’09                           University of Minnesota Medical Center - Minneapolis, MN
Trenten Thorn, MD ’06                      University of Minnesota Medical Center - Minneapolis, MN
John Travnick, MD ’06                        University of Minnesota Medical Center - Minneapolis, MN
Paul Travnick, MD ’08                          University of Minnesota Medical Center - Minneapolis, MN
Melissa Tschohl, MD ’06                     University of Minnesota Medical Center - Minneapolis, MN
Jeﬀrey Vespa, MD ’00                            University of Minnesota Medical Center - Minneapolis, MN
Gregory Vigesaa, DO ’10                      University of Minnesota Medical Center - Minneapolis, MN
Joseph Wahlberg, MD ’06                     University of Minnesota Medical Center - Minneapolis, MN
Brent Walters, MD ’10                          University of Minnesota Medical Center - Minneapolis, MN
Clark Williams, MD ’03                           University of Minnesota Medical Center - Minneapolis, MN
Beth Wicklund, MD ’07                        University of Minnesota Medical Center - Minneapolis, MN
James Wood, MD ’01                               University of Minnesota Medical Center - Minneapolis, MN
Jeffrey Young, MD ’99                             University of Minnesota Medical Center - Minneapolis, MN
Robert Zeleznikar, MD, PhD ’99

Fairview-Southdale Hospital - Edina, MN
Medical Center of Aurora - Denver, CO
Quality & Patient Safety Fellowship - Regions Hospital - St. Paul, MN
Emergency Physicians of Tidewater - Norfolk, VA
North Memorial Medical Center - Robbinsdale, MN
Sanford Hospital - Fargo, ND
Regions Hospital - St. Paul, MN
St. Mary’s Hospital - Duluth, MN
United Hospital - St. Paul, MN
Sanford USD Medical Center - Sioux Falls, SD
Sacred Heart Hospital - Eau Claire, WI
St. Joseph Medical Center - Bellingham, WA
Wishard Hospital - Indianapolis, IN
Regions Hospital - St. Paul, MN
Regions Hospital - St. Paul, MN
Abbott Northwestern Hospital - Minneapolis, MN
California Emergency Physicians - Sacramento, CA
St. Francis Hospital - Shakopee, MN
North Memorial Medical Center - Robbinsdale, MN
University of Minnesota Medical Center - Minneapolis, MN
Avera McKennan Hospital - Sioux Falls, SD
Regions Hospital - St. Paul, MN
St. John’s Hospital - Maplewood, MN
St. Anthony Hospital - Denver, CO
Mayo Clinic St. Mary’s Hospital - Rochester, MN
Abbott Northwestern Hospital - Minneapolis, MN
Catholic Health Systems - Buffalo, NY
Elliot Hospital - Manchester, NH
St. Luke’s Hospital - Duluth, MD
Ridgeview Hospital - Waconia, MN
St. Francis Hospital - Hartford, CT
Mercy Medical Center - Des Moines, IA
University of Minnesota Medical Center - Minneapolis, MN
Regions Hospital - St. Paul, MN
Avera McKennan Hospital - Sioux Falls, SD
United Hospital - St. Paul, MN
Fairview Ridges Hospital - Burnsville, MN
Regions Hospital - St. Paul, MN
St. John’s Hospital - Maplewood, MN
Regions Hospital - St. Paul, MN
Fairview Ridges Hospital - Burnsville, MN
Lakeview Hospital - Bountiful, UT
Avera McKennan Hospital - Sioux Falls, SD
Avera McKennan Hospital - Sioux Falls, SD
University of Minnesota Medical Center - Minneapolis, MN
North Memorial Medical Center - Robbinsdale, MN
Sanford Hospital - Fargo, ND
United Hospital - St. Paul, MN
Methodist Hospital - St. Louis Park, MN
Mercy Hospital - Dubuque, IA
Methodist Hospital - St. Louis Park, MN
Kaiser Permanente Northwest - Portland, OR
Mercy Hospital - Coon Rapids, MN
University of Minnesota Medical Center - Minneapolis, MN
Regions Hospital is certified as a Level I Trauma Center for adults and for children serving Minnesota and western Wisconsin for more than 130 years.

A private, nonprofit, teaching hospital, Regions (www.regionshospital.com) provides outstanding care in women’s health, heart, cancer, surgery, orthopaedics, neuroscience, burn, emergency care and more. Regions is part of the HealthPartners (www.healthpartners.com) family of health care companies that serves 1.25 million medical and dental health plan members nationwide.