



Regions Hospital is a leading, full-service, private hospital providing outstanding medical and surgical care, with special programs in heart, women's care, surgery, seniors' services, digestive care, cancer, behavioral health, burn, emergency and trauma. Established in 1872, the hospital has served the Twin Cities and surrounding region for more than 130 years. Patients receive state-of-the-art care in an environment that promotes comfort and healing. The health professionals at Regions Hospital are involved in teaching and research focused on improving health and medical care. Regions Hospital is part of the HealthPartners family of health care organizations. Please visit the Regions Hospital web site at [www.regionshospital.com](http://www.regionshospital.com).



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## A Decade of Education

*Emergency Medicine Residency Program • 2005 Annual Report*



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# Letter from the Director



Felix Ankel, MD

It is a pleasure to present the 2005 Regions Hospital Emergency Medicine Residency Annual Report. The annual report is an update of the breadth and depth of our program's accomplishments.

2005 marks our residency's 10th anniversary. During this time, our mission has remained firm: to provide and promote excellence in patient care and education. A goal of our residency program is to train highly competent emergency physicians interested in a career that combines clinical practice with non-clinical leadership activities. We salute three of our grads that have taken on leadership responsibilities at North Memorial Medical Center this year: Amy Kolar '99, director of CME; Jeff Vespa '00 chief of emergency medicine; and Paul Satterlee '00 director of EMS. We also salute Christopher Obetz, '03, Abbott Northwestern Hospital's associate medical director of emergency medicine on being selected as a 2005 *Mpls. St. Paul* magazine Top Doc.

Our residency continues to grow, and we are expanding our partnerships with others. We have a yearly combined conference with the Mayo Emergency Medicine Residency. We co-sponsor the Emergency Medicine/Trauma Update with the departments of emergency medicine and surgery of Hennepin County Medical Center, North Memorial Medical Center and Regions Hospital. Our residents now participate in activities at the University of Minnesota, HealthPartners Simulation Center at Metropolitan State University, and several other community hospitals. We have purchased two new ultrasound machines and instituted Wednesday afternoon ultrasound tutorials. Our faculty has an integral role in the new Regions Hospital Toxicology Fellowship.

Another goal of our residency is to offer residents the opportunity to individualize their educational experience within the confines of a three-year residency. Senior residents now have a selective rotation with opportunities at community hospitals such as Abbott Northwestern, St.

John's and St. Joseph's hospitals. We have instituted an EM-3 non-clinical shift (NCS) every Tuesday. During the NCS, a senior resident can choose from experiences such as teaching medical students procedural skills at the University of Minnesota or participating in teaching activities at the HealthPartners Simulation Center. Our emergency medicine electronic discussion list, known as EMRes, continues to grow and serves as a forum for residents, faculty, alumni, nurses, physician assistants, outside consultants and many others to share and discuss new knowledge.

Our residency strives to complement the transfer of knowledge with a transfer of meaning. This transfer of meaning fosters an environment where connections occur—with patients, co-workers, the community, and our alumni. We strive to lead by example, manage by fact and communicate by listening. Our goal is to incorporate the highest level of professionalism and humanism into our interactions with patients and other member of the healthcare team. Additionally, our residents continue to score near the top of their peers in the yearly in-service examination and our graduates have a first time board examination pass rate that exceeds the national average.

2005 also saw some additions to our residency leadership, faculty and residents. Dr. Jim Colletti joined our faculty as associate residency director and is a graduate of the University of Maryland's combined Emergency Medicine/Pediatric Residency. Dr. Jessie Nelson '04 joined the faculty after finishing an education fellowship with an emphasis on medical simulation. We matched a competitive class of residents who are featured in this report. We are grateful for the support of so many residency partners and feel fortunate for the opportunity to train the next generation of emergency physicians. We look forward to our next decade of education.

A handwritten signature in black ink, appearing to read 'Felix Ankel'.

Felix Ankel, MD

Director, Regions Hospital Emergency Medicine Residency Program

# Department Head Update



*Brent Asplin, MD MPH*

It is exciting to mark another year of progress as a department in 2005, and this year, we are celebrating a decade of success for our Emergency Medicine Residency Program. As we reflect on the accomplishments of the past year, one can only imagine what the next

ten years will bring to our department and to the broader emergency care system.

In 2005, we continued our efforts to integrate evidence-based medicine with evidence-based operations. As several Institute of Medicine (IOM) reports have documented, many of the quality problems in health care stem from a failure to develop reliable and safe systems of care. The IOM has challenged us to create systems of care that are safe, effective, patient-centered, timely, efficient, and equitable—also known as the six aims for quality improvement. It is easy to talk about the six aims; it is much more difficult to put them into practice. At Regions, we continue to challenge ourselves to incorporate the six aims into our educational programs, clinical operations, and research.

During the past year, we saw rapid growth in our medical simulation programs; the establishment of a required clerkship in emergency medicine at the University of Minnesota Medical School under the direction of Cullen Hegarty '01; and the start of a new fellowship program in medical toxicology at Regions Hospital. We added expertise to our faculty. Mary Carr has returned after a year-long fellowship in clinical forensics, and Jim Colletti joined us as associate residency director, enhancing our expertise in emergency pediatric care. Our residency graduates continue to do well throughout the country. In many cases, they have moved into leadership positions within their groups.

In 2005, we made another significant step forward with our electronic health record. Next year we will complete the transition with computerized provider order entry. We are also in the planning phases for a significant expansion

of our ED space to accommodate expected growth in patient volumes during the next 10 years. The first phase of this growth occurred in 2005, when we saw almost 5,000 more patients than in 2004.

Our research programs continue to grow. We currently receive federal research funding from the Agency for Healthcare Research and Quality, the National Library of Medicine, and the National Heart, Lung, and Blood Institute. Our EMS research program has grown rapidly during the past year and is currently participating in a multi-center study of active compression-decompression CPR with an impedance threshold device. We are excited to be playing a leadership role in this trial. Brad Gordon '02 and Thom Flottesch are building a healthcare operations toolkit that will collect electronic information from a variety of systems and present real-time operations information to managers. This information is critical for relieving patient flow bottlenecks and alleviating emergency department crowding.

In 2006, the IOM will release four reports on the future of emergency care in the U.S. health system. As a member of the committee, I expect that the reports will not only be incredibly significant for the U.S. emergency care system, they also will be provocative. There's no doubt that we will experience a number of significant changes in the broader health care system during the next decade. To withstand those changes, the emergency care system must become more adaptable, reliable, and robust. It is exciting to be part of an academic department of emergency medicine where the future of emergency care is "under construction" every day. I am confident that our department is asking the right questions and is poised to help shape the changes that will unfold during the coming decade.

Best wishes for a safe and happy 2006!

A handwritten signature in black ink, appearing to read "B Asplin". The signature is stylized and cursive.

*Brent Asplin, MD, MPH*

*Department Head, Emergency Medicine*

# Emergency Department Operations

The Regions Hospital Emergency Center is a Level I Trauma Center located in St. Paul, Minnesota serving the east metropolitan Twin Cities area, including western Wisconsin. The Emergency Center encompasses more than 15,000 square feet of clinical area with 35 treatment rooms including seven resuscitation rooms. In addition to the clinical area, the Emergency Center also includes 8,000 square feet for a departmental library, conference space and offices for faculty, residents and other department personnel.

The latest approximate Emergency Center figures are as follows:

- 66,000 patient visits per year
- 11% pediatric patients (age 16 or under)
- 2,500 trauma admissions and 700 trauma team activations each year
- 21% admission rate
- 60% of all hospital admissions come from the ED

The residents are part of the multidisciplinary care team that thrives on collaboration and teamwork and are able to tap into the decades of cumulative skill and experience of the Emergency Center staff. The critical members include:

- The Regions Hospital emergency nurses. The department is staffed with over 100 ACLS and TNCC trained nurses—many with ENPC, PALS and ENA certifications, as well as a full-time CNS (clinical nurse spe-

cialist) who are the catalysts for making a vital difference in patients' lives. The nurses define standards of excellence in care that lead the way for Best Care Best Experience for patients, their families, and staff at Regions Hospital emergency department.

- Sixty-four specially trained emergency room technicians provide hands-on support to the nursing and medical staff around the clock, and support the intensity, challenge and pace of a Level 1 Trauma Center.
- Over 10 fulltime physician assistant staff lend valuable clinical expertise and support in taking care of our patients in both the urgent care setting and in the main emergency department.
- Emergency medicine board certified and board eligible staff physicians. There are over thirty attending emergency physicians who provide didactic medical instruction and excellent bedside clinical teaching.

The latest technology is used to enhance the emergency department experience and support patient care. The care teams communicate throughout the department using the wireless hands-free device named Vocera. The Electronic Medical Record system EPIC is used throughout the entire HealthPartners organization. The Simulation Center, located at Metropolitan State University, offers hands-on patient simulation scenarios for the resident, physician and nursing staff.

*Richelle Jader, BSN, MHA  
Director, Emergency Center*

*Kathy Reeves, RN, CEN  
Nurse Manager, Emergency Center*

*Won Chung, MD, MS  
Clinical Director and Assistant Department Head*

*Jon Henkel, BSN, BHA  
Assistant Nurse Manager, Emergency Center*

*Jeff Fritz,  
Assistant Manager, Operations  
Emergency Center*



# A Decade of Learning

## History of Program

Dr. Robert Knopp founded the Regions Hospital Emergency Medicine Residency in 1994. Before arriving in St. Paul, he served 17 years as the residency director at Valley Medical Center in Fresno, California. The first class of residents began their training in 1996. Felix Ankel, MD has been involved with the residency since its inception and became residency director in July 2000. As of July 2005, the EM residency has graduated 54 residents from 21 medical schools that now practice in 15 states. Regions faculty are graduates of 16 different EM residencies.

## The HealthPartners Institute for Medical Education (IME)

The Regions Hospital Emergency Medicine Residency is a HealthPartners Institute for Medical Education residency training program. The IME was created in 1996 to provide an innovative structure to lead the organization's educational efforts. Today, the IME partners with academic institutions; provides an innovative environment for health provider education; and explores policies in health care workforce issues and studies issues in medical education. The IME focuses on five aspects of medical education: undergraduate and graduate medical education; nursing education; allied health professional education; continuing professional development; and medical library services.



Drawing on the combined experience of more than 500 staff physicians, the IME consists of an extensive network of health care professionals, a health plan with more than 660,000 members and Regions Hospital, a premier, full-service teaching and research hospital. The IME has a formal affiliation agreement with the University of Minnesota that guides the educational relationship between the two organizations. Regions emergency medicine staff enjoy faculty appointments within the department of emergency medicine at the University of Minnesota.

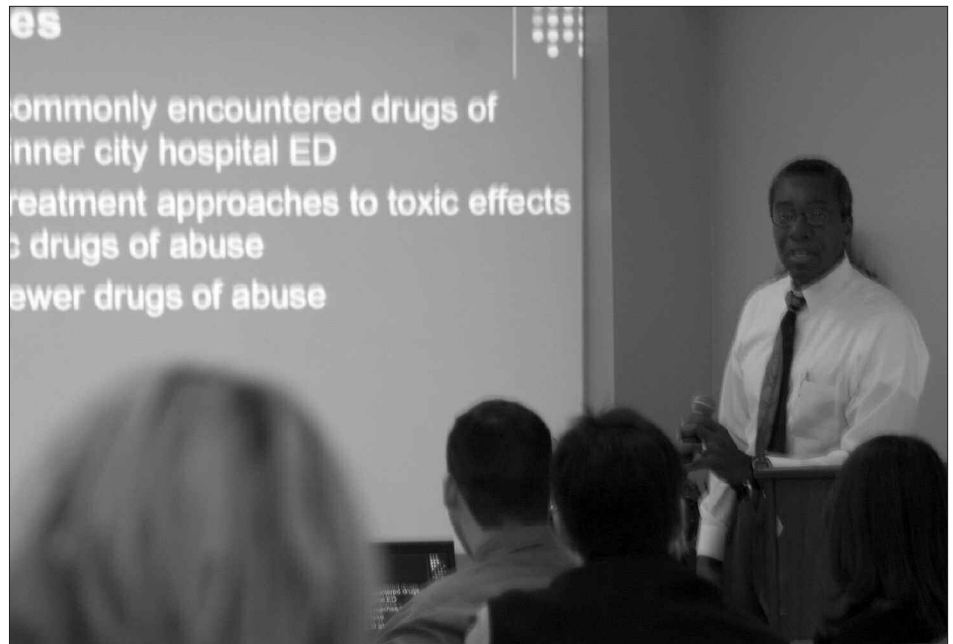
# Didactic Curriculum

Regions Hospital offers residents a full spectrum of topics in emergency medicine based on the Model of the Clinical Practice of Emergency Medicine. The core curriculum is designed to repeat itself in its entirety on an 18-month basis. As there are several modalities of learning, the didactic curriculum is set up to cover both the depth and breadth of emergency medicine through traditional as well as innovative and interactive means.

**Critical Case** is a favorite of residents and faculty alike. Critical Case 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.

**Grand Rounds** are presented by emergency medicine faculty and are targeted at advanced topics in emergency medicine. Grand Rounds presentations are at the quality of regional or national presentations and are meant to stimulate interest, discussion, and fervor over a progressive topic.

**Visiting Professor Series** include renowned speakers external to the program with an area of expertise in emergency medicine that are invited on a regular basis to speak on research or clinical topics.



**Core Content Lectures** reinforce knowledge which 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 three to four recent practice-changing articles are discussed. Journal Club is lead by an expert reviewer with the aid of a departmental research methodologist and statistician.

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

**“You Decide” Conference** is an interactive conference focused on several modalities of learning—reading, small group discussion,

simulation, and lecture. Residents are provided with up-to-date articles and an outline of the topic in advance. The topic is then discussed in a case-based format integrated with PowerPoint presentation and simulation.

**Board Review:** Residents are provided with a structured and focused written board review throughout the calendar year. Heavily weighted topics are presented in a lecture format where less weighted topics are presented in an interactive format with emphasis on high-yield information. Additionally, residents receive a yearly mock oral board exam administered by faculty.

*Jim Colletti, MD*  
*Associate Residency Director*

# Developing Simulation

The Emergency Medicine Residency Program has continued to incorporate inventive ways of teaching. We integrate simulation technology such as high-fidelity mannequins, part-task trainers, and hands-on haptics trainers in teaching residents. The majority of our simulation efforts take place at the HealthPartners Simulation Center for Patient Safety at Metropolitan State University. The physician faculty for the Simulation Center is an emergency medicine senior staff physician, fellowship trained through the Regions EMD.

EM residents are learning, teaching, and researching with simulation. We developed regular pediatric critical care workshops for residents and continue to do fiberoptic airway training. Mock oral boards took place at the Simulation Center, which allowed us to use a simulated scenario to evaluate PGY1s and PGY2s, as well as videotape all mock oral cases for later review and practice. PGY3s teach medical student resuscitation simulation workshops at the Simulation Center. Two resident research projects investigated simulation-based education.

The remainder of the emergency medicine department has jumped on the simulation bandwagon. The Toxicology Program now has a monthly simulation workshop. We held the first annual Physician



Assistant Critical Care Skills Day at the Simulation Center which was very well received. Medical students and rotating residents continue to practice resuscitation at the Simulation Center, and a workshop in Crisis Resource Management for Emergency Medicine was developed with residents, nurses and technicians. This workshop is now being used in the training of community emergency departments in the non-clinical skills needed for successful resuscitation.

We have even bigger plans for 2006. Through generous grant funding, the EMD has purchased a high-fidelity mannequin and three part-task trainers, and will incorporate simulation into the residency conferences on a quarterly basis.

*Jessie Nelson, MD  
Senior Staff  
Physician Faculty, HealthPartners  
Simulation Center for Patient Safety  
at Metropolitan State University*

*Cullen Hegarty, MD  
Assistant Residency Director  
Director, Emergency Medicine  
Simulation Program*

# Enhancing Ultrasound

Regions Hospital emergency department is committed to training emergency medicine residents in the most up-to-date technology available for the care of emergency patients. By the end of the third year of training, residents will demonstrate appropriate knowledge and skill in the use of emergency department ultrasound. Ultrasound applications that are mastered in emergency residency training are the trauma (FAST) exam, emergency echocardiography, abdominal aortic aneurysm evaluation, examination of undifferentiated hypotension, and procedural ultrasound including vascular access, thoracentesis, paracentesis, and bladder identification.

**Clinical experience:** Residents currently use two state-of-the-art ultrasound machines available for departmental use 24 hours a day. Residents are encouraged to perform ultrasounds on patients indicated by clinical presentation and are supervised by EM faculty. Emergency ultrasound is introduced early to EM-1 with a lecture in their orientation and directed tutorials in the department focused on familiarization with the machine, how to obtain and recognize quality images, and the protocols utilized with the applications. EM-2 and EM-3s are responsible for all trauma team activation ultrasounds. Additional ultrasound experience is obtained with ultrasound workshops, which encourage the resident to further master the use of ultrasonography in their practice



with one-on-one faculty hands-on teaching.

**Didactic experience:** A lecture series including basic ultrasound physics, focused assessment sonography for trauma (FAST) exam, emergency echocardiography, abdominal aortic aneurysm evaluation, examination of undifferentiated hypotension, and procedural ultrasound is covered over an 18-month core content curriculum. Prior to residency graduation, residents are given advice on setting up an ultrasound program in their new job.

**Evaluation process/Feedback mechanisms:** Residents receive immediate feedback on ultrasound technique, image quality, and troubleshooting techniques by the supervising emergency department faculty. 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 quarterly report of number and type of ultrasounds they have done in the ED, which is reviewed during the semi-annual resident evaluation meeting with the program director. At the completion of residency, documentation is provided from the program director for future emergency ultrasound credentialing.

*Kurt Isenberger, MD  
Peter Kumasaka, MD  
Richard Lamon, MD  
Directors of Emergency Ultrasound Education*



**Luke Albrecht, MD**

- University of Minnesota
- Former EMT
- Assistant coach for Rolling Thunder Youth Wrestling
- Enjoys mountain biking, choral and solo singing, WWII history



**Kelly Barringer, MD**

- Michigan State University
- AOA Member
- Volunteer for medical mission in West Africa
- Former player for Provo Blades Women's Ice Hockey league
- Interests also include hockey, rock climbing, art, travel, marathon running



**Joey Charles, MD**

- University of North Dakota
- Paramedic
- Ski patrol at Red Lodge Mountain Resort
- Enjoys telemark snow skiing, running, reading, horseback riding

## Expanding Toxicology

The Toxicology Service is an active section of the EMD. The primary role of the service is to provide education on toxicology topics and consultations to the ED, hospital wards and clinics 24 hours a day, 365 days a year.

We are proud to be a part of the new Regions Hospital medical toxicology fellowship which began July 1, 2005 in conjunction with the department of occupational and environmental health and Hennepin County Regional Poison Control Center. This two-year fellowship will qualify a candidate to sit for the medical toxicology boards. In 2005, we also accepted our first PharmD clinical toxicology resident.

This year, the 'Tox' Service coordinated and hosted several multidisciplinary conferences involving the Renal Service, Digestive Care Service and Hepatology, and University of Minnesota transplant surgeons. We developed and coordinated a Toxicology Review Course for Primary Care and Emergency Physicians in the region. Other educational endeavors during the year included our weekly educational conferences: Interesting Case Discussions, Core Toxicology Lectures, Tox Journal Club and toxicology book chapter reviews including our twice-monthly Adverse Drug Reactions Review and our monthly Forensic Toxicology Case Review. We have a close relationship with the Hennepin County Regional

Poison Control Center and share in the educational roles of each center.

During 2005, the Tox Service gave approximately 20 formal presentations at regional conferences, community hospital grand rounds, local schools and colleges, and Regions Hospital. The service averages approximately 30 formal consultations a month, in addition to informal educational consults and telephone consults. Thirteen EM residents, 5 medical students, 2 PA students and 20 PharmD candidates rotated on the Tox Service this year. Other rotators included pediatric emergency medicine fellows and family medicine residents.

We have developed several cases for the monthly Toxicology Simulation Case Management held at the HealthPartners Simulation Center for Patient Safety at Metropolitan State University. In addition, the service participates in toxicology-related clinical and animal research, and we are in the process of developing research projects in the area of decontamination, as well as management of toxin-induced shock.

*Carson Harris, MD*  
*Director, Toxicology Consult Service*

*Kristin Engebretsen, PharmD*  
*Clinical Toxicologist*

*Matthew Morgan, MD*  
*Fellow, Toxicology*

# Habits of Lifelong Learning

During the previous year, we've worked to maintain a consistent level of educational resources available to our faculty, residents and alumni through the use of EMREL, the Emergency Medicine Residency Electronic Library. With the resident volunteer help from Kevin Smith and Luke Albrecht, we have continued to record conference video and place it on the EMREL website.

Our EMRes email distribution list has reached 131 members, up 11 since the previous year. The list averages approximately 27 messages a month.

Obtaining external information and new knowledge from the medical (and non-medical) community has never been easier. The residency and HealthPartners continues to provide access to a number of useful online resources for our residents and faculty including:

- UpToDate
- Electronic Journal List—Regions Hospital Medical Library (full text access to 692 medical journals)
- Emergency Medicine Abstracts (with Rick and Jerry Audio in downloadable or audio CD format)
- EM RAP (Emergency Medicine Reviews and Perspectives)
- EM Reports (paper and online)
- Pediatrics EM Reports (paper and online)

- Audio Digests
- MD Consult
- EBSCO HealthCare and Business Journals Databases
- Cochrane Library
- StatREF Online Textbooks (major specialty textbooks)
- MicroMedex drug and toxicology information

Obtaining follow-up information on the individual patients that one treated in the ED is an important method of learning. With our digital documentation tool, EPIC, in place, we are developing more tools for following up on individual patient progress after patients leave the ED. In the future, we hope to implement tools designed to provide customized, on-demand follow-up reports to further remove barriers in this information.

While the habits of lifetime learning are personal behaviors, our residency hopes to teach methods of continual education as well as provide tools to make it easy, effective and fun.

*Brad Gordon, MD*  
*Director, Residency Technology*



**Mark Connelly, MD**

- University of Minnesota
- Medical school class vice president
- Medical mission volunteer in Jamaica
- Enjoys snowshoeing, snowboarding, hunting, fishing



**Ben Peake, MD**

- Mayo Medical School
- Medical school outstanding achievement award
- Habitat for Humanity volunteer
- Former assistant coach, Kasson Mantorville wrestling team
- Enjoys rock climbing, hiking, soccer, ultimate frisbee



**Jonathan Shultz, MD**

- University of Kansas
- Paramedic
- Former natural resource manager
- Enjoys sailing, skiing, swimming, mountain biking

# Residency Presentations 2005



**Natasha Srb, MD**

- University of North Dakota
- Mentor for at-risk youth
- Founding member, UND Chapter of Physicians for Human Rights
- Interests include music, film, musical theater, scuba diving



**Samuel Stellpflug, MD**

- University of Wisconsin
- Former assistant coach for Waterloo High School varsity basketball
- Jiu-Jitsu teacher and trainer
- Enjoys basketball, golf, family and friends



**Paul Travnicek, MD**

- University of South Dakota
- National Health Service Corps' Alaskan SEARCH Program
- Former taxicab driver
- Interests include hiking, biking, fishing, paintball, music

The Regions Hospital Emergency Medicine Residency supplements the clinical learning experience with lectures, workshops and procedural skills labs which 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:** 232 conference hours

**Hours of attendance:** 4,892 resident hours of attendance

**Number of workshops:** 55 workshops were taught to 50 rotating residents, 90 medical students and 7 PA students.

**Number of labs:** 31 residents participated in 21 procedural skill labs

*Teri Gunnarson, MD  
Assistant Residency Director*

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## Medical Student Program

University of Minnesota and out-state students continue to enroll in our three rotations—the core rotation, the advanced EM rotation and the toxicology rotation. The University of Minnesota has made the core rotation a required course. All students rotating in the East Metro area (Regions, St. John's, St. Joseph's, United and University of Minnesota hospitals) attend conferences and workshops at Regions.

Students	2003	2004	2005
University of Minnesota students	57	50	63
Out-state students	16	22	14
Advanced students	13	28	26
Tox students	5	5	4

*Cullen Hegarty, MD  
Course Director, Emergency Medicine Clerkship  
University of Minnesota Medical School*

# Letter from the Chief Residents

It's been an exciting year presiding as chief residents as we strive to strengthen our presence in the emergency department, expand our outreach to our community emergency medicine partners, and enhance our role as educators at the University of Minnesota Medical School. We also work to ensure that residents are exposed to the best training experience possible at Regions Hospital. Some particular examples of how we met these goals in 2005 include:

- Addition of an emergency medicine selective rotation for senior residents to allow a broadened experience in a community-based setting. Currently our program has agreements with three local hospitals and more expected within the next year.
- Patient-based scheduling to optimize patient care, experiential learning, bedside teaching, and team-based care.
- Continuous evaluation of off-service rotations (e.g. orthopedics, OB/GYN, plastic and hand

surgery, MICU and SICU) to ensure that residents are involved in experiences relevant to emergency care in a safe and supportive environment.

- Introduction of non-clinical shifts to allow residents to take a leadership role in teaching medical students and residents procedural workshops at Regions Hospital, resuscitation simulations at the HealthPartners Center for Patient Safety, and medical student sessions at the University of Minnesota.

We are able to do this with the strong support, encouragement, and leadership of our residency program staff in a well-staffed and nurturing emergency department. We look forward to next year as we continue to maintain excellence in emergency medicine training and patient care.

*Martin Richards, MD*

*John Travnicek, MD*

*2005-2006 Chief Residents*

## NEW FACULTY 2005



**James Colletti, MD**

- Hometown: Chicago, IL
- Undergrad: Loyola University
- Medical School: The Chicago Medical School
- Residency: University of Maryland



**Jessie Nelson, MD**

- Hometown: Enderlin, ND
- Undergrad: University of Minnesota
- Medical School: University of Minnesota
- Residency: Regions Hospital, St. Paul, MN
- Fellowship: Regions Hospital Education/Simulation



*Class of 2008*

# Growing with EMS

At Regions Hospital, an important part of the EMS mission is making the EMS experience a highlight of the residency. The program offers a myriad of experiences aimed at providing the resident a meaningful education in EMS. We believe this education will aid the resident throughout his/her career, regardless of whether or not that career involves medical direction responsibilities.

The one-month rotation occurs in the first year. It includes ride-alongs with several services which represent a variety of ways that EMS is delivered in the United States. These ride-along experiences are aimed at giving the resident an idea of pre-hospital medicine and an appreciation for some of the unique challenges faced by pre-hospital personnel. There is also a ride-along with the medical director, which provides an overview of the entire system. A shift is offered on the LifeLink III helicopter that provides residents with some familiarization with air-medical care of patients and with critical care inter-facility transport.

With time spent in both the dispatch center and in the Medical Resource Control Center (MRCC), the resident becomes acquainted with EMS communications and medical control. The medical management of Multiple Causality Incidents (MCIs) is discussed during the rotation and, if possible, the residents participate in MCI drills that may occur during the rotation.



EMS teaches more than 75 courses a year, including ACLS and PALS. There are multiple opportunities for residents to teach those courses. Regions Hospital EMS also provides the medical direction for the Inver Hills Community College paramedic program. Several of the residents have taught at the college and have then become significantly involved in that program. *During 2005, residents taught over 175 hours with EMS.*

Residents also participate in critical case reviews with the paramedics and EMTs. During the month, the resident attends several administration meetings including staff meetings, EMS agency meetings and emergency medical dispatch tape reviews. This administrative activity gives the residents a flavor for the business and the politics associated with EMS. For residents interested in a career in EMS, and for those who would like to make some aspect of EMS their scholarly project, EMS offers associate medical

directorships and multiple research opportunities to EM residents.

Research at Regions EMS has expanded in 2005, most notably with studies funded by the National Institutes of Health and the U.S. Department of Defense. These and other projects offer residents the opportunity to become involved in research, including project design, the Institutional Review Board process, opportunities for on-scene quality assurance measures, and manuscript preparation and writing.

Regions EMS staff strives to make the EMS experience valuable, interesting and enjoyable. We believe that the opportunity to work with residents enriches both the resident and the EMS system.

*RJ Frascione, MD*  
*EMS Medical Director*

*Koren Kaye, MD*  
*EMS Co-Medical Director*

*Patrick L McCauley*  
*EMS Program Director*

# Current Residents

## Class of 2006

Nathan Anderson, MD  
 Scott Donner, MD  
 Jeffrey Geddes, MD  
 Elizabeth Godin, MD  
 Martin Richards, MD  
 Trenten Thorn, MD  
 John Travnicek, MD  
 Melissa Tschohl, MD  
 Joseph Wahlberg, MD

## Undergraduate

Colorado College Colorado Springs  
 University of Kansas  
 University of Minnesota-Duluth  
 University of Wisconsin-Madison  
 Augsburg College  
 Brigham Young University  
 Mount Marty College  
 St. Cloud State University  
 Gustavus Adolphus College

## Medical School

University of Minnesota  
 University of Kansas  
 University of North Dakota  
 Medical College of Wisconsin  
 University of Minnesota  
 University of Utah  
 University of South Dakota  
 University of Minnesota  
 University of Minnesota

## Class of 2007

Roseann Ekstrom, MD  
 Sandy Fritzl, MD  
 Martin Klinkhammer, MD  
 Heidi Lako-Adamson, MD  
 Joseph Madigan, MD  
 Emily Mason, MD  
 Lane Patten, MD  
 Kevin Smith, MD  
 Beth Wicklund, MD

## Undergraduate

University of Minnesota  
 University of Minnesota-Duluth  
 St. John's University  
 North Dakota State University  
 University of St. Thomas  
 University of St. Thomas  
 University of Minnesota  
 Wartburg College  
 Tufts University

## Medical School

University of Minnesota  
 Mayo Medical School  
 Mayo Medical School  
 University of North Dakota  
 University of Minnesota  
 University of Wisconsin  
 University of Minnesota  
 University of Iowa  
 University of Minnesota

## Class of 2008

Luke Albrecht, MD  
 Kelly Barringer, MD  
 Joey Charles, MD  
 Mark Connelly, MD  
 Ben Peake, MD  
 Jonathan Shultz, MD  
 Natasha Srb, MD  
 Samuel Stellpflug, MD  
 Paul Travnicek, MD

University of Minnesota-Morris  
 Brigham Young University  
 University of North Dakota  
 St. John's University  
 North Dakota State University  
 University of Wisconsin-Eau Claire  
 University of Minnesota  
 Marquette University  
 South Dakota State University

University of Minnesota  
 Michigan State University  
 University of North Dakota  
 University of Minnesota  
 Mayo Medical School  
 University of Kansas  
 University of North Dakota  
 University of Wisconsin  
 University of South Dakota

## 2005 Residency Awards/ Recognition/Honors

### Star Award

#### Keith Henry, MD

(resident teacher selected by medical students)

### Apple Award

#### Rachel Dahms, MD & Rob LeFevere, MD

(faculty teacher selected by medical students)

### Faculty Teaching Award

#### Felix Ankel, MD

(EM faculty teacher selected by residents)

### Nurse Educator Award

#### Donovan Taylor, RN

(EM nurse teacher selected by residents)

### Excellence in EMD Research

#### Sandy Fritzl, MD

### Ian Swatez Award

#### Bruce Bennett, MD

(faculty teacher from outside EM selected by residents)

### Robert Knopp Humanism Award

#### Keith Henry, MD & Jon Hokanson, MD

### Outstanding Presentation at NAEMSP national meeting.

#### Nicole Stethem, MD

### Resident National Committee and Academic Involvement 2005

### EMRA Representative

#### Nathan Anderson, MD

### SAEM-GME Committee

#### Lane Patten, MD

### EM Practice Editorial Board

#### Beth Wicklund, MD

# Publications

## Articles

**Asplin BR**, Rhodes KV, Levy H, Lurie N, Crain AL, Carlin BP, Kellermann AL. Insurance status and access to urgent ambulatory care follow-up appointments. *JAMA* 2005;294(10):1246-1254.

Nagurney JT, Brown DF, Chae C, Chang Y, **Chung WG**, Cranmer H, Dan L, Fisher J, Grossman S, Tedrow U, Lewandrowski K, Jang IK. The Sensitivity of Cardiac Markers Stratified by Symptom Duration. *J Emerg Med*. 2005 Nov;29(4):409-15.

Nagurney JT, Brown DF, Chae C, Chang Y, **Chung WG**, Cranmer H, Dan L, Fisher J, Grossman S, Tedrow U, Lewandrowski K, Jang IK. Disagreement Between Formal and Medical Record Criteria for the Diagnosis of Acute Coronary Syndrome. *Acad Emerg Med*. 2005 May; 12(5):446-52.

**Colletti JE**, Giudice EL. Syphilis screening in a high-risk inner-city adolescent population. *Am. J. Emerg. Med*. 2005; 23, 225-226.

Hess EP, **Colletti JE**. Images in Emergency Medicine. Laryngeal papilloma. *Ann Emerg Med*. 2005 Nov;46(5):405, 419.

Aufderheide T, **Frascone R**, Pirralo R. Resuscitation in 2005: New Ways to Optimize Manual CPR. *Emergency Medical Services*. September, 2005. Pages 42-45.

**Holger JS**, **Satterlee PS**, Beyer S. Comparison of Nursing Utilization Between Two Methods of Conscious Sedation: Midazolam vs. Propofol. *Am J Emerg Med*. May 2005;23(3): 248-252

Klee G, **Holger JS**, Kottke TE, Mookadam F. B-Type Natriuretic Peptide (BNP) for the Diagnosis and Management of Congestive Heart Failure.



Technology Assessment Report #91. Institute for Clinical Systems Improvement. September 1, 2005.

**Kilgore K**: Missed Opportunities While Evaluating Ankle Injuries in the Emergency Department. *EmedHome.com*, November, 2005.

**McBeth BD**, Stern SA, Wang X, Mertz M, Zink BJ. "Effects of Cocaine in an Experimental Model of Traumatic Brain Injury. 12(6):483-490, *Acad Emerg Med*, June 2005.

## Scientific Presentations

**Frascone, RJ**: 2005 Air Med Conference June 20 -22, 2005 in Barcelona, Spain. Poster presentation on "Evaluation of Bispectral Index as a Measure of Adequate Sedation During Aeromedical Transport"

**Gunnarson TM**, Whitebird RR, **Flottesch TJ**, Asche SE, Martinson BC, Degelau JJ. The Relationship of Biopsychosocial Factors and Continuity of Primary Care to Emergency Department Use Among Seniors. Presented at the Annual Meeting of the American Geriatrics Society, Orlando, FL, May, 2005.

**Harris CR**, **Hokanson JS**. Isoniazid-induced seizures during therapeutic Dosing. Poster presented at The Third Mediterranean Emergency Medicine Congress. Nice, France – September 3, 2005

**Harris CR**. Small Bowel Necrosis following Overdose of Amlodipine and clonidine in Cocaine Addict. Poster presented at The Third Mediterranean Emergency Medicine Congress. Nice, France – September 3, 2005

**Holger JS**, **Engebretsen KM**, **Fritzlar SJ**, **Patten LC**, **Harris CR**. Insulin Versus Vasopressin and Epinephrine to Treat Beta-Blocker Toxicity. *Clinical Toxicology* 2005; 43 (6):729-730 (abstract). Presented at North American Congress of Clinical Toxicology, Orlando, FL, September, 2005.

Page D, **Stethem N**, **Kaye K**. Paramedic Core Competencies, oral presentation at NAEMSP Annual Meeting, Florida, January, 2005.

## Book Chapters

**Colletti JE**. Diarrhea. In: *The Clinical Practice of Emergency Medicine*. Harwood A, et al, editors. Fourth Edition. Philadelphia:Lippincott Williams & Wilkins, 2005 p 1218-1223

## National & International Presentations

**Ankel, Felix**: *Letters of Recommendations/ Advising Medical Students*. CORD Navigating the Academic Waters: Tools for Emergency Medicine. New Orleans March, 2005.

**Ankel, Felix**: *Closing the Quality Chasm: Educational Initiatives for Academic Emergency Medicine*. SAEM Annual Meeting, New York, NY, May, 2005.

**Ankel, Felix**: *Emergency Medicine Core Curriculum Design*. Presented at CORD Program Directors Workshop, Third Mediterranean Emergency Medicine Congress, Nice France, September, 2005.

**Ankel, Felix**: *Emergency Medicine Education Integration Into Health Systems*. Presented at CORD Program Directors Workshop, Third Mediterranean Emergency Medicine Congress, Nice France, September, 2005.

**Asplin, Brent**: *Epidemic of Care: Facing the Future Demand for Health Care*" (Invited) Association of American Medical Colleges Washington D.C., November, 2005.

**Asplin, Brent**: *Saving the Safety Net: Dealing with Uncompensated Care and Ensuring Emergency Department Access*. American College of Emergency Physicians Scientific Assembly, Washington D.C., October, 2005.

**Asplin, Brent**: *Expert Panel Roundtable Discussion: The Challenge of Emergency Department Overcrowding* American College of Emergency Physicians, Washington D.C., October, 2005.

**Asplin, Brent**: *Defining the Research Agenda for ED Crowding and Patient Flow – Lessons from the Robert Wood Johnson Foundation's Urgent Matters Project*. Society for Academic Emergency Medicine Annual Meeting, New York, NY, May, 2005.

**Asplin, Brent**: *Closing the Quality Chasm: Research and Educational Initiatives for Emergency Medicine*. (Moderator) Society for Academic Emergency Medicine Annual Meeting, New York, NY, May, 2005.

**Asplin, Brent**: Moderator, ED Overcrowding Oral Paper Session Society for Academic Emergency Medicine Annual Meeting, New York, NY, May, 2005.

**Asplin, Brent**: *The Future of Throughput: Dynamics of Change In Complex Organizations to Facilitate Patient Flow*. The Third Strategies to Optimize Patient Throughput Conference sponsored by World Research Group, Chicago, IL, July 2005

**Asplin, Brent**: Keynote Address: *A Room With A View Transforming Policy in Emergency Care Systems*. From Research to Policy: Transforming California's Emergency Healthcare System, sponsored by UC Davis, Sacramento, CA, October, 2005

**Carr, Mary**: Testimony before MN Legislature on Strangulation Bill, February, 2005.

**Colletti, James**: *Neonatal Catastrophes: Not to Miss Subtle Presentations in the Smallest Humans*. Challenges in Emergency Medicine Symposia Medicus St. Thomas, US Virgin Islands November, 2005



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**Colletti, James:** *Pediatric Sedation: Which Sedation Agents Would You Choose?* Challenges in Emergency Medicine Symposia Medicus, St. Thomas, US Virgin Islands, November 2005

**Colletti, James:** *Pediatric Myths and Misnomers: Fact or Fiction?* Challenges in Emergency Medicine Symposia Medicus St. Thomas, US Virgin Islands, November 2005

**Colletti, James:** *Ouch That Hurts: Pearls & Pitfalls in Pediatric Fracture Management.* Challenges in Emergency Medicine Symposia Medicus St. Thomas, US Virgin Islands, November 2005

**Colletti, James:** *Cardiovascular.* AAEM Written Board Review Course. Atlanta, Georgia, October 2005

**Colletti, James:** *HEENT.* AAEM Written Board Review Course. Atlanta, Georgia, October 2005

**Colletti, James:** *Pediatric Myths and Controversies: Fact or Fiction.* New Speaker Forum. ACEP Scientific Assembly. Washington, DC, September, 2005

**Frascone, RJ:** CPR: State of the Art. 2005 Air Med Conference, Barcelona, Spain, June, 2005.

**Gordon, Bradley:** Creating an On-line Conference Video Library. CORD Academic Assembly, New Orleans, LA, March, 2005

**Hegarty, Cullen, Lako, Heidi:** CPC Competition, SAEM Annual Meeting, New York, NY, May, 2005

## Grants and Funded Studies

**Asplin, Brent (PI),** Rhodes KV, **Flottemesch TJ,** Wears R, Camargo, CA. Jr., Hwang U, Richards C, Tiffany B, O'Keefe S, Bernstein S: Kaiser

Family Foundation, A Multicenter Study of ED Crowding (2002-Present)

**Asplin, Brent:** K-08 Career Development Award, Agency for Healthcare Research and Quality: ER Crowding: Causes and Consequences (2002-Present)

**Asplin, Brent (PI),** Rhodes KV, Crain AL, Kellermann AL, Lurie N: Kaiser Family Foundation: The Emergency Department Access Study: Insurance as a Barrier to Acute Outpatient Follow-up Care (2003-2005)

**Anderson, Nathan (PI), Thorn, T, Asplin, BA:** Emergency Medicine Foundation, Resident Research Grant: Time to Intervention During Periods of ED Crowding (2003-2005)

**Carr, Mary:** Bush Medical Fellowship: Clinical Forensic Medicine (2004-2005)

DeGalau, John J (PI), **Gunnarson, T,** Whitebird, R, **Flottemesch, TJ,** Martinson, B: HealthPartners Research Foundation Internal Grant: Transitional Care in a Healthcare Organization: Outcomes of Post-hospital Care and Care in Lieu of Hospitalization - HealthPartners Research Foundation (2003-Present)

**Donner, Scott (PI), Hegarty, C:** HealthPartners IME/GME, Training of Emergency Medicine Residents Using Simulation (2004-Present)

**Flottemesch, TJ (PI), Asplin, BR, Gordon, B:** Emergency Medicine Foundation, Riggs Health Policy Grant: Estimating the Costs of ED Crowding (2003-Present)

**Flottemesch, Thomas J (PI), Gordon, B:** HealthPartners Research Foundation: Developing an Emergency Department Operational Toolkit (2004-Present)

**Frascone, RJ:** National Institute of Health (NIH): The ResQ Trial: Comparison of conventional CPR to ACD-CPR plus an ITD and to conventional CPR plus an ITD on survival from out-of-hospital cardiac arrest. (2004-Present)

**Gordon, Brad:** K-22 Career Development Award, National Library of Medicine: ED Operations Research Infrastructure (2003-Present)

**Harris, Carson (PI), Flottemesch, TJ, Morgan, M, Gordon, BD, Ekstrom, R, Bruzek, R:** HealthPartners Research Foundation Internal Grant: Medication Errors in the Emergency Department. (2004-Present)

**Hegarty, Cullen Morgan, M:** HealthPartners IME: A human simulator versus plastic mannikin in resuscitation workshops for medical students (2004-Present)

**Holger, Joel (PI), Engebretsen, K, Harris, C, Scheft, K:** HealthPartners Research Foundation, Internal Grant: A Comparison of Vasopressin and Epinephrine, and Insulin in Beta-blocker Induced Toxicity (2003-Present)

**Isenburger, Kurt (PI), Holger, J:** HealthPartners IME/GME: The Prophylactic Use of Ondansetron in Toxic Ingestions (2002-Present)

**McBeth, Brian (PI), Flottemesch, TJ, Ling, L, McNamera, R, Ankel, F:** HealthPartners Research Foundation Internal Grant: Substance Use in Emergency Medicine Training Programs by Resident Report (2005-Present)

**Richards, Martin (PI), Holger, J, Frascone, RJ, Poor, K:** U.S. Department of Defense Research Grant No. W81XWH-04-C-0022: Evaluation of an Inspiratory Impedance Threshold Device (ITD) in the Emergency Department for the Treatment of Hypotension (2004-Present).

**Boldface: faculty**

**Boldface italics: residents**

# Emergency Medicine Grads

## Class of 1999

Chanah DeLisle, MD  
 Craig Grorud, MD  
 Amy Kolar, MD  
 James Parker, MD  
 Jason Roth, MD  
 Kevin Sipprell, MD  
 Jeffrey Young, MD  
 Robert Zeleznikar, MD, PhD

## Medical School

University of Minnesota  
 University of North Dakota  
 Creighton University  
 Mayo Medical School  
 University of Colorado  
 University of Minnesota  
 University of Minnesota  
 University of Minnesota

## Current Location

St. Francis Hospital - Shakopee, MN  
 Minneapolis, MN  
 North Memorial Medical Center- Robbinsdale, MN  
 St. Francis Hospital - Shakopee, MN  
 St. Anthony Hospital - Denver, CO  
 Ridgeview Hospital - Waconia, MN  
 Elmendorf Air Force Base - Anchorage, Alaska  
 University of Minnesota Medical Center - Minneapolis, MN

## Class of 2000

Bradley Barth, MD  
 Mark Bernas, MD  
 Mary Fehringer Drake, MD  
 Theresa Gunnarson, MD  
 Paul Jewett, MD  
 Hal Minnigan, MD, PhD  
 Paul Satterlee, MD  
 Jeffrey Vespa, MD

## Medical School

University of Minnesota  
 University of Minnesota  
 University of Nebraska  
 University of Minnesota  
 St. Louis University  
 University of Minnesota  
 University of South Dakota  
 Loyola University

## Current Location

St. Joseph's Hospital - St. Paul, MN  
 Deceased  
 Bozeman Deaconess Hospital - Bozeman, MT  
 Regions Hospital - St. Paul, MN  
 University of Minnesota Medical Center - Minneapolis, MN  
 Wishard Hospital - Indianapolis, IN  
 North Memorial Medical Center - Robbinsdale, MN  
 North Memorial Medical Center- Robbinsdale, MN

## Class of 2001

Cheri Audrain-Schroeder, MD  
 Frank Coughlin, MD  
 Cullen Hegarty, MD  
 Bradley Hernandez, MD  
 Karen Lushine, MD  
 John Seidner, MD  
 James Wood, MD  
 Susan Zola Cullinan, MD

## Medical School

University of Nevada  
 University of South Dakota  
 University of Minnesota  
 University of Iowa  
 University of Minnesota  
 University of Vermont  
 Mayo Medical School  
 University of North Dakota

## Current Location

Fairview Southdale Hospital - Edina, MN  
 Bryan LGH Medical Center - Lincoln, NE  
 Regions Hospital - St. Paul, MN  
 Regions Hospital - St. Paul, MN  
 St. Mary's Hospital - Duluth, MN  
 Elliot Hospital - Manchester, NH  
 Kaiser Permanente Northwest - Portland, OR  
 Luther Midelfort Hospital - Eau Claire, WI

## Class of 2002

Marny Benjamin, MD  
 John Bonta, MD  
 Laresa DeBoer, MD  
 Bradley Gordon, MD  
 Randall Hofbauer, MD  
 Patrick Holland, MD  
 Phelps Johnson, MD, PhD

## Medical School

Loyola University  
 University of Nebraska  
 University of Minnesota  
 Creighton University  
 University of Minnesota  
 University of Hawaii  
 Medical College of Wisconsin

## Current Location

Methodist Hospital - St. Louis Park, MN  
 Bryan LGH Medical Center - Lincoln, NE  
 Ridgeview Hospital - Waconia, MN  
 Regions Hospital - St. Paul, MN  
 Keesler Air Force Base - Biloxi, MS  
 Madigan Army Medical Center -Seattle, WA  
 St. Mary's Hospital - Duluth, MN

## Class of 2003

Kendal Baker, MD  
 Stephen Wade Barnhart, MD  
 Lynn Howard, MD  
 Cynthia Kelmenson, MD  
 Christopher Obetz, MD  
 Christopher Russi, DO  
 Peter Tanghe, MD  
 Clark Williams, MD

## Medical School

Indiana University  
 Indiana University  
 University of Minnesota  
 University of Pennsylvania  
 University of Minnesota  
 Des Moines University  
 University of Minnesota  
 University of Wisconsin

## Current Location

Hancock Regional Hospital - Greenfield, IN  
 North Memorial Medical Center - Robbinsdale, MN  
 St. Joseph's Medical Center - Brainerd, MN  
 Medical Center of Aurora - Denver, CO  
 Abbott Northwestern Hospital - Minneapolis, MN  
 University of Iowa - Iowa City, IA  
 Fairview Ridges Hospital - Burnsville, MN  
 Santa Clara Medical Center - San Jose, CA

## Class of 2004

Tanya Kleven Decker, MD  
 Jon Fuerstenberg, MD  
 Kurt Isenberger, MD  
 Robert LeFevere, MD  
 Jessie Gillund Nelson, MD  
 Kelly Rhone, MD  
 Stephanie Witt, MD

## Medical School

University of North Dakota  
 Mayo Medical School  
 Medical College of Wisconsin  
 Creighton University  
 University of Minnesota  
 University of South Dakota  
 East Carolina University

## Current Location

St. Luke's Hospital - Cedar Rapids, IA  
 Critical Care Fellowship - University of Minnesota  
 Regions Hospital - St. Paul, MN  
 Regions Hospital - St. Paul, MN  
 Regions Hospital - St. Paul, MN  
 Bryan LGH Medical Center - Lincoln, NE  
 MetroHealth Medical Center - Cleveland, OH

## Class of 2005

Jared Friedman, MD  
 Keith Henry, MD  
 Jonathan Hokanson, MD  
 Nicholas Johnson, MD  
 Todd Joing, MD  
 Darren Manthey, MD  
 Matthew Morgan, MD  
 Ann Schapiro, MD  
 Nicole Stethem, MD

## Medical School

University of South Dakota  
 University of Arizona  
 University of Minnesota  
 Creighton University  
 University of Minnesota  
 University of Minnesota  
 Finch University  
 University at Buffalo SUNY  
 University of South Dakota

## Current Location

Avera McKennan Hospital – Sioux Falls, SD  
 St John's Hospital – Maplewood, MN  
 Abbott Northwestern Hospital – Minneapolis, MN  
 Abbott Northwestern Hospital – Minneapolis, MN  
 Fairview Southdale Hospital - Edina, MN  
 Sioux Valley Hospital – Sioux Falls, SD  
 Toxicology Fellowship – Regions Hospital - St Paul, MN  
 Catholic Health Systems – Buffalo, New York  
 Avera McKennan Hospital – Sioux Falls, SD

# Faculty

## Faculty

Felix Ankel, MD  
Brent Asplin, MD, MPH  
Scott Burry, MD  
Mary Carr, MD  
Won Chung, MD  
James Colletti, MD  
Rachel Dahms, MD  
Robert Dahms, MD  
RJ Frascone, MD  
Bradley Gordon, MD  
Teri Gunnarson, MD  
Paul Haller, MD  
Jeahan Hanna, MD  
Carson Harris, MD  
Cullen Hegarty, MD  
Bradley Hernandez, MD  
Joel Holger, MD  
Kurt Isenberger, MD  
Kory Kaye, MD  
Kevin Kilgore, MD  
Robert Knopp, MD  
Peter Kumasaka, MD  
Richard Lamom, MD  
Robert LeFevere, MD  
Barbara LeTourneau, MD  
Brian McBeth, MD  
Alda Moettus, MD, JD  
Kathleen Neacy, MD  
Jessie Nelson, MD  
Karen Quaday, MD  
Susan Scanlon, MD

## Medical School

University of Wisconsin  
Mayo Medical School  
Indiana University  
University of Michigan  
Albany Medical College  
Loyola University  
University of Minnesota  
University of Minnesota  
University of Minnesota  
Creighton University  
University of Minnesota  
University of Minnesota  
Wright State University  
University of Minnesota  
University of Minnesota  
University of Iowa  
University of Minnesota  
Medical College of Wisconsin  
University of South Dakota  
University of North Dakota  
University of Minnesota  
University of Rochester  
Loma Linda University  
Creighton University  
University of Minnesota  
University of Michigan  
University of Minnesota  
University of Illinois-Rockford  
University of Minnesota  
Wayne State University  
University of Cincinnati

## Residency

University of Illinois  
University of Pittsburgh  
University of Virginia  
EM/IM Henry Ford Hospital - Detroit  
Harvard Affiliated  
EM/Peds University of Maryland  
Indiana University  
FP - St. Paul-Ramsey Medical Center  
FP - St. Paul-Ramsey Medical Center  
Regions Hospital  
Regions Hospital  
IM - University of Minnesota  
University of Maryland  
Brooke Army Medical Center  
Regions Hospital  
Regions Hospital  
IM - Abbott Northwestern Hosp.  
Regions Hospital  
St. Vincent Medical Center - Toledo  
Ortho - Creighton University  
Valley Medical Center, UCSF-Fresno  
Christ Hospital - Chicago  
FP - Loma Linda University  
Regions Hospital  
Hennepin County Medical Center  
University of Michigan  
University of New Mexico  
University of Michigan  
Regions Hospital  
EM/IM Henry Ford Hospital - Detroit  
University of Cincinnati



2005 EM Faculty