MESSAGE FROM THE CHAIRMAN:
-SCOTT T. REEVES, MD, MBA

March typically is a frantic month as we anxiously await the results of the residency match. This year we interviewed over 100 candidates and on Friday, March 16, the results became final. We completely filled with 12 excellent future anesthesiologists. All listed below, our new residents come from eleven different medical schools.

Chase Black Medical College of Georgia
Carey Brewbaker Wake Forest
Dale Carter University of Alabama
Muhammad Choudry MUSC
Rebecca Desso University of Tennessee
John Fox University of Louisville
Jason Herndon Meharry Medical
Ben Kightlinger University of Toledo
Greg Kottkamp Medical College of Georgia
Clinton Pillow University of Kentucky
Andrew Powelson Northeast Ohio
Katherine Roden UNC Chapel Hill

I am sure each will have a positive impact at MUSC. From the whole department, welcome aboard!
I am pleased to announce the results of our very successful 2012 Residency Match. I know that I speak for all of the faculty and residents who interviewed when I say that we are thrilled with the class that we have matched! The list of names and a brief bio of each incoming intern is listed below.

Gary (Chase) Black did his undergraduate at University of Georgia before attending medical school at the Medical College of Georgia. He is very excited about starting a residency here at MUSC. Gary also mentions his favorite hospital experiences here last October during a clinical when Dr. McEvoy made him a workbook on functions of the liver while in the OR.

Carey Brewbaker is from Wilmington, NC and attended Duke University for his Undergraduate degree and finished medical school at Wake Forest. Carey enjoys the outdoors, especially taking his dog Baxter to the beach or out on the boat. He is very excited to be coming to MUSC.

Dale Carter grew up in Northern Alabama and attended Belmont University in Nashville before attending medical school at University of Alabama. He is an avid outdoorsman, but also enjoys reading, music, and travel. Dale is very excited about Charleston and his residency here.

Muhammad Choudry grew up on a farm in Greenville, SC where his family raised goats, numbering 40 at one point. He graduated from University of South Carolina with a B.S. in Chemical Engineering. Prior to attending medical school at MUSC, he worked at the Savannah River Site processing Nuclear Materials.

Rebecca Desso, a former basketball player for Georgia’s Lady Bulldogs, refers to herself as “the tall girl,” and often answers to a nickname that has stuck since her time on the court, Rowdy. Rebecca loves the outdoors and enjoys bike riding, water sports, and fishing. She likes to keep her family and friends close and aspires to be the best doctor she can be.

John Fox was born and raised in Boston, Massachusetts. He completed his undergraduate degree at Univ. of Richmond and his medical degree from Univ. of Louisville. John enjoys all sports, especially the Boston sports teams, the Louisville Cardinals, and the Nebraska Cornhuskers. He is very excited about coming to Charleston close to the beach and water.

Jason Herndon is from Nashville, TN, stands at 6’4” and claims to be the runt of the family, as he is much shorter than his three brothers. He holds most important to him his soon to be wife, his English Bulldog Frank, and his relationship with Christ. He is a firm believer in living as Christ would have him live, and is very excited about starting a residency here at MUSC.

Ben Kightlinger is originally from Erie, Pennsylvania. In his spare time he enjoys being with friends, playing music (drums/guitar), and occasionally does some karaoke now and again. Ben also likes to go on runs and bike rides. Ben is thrilled to be coming to Charleston and working with our department.

Greg Kottkamp is originally from Atlanta, GA. He and his wife Katy (a veterinarian) have been married for four years, and have two lovely children together, Violet (2yo) and Leo (6yo). Greg and his family are excited and honored to be part of MUSC, and he looks forward to starting a residency in the field of Anesthesiology.

Clinton Pillow is proud to be born and raised in the great state of Kentucky. He believes in working hard for everything that is important to him in life, but states “you better believe I’m going to have some fun along the way!”

Andrew Powelson is graduating from NEOMED in Ohio. He and his fiancé, Meg, are looking forward to making a trip down south and finally being warm year round and close to the water, which they both love.

Katherine Roden comes to us from UNC at Chapel Hill School of Medicine. In her spare time she enjoys spending time with her husband and family. She also enjoys walking her dog Gypsy, running and reading fiction, which she expects to soon be replaced by STEP 3 study material!
MEET THE NEW CHIEF RESIDENTS!

Trevor Adams was born and raised in North Bay, Ontario, Canada where his parents and sister still live. He moved away from home at 18 on a baseball scholarship to Tusculum College in Greeneville, Tennessee. After receiving a Bachelors degree, Trevor moved to Norfolk, Virginia for graduate school and completed a Master’s degree in biology at Old Dominion University. This is where he met his wife Debbie who was getting her PhD in Biology at ODU. He stayed in Norfolk and attended medical school at Eastern Virginia Medical School. Trevor’s wife took a job at Coastal Carolina University in Myrtle Beach, and after completing a visiting rotation as a medical student in the Anesthesia department at MUSC, he knew that this was the residency program for him.

Outside of the hospital Trevor tries to spend as much quality time with his wife and daughter as possible because they live in Myrtle Beach 3 days per week. They love the outdoors and try to frequent the parks, beaches and aquarium as much as possible.

Trevor states he is both honored and humbled to be elected chief resident. He believes this is a really exciting time in the department as it continues to grow and improve, and looks forward to working with the attendings, staff, and fellow residents to help plan the bright future of this residency program.

Young Choi calls Mt Pleasant, South Carolina home where his parents raised him with his two sisters. Upon completion of high school, Young left South Carolina to continue his education at George Washington University where he majored in Economics. Deciding that a life deciphering supply and demand curves was not in his future, Young enrolled at the Medical University of South Carolina where he obtained his doctorate of medicine in 2009.

Since joining the Department of Anesthesiology’s residency program the following academic year, Young has had the fortune to develop his craft while building relationships with his fellow residents and attendings. Time away from residency is spent plying the coastal waters and more recently caring for his four-month-old daughter, Caroline, with his wife, Angela, who is currently in her third year of Obstetrician and Gynecology residency. Young hopes that he will be able to carry on the work of past residents, staff, and faculty by continuing the growth and development of the program that has been so instrumental in his training.
As the field of anesthesia and perioperative medicine continues to progress and evolve, there are new and exciting educational challenges to address. As part of the continual departmental development process, a 5-year Education Strategic Plan was presented and discussed in October 2011 at the Faculty Retreat. Numerous faculty contributed to this process in the formation and refinement of this plan.

From an educational perspective, the mission statement driving our strategic planning is to provide students, residents, fellows, anesthesiologists, and the medical community with outstanding education in anesthesiology and perioperative medicine, in order to foster the development of excellent clinicians and educators. This mission will be accomplished through the goals outlined below. In the coming months and years, each of these will be addressed. I welcome input and help from all of our faculty in order to determine the specific objectives for each goal and the appropriate metrics by which to measure our success in achieving these objectives.

**Education Strategic Goals:**

**Vision:** To be educational leaders and innovators in anesthesiology and perioperative medicine.

**Mission:** To provide students, residents, fellows, anesthesiologists, and the medical community with outstanding education in anesthesiology and perioperative medicine in order to foster the development of excellent clinicians and educators.

**Goals and Objectives:**

**Faculty**
- Develop Perioperative Medical Management Program with education in perioperative medicine and critical care
- Develop MOCA and other possible CME offerings to facilitate faculty development

**Residents/Fellows**
- Develop an automated competency-based assessment system in line with ACGME Milestones Project
- Improve ultrasound training in the perioperative setting and ICU
- Improve education in perioperative medical management
- Improve opportunities for research and education about research methodology
- Develop a “Residents as Teachers” program

**Medical Students**
- Improve and expand curriculum to aid in delivery of medical student education in all rotations. (ICU, OR, and Pain Clinic)
- Improve assessment of education for all medical student anesthesia rotations (ICU, OR, and Pain Clinic)
- Improve marketing and visibility of medical student rotations and anesthesia research opportunities
- Continued quality improvement of the medical student Anesthesia Interest Group (AIG)
MOCA Inaugural Event: February 24, 2012

The MUSC Clinical Effectiveness and Patient Safety Center (Simulation Center) is one of twenty-eight centers nationwide that are certified by the ASA-Endorsed Simulation Education Network. This certification is a high honor and is a requirement in order to be able to provide Maintenance of Certification in Anesthesiology (MOCA) Simulation Courses, as required by Part IV of MOCA. We are proud to announce that we recently held our first course. It was a challenging, and sometimes stressful, day of learning. These courses push the anesthesiologist in areas of medical knowledge, real-time clinical judgment, resource management, and team leadership, all of which ultimately have an effect on patient safety.

In the future, we will be hosting at least four courses per year. Our next course is scheduled for May 4th. You can find out more about the MOCA process through the American Board of Anesthesiology Website (www.theaba.org) and more about our MOCA schedule on the ASA website (http://www.asahq.org/For-Members/Education-and-Events/Calendar-of-Events.aspx). We look forward to seeing many of you at our MOCA courses in the years to come.
This year 6 faculty presented at the annual SPA meeting, a department best. Dr. Frank McGowan lead off the meeting with his lecture on Oxidative Stress and End Organ Injury: Basic Science and Clinical Perspective. Frank also moderated a Pro/Con Debate on current anesthesia practices, entitled, The Young and the Restless vs. the (B)old and the Beautiful.

Drs. Ilka Theruvath and Marc Hassid lectured on Just a Quick Add On: A Young Woman with Failing Fontan Physiology and Respiratory Distress Presenting for Paracentesis. That sounds like a familiar situation on the 5th floor of UH!

Dr. Ilka Theruvath also spoke in a “Ask the experts” panel entitled, Whole Blood Coagulation Assays in Pediatric Anesthesia.

Dr. Frank Stewart spoke on Cleft Palate Repair for an Underweight 10-month old in an Austere Environment. What a great opportunity to highlight his third world mission experiences.

Drs. Michelle Rovner and Melinda Bailey discussed Anesthetic Management of a Child with Severe Laryngeal Papillomatous and Mitochondrial Disease. Which resident took my copy of the textbook, Syndromes?

Pictured left—Dr. Trevor Adams (rising CA3 resident) is pictured with his faculty mentor Dr. Ilka Theruvath as they display their research titled: Normal Rotational Thrombelastometry (ROTEM®) in a Severely Coagulopathic Neonate with Factor VII Deficiency

Pictured right—The “Ask the experts” panel, Drs. Mohanad Shukry (Oklahoma Univ.), Ilka Theruvath (MUSC), Nina Guzetta (Emory Univ.), and Aymen Naguib (Nationwide Children’s Hospital)
The MUSC Health “Changing What’s Possible” brand showcases our commitment to advancing and offering the highest quality healthcare to our region. Aligned with our new clinical enterprise strategic plan, MUSC communications emphasize quality and innovation while highlighting the achievements of our researchers, clinicians, and academicians, thus setting us apart as a leading academic medical center.

In the latest campaign messages highlighting MUSC Health and MUSC Children’s Hospital, two of our own faculty were featured, Drs. Frank McGowan and Ilka Theruvath. The message highlights physicians in our Children’s Hospital stating that after years of specialized training, these physicians get one thing in return—pure joy in their ability to treat children. In addition to Drs. McGowan and Theruvath being featured, a smaller member of the department had some time in the TV spotlight. Dr. David Stoll’s 2-1/2 year old son, McLain Stoll.

When asked to describe their experiences, Dr. Theruvath talks about the best part was working with the little 2 year old girl. However, it was no easy task. While the clip may be only seconds in length, it took over an hour to get the little girl to pose for the shot. The TV crew even bribed her with M&M’s, which eventually covered Dr. Theruvath in chocolate by the time the shoot was over. She could do nothing but laugh at how funny and cute the little girl was.

Dr. McGowan described his experience as follows: “I was impressed by the commitment of the MUSC marketing team to this campaign overall and the Children’s component in particular. The production and filming folks were similarly impressive. They clearly understood the value and importance of getting the message out that we have outstanding professionals here that are completely focused on the care of children, that you would be “nuts” to take your child anywhere else. As for my specific role, I was actually hoping that segment would be left on the cutting room floor.”

To view more information on this campaign, you can go to www.whymuschealth.com. To view the commercials click on “TV Messages” and scroll down in the Media Player box to the commercials titled—“Children are Magic.”
This R01 application proposes a randomized double-blind placebo controlled trial of the use of glucocorticoids to improve the clinical course of neonates following cardiac surgery. Cardiopulmonary bypass (CPB) is critical to cardiac surgery, but the pathophysiologic processes engendered by CPB play an important role in postoperative recovery. The use, doses and schedule of glucocorticoid administration to ameliorate these CPB induced processes is highly variable and without clear data to provide direction. The Primary Aim of this study is to compare the effects of intraoperative methypredisolone (after the induction of anesthesia) to placebo on a composite morbidity-mortality outcome following neonatal CPB. Secondary Endpoints include: inotropic requirements, incidence of low cardiac output syndrome, fluid balance, ICU stay parameters, levels of inflammatory molecules, neuro-developmental outcomes, and safety parameters. The study will focus on neonates because their post-CPB clinical course is typically more severe, and that high level of severity itself provides a substrate for identifying the positive effects of a particular therapy. Finally, a therapy identified as beneficial has the greatest potential for benefit in this vulnerable population.

A unique aspect of the protocol is the use of a novel multiplexer technology which allows analysis of a broad array of inflammatory biomarkers. The results of this study should clearly define the clinical utility of steroids and help determine the mechanisms for any observed effect. Based on the frequency of complex congenital heart defects, the incidence of low cardiac output, and the daily costs of ICU care, a reduction in postoperative morbidity can be estimated to decrease total healthcare expenditures in the US by hundreds of millions of dollars annually. The proposed study will take place over a 5 year period and includes collaboration among pediatric cardiologists, anesthesiologists, cardiac surgeons, perfusionists and basic scientists. Dr. Frank McGowan is the co-investigator for this project.

Open Anesthesia Research Meeting:
Thursday, April 5th
Location: CSB 429, 4pm-5pm
This month’s presenters:

Jerry Reves, MD
Iain Sanderson, BM, BCh, MSc
The department continues to invest substantial time and effort (mostly Michael McEvoy’s time and effort) to make improvements upon our existing IT systems. Our current example, iVital, is an iOS App (for iPhone/iPad users) that has been under incremental development for over a year. During this time, iVital has turned from a simple mobile SmartTrack alternative to a much more dynamic application with the ability to easily follow the progress of the whole OR Suite or individual OR cases. In addition, iVital can indicate compliance with SCIP antibiotic administration and attending documentation compliance.

The current iVital version is geared towards supervisory functions and is now being released to anesthesiology attendings who will continue to help us vet the product during its ongoing development. The current version is only available on iOS devices while we continue to examine the applications potential. The overall OR suite’s cases can be viewed as a simple case listing (enhanced with several visual indicators for important milestones) or as a timeline progression (enhanced by automatically adjusting later case start times to compensate for earlier cases running late). Additionally, the user may zoom into a real-time snapshot of an ongoing case, view the overall trend data for a case, or pull up a patient’s preoperative evaluation or previous anesthetics all from their mobile iOS device.

We hope that the iVital application will continue to evolve and, with the potential cooperation of the PICIS company, even more useful functionality could be added. However, Michael is currently working on multiple projects for the department. One such project that is nearing deployment is a migration of some automated paging notifications to a more user-friendly on-screen pop-up. More information will be provided once this newer on-screen pop-up system has been fully tested.
SUPPLIES PACKED FOR TANZANIA

On Saturday, March 10, a large collection of over 40 Phillip monitors and 100 Nellcor pulse oximeters were prepared for shipment to Tanzania. This substantial donation was made possible through the vision of Dr. Ray Greenberg (MUSC President) and Lisa Montgomery (MUSC CFO) and is a critical component of MUSC’s global strategic plan. This initial shipment will leave Charleston via a donated crate on a container ship and eventually find its way into the Indian Ocean and the port of Dar Salam, Tanzania. From there volunteers will transport the equipment from the port to Mubili National Cardiac Center in Dar Salam, Lutheran Memorial Hospital in Haydom and Bugando Medical Center in Mwanza, Tanzania. The generous donation from MUSC will enable each facility to establish routine monitoring in their operating room, recovery room and ICU’s. Currently, each facility has very limited resources in these areas. In fact, there is only one battery operated pulse oximeter in the whole 150 bed Lutheran Memorial Hospital in Haydom and they will soon be receiving 12. As our faculty can contest, being able to actually monitor patients in the recovery room at Bugando Medical Center will also be a huge improvement.

This assembly of equipment was a year long process and many individuals need to be thanked for their support.

- Teresa Hacunda, Director of Civic Affairs for Covidien was instrumental in donating 200 non disposable pulse oximeters, and 100 African and 100 European plug assemblies. Without these critical supplies the project could not have gone forward.
- Chris Fennell, Warehouse, Career Services and Equipment Distribution Center Coordinator, who helped the team work through the state system to obtain the donation.
- Randy Pauling and Robert Tritt (MUSC Biomedical Engineering Supervisor and Biomedical Technician, respectively) for spending countless days of personal time including weekends putting the equipment together in the warehouse and assuring that it was in working order.
- Dan Altman, for establishing contact with Teresa Hacunda of Covidien.
- Carlee Clark, MD for assisting in identifying the need and selecting the appropriate equipment.
- D Word, Chief Executive Officer of Madaktari Africa for arranging the container ship and ground transportation.
- My family (Cathy and Townsend Reeves) for spending a day sorting, tagging and crating.
SUPPLIES PACKED FOR TANZANIA

Cathy Reeves preparing donated new non disposable Covidien adult pulse oximeters.

Monitors prepared for crating.

Robert Tritt organizing monitoring screens for shipment.

Townsend Reeves preparing monitor cables.
GRAND ROUNDS FOR MONTH OF APRIL

PHARMACOLOGY/PHYSIOLOGY

“Disturbances in Sodium and Potassium: When do you treat?”
April 3, 2012
Julie McSwain, MD, MPH
Medical University of South Carolina
Assistant Professor

“M&M”
April 10, 2012
Susan Harvey, MD
Medical University of South Carolina
Vice Chair for Clinical Operations
Medical Director, University Main Operating Rooms

“Advances in Anesthesia Drug Delivery”
April 17, 2012
Amanda Redding, MD
Medical University of South Carolina
Assistant Professor

“Cool it! Evidenced Based use of Therapeutic Hypothermia”
April 23, 2012
Sally Raty, MD
Baylor College of Medicine
Vice Chair of Academic Affairs
Division Chief of Trauma and General Anesthesia
Future Events/Lectures

2/Apr– Pharmacologic Principles "Barash Ch. 7", CA2/3, Dr. Ryan Gunselman
3/Apr– Disturbances in Sodium and Potassium: When do you treat?, Grand Rounds, Dr. Julie McSwain
4/Apr– Obstetric Anesthesia, CA1, Dr. Latha Hebbard
9/Apr– Intravenous Anesthetics "Barash Ch. 18", CA2/3, Dr. Sylvia Wilson
10/Apr– M&M, Dr. Susan Harvey
11/Apr– Pediatric Anesthesia, CA1, Dr. Marc Hassid
16/Apr– Monitored Anesthesia Care "Barash Ch. 31", Dr. Jake Freely
17/Apr– Advances in Anesthesia Drug Delivery Systems, Grand Rounds, Dr. Amanda Redding
23/Apr– Rationale and Implementation of Newest ACLS Guidelines, CA2/3, Dr. Sally Raty (Baylor)
24/Apr– Cool it! Evidenced Based use of Therapeutic Hypothermia, Grand Rounds, Dr. Sally Raty (Baylor)
25/Apr– Obstetric Anesthesia PBL, CA1, Dr. Catherine Tobin
30/Apr– Opioids "Barash Ch. 19", CA2/3, Dr. Amanda Redding

We Would Love to Hear From You!

If you have ideas or would like to contribute to Sleepy Times, the deadline for the May edition will be April 23, 2012.

I HUNG THE MOON

Don’t forget to nominate your co-workers for going ‘Beyond the Call of Duty’. I hung the Moon slips are available at the 3rd floor front desk, and may be turned in to Rhonda or Kim. Thanks so much!!

Katie Boan, Carman Carter, and Cara Spaulding: An outstanding job supporting the Anesthesia Department on 3/2/12. Stepping up and doing twice the regular workload while the section was short staffed due to call outs. Great job!

Jim Richardson, CRNA: Helping (unsolicited) with a very difficult airway in another room!

Erin Straughan, CRNA: Helping with a difficult case and staying even after she was told she could leave early that day. Way to stay dedicated!