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FROM THE EDITOR'S DESK

Greetings All! I hope this spring 2015 edition of the *ED Update* finds you and yours well. Warm weather is finally creeping its way into the Midwest, and hints of green are appearing around Dayton. It was a full winter, with a hard-hitting flu season that filled our area's emergency departments and hospital beds. The ubiquitous "flu-like illness" took the prize for most common triage complaint, and Tamiflu took the prize for the most overprescribed and utterly useless medication.

We continued to adapt to our new Tuesday morning conference schedule. Bleary-eyed residents and faculty worked their way through small group discussions and 15-minute "power lectures", fueled by coffee, energy drinks and intellectual curiosity. There has been lots of feedback from the residents: both praise as well as constructive criticism. As in the past, the program will consider all of this input and use it to fine-tune the educational process.

This year's Holiday Party was a success, with Santa and his elves distributing deeply personal gifts to the residents. By deeply personal, I mean to say "poking fun at said resident's quirks and foibles." It was all in jest and, despite a few hangovers the next day, a good time was had by all.

Read on...
Brian L. Springer



Cassie's Bulletin

- Cassie Browning



It's springtime now, but since we only do the *ED Update* twice a year now, let's revisit winter for just a moment.

CHRISTMAS PARTY 2014

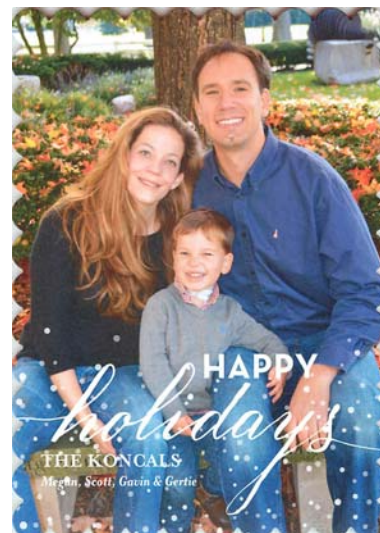
The Christmas Party was once again held at the beautiful Dayton Country Club where we had a nice dinner. The fireplace and large Christmas tree served as the perfect photo op backdrops. We had two special elves, **Anthon Lemon** and **Jessica Rando**, who handed out the special gag gifts this year. Some of our RI residents handed out other gifts to faculty and staff. On behalf of the faculty and staff, I would like to say thank you to our residents. That was very thoughtful of you!

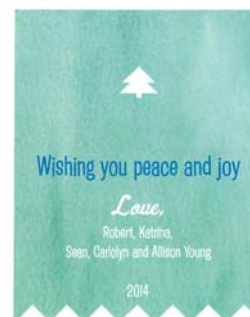
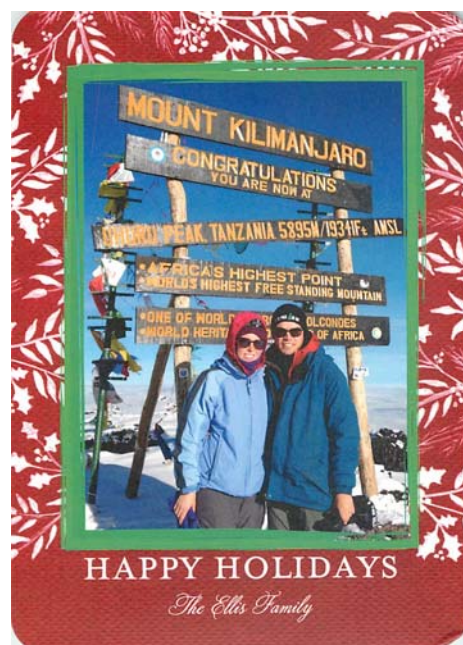
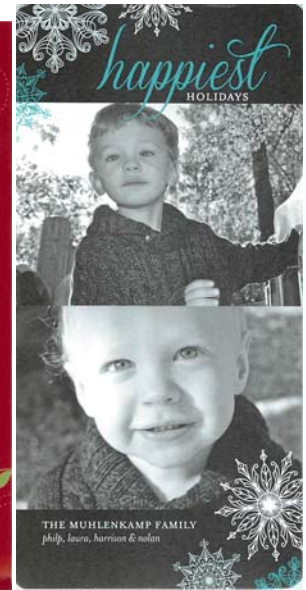
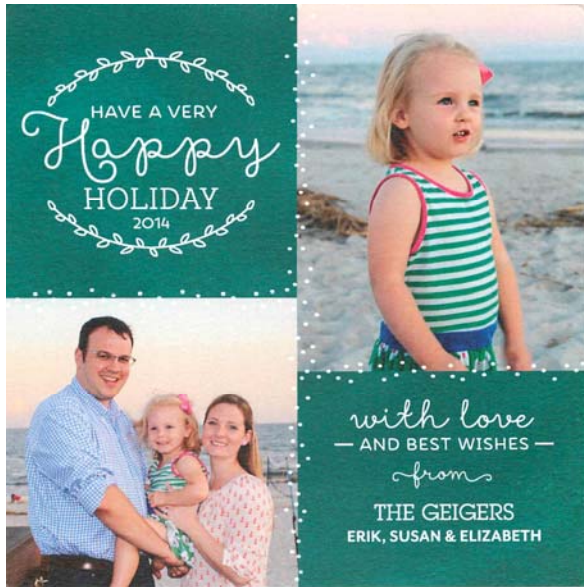




CHRISTMAS CARDS

Thank you to all the alumni who sent Christmas cards and letters. Every year we enjoy reading what you have been up to and seeing how much your kids have grown.





CAP LAB

Our annual CAP (Cadaver Anatomy Procedure) Lab was once again very successful. The lab was attended by over 200 EMTs, paramedics and nurses. We have had the lab since 2006, and it continues to grow each year. Topics that were discussed this year include:

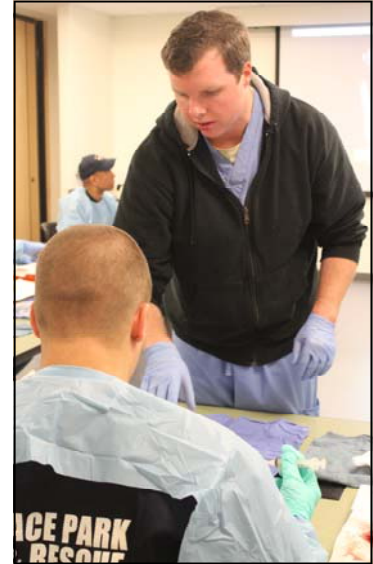
- Oral and Nasal Intubations and advanced airway techniques (with numerous airway devices, including relatively new and innovative designs)
- Cricothyroidotomy - Surgical and Percutaneous (Pertrach, quicktrach, Nutrach, etc.)
- Needle Chest Decompression
- Tube Thorocostomy
- Pericardiocentesis
- Ultrasound guided venous access
- Intraosseous Access (EZ-IO, B.I.G. IO, FAST-1, etc.)
- High fidelity interactive simulation cases (both geriatric and pediatric)
- And many more...

The CAP lab was the topic of a cover story of an issue of the *Dayton City Paper*. Josher Lumpkin, a reporter for the Dayton City Paper, who went through the lab as a student wrote a nice, detailed article on the lab.

Thank you to all the faculty, residents and alumni who helped make the event a success!

Check out our CAP Lab Facebook page (<https://www.facebook.com/EMSCAPLab>) and our website (<http://medicine.wright.edu/emergency-medicine/ems-cadaver-anatomy-procedure-lab>) for more information. If you are an alumni or clinical faculty and would like to help out with future CAP Labs send an email to me at cassandra.browning@wright.edu.





<https://www.facebook.com/EMSCAPLab>

SOCIAL MEDIA

We are excited to announce that we have delved deeper into the social media world. We have a new department Facebook page, <https://www.facebook.com/pages/WSU-EM-Residency/768686086542811>. "Like" the page for all of the latest WSU EM news. We also have a new Flickr account, <https://www.flickr.com/photos/wsuem/> and a You Tube Channel, <https://www.youtube.com/channel/UCGmN3yFWZW9TfSpZRDgeGhA>. Thanks to **Jeremy Moore, Natalie Williams, Valerie Moren, Brian Tucker** and **Kartik Rao** for being willing to film videos for recruitment. These videos are on our Facebook page as well as on our You Tube channel. For those of you who don't know, we also have a private Facebook group page for all of our faculty, residents and alumni. If you would like to join the group, please send me an email at cassandra.browning@wright.edu. This is a great way for you to stay in touch with the department as well as your former classmates and faculty. We also have a Facebook page for our CAP (Cadaver Anatomy Procedure) Lab, <https://www.facebook.com/EMSCAPLab>. Check out our social media pages and get connected!



STUDENT EMPLOYEE OF THE YEAR

We are happy to announce that Wright State University's 2014 Student Employee of the Year is our very own Ben Clouse. Congratulations Ben you deserve it! Thank you for all of your hard work and dedication to our department.





CONGRATULATIONS!!!



Doug and Megan **Bias** welcomed Katelyn Elizabeth Bias into the world at 2:48 PM on October 8, 2014. She was 7 lbs. 3 oz. and 21 inches.



Congratulations to **Stacey** and Scott **Poznanski**. They welcomed Jackson Mark on March 2, 2015 at 10:42 pm. He weighed 7 lbs. and 11 oz. and was 21 inches long.



Anthon Lemon and his wife, Valere, welcomed Lilliana Paige on October 29, 2014 at 6:08 pm. She weighed 6 lbs. and 8 oz. and was 19.5 inches. Congrats Anthon and Valere!



Jeremy and Jen **Moore** welcomed twin boys into the world on February 20, 2015 at 7:48 pm. Jeremy wrote: Caleb and Owen were born prematurely at 26 weeks gestation. They were initially in the Kettering NICU and were transferred to Cincinnati Childrens NICU. Caleb has chronic lung issues and Owen had posthemorrhagic hydrocephalus. Both boys are doing well and overcoming their respective challenges. They are now two months old (34 weeks gestation) and 4 pounds!

Owen
Patrick
Moore
11lb 13oz
13.5 inches



Caleb John
Moore
2lb 1oz
12.5 inches





Springer's Stuff

- Brian Springer, M.D.

DTEM

This past winter kept our residents busy supporting multiple law enforcement agencies. Of note, Drs. **Eric Schott** and **Kartik Rao** got spun up on training and operations and assisted Dayton Police Department's SWAT team and narcotics bureau. Dr. **Mike Koroscil** also supported operations in Dayton, and Dr. **John Henderson** has been embedded with Greene County Regional SWAT. Drs. **Brooke Smith** and **Steve Colonna** provided support for both city and federal agencies, and Dr. **Alex Bedard** has single-handedly kept the Montgomery County Sheriff's Office SWAT medical program up and running. Dr. **John Trentini**, along with providing operational support to Fairborn Regional SWAT team and Dayton narcotics bureau, has begun a shift into the role as resident TEMS chief. He organized our last TRIG meeting, providing a top-notch tactical medical review for our residents. As for me, operations and training with several city, state and federal agencies have kept me sleep-deprived. I continue to do patrol shifts at Grandview Hospital, getting odd looks from physicians and staff who have seen me in my white coat at KMC.

SOMA

I attended the Special Operations Medical Association Annual Meeting in Tampa in December. Special operations medics and operators from all branches of our military, as well as from overseas, were in attendance. Dr. **Leo Tanaka** was one of the well-received lecturers, discussing the role of video recording in the prehospital environment.* Thanks to Dr. **JR Pickett**, there is an ever-growing presence of civilian tactical medics who come to SOMA each year to attend Dr. Pickett's TEMS-training track.

With many of our graduates serving active duty military and civilian TEMS roles around the country, SOMA has become a reunion of sorts. In attendance this year were Drs. **Heidi Abraham**, **Nathan Holloway**, **Alex Keller**, **Aaron Rubin**, and **Scott Rubenstein**. All are doing well and send their regards.



Drs. Pickett, Keller, Holloway and Abraham at SOMA.

SANTA FE

Kim and I escaped to Santa Fe New Mexico for our Anniversary in October. It is a fabulous city: great arts scene, terrific food, incredible scenery. We took an off-road tour in a former armored Swiss troop carrier, from which my bruised butt is still recovering. Put Santa Fe on your bucket list; you will not be sorry!

Right: Dr. Springer finds his namesake in Santa Fe (not coincidentally in one of the city's less glamorous corners).

Below: Kim & Brian in front of the "Pinzgauer" Swiss Army vehicle in the Santa Fe boondocks.



Until the next edition...

***Also a shout out to Dr. Tanaka for assisting me with Kettering Fire Department's megacode recertification process.**

Emergency Medicine Research

- Catherine A. Marco, M.D., FACEP

CLINICAL RESEARCH UPDATE

We had a number of Boonshoft School of Medicine students who presented at the Wright State University Research Forum on April 8, 2015. Among the presentations were:

“Altered Mental Status among Geriatric Trauma Patients”- Ashlee Edgell, MS3.

“Prediction of Disease Severity among ED Patients with Abdominal Pain”- Chris Fagan, MS2.

“Multiculturalism and Patient Satisfaction (data collection nearing completion)”- Andy Davis and Catherine Eggers, MS2.

“Advance Directives among Trauma Patients” – Alina Post, MS1.

FEATURE THIS....

- Ed Fieg, D.O.



2015-16 RESIDENT MATCH RESULTS

The WSU EM Residency Program again filled with 9 newly minted civilian EM interns. We had over 700 applicants, offered interviews to about 150, interviewed 143, and ranked 104. We also matched 7 Air Force applicants from a pool of over 60. The selectees were culled following voluminous program teamwork by residents, EM department staff and faculty including: exhaustive records reviews, interviews, dinners, luncheons and tours.

The 9 civis from our rank draft list included our rank numbers: 2, 3, 8, 9, 12, 26, 30, 46 and 47, with almost 90% matched from our top-tier of applicants. Demographics include: 6 MDs, 3 DOs, 2 women, 3 foreign medical graduates, 2 WSU grads, and 3 with prior GME training (family medicine, transitional, preliminary surgery or preliminary medicine) and 2 minorities.

The 7 Air Force members include: 4 MDs and 3 DOs, 2 women, and 5 with some prior PGY-I GME training, and no minorities.

The newbies hail from: the University of Texas, the University of Utah, Uniformed Services University (2), Edward Via College of Osteopathic Medicine, Texas College of Osteopathic Medicine, Ohio University (2), Loma Linda, American University (2), Ross University, Wright State University (2), Rocky Vista University, and Kansas City University.

Mazel Tov to all! We welcome our newcomers with open arms. They will arrive on 16 June to commence administrative and clinical orientation.



WELCOME CLASS OF 2018



Matt Arroyo
Ohio U.



Laura Field
Ross University



Josh Klepinger
Wright State University



Meagan Verbillion
Ohio University
Transitional Intern -
Nassau U



Ryan Babiencko
Loma Linda University



Chris Huelsman
Wright State University
Marshall U. Family Med. Intern



Lindsay Matney
Edward Via COM
Barksdale AFB LA



Tanner Weigand
Kansas City University



Brent Balhoff
American University



Eugene Kang
USUHS
WSU Internal Medicine
Intern



Eric Mozeleski
Texas COM
Transitional Intern – Detroit



Adam Welch
American University
(Sint Eustatius)
WSU Family Medicine
Resident



Thomas Dailey
University of Texas
WSU General Surgery
Intern



Dominic Kim
USUHS

Not pictured:

Trenton Hansen
University of Utah
Offut AFB NE

Angela Palitto
Rocky Vista University
Beale AFB



PICKETT'S AFTER ACTION REPORT

- JR PICKETT, M.D.

EMS

The EMS world pushes forth as always. The extrication course is slated for 4/21. Kettering Fire Department will once again be hosts to the R2 residents who will hulk out and destroy cars to learn about taking care of the people inside of them. Drs. **Alex Bedard** and **Jessica Rando** helped run a few dozen paramedics at Xenia Fire and Fairborn Fire through their paces for protocol checks. Thanks to them, we have ensured that they continue to provide the best care anywhere.

CAP LAB

The Cadaver, Anatomy, and Procedure Lab for EMS, in its 9th installment, was once again a huge success. Jeremy Moore took the reins in fine fashion, coordinating a huge beast of a program. The students were universal in their effusive praise for the quality of the training and the instructors. Drs. Bedard, Rando, **Michael Pearson, Brooke Smith, Christi Makas, Andrea Kaelin, Taylor Baldwin, Sarah Birdsong, Brian Tucker, Natalie Williams, Jamie Bleyer, Rory Stuart, Jon Henderson, Eric Schott, Allison Houston, Tyler Kallsen, Prabu Selvam, Mackenzie Gabler**, and **Sarah Bohn** taught the stations, with many of them going well above and beyond to plan, set up, and tear down the event.

OPOTA

Dr. **Brian Springer** and I have met with OPOTA to formalize curriculum for teaching basic medical care to police officers. What was once simply first aid now includes critical injury care such as hemorrhage control, airway protection, and chest wound management. There are reports every week of officers nationwide using these skills to save themselves, their fellow officers, and their citizens. The curriculum is loosely based off the Self-Aid/Buddy-Aid course that started at WSU DTEM 7 years ago, and will be a part of the basic academy for all police officers trained in the state from this point forward. The Attorney General has thrown his full support into the idea. From what we are learning, Ohio is miles ahead of every other state in this. The hard work that Brian has put in to building the reputation and good will toward the Division is paying off.

FAMILY

Becky and the girls are well. Julianna just turned 6, and Kaia just turned 2. They are definitely a chip off the old block. Julianna, formerly a one-girl insurgency, now has a partner in crime. Becky carries herself with remarkable calm in the face of these obstreperous minions of mine.

We hope you all had a Happy Easter and wish you the best for a wonderful summer.

Military Maneuvers

Roy Johnson, MD
Associate Program Director, Military

NEW MILITARY RESIDENTS

The military side of the residency is doing well with a bright and exciting time ahead. We have a great class of incoming interns. We had hoped to get eight, but the Air Force only funded seven. Two are current flight surgeons: Drs. Trenton Hansen and Lindsay Matney. Four are currently in their first internship: Drs. Eugene Kang, Tom Dailey, Meagan Verbillion, and Eric Mozeleski. Eugene and Tom are here in town with internal medicine and general surgery respectively. Meagan has some roots in the area with an aunt who was an EM physician in Springfield. Being a physician is Eric's second career. He spent quite a few years as a physical therapist prior to medical school. Rounding out the intern class is one outstanding medical student from USUHS, Dominic Kim.

R3 ASSIGNMENTS

Our Air Force graduating senior residents have tentatively been given their assignments (always subject to change based upon the needs of the Air Force). Dr. **Anthon Lemon** is on his way to Nellis Air Force Base in Las Vegas. Dr. **Chris Smelley** is going to the warm weather of the Gulf Coast at Keesler AFB in Biloxi, Mississippi. Dr. **Steve Colonna** will be going on an adventure with AF Special Operations. And we are excited to have Drs. **Alex Bedard**, **Christi Makas**, and **Andrea Kaelin** joining the staff here at Wright-Patterson Medical Center.

NEW ADDITIONS

Other additions to the Wright-Patterson ED will be Dr. Derek Sorenson who is finishing up his fellowship in Critical Care. Dr. Matt Wolf, who trained here in Dayton, will be joining us from the Pararescue schoolhouse at Kirtland AFB, New Mexico.

FAREWELLS

Farewells to Drs. **Ryan Mihata**, **Meaghan Nelles**, and **Kevin Juozapavicius**. Kevin is separating from active duty and recently worked her last shift at the base. You will continue to see her on the civilian side at Good Samaritan Hospital. She will be a great addition to that facility. We will be sad to see Meaghan leave. She was an outstanding resident and excellent staff physician and EMS director for the base. She will be relocating to California to be near her husband as he completes an orthopedic fellowship. Ryan is moving up in Air Force medical administrative leadership, taking a position as a squadron commander at Maxwell AFB, Alabama. On his current path, Ryan has an outside chance of one day being the Air Force Surgeon General.

THANK YOU

Ms. Kathy Dyke, our military residency coordinator, is the linchpin that holds the Air Force side of the residency together. I can't say enough great things about her. She is constantly going above and beyond for the residents and faculty. She does a huge amount behind the scenes to ensure a good academic experience at the base. If you haven't thanked her lately, you should. And then after you thank her, thank her again.



Research Results

- Jim Olson, Ph.D.

STUDENT INITIATIVE

April Daubenspeck is a second-year student in the Biomedical Sciences PhD program at Wright State University. She has previously worked with Dr. **Marco** evaluating hunger as a clinical assessment tool for patients with abdominal pain. April has also worked on identifying biomarkers for head injury and ischemic stroke. Her ideas were refined as an American Heart Association pre-doctoral fellowship grant in collaboration with Drs. Cool and Chen (Department of Pharmacology and Toxicology) and Dr. Ludwig (Department of Neurology). She plans to identify and characterize substances released into the blood during ischemic stroke. Samples will be obtained from patients undergoing interventional clot removal at Miami Valley Hospital.

STUDENT WRAP UP

Augusta Eduafo is working on a Master's degree from the Department of Neuroscience, Cell Biology and Physiology. She has received the go-ahead to begin writing her thesis. Her prime interest is whether hyperglycemia exacerbates the production of damaging oxidizing molecules. Her results suggest that diabetic patients suffer significant brain damage when they experience brain edema during DKA, head trauma, or ischemic stroke.

SUMMER LINEUP

Two undergraduate students will be working in the laboratory during the summer of 2015. Madeline Jones has been working with us on various projects and will expand her time commitment after her spring semester at Wright State University. Nicholas Seitz from Valparaiso University (nephew of Dr. **Jeremy Moore**) also will be joining the laboratory.

NANO-RESEARCH

Dr. **John Trentini**, Dr. Guangze Li and I worked during the fall and winter to gain expertise necessary to perform research funded by the Emergency Medicine Foundation. Now that the steep learning curve has been ascended we can begin gathering data. The project will evaluate whether treatment of ischemic stroke with cerium oxide nanoparticles can reduce brain injury. We are confident that the data will provide insight into mechanisms of brain cell injury during stroke and the potential role of antioxidant therapy with this novel agent.

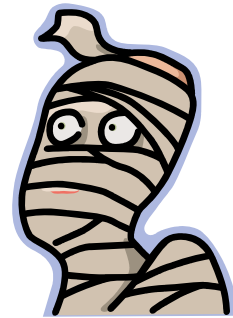
FROM THE CLINICAL DESK

Research started years ago is coming to fruition as we prepare a manuscript describing the role of brain edema in determining outcome following traumatic brain injury. Using a database of over 8000 patients presenting to Miami Valley Hospital over a 5-year span, we can demonstrate a significant effect of brain edema on mortality, regardless of the magnitude of initial injury. Dr. Brian Tucker has taken on the task of evaluating our data. Results from this retrospective study will be expanded through an observational prospective study on similar patients done with the assistance of Marianne Yacyshyn, a second-year student at the Boonshoft School of Medicine.

A second project examining the influence brain edema has on morbidity and mortality of brain-injured patients is also underway. Drs. **Joshua Burkhardt** and **Michael Oertly** will be analyzing data from the Adam Williams database at Miami Valley Hospital which tracks patients with moderate and severe head injuries for up to two years.

FROM THE OTHER SIDE

- Jon Singer, M.D.



COMPUTER ADVANCES

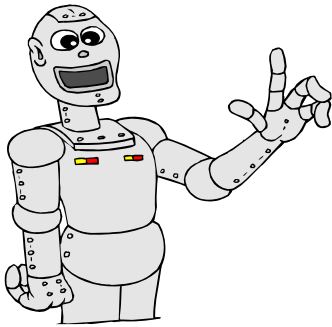
Last week I penned a poem that had been brewing in my head for some time. It has been a solid year and a half since I last constructed verse. The outcome suggested I was a little rusty. Cassie once again stepped up to the plate, permitting me to put together text and artwork. Like this message, I typed it on the Word program, created (with the aid of written instructions) a file and (with instructions from a second source) sent it to Cassie. This feat is perhaps as momentous as me touching a computer for the first time when I played hangman with Dr. **John Lyman** at Rosary Hall in 1982. Once I had lost my (computer) virginity, I reverted to email-only mode. I never had the electronic "birds and bees" talk until Lynn Dewine uncovered 26,000 emails I had thought I had discarded. Now older and much more refined, I have learned how to put something on the desktop. That is the equivalent of discovering the blossoming of secondary sexual attributes.

WHERE DO BABIES COME FROM?

Son Matt, a marketer in Chicago, acquires accounts that put him in the air and on the road. He taps Ruth and me to provide support to wife Allison while he is out of the country. This year he booked Singapore for a 10 day stint at the beginning of February. We had a great visit with the three grandchildren and the granddog, Xavier. Book reading, a standard grandparent responsibility, took place. Grandson Tradd (4 yrs old) was on my lap and was encumbered by the protrusion of my innards hanging over my blue jeans. Although it was before dinner he remarked, "you must be full already papa." Granddaughter Stowe (age 7) explained on our visit that her mother had an extra flap of skin on her stomach from having carried twins. Seeing Ruth's turkey gobbler, a solid trait inherited from her dad, Stowe inquired "Mimi, did you give birth under your chin?"

RIDES NORTH

The majority of my northern excursions are to Lowes, about three miles up the road. We have ventured 10 miles to the small farmers market in Lebanon and to Over-the-Rhine's Findley Market. A few times on sunny days we have visited Dorothy Lane in Springboro and Centerville. When Dr. **James Jones** visited the Department I had the pleasure of steak and wine with various faculty at Flemings off 675. That informal occasion took the place of the traditional Christmas party attendance. I am temporally removed now from the residents and they would not know why an old fool would be at one of their parties. I still take interest in those who I have known. However, I have refused to "Link-in" or join the electronic not-so private clubs, so take no offense **Dan Debanke** if I continue to ignore your research chain. It is not you, it is me. I don't want to add this skill to my desktop creation.



Update from the Center for Immersive Medical Education and Research (CIMER)

- Ray Ten Eyck, M.D.

ORIENTATION

July 2014 marked another milestone in the growth of our residency program as we started orientation with the first class of 16 residents. Our new R-1s completed the simulation-based practice sessions and skills demonstration with record proficiency. They advanced to their clinical sites with the additional confidence and competence that comes with completing a successful checkride. In the same period, we provided a well-received series of simulation sessions, focused on emergency procedures and resuscitation skills, to 40 physician assistant students from Kettering College. My thanks for the tremendous support of Drs. **Brown, Janz and Bedard**. The orientation period activities also provided some medical students a research opportunity, analyzing data generated by all of the resuscitation practice sessions included in our training programs. In follow-up to last year's successful medical student project, which resulted in a first-place student poster presentation, the students explored factors influencing the quality of chest compressions during cardiac arrest.



ICU SIMULATIONS

In order to meet additional educational needs identified by our second-year residents, we expanded the "just-in-time" ICU simulation sessions to include additional patients and procedures. Shortly after incorporating the new material, our residents identified a comparable need to better prepare for their obstetrics rotation. The new session now provides deliberate practice with the protocols and skills incorporated in the neonatal resuscitation program.

COLLABORATION

As we embarked upon our seventh year of interprofessional simulations with our residents and student nurses, we collaborated with the WSU College of Nursing and Health and Cedarville College of Pharmacy to support two new research projects. These endeavors involve employing simulation as an assessment tool evaluating the impact of two interventions designed to improve medical team performance among interprofessional student teams. Through these efforts, we hope to optimize our medical team training curriculum.