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Overview

In 2010, we in the Department of Anesthesiology have made great strides forward—in step with The Ohio State University Medical Center and The Ohio State University College of Medicine—as we progress from Excellence to Eminence.

In research, the investments we have made in our people and our infrastructure in recent years are bearing impressive fruit, with an increase in external research funding for the fifth consecutive year. Our external funding for research has surpassed $1,000,000 in 2009-2010 ($1,048,487). This figure is nearly double the median figure for academic anesthesiology departments nationally. In 2009 we continued our recruitment efforts of students, Fellows, residents, clinical research staff and faculty involved in our growing research programs. We have 17 Principal Investigators and eight co-investigators on 33 active Institutional Review Boards (IRBs) (eight new IRBs) and additional Institutional Animal Care and Use Committee (IACUC) animal protocols, and a growing number of students, residents and Fellows engaged in our research. As you will note in the department’s research report, compiled by our Vice Chair of Research Fedias L. Christofi, PhD, we have improved in a number of key benchmarks of productivity, and the list and impact of publications in peer-reviewed manuscripts and of abstracts presented at national and international meetings continues to expand as well. We are the beneficiaries of a number of mutually beneficial collaborative arrangements with prominent researchers throughout the OSU College of Medicine, including Chanden K. Sen, PhD (wound healing), Phillip G. Popovich, PhD (spinal cord injury), Wendy L. Frankel, MD (GI pathology), GI surgery (Bradley J. Needleman, MD and Alan E. Harzman, MD), and members of Nationwide Children’s Hospital, among others. Interdisciplinary and inter-institutional collaborations are on the rise as well.

Our goals for next year are to continue to improve our research infrastructure, increase our funding and quality publications, find innovative ways to support a growing number of anesthesiologists interested in getting involved in research and scholarship activities, and obtain additional National Institutes of Health (NIH) funding. The recent recruitment of NIH-funded scientists, AJ Cardounel, PhD and Lawrence J. Druhan, PhD (08-01-10), with expertise in molecular neuroscience, cell signaling and vascular disease has added to our strengths in NIH-funded research in enteric neurosciences, emerging programs in ischemic spinal cord injury and pain signaling with NIH potential, brain-imaging of pain and anesthesia and industry-funded research in neuroanesthesia. NIH National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK) studies have received continuous funding on one or multiple R01-type grants for the past 18 years. We now have scientists in our department who serve on multiple NIH study sections. Our long-term goal is to align ourselves with Ohio State’s Medical Center mission and become a top 20 anesthesia department.

Education is fundamental to the mission of Ohio State’s College of Medicine, of its Medical Center, and of our department. Our faculty members take extraordinary pride in our training program, as well they
should. Our five-year board certification rate remains above 90% as compared to 84% nationally. Our program is actively engaged with preparation for its accreditation site visit from the Accreditation Council for Graduate Medical Education (ACGME) this coming year. Our resident graduates continue to distinguish themselves and represent our department and our specialty well. Our 2010 resident graduates are no exception, with an astonishing 10 of our graduates pursuing a fellowship in an anesthesiology subspecialty; one will join our faculty, and three will pursue excellent private practice opportunities.

Over the past year, Kenneth R. Moran, MD was named associate program director for our core residency program, assisting Andrew H. Roth, MD, our core program director. Dr. Roth and Dr. Moran comprise a dynamic, knowledgeable and enthusiastic team, and serve the educational needs of our residents well. As we approach our ACGME site visit in the coming academic year, I have total confidence in their ability to produce a favorable review that will let our residency program continue with full accreditation for the years ahead.

Once again, we successfully filled all of our available positions through the National Resident Matching Program. All 12 of our matched applicants show tremendous promise in developing into outstanding anesthesiology residents; each was a competitive candidate who will be an asset to our residency program. I am confident they will all develop into fine anesthesiologists.

Ritu Kapoor, MD, Andrew H. Roth, MD, and others in our faculty continue to expand and refine the role for anesthesia simulation education within our curriculum, using clinically-based scenarios in anesthesiology management to enrich and enhance the education of medical students and residents in anesthesiology throughout their training. Our simulation education center is among a select number of such centers registered with the American Society of Anesthesiologists’ directory of simulation centers. The residency program presented its fourth annual CA-2 (PGY-3) retreat on practice management in the spring.

This year, we recruited our second Fellow in neuroanesthesiology, Demicha D. Rankin, MD, adding Ohio State to a short list of programs nationally offering such a training opportunity. Dr. Rankin will join our faculty upon completion of her fellowship training. In addition, we have recruited our second class of ACGME-accredited cardiothoracic anesthesiology Fellows, Michelle Santiago, MD and Abram Elsenraat, MD. Dr. Santiago will be joining our faculty upon completion of her fellowship training. In addition, we will be training yet another Fellow in our ACGME-accredited pain medicine fellowship, Matthew Fabian, MD. Dr. Fabian also plans to return to our faculty upon completion of his fellowship. We recently gained accreditation by the ACGME for our adult critical care fellowship, and are recruiting applicants for the coming year. We have recruited anesthesiologist intensivist, Ravi S. Tripathi, MD, to join Thomas J. Papadimos, MD, Deven Kothari, MD and Thomas E. Reilley, DO to provide a strong and growing intensivist faculty core as our department becomes increasingly engaged in the provision of critical care for our patients throughout the Medical Center. We also recruited two regional anesthesiology Fellows to train this year, Steven A. Beckley, MD and Nicholas Franklin, MD, who also plan to join our faculty upon completion of their fellowships.

This past year has presented a tremendous challenge to our department, as we have worked diligently to keep pace with the steady growth of services that require our care and expertise, not only in the operating suite, but literally throughout the entire medical center. In addition, we added a new site of surgical and anesthetic care in late August, 2009: The OSU Eye & Ear Institute at Gowdy Fields. The medical director for the operating rooms at that facility is John S. Rogoski, DO. Working with the excellent team of caregivers at the OSU Eye & Ear Institute, they have created an environment of safe, excellent and efficient ambulatory surgical care that is a model for our peers, both locally and nationally.
Our clinical service continues to grow. Our department provided care for nearly 60,000 cases, including the management of more than 7,000 cases of patients suffering from acute and chronic pain, more than 4,000 obstetrical procedures, and more than 6,000 preoperative assessments at the OSU Preoperative Assessment Center (OPAC). The breadth of services provided at the Medical Center requires the highest level of clinical skill among our faculty; its depth requires a strong work ethic, coupled with a desire to provide consistently outstanding care every hour of every day. This growth in clinical volume throughout the Medical Center has created opportunities to add additional skilled practitioners to our department. In addition to the fellowship trained subspecialist anesthesiologists listed above, we have recruited and are continuing to recruit anesthesiologists with expertise in thoracic anesthesiology, general clinical anesthesia, and other areas of clinical and academic expertise, allowing us to further build upon our fine faculty.

This has been an important and productive year for the department. As a native “Buckeye” and alumnus of the OSU College of Medicine, I am extremely excited about the opportunity I have to serve as the Jay J. Jacoby MD, PhD, professor and chair of the Department of Anesthesiology at Ohio State. As the Medical Center continues to demonstrate its excellence and eminence in clinical care, education and research, I am confident that the Department of Anesthesiology will become increasingly engaged in those endeavors. I look forward to our continued progress in the coming years.
University Hospital Anesthesia Administration

Steven S. Smith, MA
Director, Administration

Education

2009 – 2010 Highlights and Accomplishments

In 2010, the Department of Anesthesiology and The Ohio State University Medical Center have seen significant growth and development of its anesthesia technicians. Michael R. Smith, manager anesthesia services, developed a curriculum that is built around the American Society of Anesthesia Technologist and Technicians (ASATT) and the American Society of Anesthesiologist (ASA) standards of practice. The curriculum includes lectures on a weekly basis, given by Michael R. Smith, anesthesia residents, and faculty members. Practical skills exams are given periodically to demonstrate the technician’s skills and knowledge on various anesthesia-related equipment and procedures. Due to the continuing education of our anesthesia technicians, they are able to help clinicians in various types of situations in more ways than before. Room turnover times have decreased, and we have seen critical situations where the technician’s role has contributed to positive patient outcomes.

2010 – 2011 Goals

The long-term goal of the Department of Anesthesiology is to have all anesthesia technicians certified by ASATT. Our first group of anesthesia technicians is slated to take the national board exam by October 2011. The requirements to become an anesthesia technician at our institution will become more selective with the ASATT certification, allowing our entire staff in the Department of Anesthesiology to be recognized as healthcare professionals.

Clinical

2009 – 2010 Highlights and Accomplishments

The department recently purchased new equipment with capital equipment funds. Due to the success and benefits of the GlideScope® system, we were able to purchase four new GlideScope® systems with color monitors to help assist clinicians in difficult airway situations. The department upgraded 11 anesthesia back stands to Artromick Model ACM anesthesia carts. Our goal for next year is to complete the upgrade throughout Ohio State’s Medical Center.

Also, the department is proud to announce that it purchased and upgraded 16 anesthesia machines. After several trials and careful evaluation, the Anesthesia Equipment Committee approved the purchase of the...
GE Avance® Carestation®. The state of the art GE Avance® CareStation® will carry us into the next decade and aid us in delivering the best possible care to our patients.
Research

Fedias L. Christofi, PhD, AGAF
Professor, Anesthesiology
Professor, Physiology and Cell Biology
Vice Chair of Research

2009 – 2010 Highlights and Accomplishments

It is my pleasure to provide a brief report on our progress in research in 2009-2010. I am pleased to report that we continue to experience growth in research in the following areas:

(1) In 2007, we provided additional start-up funds, protected non-clinical time, mentors, laboratory space, and the research infrastructure for several physician scientists on the regular tenure track (RTT) and one basic researcher on the RTT to develop their independent research programs towards securing extramural/National Institutes of Health (NIH) funding. Their progress in 2009-2010 can be measured by their productivity in quality publications, new funding, development of new animal models of disease, and their continuing efforts to submit NIH, industry, or other grant applications.

(2) Expansion of basic and clinical research programs and interdisciplinary collaborations involving Nationwide Children’s Hospital, Dorothy M. Davis Heart and Lung Research Institute (DHLRI), neuroscience and spinal cord injury, wound healing, physiology & cell biology, pathology, surgery, and gastroenterology. Emerging programs in these fields are ripe for NIH grant submissions and possible support.

(3) For the fifth year in a row, we show a steady upward trend in the quality and number of our publications and national scholarly presentations.

(4) In 2009-2010, we reached a landmark level of extramural funding exceeding $1 million ($1,048,000) for the year that included grants from NIH, Society of Cardiac Anesthesia (SCA), Nationwide Children’s Hospital, a pilot NIH Clinical and Translational Science Awards (CTSA) grant (UL1RR025755) sponsored through National Center for Research Resources (NCRR)/OD, and NIH National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK) American Recovery and Reinvestment Act (ARRA) grant and industry-sponsored multi-center clinical trials and investigator-initiated clinical studies. Nearly 50% is from competitive granting mechanisms and primarily NIH.

(5) In research, we continue to invest in our people and our infrastructure. Our progress in basic and clinical research is measurable. We have 17 principal investigators (PI) and many co-investigators on our clinical Institutional Review Boards (33 IRBs) and basic International Animal Care and Use Committee (IACUC) animal protocols, many (> 30) research personnel and supporting staff in our department (postdoctoral researchers, 4; Fellows, 3; PhD student,
1; research assistants/associates, 2; clinical research personnel, 4; senior research engineer, 1;
technical editor, 1) and additional medical and undergraduate students and residents engaged
in research. We collaborate with investigators in many other departments including
pathology, DHLRI, ophthalmology, gastroenterology, surgery, wound healing program,
spinal cord injury program, imaging core, engineering, radiology, Nationwide Children’s
Hospital and other universities or hospital centers. This level of activity has resulted in a
significant record of peer-reviewed manuscripts, case reports, book chapters and abstracts
presented at local, regional, national and international meetings and in higher impact of our
publications. Some of our abstracts have received scientific awards at international meetings.

(6) Investment in our growth and development as an academic department is done with fiscal
responsibility and accountability – at least 50% of our research is supported by extramural
funding or other cost-sharing mechanisms, and we plan to continue to improve on this in a
step-fast pace.

2010 – 2011 Goals

Our goals for next year are to focus on extramural funding, improve our record of quality high impact
publications, and obtain additional NIH funding in basic and translational science. Recruitment of two
NIH-R01-funded scientists as PIs or co-investigators is in process for next year. NIH NIDDK studies
have received continuous funding on one or multiple R01-type grants for the past 18 years; faculty in our
department serve on NIH study sections as permanent members. We have set the bar high in our
department and 2009 established new levels of productivity and funding. Our long-term goal is to align
ourselves with the OSUMC mission to be a top 20 anesthesia department by 2015.

Progress Highlights

(1) Growth in funded research

Comparative Analysis for 2009/2010 with the previous year

<table>
<thead>
<tr>
<th>Category</th>
<th># Investigators 08/09</th>
<th>Total amount of award 08/09</th>
<th>Number of active studies 08/09</th>
<th>Number awarded 08/09</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clinical studies</td>
<td>3</td>
<td>499,869</td>
<td>17</td>
<td>11</td>
</tr>
<tr>
<td></td>
<td>5</td>
<td>648,000</td>
<td>19</td>
<td>16</td>
</tr>
<tr>
<td>NIH</td>
<td>1</td>
<td>270,368</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>1</td>
<td>356,808</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>SCA</td>
<td>1</td>
<td>20,000</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>1</td>
<td>20,000</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>NIH CTSA Pilot</td>
<td>0</td>
<td>25,000</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>1</td>
<td>18,412</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>NCI</td>
<td>0</td>
<td>3,500</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>Educ Grant</td>
<td>1</td>
<td>25,000</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>1</td>
<td>18,412</td>
<td>1</td>
<td>0</td>
</tr>
</tbody>
</table>

Total amount $790,237 $1,048,000 19 25 13 22

Direct costs 811,729
Indirect costs 236,758

In 2009-2010, the total amount of funding received from all sources increased substantially and there
were nine more grants awarded than the previous year (22 grants compared to 13 grants). New funding
was awarded from industry for clinical trials/studies, NIH, SCA, an NIH pilot award and NCI. Our initial
investment in developing research infrastructure, support personnel, and awarding of non-clinical
research time to support clinical research has resulted in a clear increase in growth and numbers of
clinical trials awarded and funds received from 2006-2010. In 2006, there were four active funded multi-
center clinical trials. During the 2009-2010 period (this report), we brought in an additional $648,000 in new awards from several PIs and many co-investigators or sub-Is in the Department of Anesthesiology. In 2009, we appointed Sergio D. Bergese, MD as director of clinical trials and neurological research in the Department of Anesthesiology. Over the past few years, Dr. Bergese was the PI of 23 industry-sponsored clinical trials for drugs or devices and clinical studies that were conducted in our department. Through these efforts and those of other physician scientists in the department on the regular clinical track (RCT) and RTT, our department is gaining recognition as a major center for clinical trials in neuroanesthesia, neural-monitoring devices, post-op pain, and postoperative nausea and vomiting (PONV). As a result of these efforts, we have established a clinical trials and research investigative team that includes clinical research coordinators, post-docs, Fellows, residents, faculty members, and medical students, and significant research that can support the growing research activity and interest in our department. Much of this effort is supported or cost-shared by external funding agencies.

(2) Growth in Scholarly Publications

<table>
<thead>
<tr>
<th></th>
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<tbody>
<tr>
<td>Number with impact factor (IF)</td>
<td>19 / 30</td>
<td>13</td>
</tr>
<tr>
<td>Number in Anesth Analg</td>
<td>3</td>
<td>2</td>
</tr>
<tr>
<td>Number in Anesthesiology</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Other anesthesia journals</td>
<td>6</td>
<td>5</td>
</tr>
<tr>
<td>Other journals</td>
<td>10</td>
<td>6</td>
</tr>
<tr>
<td>IF &gt; 3.0</td>
<td>8</td>
<td>4</td>
</tr>
<tr>
<td>Highest IF journal</td>
<td>5.3</td>
<td>5</td>
</tr>
<tr>
<td>Average IF</td>
<td>2.5</td>
<td>2.7</td>
</tr>
</tbody>
</table>

Book chapters: 4 | 9
Case reports: 2
Letters to editor: 2 | 1
Editor reviewed journal article: 1 | 1

Abstracts: 47 | 36
Peer-reviewed abstracts: 23 | 19

National meetings:
- International Anesthesia Research Society: 7 | 7
- American Society of Anesthesiologists: 7
- Society for Obstetric Anesthesia and Perinatology: 6
- Digestive Disease Week: 5
- Society of Cardiovascular Anesthesiologists: 3
- Society for Ambulatory Anesthesia: 2
- Experimental Biology: 2 | 4
- OSUMC Trainee Research Day: 13 | 9
- Midwest Anesthesia Residents Conference: 7 | 3
- Congress of Neurological Surgeons: 1
- Intraoperative Imaging Society: 1
- American Society of Regional Anesthesia and Pain Medicine: 2
- Society for Neuroscience 35th annual meeting: 2
- International Society for Magnetic Resonance in Medicine: 1
In one year we more than doubled our peer-review publications from 13 to 30 and also doubled publications with IF greater than 3.0 from four publications to eight publications. Our average IF remained essentially the same from the previous year. There were more chapters in books in the previous year. In addition, our national visibility is further enhanced by more scientific abstracts presented at national and international meetings compared to the previous year. This also reflects an increase and growth in our research programs and activities in the department. We will continue to strive to publish more articles in higher impact journals in the field such as *Anesthesiology*, *Pain*, and other high to very high impact journals (e.g. *Circulation, JCI, JBC, J Neuroscience, Neuron, Gastroenterology, Brain Neuroimaging, Nature and Cell*).

(3) Narrative Description of Key Benchmarks of Success

a. **Growing participation in research and scholarship by all**
   
   In the past several years, we have been recruiting both clinical research personnel and basic researchers to support our growing research programs – these included clinical research assistants, coordinators, postdocs and postdoctoral Fellows, a technical editor, NIH road map fellows, PhD students (bringing our total to six in 2009-2010) and medical students as well as undergraduate students. We have more residents engaged in research than ever before, and five senior residents had requested and received block time to conduct research, in addition to completing their CA-1 research rotation. A significant number of residents, students and Fellows have co-authored abstracts, and there were more scientific and case report presentations at regional and national meetings this past year. Some are beginning to get published in peer-reviewed journals. The growing number of faculty in the department and our many collaborators at OSU and NCI serving as PI or co-investigator on clinical or basic research projects are providing effective mentorship for our students, residents, Fellows and junior faculty.

b. **Internal jump-start funds**

   We continue the internal jump-start fund mechanism to support small seed grants for clinical or basic research of our faculty/residents. For example, Hamdy Awad, MD received seed funds to initiate collaboration with DHLRI investigators on wound healing. Dr. Awad received a pilot grant through the NIH CTSA grant mechanism (UL1RR025755/NCRR). The funds are intended to encourage new multidisciplinary research groups to address integrated solutions to complex clinical and translational problems and are designed to support new research teams. Roy Sashwati, PhD is Dr. Awad’s senior advisor on the study. The award was one of eight applications selected out of 45 for funding. The clinical/translational study investigates the local wound environment in regulation of pain and wound healing in post-sternotomy cardiac surgery patients. An NIH R21 application was submitted recently with Dr. Awad as Co-PI.

c. **Technical editor**

   We recruited a new technical editor in 2009 who is instrumental in initiating and preparing our quarterly research newsletters, updating and modernizing the research component on the anesthesiology website, organizing department research meetings (new), editing and submitting more journal articles, reports and abstracts, and providing support for all our technical editing and media presentation needs.

d. **MOU with Center for Biostatistics**

   We are continuing to provide biostatistics support for our research faculty and staff in the Department of Anesthesiology through the continuation of a signed MOU with the Center for Biostatistics and David Jarjoura, PhD; this has proven to be extremely beneficial to our scientists, residents, students, Fellows, and clinical research staff to provide team support of our research.
programs and education for the residents. It is paying-off in more quality publications, and more of our physician scientists are utilizing the service for developing experimental design in clinical studies and IRB submissions, analysis of large data sets and data mining in gene array expression studies, and as a consulting service or collaboration on submitted, pending or funded NIH, CTSA or clinical-grant applications. No doubt, it is making a difference in submitting more competitive NIH or other applications.

e. **Tracking non-clinical time for research**
A recent analysis for 2009-2010 of the top 14 faculty members who serve as PIs on IRBs and/or IACUC protocols indicates that we were close in meeting our target number of days allotted for non-clinical protected time. On average, the mean number of days/year received by each faculty member was 37/year. The most amount of time received by a faculty member was 80 to 95 days/year by faculty on the RTT. The numbers indicate that in 2010-2011 we provided equal amount of protected time. The level of support for most of our RCT faculty is appropriate, but some on the RCT who are more heavily into clinical research and especially those on the RTT could use more time for research. With the ongoing recruitment of more faculty members it should be possible to better accommodate their needs according to their productivity and research goals.

<table>
<thead>
<tr>
<th>Number of Days</th>
<th>2009-2010</th>
<th>2010-2011</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total target days</td>
<td>600</td>
<td>600</td>
</tr>
<tr>
<td>Total actual days</td>
<td>500</td>
<td>500</td>
</tr>
<tr>
<td>Mean days/yr (37 days)</td>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td>Faculty with most days</td>
<td>50</td>
<td>50</td>
</tr>
</tbody>
</table>

f. **NIH grants**
We have a 5-year R01 NIDDK grant in its 15th year and due soon for renewal on a 4th cycle – it received $270,000 in 2009-2010.

A **new ARRA NIH grant through the ARRA of 2009** was funded for $87,000 in 2009-2010. The goal was to investigate mechanisms and interactions of endogenous adenosine release in modulating neural-motor responses in the gastrointestinal (GI) tract and protecting against inflammation and mucosal damage in inflammatory bowel diseases. Co-investigators included Wendy Frankel, MD (OSU, professor and director clinical pathology labs), Kenneth Jacobson, PhD (NIH NIDDK, Chief Medicinal Chemistry) and Susan A. Masino, PhD (associate professor, Trinity College, Connecticut). A key innovation in these studies is to carry out for the first time real-time electrochemical detection of eADO release in intestinal tissue layers using an eADO biosensor (amperometry) system in human intestinal specimens removed from irritable bowel disease (IBD) patients undergoing surgery for their disease.

Progress was presented at the American Gastroenterology Association Meeting in Chicago, and a publication is in progress. These studies have served to obtain pilot/feasibility data for a new NIH R01 submission that will include a world-renowned NIH foreign investigator from TU Munchen.
Germany on “Neuroimaging of the human enteric nervous system in Inflammatory Bowel Diseases.” The new NIH NIDDK R01 recently received a 32 percentile score and is planned for resubmission in summer of 2011 (PI, FL Christofi).

g. Clinical processing laboratory and clinical grants
To further support our clinical research, we invested additional funds and have established a new approximately 200 square-foot clinical processing lab, newly furnished in the Department of Anesthesiology. The lab is well-equipped and meets all safety regulations for processing human samples, tissues or fluids from clinical studies or multi-center clinical trials. This has improved our capabilities and provides further support and leverage towards securing external funding for larger multi-center clinical trials and investigator-initiated clinical studies in our department. The completion date was spring 2009. Partial support for equipment (-80°C freezer, a BCL-2 biohazard hood, etc.) is from extramural funding, including NIH funds awarded to Fievos L. Christofi, PhD. This has improved our capabilities and environment for conducting translational studies, clinical trials and investigator-initiated clinical studies, including those that could be supported by the NIH. A clinical study to NIH submitted by Sergio D. Bergese, MD as a co-investigator (PI at University of California, San Francisco) received a percentile score of 26. Many clinical trials as discussed earlier require the use of the clinical lab.

h. Fellows
As part of the PhD fellowship program, a channel program between Al-Azhar University, Cairo Egypt and Hamdy H. Hassanaian, PhD’s laboratory, there are several PhD students on fellowship support in Dr. Hassanain’s laboratory who are enrolled in The Ohio State University’s Biochemistry and Biophysics (OSBB) and Molecular, Cellular and Developmental Biology (MCDB) graduate programs with full salary support, supplies, and program fees for a four-year period. The government of Egypt is supporting their tuition, fees and supply costs for their PhD training in our department; is approximately $200,000/student over four years.

i. Fiscal responsibility
A significant portion (≥ 50%) of our research efforts and salary support is provided by extramural funding from industry, NIH, or other mechanisms (fellowships, etc.) of our research expenditures. One of the goals is to move towards eventually supporting 80% or more of our costs for research.

(4) Goals for 2010 - 2011

Top Priority:

1. Focus on capitalizing on our investments in physician scientists by supporting their efforts to submit, resubmit or fund their NIH grant proposals.

2. Recruitment of an NIH-R01-funded scientist as well as a research assistant professor on the RRT (with some NIH-co-investigator funding) is in process, which will add to our strengths in research.

3. Recruit more junior and senior faculty with academic interests (e.g. record of research and scholarship, Fellowship-trained anesthesiologists) to further serve our research and educational missions. This will also provide opportunities for more non-clinical time for the most promising and productive physician scientists.
4. **Provide financial support for research linked to pursuit of competitive intramural and extramural funding.**

5. **Evolving research identity in “neurobiology of diseases and neuromodulation” –** our growing area of biggest strength is neurosciences and neuromodulation. We are beginning to explore additional interdisciplinary collaborations and partnerships in the field and this is expected to be an ongoing process of investment, growth and significant new NIH or equivalent extramural funding. We currently have:

   (1) A NIH-funded investigator in neuroscience research focused on studies on signal transduction pathways of neuroplasticity and immune-neural modulation in inflammatory diseases.

   (2) A RTT physician scientist who is focused on mechanisms of ischemic spinal cord injury. **An NIH grant is planned soon.**

   (3) A physician scientist with industry support for clinical studies on opioid-bowel dysfunction.

   (4) A RCT physician scientist who is gaining a national reputation in multi-center clinical trials in drug and devices for neurological applications – currently among top 5 percentile among OSU clinicians with most active clinical trials.

   (5) Many postdoctoral researchers and collaborators from other departments/centers involved in neuroscience research efforts.

   (6) As was the case in 2009-2010, our focus in the next year is on impact publications, NIH submission/scored grants, continuing to develop our research infrastructure and aggressively recruit NIH-funded investigators to complement our strengths. Our broad goals for next year are to focus on extramural funding, improve our record of quality, high impact publications, and obtain more NIH funding, including translational studies. Recruitment of NIH-R01-funded scientists is in process and will add to our strengths in research and academic development, and will provide additional mentorship support for junior faculty. PhD scientists (with NIH funding) joining our department have expertise and/or interests that complement our neuroscience research efforts; AJ Cardounel, PhD is R01-funded and served previously as co-investigator with the vice chair of research on a currently active R01 grant in enteric neurosciences, and resulted in notable publications in *Gastroenterology* (IF 13), *Inflammatory Bowel Diseases* (IF 4.99), and *International Journal of Parasitology* (IF 3.6).

   (7) Overall efforts in department: Areas of growing visibility in the department include neuroscience and neurological research (including basic mechanisms of neuroplasticity in IBD, IBS and ischemic spinal cord injury, mechanisms of neuroprotection, neuromodulation, neuroimaging of the CNS and ENS), monitoring devices in the perioperative setting, cardiovascular diseases, neurogastroenterology, opioid bowel dysfunction and neuroplasticity in inflammatory bowel diseases, neuroanesthesia, and wound healing mechanisms.

   (8) We are making progress in developing and standardizing our clinical research practice (budgets, billing, management, etc.), set up a certified clinical research lab, and are striving to further align with college programs.
Longer-term Goals:

1. Obtain NIH funding for one or more R01 grants in neurogastroenterology, an R21 or R01 grant in ischemic spinal cord injury, a clinical NIH grant in neuroanesthesia, an NIH R21 on “local anesthetic actions to provide pain relief in sternotomy patients,” and additional NIH grants on vascular/cardiac diseases.

2. Funding as PI for Lawrence J. Druhan, PhD, research assistant professor (hire date August 1, 2010).

3. Better integrate our research efforts and identify a single area of focus for our department to more aggressively support going forward to gain a national reputation.

4. Establish collaborations with Nationwide Research Institute on neural progenitor cells, neuroplasticity, and inflammation-induced changes in neural-circuit behavior in the human nervous system.

5. In the next one to three years, recruit an NIH-funded neuroscientist to complement our strengths in the field. To date, we have one basic researcher (F.L. Christofi, PhD, vice chair of research), and one physician scientist (Yun Xia, MD, PhD) who have succeeded in securing NIH funding through NIDDK to carry out studies in neurogastroenterology, with a focus on inflammatory bowel diseases, irritable bowel syndrome, second messengers, and neuroplasticity. A number of new NIH grants are planned in 2010. The vice chair of research has been funded through NIH NIDDK/NCRR for 18 years on five separate grants, a four-year NIH fellowship for an MD/PhD student (currently pursing an academic career in gastroenterology with his mentor as Gail Hecht, MD, president of the AGA Institute), and five additional R01s as co-PI. We plan to do our best to align ourselves with the neuroscience signature program and other related programs (i.e. neurogastroenterology and the GI division, internal medicine) in our recruitment efforts. Several senior residents spend one- to two-month research blocks in neurogastroenterology, and one resident is now on faculty.

6. There is a postdoctoral Fellow gastroenterologist (MD/PhD) recruited in Dr. Christofi’s laboratory who trained with a prominent world-renowned clinical motility physician scientist, Joseph Sung, MD at The Chinese University of Hong Kong (chair of internal medicine & therapeutics, associate dean, faculty of medicine, director of Digestive Disease Institute). He has completed a three-year training fellowship and has several publications in impact journals in the field. There is a possibility for him to return to the United States after the pending NIH R01 application is funded.

7. There is also an MD/PhD physician scientist from Germany who trained with the vice chair for a number of years, and is now a CA-1 resident at OSU and is planning to pursue an academic career in anesthesiology (Jacqueline Wunderlich, MD, PhD.; she is a significant other investigator on the new R01 submitted on “Neuroimaging in the human ENS in health and disease” and Ronald L. Harter, MD and Andrew H. Roth, MD (director of residency program) support her involvement in research at this level during her three-year residency. She received a one month block time last December to conduct research, and was co-author on two abstracts presented at the AGA meeting in 2011. She is scheduled for another one month block of time later this year. In the third year, she will have a six-month non-clinical time to devote to NIH studies. This should provide her with the additional growth and development to submit a clinical investigator grant (K08 or similar) as a junior faculty member in our department (as long as she
maintains a high level of performance in her clinical skills, etc.).

8. We are building from the bottom up, but we need one or more extramurally-funded scientists in a focused area of research to facilitate our progress. Overall, there are currently three physicians/scientists who are aggressively pursuing NIH-funding opportunities on new R01-type applications. Each of them is developing research programs. Our goal is to be in the top 20 academic anesthesia departments in the country, but this will take some time.

9. **National ranking**: Our goal is to align ourselves with the college mission to be in the top 20. In this category, our target is to be ranked at 23rd to 24th in the country according to NIH/other indicators in the next five years; this includes recruitment of NIH-funded basic and physician scientists. However, aggregate national standards of progress and productivity will be adopted, not just NIH ranking, to further assess our standing (total funding/clinical trial and NIH, national awards, IF, citations of impact articles, editorials, news releases, numbers of publications, numbers of grants, NIH study sections, editorial boards of journals, national committees, etc.).

10. **Further develop research infrastructure and provide research education in the Department of Anesthesiology**. Department research meetings, workshops, research education, a CA-1 resident research rotation (now running for nine years with more than 80 residents participating to date), a quarterly research newsletter, and an updated anesthesiology website are all activities that will help in this regard. Our clinical research team is providing guidance and education in clinical research.

11. **Expand clinical trial research** and provide education and training to residents, faculty, and students in the department.

(5) **Honors/Awards**

Our residents, Fellows, and students have received awards and acknowledgement for their scientific and case-report presentations at local, regional, and/or national meetings.

(6) **Publications**

**Peer-reviewed Journal Articles, Case Reports, & Other Publications**


18. Papadimos TJ. Doctors as Nietzschean Supermen? Author’s reply. Med Humanities 2009;35:63-64. (No IF listed)


Abstracts


3. Anderson D, Halim M. Perioperative management of a patient with moyamoya disease and pre-eclampsia undergoing cesarean section. Presented at Society for Obstetric Anesthesia and Perinatology 42nd annual meeting, San Antonio, Texas, United States (May 12-16, 2010) [Peer reviewed]


5. Beltran RJ, Corridore M, Naguib A. Management of opposing cardiac abnormalities in a newborn. Presented at Midwest Anesthesia Residents Conference, Cincinnati, Ohio, United States. (February 19-21, 2010) [Not peer reviewed]


7. Bergese SD, Hassona MD, Khan F, Beck A, Puente EG. Low doses of clevidipine have an increased vasodilatory effect on the hypertrophic mesenteric vessel from a profilin-1 hypertensive transgenic mouse model. Presented at International Anesthesia Research Society 2010 annual meeting, Honolulu, Hawaii, United States. (March 20-23, 2010) [Peer reviewed]

8. Burnett T, Halim M. Local anesthetic infiltration for cesarean section in a patient with spinal muscular atrophy type II. Presented at Midwest Anesthesia Residents Conference, Cincinnati, Ohio, United States. (February 19-21, 2010) [Not peer reviewed]

9. Coffman JC, Halim M. Anaphylactic reaction to chlorobutanol-preserved oxytocin. Presented at Midwest Anesthesia Residents Conference, Cincinnati, Ohio, United States. (February 19-21, 2010) [Not peer reviewed]


20. King SJ, Severyn S. Intercostal nerve block relieves neuralgia from ventricular assist device: a case report. Presented at 9th annual OSUMC Trainee Research Day, Columbus, Ohio, United States. (April 8, 2010) [Not peer reviewed]


23. Kirchen GD, Bailey M, Rosborough K, Bonaventura B, Bergese S, Dzwonczyk R. Examining the effects of electromagnetic interference from intraoperative magnetic resonance imaging on electrocardiogram signals. Presented at 9th annual OSUMC Trainee Research Day, Columbus, Ohio, United States. (April 8, 2010) [Not peer reviewed]


29. Park KW, Dickerson C, Schmidt J. Use of the preoperative assessment clinic is associated with a reduced cancellation rate on the day of surgery. Presented at International Anesthesia Research Society 2010 annual meeting, Honolulu, Hawaii, United States. (March 20-23, 2010) [Peer reviewed]


43. Wright RS. 3D mitral valve changes during OPCAB surgery. Presented at 9th annual OSUMC Trainee Research Day, Columbus, Ohio, United States. (April 8, 2010) (Nadia Nathan is advisor) [Not peer reviewed]


Chapters in Books


Books & Monographs


(7) List of Grants - AWARDED 7/1/2009 to 6/30/2010

**Christofi, Fedias L., PhD, AGAF**

- NIH NIDDK (ARRA)
  Purinergic regulation of enteric neural reflexes
  $86,440

- NIH NIDDK R01
  Purinergic regulation of enteric neural reflexes
  $270,368

**Elsayed-Awad, Hamdy, MD, MSc**

  Pilot grant through the NIH CTSA grant mechanism (UL1RR025755 / NCRR)
  $25,000

**Gerhardt, Mark A. MD, PhD**

- Research Institute at Nationwide Children’s Hospital
  Molecular alterations in ventricular septal defect
  $18,412

- Society for Cardiovascular Anesthesiologists
  Cytoskeletal alterations in a porcine model of restrictive ventricular septal defect
  $20,000

- Teleflex Incorporated
  Teleflex medical education grant
  $3,500

**Clinical**

**Bergese, Sergio D., MD**

- Covidien
  Evaluating the accuracy of continuous non-invasive blood pressure algorithm in hospital operating room and acute care
$113,548

- Covidien
  Evaluation of respiratory related algorithms in the hospital setting
  $147,085

- Duke University
  INN-SWI-002 - A randomized, controlled phase 3 study of gentamicin-collagen sponge (Collatamp G) in general surgical subjects at higher risk for surgical wound infection
  $11,941

- Eisai Co., Ltd.
  Studying the effectiveness of triple therapy with palonosetron, dexamethasone and promethazine for prevention of post operative nausea and vomiting in high risk patients undergoing neurological surgery and general anesthesia
  $13,975

- Eisai Co., Ltd.
  A multi-center, open-label, 2-arm, randomized, stratified, parallel, pilot study to assess palonosetron vs. ondansetron as rescue medication in subjects that developed postoperative nausea and vomiting (PONV) in the postanesthesia care unit (PACU)
  $24,309

- Javelin Pharmaceuticals, Inc.
  Protocol DFC-010: An open-label, multiple-dose, multiple-day, non-randomized, single-arm safety study of repeat-doses of DIC075V (intravenous diclofenac sodium) in patients with acute post-operative pain
  $110,701

- Medicines Co., The
  The evaluation of patients with acute hypertension and intracerebral hemorrhage with intravenous clevidipine treatment (ACCELERATE)
  $11,850

- Pacira Pharmaceuticals, Inc.
  A phase 3, multicenter, randomized, double blind, parallel group, active control study to evaluate the safety and efficacy of a single administration of SKY0402 for prolonged postoperative analgesia in subjects undergoing total knee arthroplasty
  $11,522

- Pacira Pharmaceuticals, Inc.
  A phase 3, multicenter, randomized, double-blind, parallel-group, active-control study to evaluate the safety and efficacy of local administration of SKY0402 for prolonged postoperative analgesia in subjects undergoing bilateral, cosmetic sub-muscular
  $1,500

- Premier Research Group, PLC
  A phase III, open-label study to investigate the safety and tolerability of the CollaRx bupivacaine implant in patients after pelvic, abdominal or gynecologic surgery
  $2,000
• Premier Research Group, PLC
  A phase 2, randomized, double-blind, placebo-controlled, proof of concept study to evaluate the analgesic efficacy and safety of intravenous CR845 during the postoperative period in subjects undergoing laparoscopic-assisted hysterectomy
  **$13,732**

• Sanofi-aventis
  Protocol EFC6520: A multinational, multicenter, randomized, double blind study comparing the efficacy and safety of AVE5026 with enoxaparin for the prevention of venous thromboembolism in patients undergoing major abdominal surgery
  **$2,000**

**Hassanain, Hamdy H. PhD**

• Medicines Co., The
  Assessment of the efficacy of clevidipine on vasospasm using a profilin-1 transgenic mice model
  **$27,000**

**Miller, Sidney Frederick; Bergese, Sergio D., MD**

• Pfizer, Inc.
  Prospective, single center, randomized, double blind, placebo controlled trial for the evaluation of the efficacy of 300 mg or 600 mg of pregabalin versus placebo in the reduction of pain and opioid consumption in patients with partial or full thickness burns
  **$11,683**

**Xia, Yun MD, PhD**

• Sucampo Pharmaceuticals, Inc.
  A multi-center open-labeled study of the long-term safety and efficacy of lubiprostone in patients with opioid-induced bowel dysfunction
  **$11,402**

• Sucampo Pharmaceuticals, Inc.
  Multicenter, randomized, placebo-controlled, double-blinded study of the efficacy and safety of lubiprostone in patients with opioid-induced bowel dysfunction
  **$5,204**
Publications

Peer-reviewed Journal Articles, Case Reports, & Other Publications


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unique purine gene dysregulation profiles that distinguish between CD and UC. Inflamm Bowel Dis 2009 Jul;15(7):971-984. (IF = 4.643)


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Chapters in Books


Books & Monographs


2009 – 2010 Highlights and Accomplishments

The Ohio State University Department of Anesthesiology residency program's mission is to produce top-of-the line clinicians and scholars for the improvement of the field of anesthesiology. We pride ourselves on the vast spectrum of cases the residents are exposed to and the thought processes that we go through as academicians to provide the best care to our patients.

This excellent clinical exposure is mixed with a strong didactic experience for our residents. This is demonstrated by our board pass rate, which is a 90% five-year board certification rate that is well above the national average of 83%. We feel we have an above-average percentage because we are a smaller program, comparatively speaking, and the residents do not get lost in a big group.

Our program has 12 residents allotted for each clinical year. We have seven categorical positions during which the residents have one year of internship at Ohio State. The remaining five spots are advanced positions in which the resident does an internship at an outside hospital and then starts with us in their PGY-2 year. We also offer accredited fellowships in pain medicine, cardiothoracic, critical care, and pediatric anesthesiology. In addition to the accredited programs, we offer non-accredited fellowship positions in obstetric anesthesiology, neuroanesthesia, and regional anesthesiology.

We had 14 graduating residents this past year; 10 of these graduates went into various fellowships around the United States in the most competitive subspecialties and programs. Four chose to go into private practice, and each of these residents entered jobs in locations where they desired to be.

- **Chris Annis, MD** - Dr. Annis completed his anesthesiology residency and then entered into a pain fellowship at the University of Illinois at Chicago.

- **Nicholas Franklin, MD** - Dr. Franklin completed his anesthesiology residency and entered a regional anesthesiology fellowship at The Ohio State University East. He will remain as faculty.

- **Steven Beckley, MD** - Dr. Beckley completed his anesthesiology residency and entered a regional anesthesiology fellowship at The Ohio State University East. He will remain as faculty.

- **Demicha Rankin, MD** - Dr. Rankin completed her anesthesiology residency and entered a neuroanesthesia fellowship. Upon completion of her fellowship, she will join the faculty at The Ohio State University Medical Center.
- **Jennifer Elmore, DO** - Dr. Elmore completed her anesthesiology residency and entered a private practice position in Destin, Texas.

- **Tinu Thomas, MD** - Dr. Thomas completed his anesthesiology residency and entered a private practice position near Nashville, Tennessee.

- **Jake Coffman, MD** - Dr. Coffman completed his anesthesiology residency and entered an obstetric anesthesiology fellowship at The University of Alabama at Birmingham.

- **Feyce Peralta, MD** - Dr. Peralta completed her anesthesiology residency and entered an obstetric anesthesiology fellowship position at Northwestern University.

- **Michelle Santiago, MD** - Dr. Santiago completed her anesthesiology residency and entered a cardiothoracic fellowship at The Ohio State University Medical Center.

- **Matthew Fabian, MD** - Dr. Fabian completed his anesthesiology residency and entered a pain fellowship at The Ohio State University Medical Center.

- **Barry Arthurs, MD** - Dr. Arthurs completed his anesthesiology residency and entered private practice at Grant Medical Center in Columbus, Ohio.

- **Ralph Beltran, MD** - Dr. Beltran completed his anesthesiology residency and entered a pediatric anesthesiology fellowship. He will be returning to Ohio State to work in academic medicine.

- **Tyler Burnett, MD** - Dr. Burnett completed his anesthesiology residency and entered a pediatric anesthesiology fellowship at The Ohio State University Medical Center.

- **Samuel King, MD** - Dr. King completed his anesthesiology residency and entered private practice in Piketown, Kentucky.
Scholarly Contributions

Awards & Honors

National & Regional Conferences

1. Midwest Anesthesia Residents Conference

   First Place Awards

   Residents Hokuto Nishioka, MD and Michelle Santiago, MD placed first in their respective categories. Dr. Nishioka presented “Intrathecal procedures: What goes around comes around” and Dr. Santiago presented “Acute iatrogenic aortic insufficiency after mitral valve replacement.”

2. Society for Ambulatory Anesthesia

   25th Annual Meeting

   Resident Travel Award & White Mountain Institute Award

   Resident Derek Foerschler, DO won two awards: a resident travel award ($1,000) and the White Mountain Institute Award (3rd place of all resident-submitted abstracts) for his abstract titled “Retained femoral perineural catheter in the out-patient setting.”

3. Society for Obstetric Anesthesia and Perinatology

   42nd annual meeting

   Resident/Medical Student Forum: Best Case Report

   Resident Tyler Burnett, MD won 2nd place in the ‘Resident/Medical Student Forum: Best Case Report’ category for his abstract, “Local anesthetic infiltration for cesarean section in a patient with Spinal Muscular Atrophy Type II.”

4. The Society for Education in Anesthesia

   25th Annual Spring Meeting

   Best Abstract

   Faculty Thomas J. Papadimos, MD, Andrew H. Roth, MD, Michael J. Andritsos, MD, and Katja R. Turner, MD received the Best Abstract award for their poster titled “The use of standardized patients to evaluate interpersonal communication skills of anesthesiology residents: a follow-up study.” The poster was ranked first out of 42 entries in the scientific category.

The Ohio State University College of Medicine

1. College of Medicine’s Excellence in Teaching Award
   Kenneth Moran, MD

2. The Ohio State University School of Allied Medical Professions Excellence in Teaching Award
Ritu Kapoor, MD

The Ohio State University Department of Anesthesiology

1. **Teacher of the Year**
   Joshua Lumbley, MD

2. **2009-2010 Resident of the Year**
   Nicholas Franklin, MD

3. **Hardest Working CA-3 Resident**
   Barrington Arthurs, MD

4. **Hardest Working CA-2 Resident**
   Hokuto Nishioka, MD

5. **Hardest Working CA-1 Resident**
   David Anderson, MD

6. **2009 CRNA of the Year**
   Charles E. Martin, CRNA

**Other Awards & Honors**

1. **Visiting Professor of Medicine**
   Presented to Sergio D. Bergese, MD by Charleston Southern University, Charleston, South Carolina, United States on December 16, 2009 for his presentation on “The neurovascular component of vascular dysfunction and the sequelae of acute hypertension.”

2. **Visiting Professor of Medicine**
   Presented to Sergio D. Bergese, MD by The Milton S. Hershey Medical Center College of Medicine, Hershey, PA, United States on February 19, 2010 for his presentation on “Vascular dysfunction-the neurovascular component. sequelae of acute hypertension and rethinking acute hypertension management.”

3. **Robert T. Tidrick Golden Apple Award for Teaching Excellence**
   Presented to Thomas J. Papadimos, MD by the University of Toledo, Toledo, Ohio, United States.
Faculty Leadership Positions

National Committees

American Gastroenterology Association
- Fedias L. Christofi, PhD
  - Research symposium, neurogenic plasticity and the enteric nervous system at Digestive Disease Week, Chair

American Medical Association (AMA)
- Ronald L. Harter, MD
  - American Society of Anesthesiologists (ASA) Alternate Delegate, AMA House of Delegates, Alternate Member

American Society of Anesthesiologists
- Joshua Lumbley, MD
  - Committee on Young Physicians, Chair
- Ronald L. Harter, MD
  - ASA Task Force on Chemical Dependence, Member
  - ASA Committee on Membership, Member
  - ASA Committee on Medical Students and Residents, Chair
  - ASA Board of Directors, Alternate Director
  - ASA Committee on Bylaws, Member
  - ASA District 11 Director

National Institutes of Health
- Fedias L. Christofi, PhD
  - Member, Clinical Integrative and Molecular Gastroenterology study section of National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK)

Society of Cardiovascular Anesthesiologists
- Kyung (Tim) Park, MD
  - Chair and Editor

State Committees

Ohio Department of Health
- Robert H. Small, MD
  - Maternity and Newborn Advisory Council, Member

Ohio Patient Safety Institute
- Joshua Lumbley, MD
  - OSMA representative, Board of Trustees

Society for Perioperative Assessment and Quality Improvement
- Barbara M. Rogers, MD
  - Education Committee, Member
The Ohio Society of Anesthesiologists (OSA)

- **Ronald L. Harter, MD**
  - OSA District 6 Director
  - Committee on Governance, Chair
  - Committee on Governmental Affairs, Chair
  - Judicial Committee, Member
  - Committee on Nominations, District 6

- **Joshua Lumbley, MD**
  - ASA Alternate Delegate, District 5
  - Committee on Governmental Affairs, Chair
  - Subcommittee on Legislative Internships, Chair

- **Thomas J. Papadimos, MD**
  - Committee on Education & Annual Meeting, Member
  - ASA Alternate Delegate District 3

- **Thomas E. Reilley, DO**
  - Subcommittee on Critical Care Medicine

- **Barbara M. Rogers, MD**
  - OSA Alternate District Director 6

- **John S. Rogoski, DO**
  - Committee on Education & Annual Meeting, Member

- **Robert H. Small, MD**
  - President Elect
  - ASA Delegate-at-large
  - Committee on Education & Annual Meeting, Member
  - Committee on Governmental Affairs, Member
  - Committee on Resident Component Relations (ad hoc)

Local Committees

Children’s Hunger Alliance

- **Jamie Keller, MD**
  - Board Member

Nationwide Children’s Hospital

- **Jamie Keller, MD**
  - Fundraising

University of Toledo, Department of Medical Microbiology and Immunology

- **Thomas J. Papadimos, MD**
  - Faculty

The Ohio State University Committees

- **Mark A. Gerhardt, MD, PhD**
  - Graduate faculty "P" status, Division of Pharmacology, College of Pharmacy, The Ohio State University, Member

- **Roger R. Dzwonczyk**
  - OSU College of Engineers, Engineers for Community Service (ECOS), Member
• Hamdy H. Hassanain, PhD
  • Molecular, Developmental and Cellular Biology Program, Member

The Ohio State University Medical Center Committees

• Michael J. Andritsos, MD
  • Medical Executive Administrative Council, Member
  • Operating Room Committee, Member
  • Cardiovascular Services Quality Management Committee, Member
  • Cardiovascular Services Task Force for Morbidity Reduction, Advisor
  • Mortality Reduction Council, Advisor
  • Health System Physician Executive Council, Member
  • Health System Corporate Credentialing Committee, Member
  • Physician Executive Council, Member

• Fernando L. Arbona, MD
  • UHE OR Committee, Member
  • UHE Orthopedics Quality Committee, Member
  • UHE Medical Advisory Committee, Member
  • Medical Directors Forum, Member

• Constantino Benedetti, MD
  • Tumor Board, Arthur G. James Cancer Hospital and Research Institute, Member
  • Formulary Committee, Member

• Sergio D. Bergese, MD
  • Blood Brain Barrier Committee, Member
  • Head Trauma Committee, Member
  • Neuro-SICU Reimplementation Committee, Member
  • Clinical Space Reorganization Committee, Intraoperative MRI and Intraoperative Endovascular Suite, Leader
  • Clinical Evaluation Policy Group, Leadership Council for Clinical Value Enhancement, Faculty Recruitment Committee, Member
  • University Hospitals Pre-Operative Process Committee, Chair
  • Neurosciences Clinical Quality Management Committee, Chair
  • Peri-Operative and Nurse Anesthetist Personnel Committee, Member
  • Leadership Council for Clinical Value Enhancement (LCCVE), Member
  • Pharmacy, Therapeutics and Drug Utilization Committee, Member

• Ryan E. Dalton, MD
  • Health System Perioperative Quality Management, Member
  • Evidence-Based Practice Policy Group, Member
  • Health System Credentialing Committee, Member
  • Clinical Quality and Patient Safety Committee, Member
  • Health System Infection Control Committee, Member

• Galina T. Dimitrova, MD
  • Clinical Resource Evaluation Policy Group Committee, Member

• Roger R. Dzwonczyk
  • Davis Heart & Lung Research Institute (DHLRI), Member

• Hamdy Elsayed-Awad, MD
  • Evidence Based Practice Policy Group, Member

• Michael F. Evers, DO
- Clinical Patient Safety Committee, Member

- **Mark A. Gerhardt, MD, PhD**
  - Formulary Committee, Member
  - Pharmacy Therapeutics and Drug Utilization Committee, Member

- **Bhagwandas Gupta, MD**
  - CPR Committee, Member
  - Grievance Committee, Member
  - Medical Records Committee, Member
  - Quality Assurance Committee, Member

- **Charles L. Hamilton, III, MD**
  - Antibiotic Committee, Member

- **Ronald L. Harter, MD**
  - Graduate Medical Education Committee, Member
  - Medical Staff Administrative Committee, Member

- **Hamdy H. Hassanain, PhD**
  - Davis Heart & Lung Research Institute (DHLRI), Member

- **Garrett T. Kelly, MD**
  - Laboratory and Clinical Testing Utilization Committee, Member
  - Trauma QMC, Member

- **Alan J. Kover, MD**
  - Pharmacy, Therapeutics and Drug Utilization Committee, Member
  - Medication Safety Committee, Member

- **Luis A. Lopez, MD**
  - Operating Room Committee, Member
  - Perioperative Committee, University Hospital, Member
  - Physicians Committee, OSU Health System, Member
  - Medical Staff Administrative Committee, University Hospital, Alternate Representative
  - Medical Staff Administrative Committee, The James Cancer Hospital, Alternate Representative

- **John A. Norton, DO**
  - OSUE PQRS Committee, Member

- **Thomas J. Papadimos, MD**
  - Infection Control, Member
  - Practice Variability, Member

- **William J. Perez, MD**
  - OR Communications Council, Member
  - Cardiovascular Morbidity/Mortality Reduction Committee Surgery Subsection, Member
  - Mortality, Reviewer
  - Ethics Committee, Member

- **Thomas E. Reilley, DO**
  - Critical Care, Founding Member
  - Operating Room/Surgery/Anesthesia Committee, University Hospitals East, Chair
  - Code Blue Committee, University Hospitals East, Member
  - Medical Executive Committee, University Hospitals East, Member
  - Orthopedic QA/QI Committee, Member
  - Critical Care CQMC Committee, Member
  - Health System Operating Room Coordinating Committee, Member
  - Trauma QMC, Member
• **Barbara M. Rogers, MD**
  • Policy and Surveillance, Member
  • Neuro-Anesthesia Continuing Education Committee, Planning Committee, Member
  • Neuro-Anesthesia Team, Member

• **John S. Rogoski, DO**
  • Transfusion & Isoimmunization Committee, Member
  • James Cancer Hospital Medical Staff Executive Committee, Member
  • James Cancer Hospital Operating Room Committee, Member
  • OSU Medical Center Infection Control Committee, Member
  • Health System Infection Control Committee, Member
  • Health System Perioperative Quality Management Committee, Member
  • Clinical Technology & Product Assessment Committee, Member
  • Code Blue Quality Management Committee, Member
  • Technology Assessment Committee, Member

• **Robert H. Small, MD**
  • Protocol Development Group for Exit Procedure, Member
  • Medical Staff Bylaws Committee, Member
  • Medical Center Leadership Team, Member
  • Code Blue Committee, Member
  • Formulary Committee, Member

• **Thomas J. Smith, MD**
  • Technology Assessment Committee, Member
  • Medical Information Committee, Member

• **Gaylynn J. Speas, MD**
  • Obstructive Sleep Apnea Task Force, Attending Staff
  • Clinical Practice Guidelines Policy Group, Member

• **W. Daniel Traetow, MD**
  • Committee for Licensed Independent Practitioner Health, Member
  • Medical Staff Advisory Committee, Member
  • Surgical Services Committee, Member

• **Katja R. Turner, MD**
  • Cardiovascular Mortality Reduction Initiative Committee, Member
  • Transfusion and isoimmunization Committee, Member

• **David O. Yablok, MD**
  • Transfusion and Isoimmunization Committee, Member

**The Ohio State University College of Medicine Committees**

• **Constantino Benedetti, MD**
  • Promotion and Tenure Committee, Member
  • Patient Centered Medicine Committee, Member

• **Fedias L. Christofi, PhD**
  • Promotion and Tenure Committee, Member

• **Mark A. Gerhardt, MD, PhD**
  • Medical Center Perioperative Beta Blocker Guidelines Taskforce, Member
  • Library Advisory Committee, Member

• **Ernesto Goldman, MD**
  • Medpath Program, Member
• Bhagwandas Gupta, MD
  • College of Medicine Student Admissions Committee, Member

• John S. Rogoski, DO
  • Faculty Council, Alternate Member
  • Resident Selection Committee, Member

• Hamdy H. Hassanain, PhD
  • Radiation Safety Committee, Member

• Robert H. Small, MD
  • Faculty Council, President
  • Conference and Agenda Committee, Member
  • Protocol Development Group for Exit Procedure, Member

• Katja R. Turner, MD
  • Admission Committee, Member

• Joseph G. Werner, MD
  • Outside resident rotators within Department of Anesthesiology, Director

• Yun Xia, MD, PhD
  • International Health Education Advisory Committee, Member
  • Office of Global Health Education, Member

Department of Anesthesiology Committees

• Michael J. Andritsos, MD
  • Leadership Advisory Committee, Acting Advisor
  • Resident Selection Committee, Member
  • Faculty Recruitment Committee, Chair
  • OPAC Advisory Committee, Member
  • Finance Committee, Member

• Fernando L. Arbona, MD
  • Finance Committee, Member
  • Performance Bonus Advisory Committee, Member
  • Leadership Advisory Committee, Member
  • Clinical Faculty Committee, Member

• Constantino Benedetti, MD
  • Task Force for Interdisciplinary Pain Program, Member
  • Ethics Committee, Member
  • Clinical Quality Management Policy Group, Member
  • Quality Assurance Committee, Member
  • Appointment, Promotion and Tenure Committee, Member

• Sergio D. Bergese, MD
  • Research Committee, Member
  • Faculty Recruitment, Member
  • Leadership Advisory Committee, Member

• Fedias L. Christofi, PhD
  • Appointment, Promotion and Tenure Committee, Chair
  • Faculty Recruitment, Member
  • Leadership Advisory Committee, Member
  • Performance Bonus Advisory Committee, Member
  • Research Committee, Chair
- **Ryan Dalton, MD**
  - Quality Assurance Committee, Chair
  - Finance Committee, Member
  - Leadership Advisory Committee, Member
  - Clinical Competency Committee, Member
  - Clinical Faculty Committee, Member

- **Galina T. Dimitrova, MD**
  - Quality Assurance Committee, Member
  - Performance Bonus Advisory Committee, Member
  - Clinical Competency Committee, Member
  - Education Committee, Member
  - Clinical Faculty Committee, Member

- **Roger Dzwonczyk**
  - Computer Committee, Member
  - Research Committee, Member

- **Heather Eck, MD**
  - Equipment and Pharmacy Committee, Member
  - OPAC Advisory Committee, Member
  - Quality Assurance Committee, Member
  - Resident Selection Committee, Member

- **Hamdy Elsayed-Awad, MD**
  - Quality Assurance Committee, Member
  - Research Committee, Member
  - Appointment, Promotion and Tenure Committee, Member

- **Michael F. Evers, DO**
  - Quality Assurance Committee, Member

- **Mark A. Gerhardt, MD, PhD**
  - Resident Selection Committee, Member
  - Research Committee, Member
  - Education Committee, Member
  - Faculty Recruitment Committee, Member
  - Appointment, Promotion and Tenure Committee, Member

- **Ernesto Goldman, MD**
  - Research Committee, Member
  - Appointments, Promotion and Tenure Committee, Member
  - Executive Committee, Member

- **Bhagwandas Gupta**
  - Appointment, Promotion and Tenure Committee, Member
  - Clinical Competency Committee, Member
  - Education Committee, Member
  - Executive Committee, Member
  - Resident Selection Committee, Member

- **Rebecca M. Gutmann, MD**
  - OSU Preoperative Assessment Center Advisory Committee, Member

- **Mona Halim, MD**
  - Leadership Advisory Committee, Member
  - Quality Assurance Committee, Member

- **Charles L. Hamilton, III, MD**
• Education Committee, Member
• Evidence-Based Medicine Committee, Member

• Ronald L. Harter, MD
  • Education Committee, Chair
  • Faculty Recruitment, Member
  • Finance Committee, Member
  • Clinical Faculty Committee, Chair
  • Evidence-Based Medicine Committee, Ex Officio
  • Research Committee, Ex Officio
  • Equipment and Pharmacy Committee, Ex Officio
  • Quality Assurance Committee, Ex Officio
  • Performance Bonus Advisory Committee, Ex Officio
  • Leadership Advisory Committee, Ex Officio
  • Appointment, Promotion and Tenure Committee, Ex Officio
  • Clinical Competency Committee, Ex Officio
  • OPAC Advisory Committee, Ex Officio

• Hamdy H. Hassanain, PhD
  • Research Committee, Member

• Ritu Kapoor, MD
  • Education Committee, Member
  • Evidence-Based Medicine, Member
  • OPAC Advisory Committee, Member

• Garrett T. Kelly, MD
  • Equipment and Pharmacy Committee, Member
  • Quality Assurance Committee, Member
  • Research Committee, Member

• Babak Khabiri, DO
  • Research Committee, Member

• Alan J. Kover, MD
  • Equipment and Pharmacy Committee, Member

• Lin Li, MD
  • Equipment and Pharmacy Committee, Member

• Luis A. Lopez, MD
  • Finance Committee, Member
  • Leadership Advisory Committee, Member
  • Clinical Faculty Committee, Member
  • Executive Committee, Member
  • Quality Assurance Committee, Member
  • Faculty Recruitment Committee, Member
  • OPAC Advisory Committee, Member

• Deborah S. Lowery, MD
  • Evidence-Based Medicine Committee, Member

• Joshua L. Lumbley, MD
  • Quality Assurance Committee, Member
  • Education Committee, Member
  • Faculty Recruitment, Member
  • Clinical Competency Committee, Member

• Mani Matharbootham, MD
- Equipment and Pharmacy Committee, Member
- Quality Assurance Committee, Member

**Hans Miller, MD**
- Equipment and Pharmacy Committee, Member

**Kenneth R. Moran, MD**
- Research Committee, Member
- Education Committee, Member
- Clinical Competency Committee, Member
- Contract Committee, Member
- Residency Admissions Committee, Member
- Website Committee, Member

**John A. Norton, DO**
- Resident Selection Committee, Member
- Quality Assurance Committee, Member
- Credentialing Meeting, Member

**Thomas J. Papadimos, MD**
- Finance Committee, Member
- Faculty Recruitment Committee, Member
- Research Committee, Member
- Leadership Advisory Committee, Member
- Appointment, Promotion and Tenure Committee, Member

**Stephen E. Paquelet, MD**
- Performance Bonus Advisory Committee, Member
- Equipment and Pharmacy Committee, Member

**Kyung (Tim) Park, MD**
- Appointment, Promotion and Tenure Committee, Member

**Thomas E. Reilley, DO**
- Appointment, Promotion and Tenure Committee, Member
- Code Blue Quality Management Committee, Member
- Faculty Recruitment Committee, Member
- Anesthesia Executive Committee, Member
- Clinical Competency Committee, Member
- Research Committee, Member
- Equipment Committee, Member
- Chairman's Advisory Committee, Member

**Barbara M. Rogers, MD**
- Clinical Competency Committee, Member
- Evidence-Based Medicine Committee, Member
- Education Committee, Member
- Performance Bonus Advisory Committee, Member
- Leadership Advisory Committee, Member
- OPAC Advisory Committee, Chair

**John S. Rogoski, DO**
- Equipment and Pharmacy Committee, Member
- Leadership Advisory Committee, Member
- Resident Selection Committee, Member
- Vendor Relations, Coordinator

**Andrew H. Roth, MD**
• Clinical Competency Committee, Member
• Resident Selection Committee, Member
• Evidence-Based Medicine Committee, Member
• Education Committee, Member
• Faculty Recruitment Committee, Member
• Simulation Committee, Member
• Health System Credentialing Committee, Member

• Yanfu Shao, MD
  • Quality Assurance Committee, Member
  • Equipment and Pharmacy Committee, Member

• Robert H. Small, MD
  • Appointment, Promotion and Tenure Committee, Member
  • Computer Order Entry Committee, Chair
  • Education Committee, Member
  • Performance Bonus Advisory Committee, Chair
  • Non-clinical Time Task Force, Member
  • Equipment and Pharmacy Committee, Member

• Thomas J. Smith, MD
  • Equipment and Pharmacy Committee, Member
  • Clinical Competency Committee, Member
  • Clinical Faculty Committee, Member

• Gaylynn J. Speas, MD
  • Evidence-Based Medicine Committee, Chair
  • OPAC Advisory Committee, Member

• Raj Swain, MD
  • Education Committee, Member
  • Faculty Recruitment Committee, Member
  • Clinical Competency Committee, Member

• Martha Szabo, MD
  • Education Committee, Member
  • Faculty Recruitment, Member

• W. Daniel Traetow, MD
  • Clinical Faculty Committee, Member

• Katja Turner, MD
  • Education Committee, Member
  • Clinical Competency Committee, Chair

• Joseph Werner, MD
  • Research Committee, Member
  • Equipment and Pharmacy Committee, Chair

• Yun Xia, MD, PhD
  • Research Committee, Chair
  • Equipment and Pharmacy Committee, Chair

• David O. Yablok, MD
  • Equipment and Pharmacy Committee, Member

Other Notable Leadership Positions
- **Ernesto Goldman, MD** - expert witness, Florida Board of Medicine, Expert Witness Program, Tallahassee, Florida, United States
- **Mona Youssef Halim, MD** - consultant, Mowasat Hospital, Anesthesiology, Salemeya, Kuwait
Resident Leadership Positions

State Committees

The Ohio Society of Anesthesiologists

- **Derek Foerschler, DO**
  - Committee on Resident Component Relations, Resident Member
- **Brian Kelly, MD**
  - Committee on Communications, Resident Member (ad-hoc)
  - Committee on Governance, Resident Member (ad-hoc)
  - Committee on Governmental Affairs, Resident Member (ad-hoc)
  - Committee on Resident Component Relations, Resident Member (ad-hoc)
- **Feyce Peralta, MD**
  - Committee on Education & Annual Meeting, Resident Member

Department of Anesthesiology Committees

- **Christopher Annis, MD**
  - Chief resident
  - Clinical Competency Committee, Member
  - Education Committee, Member
  - Leadership Advisory Committee, Member
- **Ralph Beltran, MD**
  - Research Committee, Member
- **Jacob Bettesworth, DO**
  - Education Committee, Member
- **Derek Foerschler, DO**
- **Nicholas Franklin, MD**
  - Chief resident
  - Clinical Competency Committee, Member
  - Education Committee, Member
  - Leadership Advisory Committee, Member
- **Jeff Honer, MD**
  - Equipment and Pharmacy Committee
- **Brian Kelly, MD**
  - Evidence-Based Medicine Committee, Member
- **Rashmi Vandse, MD**
  - Research Committee, Member
Certified Registered Nurse Anesthetist Leadership Positions

The Ohio State University Medical Center Committees

- Charles E. Martin, CRNA
  - Licensed Health Care Professional Subcommittee

Staff Leadership Positions

The Ohio State University Medical Center Committees

- Susan Hannan, RN
  - Health System Perioperative Quality Management Committee, Member

Department of Anesthesiology Committees

- Mary Fisher
  - Appointment, Promotion and Tenure Committee, Member
  - Clinical Faculty Committee, Member
  - Faculty Recruitment Committee, Member
  - Leadership Advisory Committee, Member

- Iveta Grants
  - Research Committee, Member

- Susan Hannan, RN
  - Quality Assurance Committee, Member

- Denise McMaster
  - Clinical Competency Committee, Member
  - Education Committee, Member

- Steven S. Smith, MA
  - Finance Committee, Member
  - Performance Bonus Advisory Committee, Member

- Lynda West
  - Equipment and Pharmacy Committee, Member
Editorial Activities

Michael J. Andritsos, MD
- Society of Cardiovascular Anesthesiologists 31st Annual Meeting and Workshops (abstract reviewer)
- Faculty of 1000 (associate faculty member; manuscript reviewer)

Sergio D. Bergese, MD
- Journal of Clinical Anesthesia (reviewer)
- Journal of Critical Care Medicine (reviewer)
- Journal of Pediatric Critical Care Medicine (reviewer)
- Journal of Neurosurgical Anesthesiology (reviewer)
- The Scientific World Journal, Anesthesiology (reviewer)
- Journal of Expert Opinion on Pharmacotherapy (reviewer)

Hamdy Elsayed-Awad, MD
- Journal of Clinical Anesthesia

Mark A. Gerhardt, MD, PhD
- Anesthesiology (abstract reviewer)
- Journal of Biological Chemistry (manuscript) (ad hoc reviewer)
- Journal of Cardiothoracic and Vascular Anesthesia (manuscript) (ad hoc reviewer)
- Journal of Clinical Anesthesia (manuscript) (ad hoc reviewer)
- Molecular Pharmacology (manuscript) (ad hoc reviewer)
- Life Sciences (manuscript) (ad hoc reviewer)
- American Society for Artificial Internal Organs Journal (manuscript) (ad hoc reviewer)
- Anesthesia & Analgesia, International Anesthesia Research Society (abstract) (peer reviewer)

Steven I. Ganzberg, DMD
- Anesthesia Progress (journal) (ad hoc reviewer)
- Oral Surgery, Oral Medicine, Oral Pathology, Oral Radiology and Endodontics (journal) (ad hoc reviewer)
- Journal of Pediatric Dentistry (journal) (ad hoc reviewer)
- Journal of the American Dental Association (journal) (ad hoc reviewer)

Babak Khabiri, DO
- Journal of Clinical Anesthesia

Nadia Nathan, MD
- Anesthesia & Analgesia (article) (invited reviewer)
- Anesthesiology (article) (invited reviewer)
- Annals of Thoracic Surgery (article) (invited reviewer)
- Circulation (American Heart Association) (article) (invited reviewer)

Robert H. Small, MD
- Human Brain Mapping (article) (invited manuscript reviewer)
Joel Weaver, DDS, PhD

- *Anesthesia Progress* (editor in chief)
- *Anesthesia and Pain Control in Dentistry* (editorial board member)
- *Oral Surgery, Oral Medicine, Oral Pathology, Oral Radiology, and Endodontics* (editorial board member and reviewer)
- *Journal of the American Dental Association* (reviewer)
- *United States Pharmacopeia Convention Inc (USPDI), United States Pharmacopeia Dispensing Information* (reviewer)
- *Special Care in Dentistry* (reviewer)
- *Anesthesia and Pain Control in Dentistry* (reviewer)
- *Journal of Pediatric Dentistry* (reviewer)
Presentations


3. **Arbona FL**, Presenter. Panel discussion on developing and running a perineural catheter service. Presented at the American Society of Anesthesiologists conference on practice management, Atlanta, Georgia, United States. (January 2010)


6. **Bergese SD**, Presenter. Low does of clevidipine have an increase vasodilatory effect on the hypertrophic mesenteric vessel from a profilin-1 hypertensive transgenic mouse model. Presented at International Anesthesia Research Society 2010 annual meeting, Honolulu, Hawaii, United States. (March 20-23, 2010)


10. **DeSocio PA**, Presenter. Virtual reality pain control during wound debridement of combat-related burn injuries. Presented at American Burn Association 42nd annual meeting, Boston, Massachusetts, United States. (March 9-12, 2010)

12. **DeSocio PA**, Presenter. Use of ultra-rapid opioid detoxification in the treatment of military burn casualties. Presented at the 22nd Annual Southern Region Burn Conference, Shreveport, Louisiana, United States. (November 6-8, 2009)


15. **DeSocio PA**, Presenter. TIVA perspectives and potential military applications. Presented at 2009 Advanced Technology Applications for Combat Casualty Care, St. Petersburg, Florida, United States. (August 10 - 12, 2009)


28. **Norton JA**, Presenter. Ultrasound-guidance in regional anesthesia. Presented at The Ohio Society of Anesthesiology’s 70th annual meeting, Hilton Columbus at Easton, Columbus, Ohio, United States. (September 18-20, 2009)

29. **Reilley TE**, Presenter. Pain control and sedation in the ventilated patient. Presented at The Ohio State University Medical Center 2010 Current Concepts in Respiratory Care, Columbus, Ohio, United States. (April 30, 2010)


31. **Roth A**, Presenter. Use of standardized patients to evaluate interpersonal communication skills of anesthesiology residents. Presented at The Society for Education in Anesthesiology Annual Spring Meeting, Pittsburgh, Pennsylvania, United States. (June 4-5, 2010)


34. **Xia Y**, Presenter. Update of clinical managements of pre-eclampsia. Presented at 2010 OB Forum by Shanghai Maternal and Children Hospital, Shanghai, China. (June 19, 2010)


38. Xia Y, Presenter. 1) Endoluminal surgery, 2) Personalized medicine, 3) Robot surgery, and 4) Ultrasound guided regional anesthesia. Presented at Shanghai Cipo Polytechnic School of Health Science & Nursing in Shanghai; Shanghai Jiaotong University affiliated Sixth Hospital. Zhejiang Chinese Medical University affiliated Provincial Hospital of TCM; Wenzhou Medical College, First Affiliated Hospital, Harbin, China. (May 12-23, 2010)


46. Xia Y, Presenter. Anesthesia and GI function. Presented at Department of Anesthesiology, Harbor UCLA Medical Center, Los Angeles, California, United States. (November 11-15, 2010)
Lectures

1. **Andritsos MJ**, Lecturer. Cardiac anesthesia. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (July 28, 2009)

2. **Andritsos MJ**, Moderator. Heparin infusion (pro vs. con). Presented to Cardiac Anesthesia Subspecialty Conference, The Ohio State University Medical Center, Columbus, Ohio, United States. (August 13, 2009)

3. **Andritsos MJ**, Lecturer. Cardiac anesthesia. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (August 18, 2009)

4. **Andritsos MJ**, Moderator. One lung ventilation and inflammatory response. Presented to Cardiac Anesthesia Subspecialty Conference, The Ohio State University Medical Center, Columbus, Ohio, United States. (September 10, 2009)

5. **Andritsos MJ**, Lecturer. Cardiac anesthesia. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (September 22, 2009)

6. **Andritsos MJ**, Moderator. Perioperative glycemic control. Presented to Cardiac Anesthesia Subspecialty Conference, The Ohio State University Medical Center, Columbus, Ohio, United States. (October 8, 2009)

7. **Andritsos MJ**, Lecturer. Cardiac anesthesia. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (October 8, 2009)

8. **Andritsos MJ**, Lecturer. Cardiac anesthesia. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (November 20, 2009)

9. **Andritsos MJ**, Moderator. Anesthesia for cardiovascular surgery. Presented to residents, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States. (December 9, 2009)

10. **Andritsos MJ**, Lecturer. Morbidity and mortality. Presented to Grand Rounds, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States. (December 17, 2009)

11. **Andritsos MJ**, Lecturer. Cardiac anesthesia. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (December 17, 2009)

12. **Andritsos MJ**, Lecturer. Cardiac anesthesia. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (January 15, 2010)

13. **Andritsos MJ**, Moderator. Surgery: current strategies are flawed. Presented to Cardiac Anesthesia Subspecialty Conference, The Ohio State University Medical Center, Columbus, Ohio, United States. (February 4, 2010)

14. **Andritsos MJ**, Lecturer. Cardiac anesthesia. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (February 19, 2010)
15. **Andritsos MJ**, Lecturer. Cardiac anesthesia. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (March 11, 2010)

16. **Andritsos MJ**, Lecturer. Cardiac anesthesia. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (April 9, 2010)

17. **Andritsos MJ**, Moderator. Surgical treatment of A fib. Presented to Cardiac Anesthesia Subspecialty Conference, The Ohio State University Medical Center, Columbus, Ohio, United States. (May 13, 2010)

18. **Andritsos MJ**, Lecturer. Cardiac anesthesia. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (May 19, 2010)

19. **Arbona FL**, Lecturer. Perineural catheters in your practice. Presented to Grand Rounds, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States. (September 17, 2009)

20. **Arbona FL**, Lecturer. Upper/lower nerve blocks. Presented to residents, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States. (May 28, 2010)

21. **Beget NR**, Lecturer. Case presentation. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (August 26, 2009)

22. **Beget NR**, Lecturer. Regional anesthesia. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (November 18, 2009)

23. **Beget NR**, Lecturer. Renal physiology. Presented to residents, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States. (December 4, 2009)

24. **Beget NR**, Lecturer. Board review. Presented to residents, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States. (February 12, 2010)

25. **Benedetti C**, Lecturer. Intravenous opioid anesthetics. Presented to residents, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States. (September 24, 2009)

26. **Benedetti C**, Lecturer. Pain management. Presented to residents, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States. (December 2, 2009)

27. **Bergese SD**, Lecturer. Neuroanesthesia. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (July 21, 2009)

28. **Bergese SD**, Lecturer. Dexmedetomidine use in anesthesia. Presented to Grand Rounds, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States. (November 19, 2009)

29. **Bergese SD**, Lecturer. Neuroanesthesia. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (December 11, 2009)
30. **Bergese SD**, Lecturer. Neuroanesthesia. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (January 7, 2010)

31. **Bergese SD**, Moderator. Neurophysiology and anesthesia. Presented to residents, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States. (January 25, 2010)

32. **Bergese SD**, Lecturer. EEG/SSEP lecture. Presented to Grand Rounds, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States. (February 25, 2010)

33. **Bergese SD**, Lecturer. Neuroanesthesia. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (March 16, 2010)

34. **Bergese SD**, Lecturer. Neuroanesthesia. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (April 13, 2010)

35. **Bergese SD**, Lecturer. Neuroanesthesia. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (May 5, 2010)

36. **Bergese SD**, Lecturer. EEG lecture. Presented to residents, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States. (May 7, 2010)

37. **Christofi FL**, Lecturer. Introduction to research. Presented to residents, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States. (July 29, 2009)

38. **Dalton RE**, Lecturer. Mechanisms of action. Presented to residents, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States. (July 31, 2009)

39. **Dalton RE**, **Roth AH**, Lecturers. Hypertrophic cardiomyopathy. Presented to Grand Rounds, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States. (August 6, 2009)

40. **Dalton RE**, Lecturer. IV mishaps. Presented to Grand Rounds, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States. (August 13, 2009)

41. **Dalton RE**, Moderator. The anesthesia machine. Presented to residents, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States. (August 24, 2009)

42. **Dalton RE**, **Dimitrova GT**, **Lumbley J**, Lecturers. Stent thrombosis. Presented to Grand Rounds, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States. (November 5, 2009)

43. **Dalton RE**, Lecturer. Neuraxial anesthesia. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (November 12, 2009)

44. **Dalton RE**, Lecturer. Volatile anesthesia. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (December 18, 2009)
45. **Dalton RE**, Lecturer. Volatile anesthesia. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (January 12, 2010)

46. **Dalton RE, Papadimos TJ**, Lecturers. Quality morbidity and mortality. Presented to Grand Rounds, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States. (February 11, 2010)

47. **Dalton RE**, Lecturer. Volatile anesthesia. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (February 18, 2010)

48. **Dalton RE**, Lecturer. Neurotrauma. Presented to Grand Rounds, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States. (March 4, 2010)

49. **Dalton RE**, Lecturer. Volatile anesthesia. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (March 17, 2010)

50. **Dalton RE**, Lecturer. Asystole on induction. Presented to Grand Rounds, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States. (April 8, 2010)

51. **Dalton RE**, Lecturer. Volatile anesthesia. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (May 12, 2010)

52. **Dimitrova GT**, Lecturer. Volatile anesthesia. Presented to residents, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States. (July 29, 2009)

53. **Dimitrova GT**, Moderator. Transfusion medicine and cardiac surgery. Presented to Cardiac Anesthesia Subspecialty Conference, The Ohio State University Medical Center, Columbus, Ohio, United States. (July 30, 2009)

54. **Dimitrova GT**, Moderator. TEE rounds. Presented to Cardiac Anesthesia Subspecialty Conference, The Ohio State University Medical Center, Columbus, Ohio, United States. (August 27, 2009)

55. **Dimitrova GT**, Moderator. Opioids in cardiac surgery. Presented to Cardiac Anesthesia Subspecialty Conference, The Ohio State University Medical Center, Columbus, Ohio, United States. (October 1, 2009)

56. **Dimitrova GT**, Moderator. Morbidity and mortality. Presented to Cardiac Anesthesia Subspecialty Conference, The Ohio State University Medical Center, Columbus, Ohio, United States. (December 17, 2009)

57. **Dimitrova GT**, Moderator. Ventilator-induced lung injury. Presented to Cardiac Anesthesia Subspecialty Conference, The Ohio State University Medical Center, Columbus, Ohio, United States. (January 28, 2010)

58. **Dzwonczyk RR**, Lecturer. Statistical models in anesthesia. Presented to residents, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States. (January 15, 2010)
59. Eck HC, Lecturer. Basic pharmacology. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (July 8, 2009)

60. Eck HC, Lecturer. Basic pharmacology. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (August 4, 2009)

61. Eck HC, Lecturer. Metabolism and toxicity of inhaled anesthetics. Presented to residents, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States. (August 27, 2009)

62. Eck HC, Lecturer. Anticholinergic drugs/hypotensive agents. Presented to residents, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States. (October 9, 2009)

63. Eck HC, Lecturer. Preop evaluation. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (November 13, 2009)

64. Eck HC, Lecturer. Basic pharmacology – IV agents. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (March 2, 2010)

65. Eck HC, Lecturer. Basic pharmacology – IV agents. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (April 1, 2010)

66. Eck HC, Lecturer. Basic pharmacology – IV agents. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (May 18, 2010)

67. Eck HC, Lecturer. Pre-op cardiac clearance. Presented to residents, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States. (June 18, 2010)

68. Elsayed-Awad H, Lecturer. Thoracic anesthesia. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (July 15, 2009)

69. Elsayed-Awad H, Lecturer. Thoracic anesthesia. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (August 19, 2009)

70. Elsayed-Awad H, Lecturer. Thoracic anesthesia. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (September 24, 2009)

71. Elsayed-Awad H, Lecturer. Thoracic anesthesia. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (October 14, 2009)

72. Elsayed-Awad H, Moderator. Tip endotracheal tube. Presented to Cardiac Anesthesia Subspecialty Conference, The Ohio State University Medical Center, Columbus, Ohio, United States. (November 19, 2009)

73. Elsayed-Awad H, Lecturer. Thoracic anesthesia. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (December 16, 2009)

74. Elsayed-Awad H, Moderator. Anesthesia for thoracic surgery. Presented to residents, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States.
75. Elsayed-Awad H, Moderator. Morbidity and mortality. Presented to Cardiac Anesthesia Subspecialty Conference, The Ohio State University Medical Center, Columbus, Ohio, United States. (January 21, 2010)

76. Elsayed-Awad H, Lecturer. Thoracic anesthesia. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (February 18, 2010)

77. Elsayed-Awad H, Moderator. TEE rounds: congenital heart defects in the adult. Presented to Cardiac Anesthesia Subspecialty Conference, The Ohio State University Medical Center, Columbus, Ohio, United States. (February 25, 2010)

78. Elsayed-Awad H, Moderator. CPR for cardiac surgery patients. Presented to Cardiac Anesthesia Subspecialty Conference, The Ohio State University Medical Center, Columbus, Ohio, United States. (March 11, 2010)

79. Elsayed-Awad H, Lecturer. Transesophageal echocardiography. Presented to residents, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States. (April 2, 2010)

80. Elsayed-Awad H, Lecturer. Thoracic anesthesia. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (April 13, 2010)

81. Elsayed-Awad H, Lecturer. Update on fluid management. Presented to Grand Rounds, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States. (May 6, 2010)

82. Elsayed-Awad H, Moderator. Surgery. Presented to Cardiac Anesthesia Subspecialty Conference, The Ohio State University Medical Center, Columbus, Ohio, United States. (May 6, 2010)

83. Elsayed-Awad H, Lecturer. Thoracic anesthesia. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (May 21, 2010)

84. Figg K, Lecturer. Cerebral physiology and the effects of anesthetics and technique. Presented to residents, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States. (December 18, 2009)

85. Figg K, Lecturer. Albumin for fluid resuscitation. Presented to Neuroanesthesia Journal Club, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States. (April 7, 2010)

86. Figg K, Lecturer. Deep brain stimulation for Parkinson’s disease: anesthetic management. Presented to Grand Rounds, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States. (April 22, 2010)
89. **Gensel HC**, Lecturer. Volatile anesthesia. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (November 6, 2009)

90. **Gensel HC**, Lecturer. Neuromuscular physiology and pharmacology. Presented to residents, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States. (January 8, 2010)

91. **Gensel HC**, Lecturer. Board review questions. Presented to residents, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States. (February 19, 2010)

92. **Gerhardt MA**, Lecturer. Peripheral nerve blocks. Presented to residents, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States. (August 7, 2009)

93. **Gerhardt MA**, Moderator. Morbidity and mortality. Presented to Cardiac Anesthesia Subspecialty Conference, The Ohio State University Medical Center, Columbus, Ohio, United States. (August 20, 2009)

94. **Gerhardt MA**, Lecturer. Oral Boards exam review. Presented to Grand Rounds, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States. (August 20, 2009)

95. **Gerhardt MA**, Lecturer. Adrenergic agonists and antagonists. Presented to residents, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States. (October 12, 2009)

96. **Gerhardt MA**, Moderator. TEE rounds. Presented to Cardiac Anesthesia Subspecialty Conference, The Ohio State University Medical Center, Columbus, Ohio, United States. (October 22, 2009)

97. **Gerhardt MA**, Moderator. Non invasive cardiovascular evaluation (cardiovascular imaging). Presented to Cardiac Anesthesia Subspecialty Conference, The Ohio State University Medical Center, Columbus, Ohio, United States. (December 3, 2009)

98. **Gerhardt MA**, Moderator. Journal club. Presented to Cardiac Anesthesia Subspecialty Conference, The Ohio State University Medical Center, Columbus, Ohio, United States. (February 11, 2010)

99. **Gerhardt MA**, Lecturer. Anesthesiology and the academic mission: introduction to research grants. Presented to Cardiac Anesthesia Subspecialty Conference, The Ohio State University Medical Center, Columbus, Ohio, United States. (April 22, 2010)

100. **Gerhardt MA**, Moderator. Cardiac surgery in the pregnant patient. Presented to Cardiac Anesthesia Subspecialty Conference, The Ohio State University Medical Center, Columbus, Ohio, United States. (May 20, 2010)

101. **Gupta B**, Lecturer. Induction agents. Presented to residents, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States. (August 10, 2009)
102. **Gutmann RM**, Moderator. Spinal, epidural and caudal blocks. Presented to residents, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States. (December 16, 2009)

103. **Halim M**, Lecturer. Patient positioning. Presented to residents, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States. (February 12, 2010)

104. **Halim M**, Moderator. Obstetric anesthesia. Presented to residents, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States. (May 21, 2010)

105. **Hamilton CL**, Lecturer. Regional anesthesia. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (September 24, 2009)

106. **Hamilton CL**, Lecturer. Regional anesthesia. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (January 13, 2010)

107. **Hamilton CL**, Lecturer. Regional anesthesia. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (March 5, 2010)

108. **Hamilton CL**, Lecturer. Regional anatomy – cadaver lab. Presented to residents, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States. (March 30, 2010)

109. **Hamilton CL**, Lecturer. Ambulatory anesthesia/Board review. Presented to residents, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States. (June 4, 2010)

110. **Harter RL**, Lecturer. Anesthetic complications. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (July 29, 2009)

111. **Harter RL**, Lecturer. Physician impairment. Presented to residents, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States. (July 31, 2009)

112. **Harter RL**, Lecturer. Anesthetic complications. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (August 21, 2009)

113. **Harter RL**, Moderator. Inhalation anesthetics. Presented to residents, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States. (August 31, 2009)

114. **Harter RL**, Lecturer. Anesthetic complications. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (September 16, 2009)

115. **Harter RL**, Lecturer. Intravenous drug delivery system. Presented to residents, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States. (October 1, 2009)

116. **Harter RL**, Lecturer. Lambert-Eaton syndrome. Presented to Grand Rounds, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States. (October 15, 2009)
117. **Harter RL**, Lecturer. The perioperative management of a patient with pheochromocytoma and the importance of preoperative alpha adrenergic blockade. Presented to Grand Rounds, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States. (October 15, 2009)

118. **Highley JM**, Lecturer. Volatile anesthesia. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (July 21, 2009)

119. **Highley JM**, Lecturer. Case presentation. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (July 28, 2009)

120. **Highley JM**, Lecturer. Volatile anesthesia. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (August 7, 2009)

121. **Highley JM**, Lecturer. Volatile anesthesia. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (September 9, 2009)

122. **Highley JM**, Lecturer. Volatile anesthesia. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (October 6, 2009)

123. **Highley JM**, Lecturer. Case presentation. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (November 12, 2009)

124. **Highley JM**, Lecturer. Case presentation. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (January 26, 2010)

125. **Highley JM**, Lecturer. Case presentation. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (February 24, 2010)

126. **Highley JM**, Lecturer. Practice management. Presented to residents, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States. (March 12, 2010)

127. **Highley JM**, Lecturer. Case presentation. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (March 24, 2010)

128. **Highley JM**, Lecturer. Practice management. Presented to residents, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States. (March 26, 2010)

129. **Highley JM**, Lecturer. Case presentation. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (April 14, 2010)

130. **Hohmann JE**, Lecturer. History of anesthesiology. Presented to residents, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States. (July 27, 2009)

131. **Johanson MG**, Moderator. Anesthesia complications. Presented to residents, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States. (June 11, 2010)
132. Kapoor R, Lecturer. Pre-op evaluation. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (July 9, 2009)

133. Kapoor R, Lecturer. Case presentation. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (July 23, 2009)

134. Kapoor R, Lecturer. Simulator. Presented to Grand Rounds, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States. (July 30, 2009)

135. Kapoor R, Lecturer. Orientation. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (August 3, 2009)

136. Kapoor R, Lecturer. Exam review and case presentation. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (August 25, 2009)

137. Kapoor R, Moderator. Patients with respiratory disease. Presented to residents, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States. (January 11, 2010)

138. Kapoor R, Lecturer. Pre-op evaluation. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (January 14, 2010)

139. Kapoor R, Lecturer. Airway workshop. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (January 20, 2010)

140. Kapoor R, Lecturer. Case presentation/exam review. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (January 27, 2010)

141. Kapoor R, Lecturer. Pre-op evaluation. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (February 3, 2010)

142. Kapoor R, Lecturer. Exam review. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (February 23, 2010)

143. Kapoor R, Lecturer. Pre-op evaluation. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (March 9, 2010)

144. Kapoor R, Lecturer. Thoracic anesthesia. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (March 17, 2010)

145. Kapoor R, Lecturer. Case presentation. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (March 17, 2010)

146. Kapoor R, Lecturer. Orientation/pre-op evaluation. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (March 31, 2010)

147. Kapoor R, Lecturer. Case presentation/exam review. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (April 21, 2010)
148. Kapoor R, Lecturer. Pre-op evaluation. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (May 5, 2010)

149. Kapoor R, Lecturer. Pre-op considerations (non-cardiac). Presented to residents, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States. (June 18, 2010)

150. Kapoor R, Lecturer. Orientation. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (July 6, 2009)

151. Kelly GT, Lecturer. OR safety. Presented to residents, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States. (July 24, 2009)

152. Kelly GT, Lecturer. Neuraxial anesthesia. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (September 18, 2009)

153. Kelly GT, Lecturer. Autonomic nervous system. Presented to residents, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States. (October 29, 2009)

154. Kelly GT, Lecturer. No evaluations. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (October 29, 2009)

155. Kelly GT, Lecturer. Anesthesia for trauma. Presented to residents, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States. (March 26, 2010)

156. Kelly GT, Lecturer. The ethics of general anesthesia for elective surgery in the first trimester pregnancy/interoperative CVA and management. Presented to Grand Rounds, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States. (April 1, 2010)

157. Kelly GT, Lecturer. Neuraxial anesthesia. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (April 2, 2010)

158. Kelly GT, Lecturer. Neuraxial anesthesia. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (May 14, 2010)

159. Kelly GT, Lecturer. Selected cases. Presented to Grand Rounds, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States. (June 17, 2010)

160. Khabiri B, Moderator. Breathing systems. Presented to residents, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States. (July 27, 2009)

161. Kover AJ, Lecturer. Preoperative medication use. Presented to residents, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States. (April 30, 2010)

162. Kover AJ, Moderator. Otorhinolaryngologic surgery. Presented to residents, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States. (April 30, 2010)
163. **Larky H**, Lecturer. Neuroanesthesia. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (September 23, 2009)

164. **Li L**, Moderator. Fluid management and transfusion. Presented to residents, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States. (March 19, 2010)

165. **Lumbley J**, Lecturer. Health care reform. Presented to Grand Rounds, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States. (September 3, 2009)

166. **Lumbley J**, Lecturer. Case presentation. Presented to residents, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States. (September 17, 2009)

167. **Lumbley J**, Lecturer. Case presentation. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (September 25, 2009)

168. **Lumbley J**, Lecturer. Case presentation. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (October 28, 2009)

169. **Lumbley J**, Lecturer. Ventilator modes in OR. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (November 18, 2009)

170. **Lumbley J**, Lecturer. Ventilator modes in OR. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (December 15, 2009)

171. **Lumbley J**, Lecturer. Ventilator modes in OR. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (January 8, 2010)

172. **Lumbley J**, Lecturer. Pulmonary function testing. Presented to residents, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States. (February 12, 2010)

173. **Lumbley J**, Lecturer. Ventilator modes in OR. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (February 12, 2010)

174. **Lumbley J**, Lecturer. Ventilator modes in OR. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (March 5, 2010)

175. **Lumbley J**, Lecturer. Ventilator modes in OR. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (April 7, 2010)

176. **Lumbley J**, Lecturer. Ventilator modes in OR. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (May 7, 2010)

177. **Moran KR**, Lecturer. Ambulatory anesthesia. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (July 29, 2009)

178. **Moran KR**, Lecturer. Ambulatory anesthesia. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (August 12, 2009)
179. **Moran KR**, Lecturer. Ambulatory anesthesia. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (September 17, 2009)

180. **Moran KR**, Lecturer. Respiratory physiology and respiratory function during anesthesia. Presented to residents, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States. (November 5, 2009)

181. **Moran KR**, Lecturer. Ultrasound regional blocks. Presented to Grand Rounds, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States. (January 14, 2010)

182. **Moran KR**, Lecturer. Airway workshop. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (February 2, 2010)

183. **Moran KR**, Lecturer. Ambulatory anesthesia. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (February 2, 2010)

184. **Moran KR**, Lecturer. Ambulatory anesthesia. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (March 10, 2010)

185. **Moran KR**, Lecturer. Ambulatory anesthesia. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (April 6, 2010)

186. **Moran KR**, Lecturer. Ambulatory anesthesia. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (May 11, 2010)

187. **Moran KR**, Lecturer. Cardiac physiology pre-op evaluation. Presented to clinical base year residents, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States. (May 11, 2010)

188. **Moran KR**, Lecturer. Board review. Presented to residents, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States. (May 14, 2010)

189. **Moran KR**, Lecturer. Machine monitor/primer. Presented to clinical base year residents, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States. (June 9, 2010)

190. **Norton JA**, Moderator. Neuromuscular blocking agents. Presented to residents, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States. (August 3, 2009)

191. **Norton JA**, Lecturer. Sentinel event case presentation. Presented to Grand Rounds, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States. (October 1, 2009)

192. **Norton JA**, Lecturer. Local anesthetics. Presented to residents, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States. (October 15, 2009)

193. **Papadimos TJ, Dalton RE**, Lecturers. Quality morbidity and mortality. Presented to Grand Rounds, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States. (February 11, 2010)
194. **Paquelet SE**, Lecturer. Introduction to pain. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (July 23, 2009)

195. **Paquelet SE**, Lecturer. Introduction to pain. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (September 24, 2009)

196. **Paquelet SE**, Lecturer. Introduction to pain. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (February 23, 2010)

197. **Paquelet SE**, Lecturer. Introduction to pain. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (March 23, 2010)

198. **Paquelet SE**, Lecturer. Introduction to pain. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (April 13, 2010)

199. **Paquelet SE**, Lecturer. Pain. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (May 13, 2010)

200. **Perez WJ**, Lecturer. Vascular anesthesia. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (July 24, 2009)

201. **Perez WJ**, Moderator. Perianesthetic monitoring (cardiac output). Presented to Cardiac Anesthesia Subspecialty Conference, The Ohio State University Medical Center, Columbus, Ohio, United States. (August 6, 2009)

202. **Perez WJ**, Lecturer. Vascular anesthesia. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (August 18, 2009)

203. **Perez WJ**, Moderator. Primary cardiac tumor TEE rounds. Presented to Cardiac Anesthesia Subspecialty Conference, The Ohio State University Medical Center, Columbus, Ohio, United States. (September 17, 2009)

204. **Perez WJ**, Lecturer. Vascular anesthesia. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (September 22, 2009)

205. **Perez WJ**, Lecturer. Vascular anesthesia. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (October 14, 2009)

206. **Perez WJ**, Moderator. Congenital heart disease. Presented to Cardiac Anesthesia Subspecialty Conference, The Ohio State University Medical Center, Columbus, Ohio, United States. (November 5, 2009)

207. **Perez WJ**, Lecturer. Vascular anesthesia. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (November 19, 2009)

208. **Perez WJ**, Moderator. Cardiovascular physiology and anesthesia. Presented to residents, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States. (November 23, 2009)
209. **Perez WJ**, Lecturer. Vascular anesthesia. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (December 4, 2009)

210. **Perez WJ**, Lecturer. Risk of anesthesia. Presented to residents, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States. (January 22, 2010)

211. **Perez WJ**, Lecturer. Vascular anesthesia. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (January 22, 2010)

212. **Perez WJ**, Lecturer. Vascular anesthesia. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (February 19, 2010)

213. **Perez WJ**, Moderator. Case presentation: pseudo-pseudo aneurysm. Presented to Cardiac Anesthesia Subspecialty Conference, The Ohio State University Medical Center, Columbus, Ohio, United States. (March 4, 2010)

214. **Perez WJ**, Lecturer. Vascular anesthesia. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (March 17, 2010)

215. **Perez WJ**, Moderator. Journal club. Presented to Cardiac Anesthesia Subspecialty Conference, The Ohio State University Medical Center, Columbus, Ohio, United States. (April 1, 2010)

216. **Perez WJ**, Lecturer. Transesophageal echocardiography. Presented to residents, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States. (April 2, 2010)

217. **Perez WJ**, Moderator. The right ventricle failure risk score. Presented to Cardiac Anesthesia Subspecialty Conference, The Ohio State University Medical Center, Columbus, Ohio, United States. (April 8, 2010)

218. **Perez WJ**, Lecturer. Vascular anesthesia. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (April 8, 2010)

219. **Perez WJ**, Lecturer. Transesophageal echocardiography: what you should know, what you could know. Presented to Grand Rounds, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States. (May 20, 2010)

220. **Perez WJ**, Lecturer. Vascular anesthesia. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (May 20, 2010)

221. **Perez WJ**, Lecturer. TEE rounds. Presented to Cardiac Anesthesia Subspecialty Conference, The Ohio State University Medical Center, Columbus, Ohio, United States. (May 27, 2010)

222. **Reilley TE**, Lecturer. Regional anesthesia. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (July 9, 2009)

223. **Reilley TE**, Lecturer. Regional anesthesia. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (August 12, 2009)

224. **Reilley TE**, Lecturer. Regional anesthesia. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (February 18, 2010)
225. **Reilley TE**, Lecturer. Fundamental principles of monitoring instrumentation. Presented to residents, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States. (March 12, 2010)

226. **Reilley TE**, Lecturer. Regional anesthesia. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (May 18, 2010)

227. **Reilley TE**, Moderator. Critical care. Presented to residents, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States. (June 11, 2010)

228. **Rogers BM**, Lecturer. Neuroanesthesia. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (November 17, 2009)

229. **Rogers BM**, Lecturer. Preop evaluation. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (December 4, 2009)

230. **Rogers BM**, Lecturer. Preoperative evaluation. Presented to residents, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States. (January 29, 2010)

231. **Rogoski JS**, Lecturer. Simulator. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (February 25, 2010)

232. **Rogers BM**, Moderator. Management of patients with fluid and electrolyte disturbances. Presented to residents, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States. (April 30, 2010)

233. **Rogoski JS**, Lecturer. Airway workshop. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (July 23, 2009)

234. **Rogoski JS**, Lecturer. Airway workshop. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (July 28, 2009)

235. **Rogoski JS**, Lecturer. Airway workshop. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (August 7, 2009)

236. **Rogoski JS**, Lecturer. Airway workshop. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (September 9, 2009)

237. **Rogoski JS**, Moderator. Airway management. Presented to residents, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States. (September 22, 2009)

238. **Rogoski JS**, Lecturer. Airway workshop. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (October 14, 2009)

239. **Rogoski JS**, Lecturer. Airway workshop. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (December 1, 2009)
240. Rogoski JS, Lecturer. Airway workshop. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (March 11, 2010)

241. Roth AH, Lecturer. Neuraxial anesthesia. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (August 4, 2009)

242. Roth AH, Lecturer. Neuro anesthesia. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (August 19, 2009)

243. Roth AH, Moderator. Nonvolatile anesthetic agents. Presented to residents, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States. (August 14, 2009)

244. Roth AH, Moderator. Basic pharmacology. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (September 18, 2009)

245. Roth AH, Lecturer. Pharmacology of muscle relaxants and their antagonists. Presented to residents, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States. (September 30, 2009)

246. Roth AH, Lecturer. Exam review. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (October 1, 2009)

247. Roth AH, Lecturer. Basic pharmacology. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (October 20, 2009)

248. Roth AH, Lecturer. Neuraxial anesthesia. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (October 22, 2009)

249. Roth AH, Moderator. Nonvolatile anesthetic agents. Presented to residents, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States. (October 22, 2009)

250. Roth AH, Lecturer. Ambulatory anesthesia. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (October 23, 2009)

251. Roth AH, Moderator. Neuromuscular blocking agents. Presented to residents, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States. (October 23, 2009)

252. Roth AH, Lecturer. Regional anesthesia. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (October 27, 2009)

253. Roth AH, Moderator. Adrenergic agonists and hypotensive agents. Presented to residents, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States. (October 27, 2009)

254. Roth AH, Moderator. Local anesthetics and adjuncts to anesthesia. Presented to residents, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States. (October 27, 2009)
255. Roth AH, Lecturer. Case presentation. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (October 29, 2009)

256. Roth AH, Moderator. Anesthesia machine. Presented to residents, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States. (October 29, 2009)

257. Roth AH, Lecturer. Residents only review. Presented to Grand Rounds, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States. (November 12, 2009)

258. Roth AH, Lecturer. Basic pharmacology – IV agents. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (November 19, 2009)

259. Roth AH, Lecturer. Neuraxial anesthesia. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (December 9, 2009)

260. Roth AH, Lecturer. Basic pharmacology – IV agents. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (December 9, 2009)

261. Roth AH, Lecturer. Board review – no evaluations. Presented to residents, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States. (December 11, 2009)

262. Roth AH, Lecturer. Exam review. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (December 17, 2009)

263. Roth AH, Lecturer. Neuroaxial anesthesia. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (January 6, 2010)

264. Roth AH, Lecturer. Basic pharmacology – IV agents. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (January 8, 2010)

265. Roth AH, Lecturer. Basic pharmacology. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (February 3, 2010)

266. Roth AH, Lecturer. Neuraxial anesthesia. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (February 3, 2010)

267. Roth AH, Lecturer. Board reviews. Presented to residents, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States. (February 26, 2010)

268. Roth AH, Lecturer. Neuraxial anesthesia. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (March 4, 2010)

269. Roth AH, Lecturer. Board reviews. Presented to residents, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States. (March 5, 2010)

270. Roth AH, Lecturer. Measuring depth of anesthesia. Presented to residents, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States. (March 12, 2010)
271. Roth AH, Lecturer. Board questions. Presented to residents, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States. (April 9, 2010)

272. Roth AH, Moderator. Patients with neuromuscular disease/patients with ophthalmic surgery. Presented to residents, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States. (April 9, 2010)

273. Roth AH, Moderator. Anesthesia for patients with endocrine. Presented to residents, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States. (April 9, 2010)

274. Roth AH, Lecturer. Regional anesthesia. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (April 16, 2010)

275. Roth AH, Lecturer. Electrocardiography. Presented to residents, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States. (April 16, 2010)

276. Roth AH, Lecturer. EKG. Presented to residents, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States. (April 22, 2010)

277. Roth AH, Lecturer. Maternal changes in pregnancy. Presented to residents, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States. (May 14, 2010)

278. Roth AH, Lecturer. OB anesthesia. Presented to residents, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States. (May 14, 2010)

279. Roth AH, Moderator. Pediatric anesthesia. Presented to residents, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States. (May 21, 2010)

280. Roth AH, Lecturer. Case review/exam review. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (May 25, 2010)

281. Roth AH, Lecturer. Regional anesthesia – board review. Presented to residents, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States. (May 28, 2010)

282. Roth AH, Lecturer. Board review. Presented to residents, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States. (June 11, 2010)

283. Rozmiarek A, Lecturer. Anesthetic complications. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (November 20, 2009)

284. Rozmiarek A, Lecturer. Hepatic physiology and pathophysiology. Presented to residents, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States. (November 20, 2009)

285. Severyn SA, Lecturer. Acute pain. Presented to residents, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States. (July 24, 2009)
286. Shao Y, Moderator. Patient monitors. Presented to residents, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States. (August 17, 2009)

287. Shao Y, Moderator. Morbidity and mortality. Presented to Cardiac Anesthesia Subspecialty Conference, The Ohio State University Medical Center, Columbus, Ohio, United States. (September 24, 2009)

288. Shao Y, Moderator. Cardiovascular pharmacology. Presented to Cardiac Anesthesia Subspecialty Conference, The Ohio State University Medical Center, Columbus, Ohio, United States. (October 29, 2009)

289. Shao Y, Moderator. TEE rounds. Presented to Cardiac Anesthesia Subspecialty Conference, The Ohio State University Medical Center, Columbus, Ohio, United States. (November 12, 2009)

290. Shao Y, Moderator. Journal club. Presented to Cardiac Anesthesia Subspecialty Conference, The Ohio State University Medical Center, Columbus, Ohio, United States. (January 7, 2010)

291. Shao Y, Moderator. Morbidity and mortality. Presented to Cardiac Anesthesia Subspecialty Conference, The Ohio State University Medical Center, Columbus, Ohio, United States. (March 25, 2010)

292. Shao Y, Moderator. Fibrillation. Presented to Cardiac Anesthesia Subspecialty Conference, The Ohio State University Medical Center, Columbus, Ohio, United States. (June 3, 2010)

293. Small RH, Lecturer. Aseptic technique in regional anesthesia. Presented to Grand Rounds, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States. (July 9, 2009)

294. Small RH, Lecturer. Positioning. Presented to residents, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States. (July 23, 2009)

295. Small RH, Moderator. The operating room. Presented to residents, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States. (August 10, 2009)

296. Small RH, Lecturer. Perioperative vision loss – what we know, what we will know. Presented to Grand Rounds, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States. (January 21, 2010)

297. Small RH, Lecturer. Maternal and fetal physiology and anesthesia. Presented to residents, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States. (May 21, 2010)

298. Smith TJ, Moderator. Cholinesterase inhibitors. Presented to residents, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States. (September 28, 2009)

299. Smith TJ, Lecturer. Case presentation. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (September 29, 2009)

300. Smith TJ, Lecturer. Malignant hypothermia. Presented to residents, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States. (February 19, 2010)
301. **Smith TJ**, Lecturer. OB anesthesia. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (May 13, 2010)

302. **Speas GJ**, Moderator. Respiratory physiology. Presented to residents, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States. (December 7, 2009)

303. **Speas GJ**, Lecturer. Anesthesia implications of concurrent disease. Presented to residents, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States. (March 26, 2010)

304. **Speas GJ**, Lecturer. PACU. Presented to residents, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States. (June 4, 2010)

305. **Swain AR**, Lecturer. Board reviews. Presented to residents, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States. (February 26, 2010)

306. **Swain AR**, Lecturer. Acute pain. Presented to Pain Journal Club, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States. (June 14, 2010)

307. **Swain AR**, Lecturer. Interventional pain pharmacology. Presented to Pain Journal Club, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States. (June 15, 2010)

308. **Swan JF**, Lecturer. Renal physiology and anesthesia. Presented to residents, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States. (March 19, 2010)

309. **Swan JF**, Lecturer. Respiratory monitoring. Presented to residents, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States. (May 7, 2010)

310. **Szabo M**, Lecturer. Pulmonary pharmacology. Presented to residents, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States. (August 6, 2009)

311. **Szabo M**, Lecturer. Pre-op evaluation. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (September 15, 2009)

312. **Szabo M**, Lecturer. Pre-op evaluation. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (October 21, 2009)

313. **Traetow WD**, Lecturer. Anesthesia machine. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (July 8, 2009)

314. **Traetow WD**, Lecturer. Anesthesia machine. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (August 5, 2009)

315. **Traetow WD**, Lecturer. Uptake and distribution. Presented to residents, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States.
316. Traetow WD, Lecturer. Anesthesia machine. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (September 11, 2009)

317. Traetow WD, Lecturer. Anesthesia machine. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (October 7, 2009)

318. Traetow WD, Lecturer. Anesthesia machine. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (November 17, 2009)

319. Traetow WD, Lecturer. Anesthesia machine. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (December 18, 2009)

320. Traetow WD, Lecturer. Anesthesia machine. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (January 20, 2010)

321. Traetow WD, Lecturer. Anesthesia machine. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (February 9, 2010)

322. Traetow WD, Lecturer. Anesthesia machine. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (March 5, 2010)

323. Traetow WD, Lecturer. Anesthesia machine. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (April 14, 2010)

324. Traetow WD, Lecturer. Machines. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (May 18, 2010)

325. Turner KR, Moderator. Renal protection during cardiac surgery. Presented to Cardiac Anesthesia Subspecialty Conference, The Ohio State University Medical Center, Columbus, Ohio, United States. (July 23, 2009)

326. Turner KR, Lecturer. Blood products and transfusion guidelines. Presented to residents, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States. (July 23, 2009)

327. Turner KR, Lecturer. Cardiovascular pharmacology. Presented to residents, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States. (August 20, 2009)

328. Turner KR, Lecturer. Extracorporeal membrane oxygenation (ECMO) as an adult rescue modality. Presented to Cardiac Anesthesia Subspecialty Conference, The Ohio State University Medical Center, Columbus, Ohio, United States. (October 15, 2009)

329. Turner KR, Lecturer. Patients with cardiovascular disease. Presented to residents, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States. (November 30, 2009)
330. Turner KR, Moderator. TEE rounds. Presented to Cardiac Anesthesia Subspecialty Conference, The Ohio State University Medical Center, Columbus, Ohio, United States. (December 10, 2009)

331. Turner KR, Lecturer. Morbidity and mortality. Presented to Grand Rounds, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States. (December 10, 2009)

332. Turner KR, Lecturer. Cardiovascular monitoring. Presented to residents, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States. (March 5, 2010)

333. Turner KR, Lecturer. Cardiovascular monitoring. Presented to residents, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States. (April 2, 2010)

334. Turner KR, Moderator. TEE rounds – moderate ischemic mitral regurgitation. Presented to Cardiac Anesthesia Subspecialty Conference, The Ohio State University Medical Center, Columbus, Ohio, United States. (April 15, 2010)

335. Turner KR, Moderator. Vasopressin: a review of therapeutic applications. Presented to Cardiac Anesthesia Subspecialty Conference, The Ohio State University Medical Center, Columbus, Ohio, United States. (June 10, 2010)

336. Weaver JM, Moderator. Local anesthetics. Presented to residents, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States. (October 27, 2009)

337. Werner JG, Lecturer. Monitors. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (July 7, 2009)

338. Werner JG, Lecturer. Monitors. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (August 6, 2009)

339. Werner JG, Lecturer. Monitors. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (September 11, 2009)

340. Werner JG, Lecturer. Monitors. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (October 7, 2009)

341. Werner JG, Lecturer. Monitors. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (November 4, 2009)

342. Werner JG, Lecturer. Monitors. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (December 2, 2009)

343. Werner JG, Lecturer. Monitors. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (January 6, 2010)

344. Werner JG, Lecturer. Complementary and alternative therapies. Presented to residents, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States. (January 20, 2010)
345. Werner JG, Lecturer. Monitors. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (March 9, 2010)

346. Werner JG, Lecturer. Monitors. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (April 6, 2010)

347. Werner JG, Lecturer. Monitors. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (May 6, 2010)

348. Xia Y, Lecturer. OB anesthesia. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (July 14, 2009)

349. Xia Y, Lecturer. Neuraxial anesthesia. Presented to residents, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States. (July 28, 2009)

350. Xia Y, Lecturer. OB anesthesia. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (August 14, 2009)

351. Xia Y, Lecturer. OB anesthesia. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (September 23, 2009)

352. Xia Y, Lecturer. OB anesthesia. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (October 13, 2009)

353. Xia Y, Lecturer. Introduction to OB anesthesia. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (November 5, 2009)

354. Xia Y, Lecturer. OB anesthesia. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (December 15, 2009)

355. Xia Y, Lecturer. Pre-eclampsia. Presented to Grand Rounds, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States. (January 7, 2010)

356. Xia Y, Lecturer. OB anesthesia. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (January 21, 2010)

357. Xia Y, Lecturer. OB anesthesia. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (February 19, 2010)

358. Xia Y, Lecturer. OB anesthesia. Presented to medical students, The Ohio State University College of Medicine, Columbus, Ohio, United States. (March 16, 2010)

359. Yablok DO, Lecturer. Basic principles of pharmacology related to anesthesia. Presented to residents, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States. (July 23, 2009)

360. Yablok DO, Lecturer. Broken PAC balloon. Presented to Grand Rounds, Department of Anesthesiology, The Ohio State University Medical Center, Columbus, Ohio, United States. (June 17, 2010)
Clinical Sites

Clinical Operations University Hospitals

Luis A. Lopez, MD
Clinical Associate Professor
Clinical Director for Operation, OSUMC

Our clinical service has had an immense challenge coping with all the demands for anesthesia services in multiple areas. This is due to the growth in the number of cases and working hours at The Ohio State University Medical Center, and also the commitment we have to provide faculty and residents with time outside the operating room (OR) to accomplish their plans for research and academics.

Research

1. The clinical Department of Anesthesiology is committed to providing support to all the areas of our department, including research. The department provides allotted time to all the anesthesiologists who are participating in investigations or clinical trials for drugs.

2. For clinical anesthesiologists, we must provide the time for activities like committees and planning/information for the growth of our department and Ohio State’s Medical Center.

To provide this time off outside the clinical service, the rest of the group has to pick up clinical work and provide proper coverage for all the areas that our service requires. This must be accomplished without disrupting our responsibility of always providing the best patient care. This is where the challenges of the personnel distribution play a large role.

2010 – 2011 Goal

Our plans are to continue to provide a fertile environment to stimulate, increase and encourage the interest in research for all faculty and residents, without sacrificing our commitment to our patients.

Education

Our department is committed to assisting and maintaining the education of our residents. Our responsibility and participation is to have the residents relieved on time to assist with all the lectures and activities they have scheduled for their continual education. This includes the lectures every Friday morning for each class, education activities of the residents in different rotations, participation in Project EAR (a mission trip to the Dominican Republic, in which a group of faculty and residents are relieved from clinical services), and involvement of residents and faculty in anesthesia simulation education.
Education is our commitment to all of the residents and faculty who participate. It is our intention to continue to facilitate this educational plan; Andrew H. Roth, MD also has plans to give the faculty time to prepare their lectures, as well as to provide time for residents to participate.

Clinical

2009 – 2010 Highlights and Accomplishments

The clinical service has increased tremendously with requests for anesthesia service in a number of areas. Thus, our department has to be in constant evolution and communication with all the areas of the hospital where our services are needed. Covering and scheduling the proper number of personnel has increased in the following ways:

1. This year was the opening of the Surgical Outpatient Center, located at Ohio State’s Eye & Ear Institute, where four operating rooms opened and required assignments of three anesthesiologists, four certified registered nurse anesthetists (CRNAs), and a resident in rotation to do the block.

2. Ohio State University Hospital East has increased the number of operating rooms from 10 to 12 or 13, so we have to increase the number of faculty to six and the CRNAs to 12 on a daily basis.

3. The Ohio State University Comprehensive Cancer Center – Arthur G. James Cancer Hospital and Richard J. Solove Research Institute and Ohio State’s Richard M. Ross Heart Hospital have a constant volume in the number of cases and hours of surgery. Many days, these two hospitals have cases going until late into the evening.

4. Another place that has been a challenge to provide proper coverage for is The Ohio State University Preoperative Assessment Center (OPAC), where we have to send a faculty and a resident. Then we have to cover vacation and ill time for the rest of the personnel to be able to cope with the volume of patients seen at OPAC.

5. An important part of our organization is the coverage of the off-site services:

   - Gastroenterology (OR 95): Daily service with a full-day schedule of cases.
   - EP lab (invasive cardiology) (OR 96 and 97): Two rooms on Monday and Friday; one room on the other days. We continued discussions to open more rooms to cover the high demand of anesthesia in this area.
   - Pulmonology (OR 98): Every Thursday, and CT the rest of the week, as requested.
   - Pediatric radiation oncology (OR 99): Every day in early morning, then ECT on Monday, Wednesday and Friday. In this same group, after we finished our daily obligations, we continued to do cases for invasive radiology (MRI, TIPPS, coiling, line placement, etc.). We are planning to have better coverage of these areas, to have a schedule day, and to decrease the disruption of the elective scheduled cases in this slot.

The year of 2009 - 2010 has been full of wonderful experiences, since we have seen an incredible growth in our number of cases and hours of surgery.
• University Hospital East has increased the numbers of rooms and cases done.

• Ohio State’s Comprehensive Cancer Center – James Cancer Hospital and Solove Research Institute maintains its high volume.

• Ross Heart Hospital is having an increase in cases and we have been assigning cover for all the rooms.

• University Hospital has increased the hours of time running the operating rooms. Since more rooms cannot be opened, longer hours are run.

Overall, our operations have been running over budget in number of cases and hours of surgery. The type of cases at University Hospital has become more complex and longer since a big part of our outpatients were moved to the Surgery Center. We have been very creative in providing coverage for all the areas needing anesthesia, without compromising patient care.

2010 – 2011 Goals

In the future, we want to increase the number of faculty and CRNAs to provide this coverage without causing delays to the rest of the scheduled cases.

We have continued to use our electronic scheduling program, Spinfusion, to generate the monthly anesthesiology call schedule for our attendings, as well as to keep track of all attending leave requests. We are hoping to merge monthly attending call pay records into Spinfusion in the near future as the software prepares for its latest version update.

It should be noted that we cannot use Spinfusion to its maximum potential for the attending schedule due to the ever-increasing number of sites that we need to cover. We have expanded to make assignments on a monthly basis for University Hospital, University Hospital East, OSUCCC-James, Ross Heart Hospital, Eye & Ear Institute, OPAC and The Ohio State University Comprehensive Spine Center. The complexity of managing assignments at all of these sites has caused us to make many assignments by hand so that staffing is balanced appropriately where needed.

Recently, we have also helped our residents make the transition to using Spinfusion for their call schedule, daily assignments and leave requests. We have plans to move all CRNA scheduling into Spinfusion as well. However, for now, we are helping to train the CRNAs to use Spinfusion for all of their leave requests while continuing to populate the daily CRNA assignments by hand so that we can monitor our CRNA overtime needs more easily.

As we hire more CRNAs, we are hoping that our overtime needs will shrink. However, it is our duty as a department to find a way to cover, on average, 38 sites around University Hospital on a daily basis. At the same time, we do our best to send CRNAs as needed at University Hospital East and the Eye & Ear Institute on their busier days.

In the near future, we would like to have enough personnel to run this operation, since the demand of our service is continuously increasing. We have an excellent group of anesthesiologists, CRNAs, and anesthesia assistants that make it possible to run this operation smoothly. I am proud to be part of this great and enthusiastic group of people who are committed to give the best to our patients and the Medical Center.
Cardiothoracic and Vascular Anesthesia – Ross Heart Hospital

Michael J. Andritsos, MD
Assistant Professor
Clinical Director, Cardiothoracic and Vascular Anesthesia

Galina T. Dimitrova, MD
Fellowship Director

Research

2009 – 2010 Highlights and Accomplishments

The Division of Cardiothoracic and Vascular Anesthesia is continuing to progress in areas of research, education and clinical services throughout the fiscal academic year of 2010. In the areas of research, we continue to excel with numerous publications and continued research awards. These include areas of basic science research in spinal cord ischemia, heart failure and remodeling and clinical research in renal injury due to cardiopulmonary bypass, and side effects of antifibrinolytic agents. We continue to make a strong presence as moderators, abstract reviewers and presenters at our Society of Cardiovascular Anesthesiologists’ Annual Meeting.

Education

Fellowship

Our cardiovascular fellowship program, under the direction of Galina T. Dimitrova, MD, is fully functional under Accreditation Council for Graduate Medical Education (ACGME) status. We had one Fellow complete his training under the ACGME requirements and have two recruits for the following year.

Clinical

2009 – 2010 Highlights and Accomplishments

Clinically, we continue to excel in cardiac anesthesiology procedures with contributions to improved patient outcomes and decreased mortality, as shown in U.S. News & World Report. Over this year, we experienced a steady plateau in the number of cardiac cases, averaging approximately 60 to 65 open heart cases per month. We continue performing CABG, OPCAB, and CABG-valve surgeries, VAD procedures, heart transplant and thoracoscopic MAZE procedures. We are averaging approximately one to two heart transplants per month. In thoracic anesthesiology, the volume of thoracotomies continues to rise with VATS procedures and lung volume reduction surgery. In vascular anesthesiology, we are seeing a steady increase in the number of endovascular procedures for abdominal and thoracoabdominal aneurysms.

In echocardiography, we now perform perioperative echocardiography in 2D and 3D modalities and continue to participate in multiple research endeavors with our cardiology colleagues, implementing 3-D analysis of mitral and aortic valve pathology. Our residency program has incorporated an elective rotation
in perioperative transesophageal echocardiography (TEE) with one-to-one instruction on basic perioperative TEE.

Administratively, we are maintaining operating room efficiency at Ohio State’s Ross Heart Hospital, as reported by the Ross Heart Hospital Quality Management Committee. We continue to minimize delays in operating room start times with the best start times among the three hospitals and a reduction of case turnover times.

In summary, the Division of Cardiothoracic and Vascular Anesthesiology has seen steady success, specifically in the areas of research and education. We continue to excel in clinical service, as evidenced in our operating room efficiency and patient satisfaction.

**Anesthesia Services at Cancer Hospital Research Institute**

![W. Daniel Traetow, MD](image)

W. Daniel Traetow, MD  
Assistant Professor Clinical  
Director of Clinical Anesthesia  
James Cancer Hospital and Solove Research Institute

**Clinical**

2009 – 2010 Highlights and Accomplishments

The most exciting news for The Ohio State University Comprehensive Cancer Center – Arthur G. James Cancer Hospital and Richard J. Solove Research Institute is the groundbreaking for ProjectONE. This will truly make the The Ohio State University Medical Center one of the largest and most comprehensive cancer hospitals in the United States. The effort received a tremendous funding boost with a federal government grant and a $100,000,000 donation from the Wexner family. We will be adding up to 14 new operating rooms that will allow cases that were formally performed in Ohio State’s University Hospital and Ohio State’s Richard M. Ross Heart Hospital to be done in Ohio State’s Comprehensive Cancer Center – James Cancer Hospital and Solove Research Institute.

The OSUCCC-James has also purchased the Hemochrome JR system to expedite obtaining critical lab results (INR) within five minutes without having to send a specimen to the lab. This system works just like our blood glucose meters. It not only gives an almost immediate result, it also bills the patient and records the data in eResults.

In addition, we have purchased three C-MAC® laryngoscopes to aid with difficult intubations. There has also been a program initiated to train certified registered nurse anesthetists who may have an interest in doing thoracic cases.

There were 4,971 operations performed in the OSUCCC-James this past year. Another 2,280 cases were performed in University Hospital on patients who were admitted to the OSUCCC-James. Almost every surgical service that operates in OSUCCC-James had a dramatic increase in their total number of cases
for the year. As we continue to add new surgeons to almost every service, these numbers will surely increase.

2010 – 2011 Goals

In an effort to provide excellent anesthesia services for the future, we will be initiating a new thoracic surgery anesthesia team starting in July 2011. This team will consist of providers that will work with the thoracic surgeons on a regular basis, including taking call to extend coverage into the evening.

As always, we will continue to strive to provide the best state of the art anesthesia care for our patients and to work as a team with the nurses and surgeons at OSUCCC-James.

Ohio State University Hospital East

Fernando L. Arbona, MD
Assistant Professor Clinical
Clinical Director, Ohio State University Hospital East

Clinical

Highlights and Accomplishments

We continue to be very busy in the operating rooms at OSU East. Our total number of surgical cases increased by 243 cases (+3.1%) for the calendar year 2009. With the budgeted cases for OSU East’s operating rooms set at 7878 for the calendar year 2009, the increase in actual cases for the year was above the budgeted growth expected by +2.1%. We finished the year strong with the majority of this growth coming from June through December, when we were above budget all of these months by a total of 343 cases. This represents OSU East performing surgical cases at +7.7% above budget for the final seven months of the calendar year 2009. In addition to a growth in total operative cases performed at OSU East, there was also a larger growth in total surgical hours. Calendar year 2009 yielded 12,766 operative hours which, compared to the 12,251 from 2008, presented an increase of 515 surgical hours (+4.2%) for the year. This slightly higher growth in surgical hours compared to surgical cases represents an increase in longer duration, and more complex cases which has been the general trend at OSU East over the past two years.

OSU East Surgical Cases for Calendar Years 2008 & 2009

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<tr>
<td>Calendar Year 2008</td>
<td>7,803</td>
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<tr>
<td>Calendar Year 2009</td>
<td>8,046</td>
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<tr>
<td>Change</td>
<td>+243</td>
</tr>
<tr>
<td>% Change</td>
<td>+3.1%</td>
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OSU East Surgical Cases for Calendar Year 2009, Budgeted vs. Actual

<table>
<thead>
<tr>
<th>Budgeted Cases CY 2009</th>
<th>7878</th>
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<tbody>
<tr>
<td>Actual Cases CY 2009</td>
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<tr>
<td>Change</td>
<td>+168</td>
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<td>% Change</td>
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OSU East Surgical Hours for Calendar Years 2007 & 2008

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<tr>
<th>Calendar Year 2008</th>
<th>12,251</th>
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<tbody>
<tr>
<td>Calendar Year 2009</td>
<td>12,766</td>
</tr>
<tr>
<td>Change</td>
<td>+515</td>
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<td>% Change</td>
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In addition, we still continue to grow our application of ultrasound guidance for regional anesthesia in our patient care. With the continued excellent work by our regional anesthesia and acute pain nurse, Laurah Carlson, we have been able to continue to expand our regional anesthesia and perineural catheter service. This has been evidenced by our consistently high patient satisfaction scores, especially in regards to pain control in the operating room venue, as well as increased revenue generation from our regional anesthesia since her start in mid March 2008. Also, with Babak Khabiri, DO being named the director of regional anesthesia, and John Norton, DO being named the regional anesthesia fellowship director, we are poised to expand our academic progression at OSU East. This coupled with the increase in surgical hours, as well as our increase in procedures performed outside of the operating rooms in the form of regional anesthetic procedures, we are still able to continue to provide efficient, high-quality, cutting-edge, evidence-based care to our patients and surgeons.

Education

Highlights and Accomplishments

OSU East Anesthesiology has also been active in the academic arena during the past year. Fernando Arbona, MD, Babak Khabiri, DO, and John Norton, DO continue to diligently work under contract with Cambridge University Press, writing a textbook on ultrasound guided regional anesthesia, which is expected due for publication during the summer of 2010. Also, Drs. Arbona, Khabiri and Norton have a case report regarding ultrasound and regional anesthesia that has been accepted for publication in the Journal of Clinical Anesthesia for June 2010. In addition, there have been several studies, both multicenter and only OSU East-based, performed at OSU East. We currently are actively enrolling patients in two IRB-approved studies, while we continue to create new research projects. We are currently in the IRB process with several other studies, some as joint studies with other surgical services.

Fernando L. Arbona, MD is clinical director for anesthesiology at OSU East. The other members of the anesthesia faculty with a 100% FTE allocation to OSU East are Babak Khabiri, DO (director of regional anesthesia), John Norton, DO (regional anesthesia fellowship director), Alan Kover, MD and, as of January 1, 2010, Charles Hamilton, MD. Other faculty members who have 50% FTE allocation to OSU East include Andrew Roth, MD and Kenneth Moran, MD. We have approximately a 25% contribution of work at OSU East by Heather Gensel, DO, though she does not have any OSU East FTE allocation as of yet. We all continue to work well with the pre-, intra- and post-operative nurses, surgeons, and Medical Management Team (MMT) to ensure high-quality and efficient preparation of the operative patients. We
also continue to work with the operating room management team regarding the OR block time schedule, in which the availability of time based on the surgeon’s utilization of blocked time, to further improve the efficiency of the operating rooms. Currently there are a total of 13 functioning operating rooms, which will soon be 14. With the addition of the late-release block time of an Ortho-Trauma service at OSU East this past year, all 13 currently available operating rooms have fully blocked surgical time almost every day.

For the upcoming year, we expect our surgical volume to continue to vary, with a resultant eventual growth over the next few years. With the opening of the Gowdy Fields surgery center, there is going to be a gradual shift of some of our ENT cases and, more significantly, all of our hand cases to this new site during this year. The latter of the two (hand cases) will have the most significant effect on our case numbers. Eventually this loss of cases will be filled in by new surgeons from several specialties. We have already begun to see the addition of some of these surgeons over the past year, and expect more in the years to come. This may take some time, though, so there may be an initial dip in the case numbers or surgical hours during the year before it increases again. Though, in the long term, we expect an overall growth in surgical volume at OSU East.

Research

Goals

The area specific to anesthesia that we wish to develop during the next year involves leading research studies that can have a significant impact on clinical practice, while maintaining and continuing to improve our high-quality and efficient patient care.

Ohio State’s Eye & Ear Institute

John S. Rogoski, DO
Assistant Professor Clinical
Director, Outpatient Surgery Center at Ohio State’s Eye & Ear Institute

Clinical

The Outpatient Surgery Center is an outpatient department of The Ohio State University Medical Center, which provides services related to elective outpatient procedures in the fields of otolaryngology, ophthalmology, upper extremity orthopedics and plastic surgery. The OSUMC board of directors and the OSUMC medical staff, in conjunction with the center’s medical director, director, and/or clinical manager, assess, plan, implement, and evaluate the delivery of care and services. The center’s leadership team is responsible for ensuring that the delivery of care provided is consistent with the mission, standards, and policies established for patient care. The center’s leadership team promotes an environment that fosters empowerment through active participation in strategic planning and development of processes that ensure adequacy of services and resources to meet the current and projected community needs, policy establishment, and professional growth.
The objective of The Ohio State University Outpatient Surgery Center is to deliver excellent surgical, procedural, and anesthesia services to those we serve in accordance with the standards set forth by The Joint Commission, Centers for Medicare & Medicaid Services (CMS) Conditions of Participations for Hospitals, and the vision and mission statements of OSUMC. The scope of care is designed to provide appropriate care and services for all patients in a timely manner.

Utilizing a multi-disciplinary approach in the delivery of patient care, our services promote continuous quality and performance improvement activities provided in an environment where collaboration and multi-disciplinary approaches to problem identification and resolution are the expectation. Important criteria and thresholds are measured and continuously monitored through our quality and performance improvement process to optimize patient outcomes and ensure the highest level of satisfaction for all of our customers. Results of our quality and performance improvement activities are used to improve patient outcomes and enhance our services and our staff performance.

The center consists of six operating rooms, preoperative and postoperative patient care areas along with reception and waiting areas located on the first floor of The Ohio State University Eye & Ear Institute. The center is staffed from 6:30 am to 4:30 pm, Monday through Friday, primarily for adult patients requiring surgical intervention under local anesthesia, monitored anesthesia care, regional anesthesia, or general anesthesia. Patients are outpatients and released the day of service. The center does not have the capacity for overnight patient stays. The patients are required to have the ability to understand and carry out their discharge instructions or have a responsible adult which will assist them in fulfilling these needs.

All procedures performed at the Outpatient Surgery Center are part of the core privileges approved by OSUMC.

The following types of procedures are not performed at the center:

- Are associated with the risk of extensive blood loss.
- Require major or prolonged invasion of body cavities.
- Directly involve major blood vessels.
- Are an emergency or life threatening in nature.
- Noted on the CMS inpatient only list. This list will be reviewed and updated annually.

2009 – 2010 Highlights and Accomplishments

There has been continued expansion of cases in all service lines led by hand surgery and ophthalmology. Since opening in August 2009, the Outpatient Surgery Center has consistently met or exceeded OSUMC goals in major areas such as patient safety, efficiency, and patient satisfaction. In fact, the center has maintained a 99th percentile ranking in overall patient satisfaction within its national peer group.

2010 – 2011 Goals

Future plans include the addition of elbow and shoulder procedures, as well as possibly urologic surgery.
Ohio State University Preoperative Assessment Center (OPAC)

Barbara M. Rogers, MD
Assistant Professor
Clinical Co-director, OPAC

Heather C. Eck, MD
Assistant Professor
Clinical Co-director, OPAC

Research

2009 – 2010 Highlights and Accomplishments

OPAC collaborated with a variety of researchers for recruitment within the OPAC clinic patient population:

1. The Ohio State University Medical Center, Department of Anesthesiology
   - Measurement of intraocular pressures in robotic patients

2. The Ohio State University Medical Center, Department of Surgery
   - Bariatric preop study

3. The Ohio State University Comprehensive Cancer Center – James Cancer Hospital and Solove Research Institute
   - A total of 1105 patients were recruited into the Biorepository and Biospecimen Resource study in 2010; OPAC performed the blood collections on 511 of these patients.

Education

2009 – 2010 Highlights and Accomplishments

OPAC rolled out a new OneSource webpage that features a marketing video.

2010 – 2011 Goal

A goal is to increase the surgeon referral base to OPAC and subsequently increase monthly patient volumes.

Clinical

2009 – 2010 Highlights and Accomplishments
OPAC helped to decrease surgery delays and cancellations by increasing the quality of the OPAC visit, as evidenced by:

- Developed a weekly report that gives clinical information and cancel codes for all patients who had an OPAC visit prior to their surgical encounter and experienced a delay or cancellation on the day of surgery. The manager and a QI team are tracking and following up on these canceled cases, assigning them an “avoidable” or “unavoidable” code. The information is being used for interdepartmental quality initiative and opportunity.

- Developed a draft of preoperative workflow for dialysis patients in collaboration with the Division of Nephrology.

- Developed a communication contact list to enhance OPAC’s surgical attending handoff communication.

- Revised the OPAC process for preoperative blood bank type and cross, which allows for increased accountability at the registered nurse (RN) level. This resulted in zero blood bank events over the past three to four months.

- Developed and implemented a revised anesthesia alert system within OR Webb in collaboration with the Operating Room Scheduling Accuracy Work (ORSAW) team.

- Completed an OPAC efficiency study in collaboration with a Management Engineering team; recommendations were implemented.

- Continued to participate in Anesthesia Quality initiatives on a monthly basis.

- Revised OPAC electrocardiogram (EKG) ordering and transmission in collaboration with the Division of Cardiovascular Medicine, which resulted in less transmission errors over the past three to four months.

- Established partnership between OPAC manager and University Hospital (UH) ambulatory surgery unit (ASU) nurse manager and mid-level staff to share and address quality issues, near-misses and handoff communication concerns on a monthly basis.

- Revised the quarterly mid-level quality tool to align with our electronic medical record.

- Education and training of “view only” capability of the OPAC encounter within the Integrated Healthcare Information System (IHIS) with James and UH preop staff.

- Coordinated with James, Richard M. Ross Heart Hospital and UH preop to encourage staff to take advantage of “view only” of IHIS OPAC encounter (vs. viewing in eResults where the template does not transfer from IHIS accurately) and print IHIS encounter for surgery chart.

- Expanded patient education provided by the OPAC RN:
  - Preop skin prep with chlorhexadine gluconate soap distribution and education for all patients
  - Preop general instruction
- Preop type and cross patient instruction that has led to fewer blood bank events
- Preop nasal culture screening procedure, indication for and potential treatment of positives
- OSA risk (condition and sleep study info) education
- Preparation of the known obstructive sleep apnea patient for day of surgery
- RN abstraction visits prior to OPAC appointment to detail the patient history

- Moved to a new area with double the number of clinical exam rooms, which is conveniently located in the Martha Morehouse pavilion and is closer to other patient preop visits and testing locations.

- Increased mid-level staff by adding 1.0 FTE for physician assistant.

- Increased overall patient volume by 32% over 2009.

2010 – 2011 Goals

- Build op time preoperative screens in collaboration with the ORSAW team and IT.

- Continue to have a high customer satisfaction with OPAC visit (> 90% rate OPAC as being “very good”).

- Collaborate with Fisher College of Business to study ways to be even more effective in patient wait time and service initiatives.

- Continue to collaborate with the Department of Internal Medicine to coordinate preop evaluations.

- Collaborate with the outpatient surgery center by routing all OPAC encounters to the anesthesia providers so that preop screening can take place.

- Continue to coordinate cardiac testing and cardiac consults.

- Continue to coordinate nephrology, pulmonary, hematology and endocrinology preop consultations.

Ohio State University Comprehensive Spine Center

Steven A. Severyn, MD, MBA
Assistant Professor Clinical
Director, Pain Medicine Services
Director, Pain Section, The Ohio State University Comprehensive Spine Center
Director, Multi-disciplinary Pain Medicine Fellowship
**Research**

*2009 – 2010 Highlights and Accomplishments*

The Pain Medicine Services established the foundation for a new research initiative, identified intrathecal drug infusion as the focal topic, and secured additional allowances of faculty and Fellow non-clinical time for the upcoming academic year. The section participated in a research initiative investigating the clinical efficacy and safety of a new substance for treatment of opioid-induced constipation.

*2010 – 2011 Goals*

The section will formulate at least two original retrospective studies, secure the approval of the institutional review board, and initiate collection and analysis of data intended for publication during the academic year.

**Education**

*2009 – 2010 Highlights and Accomplishments*

The section sponsored two posters presented by residents at the Midwest Anesthesia Residents Conference, one of which gleaned first-place honors. The department-sponsored, Accreditation Council for Graduate Medical Education (ACGME)-accredited multi-disciplinary pain medicine fellowship graduated a Fellow with full qualifications and subspecialty board eligibility.

*2010 – 2011 Goals*

The fellowship program will be examined during a site visit by an ACGME site visitor in August 2011. Upon receipt of a satisfactory report in April 2011, the program intends to submit its request for an increase in training complement. The Pain Medicine Section intends to submit two presentation posters to the Annual Pain Medicine Meeting of the American Society of Regional Anesthesia and Pain Medicine, presenting at a national level for the first time.

**Clinical**

*2009 – 2010 Highlights and Accomplishments*

The section gained one additional full-time faculty member and continues to perform as an integral part of The Ohio State University Comprehensive Spine Center in the areas of new patient accession and evaluation, performance of invasive procedural medicine and surgery, and evaluation of a wide diversity of pain conditions.

*2010 – 2011 Goals*

By the end of this academic year, the principal outpatient platform will be moved to The Ohio State University CarePoint East, near Ohio State’s University Hospital East, where we intend to also provide inpatient consultation service during academic year 2011-2012.
Clinical Director Reports

Acute Pain Medicine Services

Stephen E. Paquelet, MD
Assistant Professor Clinical
Section Director, Acute Pain

Clinical

2009 – 2010 Highlights and Accomplishments

Inpatient Pain Medicine Services, Department of Anesthesiology

Inpatient pain medicine services is a shared responsibility of a group of four regularly rotating core physicians board certified in pain medicine. The inpatient service provides a full spectrum of inpatient care for both acute and chronic pain conditions in an active consulting role that also includes active management of patients’ needs. The service also is able to utilize a host of interventional pain procedures to help treat patients. Examples of routine interventional procedures include (but are not limited to): epidural steroid injections, lumbar and stellate sympathetic blocks, implanted intrathecal catheters and programmable infusion pumps, spinal cord stimulation, tunneled epidural catheters, and various regional anesthesia techniques.

The daily inpatient service census, on average, remains nearly evenly distributed between care of patients receiving postoperative epidural infusion and the active consultant practice for acute and chronic pain. In 2010, the service managed approximately 693 postoperative epidural infusions and 581 consults for acute and chronic pain conditions. In total, there were approximately 3,472 inpatient visits.

The addition of a weekday evening registered nurse shift improved continuity of care, timely responsiveness to issues concerning epidural drug delivery, and satisfaction of both patients and customer physician services, and also substantially reduced the level of responsibility for epidural management during evening hours that was previously relegated to the on-call anesthesiology resident team. Physician weekend rounds, generally assisted by a dedicated resident or Fellow, continue to yield substantially improved continuity of care and availability for responding to weekend consultation requests.

The acute pain service provides a steadily increasing number of implanted intrathecal catheter and programmable infusion pumps for the care of patients with pain due to chronic non-cancer conditions, pain due to cancer conditions, and management of spasticity of central nervous system etiology. These patients receive their principle care through the Departments of Anesthesiology, Internal Medicine Pain & Palliative Medicine, and Physical Medicine & Rehabilitation, respectively. Patients receiving intrathecal infusion of opioids for pain management constitute the only exception in which the Department of Anesthesiology also manages oral analgesic medication prescribed for cancer pain. The regular presence
of physicians experienced in pump management on the inpatient service continues to foster a closer integration of the individual services, benefiting patient satisfaction and the efficient provision of care.

**Critical Care Medicine**

**Education**

2009 – 2010 Highlights and Accomplishments

- Received formal approval from the Accreditation Council for Graduate Medical Education (ACGME) for two fellowship positions in critical care anesthesiology.
- Expanded participation and training to the postoperative cardiac surgical patients as well as vascular surgery and patients with severe respiratory failure due to the H1N1 virus.
- Continued education in utilizing and teaching ultrasound techniques for bedside noninvasive critical care diagnosis as well as safe invasive line placement.

2010 – 2011 Goals

One of the goals is to recruit and train BE/BC anesthesiologists from nationally-recognized institutions, including The Ohio State University Department of Anesthesiology, in anesthesia critical care.

**Fellowship**

The critical care anesthesiology fellowship program received full approval this past year from ACGME after **Thomas J. Papadimos, MD** revised its structure and academic aspects. The Department of Anesthesiology is proud to have its first Fellow enrolled in the program, **Sarah Russell, MD**, who completed her training in anesthesia at the Cleveland Clinic.

In addition, the Department of Surgery has four critical care fellowship positions approved by ACGME, although only two of the positions are currently filled. The two Fellows in the Department of Surgery are **Angelina Postoev, MD** and **Vanessa Olcese, MD, PhD**.

**Research**

2010 – 2011 Goal
A goal of the critical care medicine division is to support newer faculty in the establishment of research in areas of particular interest, such as ventilator support and adult respiratory distress syndrome.

Clinical

2009 – 2010 Highlights and Accomplishments

During the past academic year, Ravi S. Tripathi, MD, assistant professor clinical, has been added to the faculty roster of the critical care medicine division of the Department of Anesthesiology. Dr. Tripathi received his anesthesiology and critical care training at the University of Michigan and has been actively contributing to the cardiothoracic and vascular anesthesia division as well as participating in the Critical Care Rounds for the postoperative management of patients at the Ohio State’s Richard M. Ross Heart Hospital. He has a research interest in postoperative ventilation and will soon be certified in transesophageal echocardiography.

Thomas J. Papadimos, MD, FCCM, FACP is a clinical professor and fellowship program director for the critical care medicine division of the Department of Anesthesiology. He has had an active and successful year with numerous academic publications, plus he initiated and forms an important nucleus of the critical care management program of the Ross Heart Hospital as well as The Ohio State University Medical Center’s surgical intensive care unit (SICU).

Deven Kothari, MD, MHA, assistant professor clinical, joined our faculty in 2009 and continues to be an integral part of the SICU service. He also participates in rounds of the post-cardiac surgical patients at the Ross Heart Hospital. Dr. Kothari trained in anesthesiology at the Cleveland Clinic, where he also completed a fellowship in critical care.

Neuroanesthesia

Sergio D. Bergese, MD
Associate Professor Clinical
Director, Neuroanesthesiology Services
Neuroanesthesia Fellowship Director
Director of Clinical Trials and Neurological Research

Research

2009 – 2010 Highlights and Accomplishments

A total of 18 Institutional Review Board (IRB)-approved research protocols were actively enrolling, among which nine were phase-3, multi-center trials. We had several active grants that generated over $1 million dollars in the past year. In addition, six papers and two book chapters were accepted and approved for publication. Seventeen abstracts were also presented at scientific societies’ meetings.
2010 – 2011 Goals

We will continue to apply for grants and conduct sponsored trials. In 2010-2011, our goal is to apply for a National Institutes of Health (NIH) grant. Prospective studies in the fields of anesthesia monitoring, postoperative nausea and vomiting (PONV), and postoperative ileus are awaiting approval for the upcoming year. Additionally, we look forward to collaborating with other departments and our anesthesia basic and translational science research section.

Education

2009 – 2010 Highlights and Accomplishments

Katie Figg, MD was the first graduate from the neuroanesthesia fellowship program. We continued to host weekly neuroanesthesia journal clubs for our faculty, residents, and clinical research staff. Additionally, three medical students contributed to our clinical research.

2010 – 2011 Goals

Our main goal is to increase the overall interest in the neuroanesthesia field. Furthermore, we plan to increase the number of faculty who sub-specialize in the field.

Fellowship

Two Fellows, Gurneet S. Sandhu, MD and Demicha D. Rankin, MD, will continue to train through our six-month neuroanesthesia fellowship program. Also, we have applications for a combined research-clinical fellowship.

Clinical

2009 – 2010 Highlights and Accomplishments

Ali R. Rezai, MD joined our neurosurgery team, solidifying our movement disorder program. We saw steady growth in this area as Dr. Rezai performs deep brain stimulation procedures to cure Parkinson’s disease. Ciaran J. Powers, MD, PhD also joined our team and specializes in open and endovascular treatment of cerebrovascular disease. In addition, Sergio D. Bergese, MD was promoted to associate professor clinical.

2010 – 2011 Goals

Our goals include developing special areas of training for faculty, including stroke, endovascular disease and movement disorders.
Obstetrical Anesthesia

Mona Y. Halim, MD
Assistant Professor Clinical
Director, Obstetrical Anesthesia

Clinical

2009 – 2010 Highlights and Accomplishments

The Ohio State University Medical Center continues to maintain a volume of about 4,500 live births per year, as well as approximately 90% of deliveries receiving epidural analgesia. Our involvement with patients could occur on more than one occasion during the same admission in patients who may require a cesarean delivery on a non-scheduled basis. Outside the number of live births, we are involved in other surgeries on labor and delivery. Categories of other patients and surgeries include late terminations of pregnancy, postpartum tubal ligations, surgery for incompetent cervix, extraction of retained placenta, management of obstetric hemorrhage, and abnormal placentation with or without obstetric hysterectomy. Endoscopic fetal procedures as well as EXIT procedures continue to be part of our practice.

Our core obstetrical (OB) anesthesia group has been credentialed at Nationwide Children’s Hospital so that neonates who require rapid institution of extra-corporeal membrane oxygenation can receive that modality right there after being born. Also, neonates who are identified as having major congenital heart disease who may require cardiac catheterization can be delivered by our team at Nationwide Children’s Hospital. The set up and equipment, as well as protocols for postpartum care of mothers, are in place. An EXIT procedure was performed in the second half of the year successfully and smoothly.

The department’s massive transfusion protocol has been utilized on several occasions in cases that were associated with major postpartum hemorrhage. The protocol has been recently modified in terms of the content of the cooler to contain four units packed cells, four units fresh frozen plasma, and one unit of pooled platelets.

We also kept the residents skilled in performing general anesthesia, although our numbers are small, through simulator training and hands-on experience when opportunities arise.

Labor analgesia is rapidly expanding, and strict protocols for asepsis have been developed. In addition, guidelines for the performance of neuro-axial anesthesia in the obstetric patient have been published on our department’s intranet.

Again, the complexity and acuity of our high-risk cardiac and non cardiac patients provide ample interactions for our residents and nurses. In order to allow some of the lower-risk patients the opportunity to be with their babies, telemetry has been instituted on labor and delivery since May 2010. A core group of obstetric nurses and critical care nurses received in-service training. This step should eliminate the higher utilization percentage in the intensive care unit that was associated with lower patient satisfaction associated with inability to keep babies in intensive care.
Our monthly meeting about high-risk cardiac patients with high-risk obstetricians and cardiologists has become an important part of formulating plans for anesthesia and delivery options, and has been well refined and developed. The meeting is also attended by cardiology nurse practitioners and Ross Heart Hospital nurse practitioners, as well as nurse managers on labor and delivery, to ensure good communication about each patient.

We are fervently seeking to acquire an ultrasound unit of greater quality as we continue to increase our ability to perform ultrasound-facilitated neuroaxial techniques. This technique will be of great value in resident training and will allow us to perform the technique in technically-challenging cases. It has been shown to improve the success rate of trainees in performing those blocks. This year, the technology has been utilized to perform a real-time neuroaxial block on a few occasions, as well as an ultrasound-guided blood patch on a patient with complex post-dural puncture headache.

Resident learning during night shifts continues to be a valuable experience for seniors since they have the opportunity to manage the overall floor with guidance of the on-call OB anesthesia faculty.

As we prepare to have our first obstetric anesthesia fellowship position filled next July, the preparation of space, computers and books has been underway. Our library has been fully updated. We also acquired a new computer for the proposed Fellow’s office space.

2010 – 2011 Goals

One of the goals in patient care for 2011 is the development of a quality sheet for our labor analgesia and anesthesia, as well as for proper post delivery/postoperative follow-up of patients, which is a consistent part of our practice. It is only through thorough follow-up of patients and meticulous attention to even minor complaints that we can continue to provide and grow in excellent patient care.

Protocols

Several clinical protocols have been or are in the process of being developed, which will eventually be posted on our department intranet as well as disseminated to labor and delivery. The protocols outline management of postpartum hemorrhage and Jehovah’s witnesses, as well as provide guidelines regarding Type and Screen versus Type and Cross before scheduled cesarean delivery.

The use of phenylephrine infusions for prevention of hypotension during spinal anesthesia for cesarean delivery continues to be a well-established and standard part of our practice.

A protocol regarding obstructive sleep apnea for obstetric patients following surgery is in its final format. Patient discharge from the obstetric post anesthesia care unit has been clarified and is in effect. Protocols regarding hematological disorders and platelets in regards to regional anesthesia are almost in its final format, as well as an oxytocin protocol for dosing in the operating room following cesarean delivery. More protocols are forthcoming such that a wide range of procedures and practices in labor and delivery have evidence-based direction and would be implemented.

Equipment and Technical Support

- A new ultrasound machine for ultrasound-facilitated neuro-axial anesthesia use was ordered.
- New carts for epidural equipment that will allow medications to be locked will arrive soon.
- New computers were installed on the backstand of each anesthesia station in the operating room.
- All of the laryngoscopes have been replaced with fiberoptic ones.
• Newer airway devices, specifically C-Mac, have been ordered.

**Education**

**2009 – 2010 Highlights and Accomplishments**

The Department of Anesthesiology struggles to get protected time for residents for didactics, although a lot gets done through short sessions and provision of reading material on the OB anesthesia web folder on the network. The Department of Anesthesiology also does a lot of board questions and oral board case discussion formats. A great resource for OB anesthesia faculty and residents is sharing with obstetric colleagues’ board sign outs. This provides an opportunity for learning, excellent interaction and communication.

The residents presented at least six posters at the Society for Obstetric Anesthesia and Perinatology’s 42nd annual meeting in St Antonio in May 2010. Tyler Burnett, MD won second place for best case presentation on “Local anesthetic infiltration for cesarean section in a patient with spinal muscular atrophy type II.”

Two of the department’s residents pursued obstetric anesthesiology fellowships in 2010. This is our biggest reward for all the effort, work and enthusiasm that we put into this part of our practice. They will join our department this coming July and this step ensures that we have new, young enthusiastic physicians who will promote our subspecialty in the areas of research, education and clinical work.

**John Coffman, MD** has joined the fellowship program at University of Alabama and has been a star in initiating an organized educational program for the Fellows as well as introducing evidence-based practice in different areas that we execute at OSUMC labor and delivery. He will be joining our core OB anesthesia group this coming July.

**Feyce Peralta, MD** joined the OB fellowship program at Northwestern University in Chicago and has been described as exceptional by Cynthia Wong, MD, who is part of the most prominent group of obstetric anesthesiologists in the country. Dr. Peralta had the opportunity to be involved in research as well as clinical activities, and will be joining Ohio State’s Department of Anesthesiology in July.

**Fellowship**

**Mara Grossman, MD**, who will graduate in June 2011, will be the first obstetric anesthesia Fellow in the Department of Anesthesiology’s new fellowship program. The OB anesthesia fellowship will be accredited by the Accreditation Council for Graduate Medical Education (ACGME) before her fellowship begins.

Dr. Grossman was highly instrumental in the resuscitation of a near fatal amniotic fluid embolism in a patient in February 2010. The survival of this patient with minimal neuro deficits is credited to the exemplary care and teamwork of all involved in her care, as well as her transport to the Ross Heart Hospital, where cardiopulmonary bypass was instituted. The timely delivery of the baby resulted in a healthy baby and facilitated resuscitation of the mother from this serious complication.

It has been a very exciting year of practice at Ohio State, especially with the implementation of crew resource management in other places in the medical center. The Department of Anesthesiology is already in the game, staying ahead and practicing team principles and patient safety practices in a very unique environment where there is never a dull moment.
Off Site Anesthesia Services

David O. Yablok, MD
Assistant Professor Clinical
Director, Off Site Anesthesia

Education

2009 – 2010 Highlights and Accomplishments

Off site anesthesia is a scheduled rotation for the residents in the CA-1 year. Every resident now has at least one month of clinical experience specifically in the off site areas.

2010 – 2011 Goals

Continuation of the first year rotation with the inclusion of a formal education program.

Clinical

2009 – 2010 Highlights and Accomplishments

The off site anesthesia program continues to grow in both volume and number of distinct locations. Currently, our department provides anesthesia services at up to five sites simultaneously throughout the health center.

Efficiency has been greatly improved by adding recovery areas in closer proximity to the locations of service.

2010 – 2011 Goals

The goal for the coming year is continued growth.
Post Anesthesia Care Unit

Thomas J. Smith, MD
Assistant Professor Clinical
Director, PACU
Section Director, Regional Anesthesia, University Hospital

Research

2009 – 2010 Highlights and Accomplishments

Chart reviews of patients who possessed criteria for obstructive sleep apnea (OSA), or were diagnosed with OSA, were completed in the post anesthesia care unit (PACU) within the last year. This review assessed physician awareness of high-risk individuals and helped create screening questions and order sets to improve patient care.

2010 – 2011 Goals

Continue to encourage and foster interest among the anesthesia faculty, residents and nurses to pursue research ideas and become active in current and ongoing research projects.

Education

2009 – 2010 Highlights and Accomplishments

A daily reading schedule including chapters, journals, and reviews has been implemented in order to strengthen the educational value of the PACU rotation. A PACU packet is distributed at the beginning of the rotation to help guide the residents to meet the goals and objectives of the rotation. The PACU attending for the day meets with the rotating residents for lecture sessions and provides bedside clinical teaching.

2010 – 2011 Goals

A PACU rotation pre-test and post-test is currently in development and will be implemented in spring of 2011. The residents will be choosing a topic pertinent to patient care in the PACU and develop a presentation using evidence-based medicine and literature reviews. The addition of off-site recovery areas has increased the need for nursing education in phase one and phase two of recovery from anesthesia, which will be met with presentations geared towards these specific criteria.

Clinical

2009 – 2010 Highlights and Accomplishments
There has been a heightened awareness for OSA in our patient population across all areas of patient care, including the residents, nurses and attending physicians. Specific order sets for OSA have been made readily available to further enhance patient care and safety. OSA screening questions have been added to the anesthesia history and physical, which helps facilitate awareness about special needs and monitoring during the intraoperative and postoperative course. Several off-site recovery areas have been added to further enhance patient care and aid in the recovery process, thus decreasing the need to transport patients a lengthy distance after a general anesthetic.

2010 – 2011 Goals

Continue to provide exceptional care to postoperative patients and help decrease morbidity and mortality among this population by identifying high-risk individuals for OSA and implementing the appropriate protocols and safety measures during recovery. Constantly pursue changes and improvements in patient care that will lead to an expedited recovery and a decrease in morbidity and mortality.

Regional Anesthesiology

Babak Khabiri, DO
Assistant Professor
Clinical Director, Regional Anesthesia

John A. Norton, DO
Assistant Professor
Clinical Fellowship Director

Research

2009 – 2010 Highlights and Accomplishments

The Division of Regional Anesthesiology continued its active research involvement. Currently, the division faculty are involved in numerous research protocols and are actively enrolling patients. Among the studies in progress, the division is exploring best methods to control postoperative pain using ultrasound-guided perineural catheters and the use of adjuncts for prolonging peripheral nerve blocks. The collaborative relationship of the division is evident by carrying out some of these studies in conjunction with members of the Department of Orthopaedics.

2010 – 2011 Future Goals

The division hopes to complete the studies in progress and publish the results in 2011 while undertaking new clinical studies.

Education

2009 – 2010 Highlights and Accomplishments

The division played an active role in the Ohio Society of Anesthesiologists, with members of the division giving presentations and serving as workshop faculty for the regional anesthesiology workshops. The division faculty served as advisors for the many abstracts that were presented at regional and national meetings.
2010 – 2011 Future Goals

A future goal is to continue to precept practicing anesthesiologists from around the region who come to learn about ultrasound guidance in regional anesthesiology and the use of perineural catheters for postoperative pain management.

Fellowship

The division established a regional anesthesiology fellowship and recruited Fellows for the next two years. John A. Norton, DO will serve as the fellowship director.

Clinical

2009 – 2010 Highlights and Accomplishments

The division continues to provide clinical care at multiple locations within The Ohio State University Medical Center, including the newly-opened Eye & Ear Institute. The division continues to be a leader in acute postoperative pain management by providing an inpatient and outpatient continuous perineural catheter service. The acute pain service serves as a model for anesthesiologists who wish to implement a similar service in their practice.

Transplant Anesthesia

David O. Yablok, MD
Assistant Professor Clinical
Director, Off Site Anesthesia

Research

2010 – 2011 Goals

As the patient volume increases, research activities will be explored both anesthesiology-specific and multidisciplinary.

Education

2009 – 2010 Highlights and Accomplishments

Liver transplant is now a scheduled call rotation for residents, mostly in the CA-1 year.

2010 – 2011 Goals
As the clinical volume increases, more educational opportunities will be incorporated into the resident experience. The goal is for all residents in our program to have experience and a comfort level with liver transplant anesthesia.

**Clinical**

*2009 – 2010 Highlights and Accomplishments*

The liver transplant program at The Ohio State University Medical Center has experienced growth and improved outcome. Anesthesia care is provided by a rotating team of three anesthesiologists and residents who are on call.

*2010 – 2011 Goals*

Goals for the coming year include increased volume and increased outcome based on the metrics of improved patient survival and decreased blood product usage as compared to national benchmarks. We also plan to introduce new technologies to improve efficiency.
Certified Registered Nurse Anesthetists (CRNAs)

Charles E. Martin
Chief CRNA

Research

There are opportunities for certified registered nurse anesthetists (CRNAs) to participate in research at The Ohio State University Medical Center.

Education

SRNA Program

The Ohio State University Medical Center has been a clinical site for Student Registered Nurse Anesthetists (SRNAs) from the University of Akron’s nurse anesthesia program since 2006. Through a joint agreement with the University of Akron, one to four SRNAs per month rotate at Ohio State while completing their didactic training at the University of Akron. The SRNAs have the opportunity to perform clinicals anywhere that the CRNAs are utilized at Ohio State, including University Hospital, The James Cancer Hospital, Richard M. Ross Heart Hospital, University Hospital East, and the OSU Eye & Ear Institute.

Clinical

2009 – 2010 Highlights and Accomplishments

- Ohio State consists of 68 part- and full-time Certified Registered Nurse Anesthetists (CRNAs).

- CRNAs work in a number of settings and provide anesthesia throughout the patient care services of Ohio State, including University Hospital, The James Cancer Hospital, Richard M. Ross Heart Hospital, University Hospital East, and the OSU Eye & Ear Institute.

- CRNAs perform a variety of cases, including heart, neurosurgery, and obstetrics, as well as robotic surgeries.

2010 – 2011 Goals

We anticipate the completion of the ProjectONE $1 billion expansion project, which will serve as the new home of the Arthur G. James Cancer Hospital and Richard J. Solove Research Institute and a new Critical Care Center, and all of the opportunities it will bring.
Ohio State will add six new employees from Florida to North Carolina to Ohio over the course of the year.
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