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Serving Anesthesiology, Advancing Medicine

Twenty-five years ago, the American Society of Anesthesiologists established the Foundation for Anesthesia Education and Research to facilitate continuous improvements in anesthesiology by fostering education, research and scientific progress in the field. Since that time, FAER has grown to become a premier organization that serves the specialty in many ways.

Funding Discovery & Innovation

One of FAER’s primary functions is to provide research grant funding to anesthesiologists interested in pursuing careers as physician investigators.

In the early years of the foundation’s 25-year history, FAER funded Research Starter Grants and New Investigator Awards. These awards have evolved into today’s Mentored Research Training Grants, Research in Education Grants and Research Fellowship Grants. FAER awarded 14 research grants in 2011. These awards totaled $1.76 million.

Educating Students and Scholars

The Resident Scholar Program has been an integral part of FAER since 1989. Over the years, the program has provided funding for more than 1,000 residents to attend the ASA annual meeting — 62 residents participated in 2011. Many resident scholars find the experience valuable and leave the meeting with a renewed passion for academic anesthesiology.

The 56 students who participated in the Medical Student Anesthesia Research Fellowship program in 2011 brought great vitality and energy to the specialty. The MSARF program attracts talented medical students to research careers in academic anesthesiology and perioperative medicine. Through an eight-week summer program, MSARF participants experience research and training activities, and are introduced to clinical anesthesia, at their host departments.

Advancing Medicine Today & Tomorrow

As the grants and programs have evolved and expanded over the past 25 years, FAER’s commitment to its mission has grown stronger. Advancing medicine through research and education in anesthesiology is the core principle that makes FAER successful and allows us all to serve the specialty.

To the individuals, anesthesiology departments, subspecialty and component societies, corporations, foundations and other organizations that supported FAER through financial contributions in 2011, thank you. Because of your help, we can continue to fund discovery and innovation.

The careers of many of the foundation’s supporters, friends and beneficiaries have provided an incalculable service to anesthesiology and the specialty’s advances over the past 25 years. We are achieving a critical mass of talented investigators who collectively have carried the discipline to the forefront of health care delivery. Enjoy reflecting on the highlights of 2011 and recollections of FAER’s 25-year journey.

Sincerely,

James R. Zaidan, MD, MBA
Board Chair

Denham S. Ward, MD, PhD
President
Anesthesia Research Grants

The Foundation for Anesthesia Education and Research has been providing grant funding for anesthesiologists to train in basic science, clinical and translational, and in education research for the past 25 years. In 2011, 14 individuals received FAER grants and joined the group of more than 430 anesthesiologists who have received grant funding from the foundation since 1986, as well as the more than 100 investigators who received funding from ASA prior to the establishment of FAER.

- The Research Fellowship Grant (RFG) is a one-year, $75,000 grant for anesthesiology residents after CA-1 year. The RFG is awarded in conjunction with clinical training in an anesthesiology residency or fellowship program.
- The Mentored Research Training Grants (MRTG): Basic Science or Clinical and Translational are two-year, $175,000 grants for faculty members who have completed their residencies or fellowships within the past 10 years. The MRTG aims to develop the skills and preliminary data anesthesiologists need to become competitive, independent investigators.
- The Research in Education Grant (REG) is a two-year, $100,000 grant for junior or senior faculty members that is focused on developing innovative techniques for anesthesia education.

2011 Grant Recipients

Research Fellowship Grants

Kenneth T. Sykes, MD, PhD
Washington University School of Medicine
“The Effect of mGluR5 Positive Allosteric Modulator CDPPB on Nociceptive Sensitivity in Mice”
Mentor: Robert W. Gereau, PhD

Ruth S. Waterman, MD, MSc
Ochsner Clinic Foundation
“Immunosuppressive Mesenchymal Stem Cells (MSC2): A New Treatment for Diabetic Peripheral Neuropathy”
Mentor: Aline M. Betancourt, PhD

Find more information on research grants online at FAER.org:
View information about grant requirements and find information on how to apply.
Read success stories from former FAER grant recipients.
Mentored Research Training Grants

Rebecca A. Aslakson, MD, MSci
Johns Hopkins University
MRTG: Clinical/Translational Research
“Crafting a Palliative Care Intervention for Surgical Intensive Care Unit Patients”
Mentor: Peter J. Provonost, MD, PhD

Patricia R. Bachiller, MD
Massachusetts General Hospital
MRTG: Basic Science Research
“Mechanisms of TGFbeta Modulation of Development in the Injured Newborn Lung”
Mentor: Jesse D. Roberts Jr., MD

Frederic T. (Josh) Billings IV, MD, MSCI
Vanderbilt University Medical Center
MRTG: Clinical/Translational Research
“The Effect of Atorvastatin on Renal Oxidant Injury in Patients Undergoing Cardiac Surgery”
Mentor: Nancy J. Brown, MD

William R. Hartman, MD, PhD
Mayo Clinic Rochester
MRTG: Basic Science Research
“Brain-Derived Neurotrophic Factor in Hypoxia-Induced Pulmonary Hypertension”
Mentor: Y.S. Prakash, MD, PhD

Daryl J. Kor, MD
Mayo Clinic Rochester
MRTG: Clinical/Translational Research
“Risk Prediction and Mechanistic Evaluation of Postoperative Acute Lung Injury”
Mentor: Ognjen Gajic, MD, MSc

Mark D. Neuman, MD, MSc
University of Pennsylvania Medical Center
MRTG: Clinical/Translational Research
“Anesthesia Technique and Outcomes After Hip Fracture: Instrumental Variable Analysis”
Mentor: Jeffrey H. Silber, MD, PhD

Arvind Palanisamy, MD, FRCA
Brigham and Women’s Hospital
MRTG: Basic Science Research
“Fetal Neurodevelopment after Maternal Anesthesia”
Mentor: Gregory J. Crosby, MD

Christopher G. Ward, MD
Cincinnati Children’s Hospital Medical Center
MRTG: Basic Science Research
“Role of Neuronal Maturation in Anesthesia-Induced Apoptosis”
Mentor: Andreas W. Loepke, MD, PhD, FAAP

Research in Education Grants

Carol Ann B. Diachun, MD
University of Rochester Medical Center
“Development and Evaluation of Academic Electronic Portfolio for Anesthesia Faculty”
Mentor: Constance D. Baldwin, PhD

Herodotos Ellinas, MD
Medical College of Wisconsin
“Can Identification of Personality Types and High Fidelity Simulation Training Improve Clinical Daily Practice?”
Mentor: Kathryn K. Lauer, MD

Matthew D. McEvoy, MD
Medical University of South Carolina
“Effects of a Novel Cognitive Aid and Team Communication Model on Protocol Adherence During In-Situ Simulated Perioperative Emergencies”
Mentor: Jerry G. Reves, MD

Nelson R. Riveros-Perez, MD
Cleveland Clinic
“Evaluation of Multisource Feedback in Professionalism for Anesthesia”
Mentor: Stephen J. Kimatian, MD
MRTG: Funding Leads to NIH Grant

Tobias Eckle, MD, PhD, Associate Professor in the Department of Anesthesiology, Preoperative Care and Pain Medicine at the University of Colorado Health Science Center, received a Mentored Research Training Grant from FAER in 2008 to study “Myocardial Ischemic Preconditioning through Hypoxia Inducible Factor (HIF)-1α.” Dr. Eckle wrote in his cover letter to the final report:

“This grant has provided me with substantial support in establishing my basic science laboratory here in Denver. Thus, I was able to obtain a National Scientist Development Grant from the American Heart Association (AHA) and a NIH-K08 grant from the National Heart, Lung and Blood Institute (NHLBI). My NIH K08 award obtained an extremely high score of 20 and was therefore funded after first-time submission. Such success was definitively only possible by getting familiar with the whole application process of a peer reviewed grant as the FAER MRTG.”

For this study, Dr. Eckle looked at the role of HIF-1α, which plays an ubiquitous role in the oxygen sensing pathway in many cells and is perhaps best known for its roles in the kidney where it activates the gene that encodes for erythropoietin in response to anemia. HIF-1α also controls the induction of cardiac A2B adenosine receptors during ischemia. Using a mouse model, they have found a critical role for cardiac A2B adenosine receptors in mediating the protective effects of ischemic preconditioning. Dr. Eckle and his mentor, Holger K. Eltzschig, MD, PhD, published a review in *Nature Medicine* (17(11): 1391-1401, 2011) on ischemia and reperfusion.

REG: Work Continues through RO1 Funding

In 2011, James Fehr, MD, Associate Professor of Anesthesiology and Pediatrics, Department of Anesthesiology, Washington University School of Medicine, submitted his final report for his Research in Education Grant on “Skills in Pediatric Anesthesia: A Simulation-Based Assessment Program,” which he received in 2009. As he wrote in his report:

“I thank the Foundation for Anesthesia Education and Research for the opportunity to develop this project. This has been a transformative period in my career, which would not have been possible without the generous support of FAER. Simulation-based education and assessment offers an additional modality for performance-based credentialing of resident competence in managing anesthetics for children. Ultimately, this approach could be used to assess competence and as a result have an impact on how other pediatric specialists assess the skills and performance of physicians who care for children.”

Dr. Fehr published some of this work in *Anesthesiology* (115(6):1308-15, 2011), illustrating how the multi-scenario simulations they developed had high-interrater reliability and correlated with the clinical experience of the examinee. The use of such valid scenarios in multiple programs will greatly improve the teaching and assessment of pediatric anesthesia. Dr. Fehr is continuing this work by being a co-investigator with David J. Murray, MD, his mentor and a former FAER grant recipient, on an RO1 grant from the Agency for Healthcare Research and Quality: “Teamwork, Communication and Decision Making: An Assessment Program Using Simulation.”
Resident Scholar Program

FAER started the Resident Scholar Program in 1989, and the program has been growing ever since. As FAER Resident Scholars, CA-2 residents from anesthesiology departments across the country attend the ASA annual meeting each year. The program aims to encourage attendees to enter into academic anesthesiology and to become educators in the future.

In 2011, 62 residents attended the annual meeting as a part of the FAER program. This brought the total number of resident scholars to date to 1,020. Seven anesthesiology departments participated for the first time this year. These residents experienced many facets of ANESTHESIOLOGY 2011, including the FAER Academy of Research Mentors in Anesthesiology workshop, the Celebration of Research activities and the ASA House of Delegates meeting. Abbott Laboratories co-sponsored the 2011 Resident Scholar Program.

“My experience as a FAER Resident Scholar introduced me to many leaders in academic anesthesiology and renewed my interest in an academic career. It was an amazing opportunity to network with anesthesiologists and resident colleagues from across the country. The program exposed us to the exciting work that can be done as a physician scientist or as a physician educator, as well as some of the current issues facing our field.”

– Engy Hanna, MD, 2011 Resident Scholar, Dartmouth Hitchcock Medical Center

“The FAER Resident Scholar experience was a great opportunity for me to attend, as it gave me a pathway to follow to become an advocate of education in the world of anesthesia for my peers and patients. … The exposure to the ASA conference provided an overwhelming amount of information and resources for me to take home to share with my colleagues.”

– Will Chan, MD, 2011 Resident Scholar, University of Cincinnati Medical Center

“My experience as a FAER Resident Scholar will definitely have a lasting impression. It was exciting to meet other residents from anesthesiology programs from across the country, and it was definitely an introduction to the small world of anesthesia. It was interesting to hear what others experienced during residency, novel education programs that they were a part of, and the various methods of incorporating research into an already challenging residency. The relationships formed and contacts made through this program enable the sharing of ideas across the country and collaboration to be endless. I know that one day I will see colleagues who I met through FAER as authors of text books, literature and serving as leaders in the field.”

– A. Morgan Lasater, MD, 2011 Resident Scholar, University of North Carolina Hospitals

Learn more about the Resident Scholar Program online at FAER.org:

View the complete list of 2011 FAER Resident Scholars.
Find details about program requirements and events.
Make a contribution to support the program.
Medical Student Anesthesia Research Fellowship Program

The Medical Student Anesthesia Research Fellowship program encourages talented medical students to consider careers in academic anesthesiology and perioperative medicine. Through an eight-week summer program, MSARF participants experience research and training activities, and are exposed to clinical anesthesia, at their host departments. The capstone of the medical student fellowship is the MSARF Symposium at the ASA annual meeting each year.

Fifty-six medical students participated in the MSARF program in 2011. Three of those students shared their stories with FAER. The Ronald L. Katz Family Foundation, Valley Anesthesiology Foundation and B. Braun, among many individuals and anesthesiology departments, provided financial support for the 2011 MSARF Program.

An Invaluable Experience

Brian Ebert, a second-year medical student at Arizona College of Osteopathic Medicine/Midwestern University, visited the University of Utah for his eight-week anesthesia research fellowship, supported by FAER. At the University of Utah, he met Harriet W. Hopf, MD, and Sean Runnels, MD, who mentored him throughout the program, teaching him the principles of academic research in anesthesiology. Ebert says of his MSARF experience:

“Coming from a medical school that does not have its own anesthesiology residency program, my experience with MSARF was absolutely invaluable. I was able to interact with an anesthesiology program and learn things about the field that I otherwise never would have been exposed to. My summer experience with FAER has made me a more well-rounded medical student and has better prepared me for residency training. MSARF transformed my interest in anesthesiology into a desire to pursue it as a career.”

Find more online at FAER.org:

View the complete list of 2011 FAER MSARF participants.
See more photos from the 2011 MSARF Symposium.
Make a contribution to support the program.
Challenging & Rewarding Research
After completing her first year of medical school at Medical University of South Carolina, Meaghan Neill, PhD, attended Vanderbilt University for her MSARF experience. At Vanderbilt, Neill had the opportunity to integrate her background in research with new approaches to cost-benefit analyses in pediatric cardiac anesthesia. Having her PhD in human genetics, Neill was exposed to many avenues of potential applications of pharmacogenomics research to directly benefit patient care. Neill says of her MSARF experience:

“My MSARF mentors showed me that anesthesiologists deliver excellent patient care for surgical intervention from the pre-operative period through immediate post-operative time points. They taught me that empathy and genuine concern for each individual patient was the greatest attribute of an anesthesiologist; a quality that I aspire to emulate when I am in that role. … I had an incredibly challenging and rewarding research and clinical experience through the FAER program, and came out of it inspired for a career in anesthesiology.”

First Exposure to Research
During the MSARF Symposium, Shyamal Asher presented his poster, “Survival Advantage and PaO2 Threshold in Severe Traumatic Brain Injury,” work from his MSARF experience at the University of Washington. Asher, a recent graduate of Alpert Medical School at Brown University, and his mentor at the University of Washington, Monica Vavilala, MD, worked closely together over the summer. Asher says of his MSARF experience:

“The FAER MSARF experience was one of the most rewarding during medical school. It provided me with my first exposure to research in anesthesiology. This allowed me to gain insight into the critical thinking involved in formulating and testing hypotheses. I have come to appreciate the potential impact of research on the clinical care of patients. In addition, I learned that anesthesiologists have an important and diverse role to play in the clinical setting.”
The FAER Academy of Research Mentors in Anesthesiology facilitates the development of educational and research programs for junior faculty members, and supports faculty in mentoring roles. The academy is a resource for the development of mentors and role models in academic anesthesia. Academy members include academic anesthesiologists and others who have demonstrated outstanding contributions to the development of anesthesiologist investigators.

In 2011, the academy welcomed three new members: Harriet W. Hopf, MD, University of Utah; Margaret Sedensky, MD, University of Washington; Zhiyi Zou, MD, PhD, University of Virginia.

The academy hosts a workshop at the ASA annual meeting each year. At ANESTHESIOLOGY 2011, the workshop, “The Pathway to Federal Funding for New Investigators,” highlighted approaches for beginner investigators to acquire federal funding for their training and research. A panel of physician scientists and NIH program personnel presented their perspectives. The panel included: David S. Warner, MD; Alison E. Cole, PhD; Thomas P. Jacobs, PhD; Claudia Scala Moy, PhD; Seetha Bhagavan, PhD. The moderators were Roderic G. Eckenhoff, MD, and William L. Young, MD.

Since 2009, the academy has presented the FAER Mentoring Excellence in Research Award to a mentor who has demonstrated success in developing mentees. This award was created to ensure that the value of mentorship is recognized and to encourage, develop and retain outstanding mentors in the specialty. The 2011 recipient was Michael J. Joyner, MD. Dr. Joyner is the Frank R. and Shari Caywood Professor of Anesthesiology at Mayo Clinic in Rochester, Minnesota.

FAER Board Chair James R. Zaidan, MD, MBA, presented the 2011 Mentoring Excellence in Research Award to Michael J. Joyner, MD, during the Celebration of Research at the ASA annual meeting.

Find more information on mentorship online at FAER.org:
Celebration of Research at Anesthesiology 2011

FAER sponsors special scientific activities at the ASA annual meeting each year, in partnership with *Anesthesiology*, the journal of the ASA. As a part of the Celebration of Research, the FAER Honorary Research Lecture and the FAER Panel promote the important role anesthesia education and research plays in helping the specialty thrive.

Eleventh Annual FAER Honorary Research Lecture

The FAER Honorary Research Lecture recognizes outstanding scholarship by an anesthesiologist and encourages other anesthesiologists to undertake careers in research and teaching. The 2011 Honorary Research Lecturer was Michael J. Joyner, MD, the Frank R. and Shari Caywood Professor of Anesthesiology at Mayo Clinic in Rochester, Minnesota.

Dr. Joyner’s lecture was titled “Putting the Gene-ie Back in the Bottle: Is the Relevance of ‘Omics’ Limited in Biomedical Research?” During the lecture, Dr. Joyner discussed the continuing relevance of integrative physiology and epidemiology in addressing major health issues. He also explored the role of serendipity in biomedical progress and considered the recent enthusiasm for “omics” in a broader historical perspective.

A 1989 FAER grant recipient, Dr. Joyner has been continuously funded by the National Institutes of Health since the early 1990s. His research interests focus on cardiovascular control in conscious humans, and he is especially interested in the interaction between local vasodilator signals, sympathetic vasoconstriction and the regulation of arterial pressure. Dr. Joyner is a recognized expert on athletic performance and the physiology of world records. He serves in numerous leadership roles at Mayo Clinic, is a member of the FAER Academy of Research Mentors in Anesthesiology and received the 2011 FAER Mentoring Excellence in Research Award.

FAER Panel

The 2011 FAER Panel discussed “The Role of Research in Improving Patient Outcomes in a Cost-effectiveness Environment.” Ronald G. Pearl, MD, PhD, Professor and Chair of Anesthesia at Stanford University, and FAER board member, moderated the panel.

The panel included four speakers who are experts in cost-effectiveness or patient outcomes research. They explored the importance of this research, the challenges of this research and the unique opportunities for such research in the era of health care reform. Panelists included:

**Hannah Wunsch, MD**  
Assistant Professor of Anesthesiology, Columbia University, New York  
“Outcomes Research in Clinical Care”

**Kevin K. Tremper, MD, PhD**  
Professor and Chair of Anesthesiology, University of Michigan, Ann Arbor, Michigan  
“Role of Anesthesia Databases in Cost-effectiveness and Outcomes Research”

**Alex Macario, MD, MBA**  
Professor of Anesthesiology, Stanford University, Stanford, California  
“Cost-effectiveness Research and Operating Room Management”

**Jeffrey H. Silber, MD, PhD**  
Center for Outcomes Research, University of Pennsylvania Children’s Hospital, Philadelphia, Pennsylvania  
“Measuring Quality of Care in Surgery and Anesthesia”

**Ronald G. Pearl, MD, PhD, Professor and Chair of Anesthesia at Stanford University, and FAER board member**
For the past 25 years, the service of individuals such as William Hamilton, MD, our first board president, the financial support of donors such as Gertie Marx, MD, who remembered FAER in her estate, and the passion of the countless medical students, residents and physicians who dedicate themselves to the field of anesthesia have all contributed greatly to the success of FAER.

Our achievements, however, were preceded by several important events. In 1972, the ASA established a committee on research with a distribution budget of $10,000. In addition, the Parker B. Frances Foundation of Kansas City, Missouri, funded young investigators focused on research in anesthesiology. When the ASA established the Burroughs Wellcome Foundation Research Fellowship in 1980, researchers in anesthesia received further financial support. But it wasn’t until 1985, when Peter McDermott, MD, PhD, with the support from Clifford Parish of the Burroughs Wellcome Foundation, proposed the establishment of a separate, tax-exempt organization, that the first real conversations about what would eventually become FAER took place.

Those conversations concluded October 21, 1986, when the ASA House of Delegates approved the formation of the Foundation for Anesthesia Education and Research. The goal of FAER would be to facilitate continuous improvements in anesthesiology by fostering and encouraging education, research and scientific progress in anesthesiology.

Recount now the 25 great years of FAER and service to the specialty.

1986
- The ASA House of Delegates establishes the Foundation for Anesthesia Education and Research (FAER) to facilitate continuous improvements in anesthesiology by fostering and encouraging education, research and scientific progress.
- ASA, the Burroughs Wellcome Foundation and the Parker B. Frances Foundation each provide funding to create FAER.
- Nine anesthesiologists serve as the founding board members of FAER, including William Hamilton, MD, elected as the first board president in 1987.

1987
- FAER’s first board of directors meeting is held in Chicago.
- FAER awards its first research grants.

1988
- Martin Helrich, MD, is appointed FAER’s first executive director.
- The FAER endowment fund is established.
1989

- FAER receives its first bequest from Gertie Marx, MD. The funds are earmarked to support obstetrical anesthesia and maternal welfare.
- The FAER Advisory Board is formed. Representatives from corporations who actively support anesthesiology now contribute to the strategic direction of FAER.
- FAER initiates the Annual Meeting Resident Scholar Program, which provides funds for residents in anesthesiology to attend the ASA annual meeting each year.

1990

- FAER awards its first Educational Grant. The funds help Kevin B. Gerold, DO, JD, MA, pursue his research study “Computer-based Instruction in Anesthesiology” at the University of Maryland Medical System. Dr. Gerold now serves as an assistant professor and attending physician in the Department of Anesthesiology at Johns Hopkins.

1991

- The FAER endowment fund exceeds $1 million.
- FAER establishes the Research Fellowship Grant program.

1993

- Research activity supported by FAER during the year exceeds $1 million.

1995

- Under the new leadership of Alan D. Sessler, MD, the FAER office moves to Rochester, Minnesota, from Baltimore, Maryland.

1996

- The FAER endowment fund reaches $5 million, allowing FAER to initiate the Clinical Research Starter Grant program, developed to foster patient-oriented research.
25th Anniversary

Legacy of Leadership

FAER Board of Directors, Presidents and Chairs

William K. Hamilton, MD  1987 – 1989
Alan D. Sessler, MD  1989 – 1992
Donald R. Stanski, MD  1992 – 1993
Patricia A. Kapur, MD  1993 – 1994
Francis M. James III, MD  1995 – 1998
Carl C. Hug, Jr., MD, PhD  1998 – 2001
Myer H. Rosenthal, MD  2001 – 2004
Joanne M. Conroy, MD  2004 – 2006
D. David Glass, MD  2007 – 2008
Denham S. Ward, MD, PhD  2009 – 2011
James R. Zaidan, MD, MBA  2011

FAER Staff Leadership

Martin Helrich, MD  1988 – 1995
Alan D. Sessler, MD  1995 – 2011
Denham S. Ward, MD, PhD  2011

1997

- The Research in Education Grant program, for research focused on developing innovative techniques for education anesthesiologists, begins.

1999

- The FAER endowment fund grows to $11 million.

2001

- Debra A. Schwinn, MD, gives the first-ever FAER Honorary Research Lecture, “Thinking Out of the Box – Anesthesiology Research in the 21st Century.” The lecture series recognizes outstanding scholarship by an anesthesiologist and encourages other physicians to undertake careers in research and teaching.

2002

- FAER Board of Directors approves a multi-year strategic plan to create a higher level of program funding and communication.

2004

- The FAER anesthesia leadership retreat is held in Chicago with representatives from ABA, ASA, AUA, RRC, AAPD/SAAC and FAER to discuss strategies for resolving professional issues, strengthening academic anesthesiology and tactics to transform the specialty.

- FAER establishes the Academy of Research Mentors in Anesthesiology to facilitate the development of mentors in the specialty. The Mentored Research Training Grant program also begins.

John P. Kampine, MD, PhD, was influential in establishing the FAER Academy of Research Mentors in Anesthesiology.
The Medical Student Anesthesia Research Fellowship (MSARF) program begins, providing summer research opportunities to 14 medical students in its first year. Paul Garcia, MD, PhD, is among those students. Dr. Garcia would go on to receive a FAER Resident Scholar Grant in 2008 and complete his residency in anesthesiology at Emory University in 2010. He now runs a Neuroanesthesia Laboratory at Emory.

ASA celebrates its centennial anniversary. Funds raised during the ASA Centennial Gala, a hugely successful event, benefit the ASA foundations, including FAER.

FAER receives a legacy gift from the estate of Bruce Shepard, MD. FAER and ASA continue their strong relationship. Since the founding of FAER, ASA has contributed $20 million to FAER, and FAER has given out more than $20 million in grants.

FAER’s Academy of Research Mentors in Anesthesiology launches the FAER Mentoring Excellence in Research Award, honoring David Warltier, MD, PhD, as their first awardee.

The FAER endowment fund approaches $20 million. The FAER board makes a 10-year pledge of $1 million to establish the Fund for the Future.

FAER celebrates its 25th anniversary. Denham S. Ward, MD, PhD, succeeds Alan D. Sessler, MD, as president of FAER. FAER awards $1.76 million in research grants. The Board of Directors commits more than $300,000 to the Fund for the Future. FAER recognizes donors who plan to remember the foundation in their estate plans through the FAER Legacy Society.
25th Anniversary

Marking a Major Milestone

Together over the past 25 years, the Foundation for Anesthesia Education and Research and its supporters have built a lasting organization whose essence is to improve the specialty through education, research and leadership development. During the 25th anniversary event at the Fairmont Hotel in Chicago on October 14, FAER leadership and friends celebrated many of the foundation’s accomplishments over the past quarter-century. The event paid tribute to Alan D. Sessler, MD, who dedicated years of his career to FAER and has contributed greatly to the foundation’s success. Dr. Sessler received the title of president emeritus of FAER and introduced Denham S. Ward, MD, PhD, as the incoming president of the foundation.

FAER owes a special thanks to the American Society of Anesthesiologists, its subspecialty partners and the other ASA foundations for their leadership and support over the years.

David L. Brown, MD, Cleveland Clinic, FAER board member; Aubrey Maze, MD, Valley Anesthesiology Consultants, past FAER board member; Mervyn Maze, MD, MB CHB, MRCP, University of California-San Francisco, FAER board member

Zeev N. Kain, MD, MBA, MA (Hon), University of California Irvine; Jan Ehrenwerth, MD, Yale University; Neil Swissman, MD, Summit Anesthesia Consultants

Brett A. Simon, MD, PhD, Beth Israel Deaconess Medical Center; Elizabeth Martinez, MD, Massachusetts General Hospital; Denham S. Ward, MD, PhD, FAER president; Nikki J. Zapol, JD, Partners Healthcare, FAER board member; Warren M. Zapol, MD, Massachusetts General Hospital; Richard P. Dutton, MD, MBA, Anesthesia Quality Institute, FAER board member

Donn M. Dennis, MD, FAHA, University of Florida College of Medicine, FAER board member; Kayser F. Enneking, MD, University of Florida Medical Center; James R. Zaidan, MD, MBA, Emory University, FAER board chair; Timothy E. Morey, MD, University of Florida Medical Center
25th Anniversary

John R. Moyers, MD, University of Iowa; Casey D. Blitt, MD, Anesthesia Patient Safety Foundation; Bruce F. Cullen, MD, University of Washington, past FAER board member

Frank Moya, MD, Frank Moya Continuing Education Programs; Bruce F. Cullen, MD, University of Washington, past FAER board member; Miriam E. Cullen; Joan McNulty

Joseph P. Annis, MD, FAER board member; Peggy Annis; Carl C. Hug Jr., MD, PhD, Emory University, past FAER board member

Robert K. Stoelting, MD, Anesthesia Patient Safety Foundation; Richard P. Dutton, MD, MBA, Anesthesia Quality Institute, FAER board member

Carol Otto; Alan D. Sessler, MD, FAER president emeritus; Ronald Szabat, JD, LLM; John P. Abenstein, MD, Mayo Clinic Rochester; Carol Hannenberg, MD

Glenn Johnson, past FAER board member; Alan D. Sessler, MD, FAER president emeritus; Alexander A. Hannenberg, MD, Newton-Wellesley Hospital, FAER board member
25th Anniversary

Putting the ‘Merit’ in ‘Emeritus’

Honoring the Leadership of Alan D. Sessler, MD

For the Foundation for Anesthesia Education and Research, 2011 marked many milestones. As FAER celebrated 25 years, it also celebrated the leadership and innumerable accomplishments of Alan D. Sessler, MD.

A founding member of the FAER Board of Directors, Dr. Sessler served as the foundation’s executive director/president from 1995 to 2011. During his years of leadership, he built a highly respected anesthesia research grant program, which has helped launch the careers of many leading investigators in the field. He was also instrumental in the development of educational programs for residents and medical students. Programs like the Medical Student Anesthesia Research Fellowship, which launched in 2005, help to steer the next generation of physicians into anesthesia practice.

Dr. Sessler’s contributions to the specialty reach beyond FAER. From his beginnings as a resident at Dartmouth Hitchcock Medical Center to his longtime career at Mayo Clinic, Dr. Sessler remained dedicated to moving anesthesiology forward for the betterment of patient care, medical research and the entire medical community.

Described by his peers as an accomplished ambassador to anesthesiology, and an extraordinary administrator and mentor, Dr. Sessler has always been a visionary leader who knows where to go and how to get there. Along the way, and perhaps most importantly, he has helped build a community of individuals dedicated to advancing patient care and improving medicine through research and education in anesthesiology.

At the 25th anniversary celebration, the FAER Board of Directors honored Dr. Sessler with the title of president emeritus and announced that a FAER research grant will be named in his honor each year. Through his role as president emeritus, Dr. Sessler continues to advocate for FAER’s mission, confident that the foundation will continue to create new pathways to propel the specialty’s next generation to a new and higher level of patient care, innovation and discovery.

Alan D. Sessler, MD, Tribute Fund

The Alan D. Sessler, MD, Tribute Fund helps to commemorate Dr. Sessler’s legacy as a leader of the foundation and his contributions to the entire anesthesia community.

In 2011, individual donors and organizations contributed more than $90,000 to the Sessler Tribute Fund. This support symbolizes Dr. Sessler’s influence on the specialty and helps ensure the programs and opportunities provided through FAER continue into the future.

Donors who contributed to the Sessler Tribute Fund are recognized in the donor honor rolls, pages 19-23, with a (+) symbol.

Continued support in honor of Dr. Sessler, for the Sessler Tribute Fund, can be made using the donation form and envelope enclosed in this report or online at FAER.org/donate.
Giving to FAER

Donations made to the Foundation for Anesthesia Education and Research provide educational opportunities and career development for anesthesiologists, residents and medical students. The education and innovative research funded by FAER results in scientific and technological discoveries that advance medicine and anesthesiology, ultimately improving the quality of patient care.

You can support research and education in anesthesiology by making a contribution to FAER.

Credit Card

Donations made via credit card have an immediate effect on FAER’s ability to provide ongoing support for our programs and grants. You can make a donation to FAER using your Visa, MasterCard or American Express by visiting FAER.org/donate or by completing the donation form enclosed in this report.

Recurring Gift

Making a monthly or quarterly recurring gift of any amount is an excellent way to provide sustained support for anesthesia education and research. You can set up a recurring gift to FAER using your Visa, MasterCard or American Express by visiting FAER.org/donate or by completing the donation form enclosed in this report.

Check

You can mail your contribution in support of research and education in anesthesiology directly to FAER at:

Foundation for Anesthesia Education and Research
PO Box 157
Rochester, MN  55903

You can also use the enclosed contribution form and envelope.

Other Ways to Give

There are a number of ways to support FAER financially. If you are interested in making a planned gift or would like to personalize your contribution to FAER, contact David Wolfson, Chief Development Officer, at 507-266-6866.
Investing in the Future

Kathryn E. McGoldrick, MD, shares how she supports the future of anesthesiology

Kathryn E. McGoldrick, MD, is Director of Anesthesiology and Vice President of the Medical Staff at Westchester Medical Center, Professor and Chair of Anesthesiology at New York Medical College, and the Residency Program Director. Throughout her career, she has served the specialty in many capacities, including leadership roles for the Connecticut State Society of Anesthesiologists, The Academy of Anesthesiology, the Wood Library Museum and the Society for Ambulatory Anesthesia. Dr. McGoldrick joined the FAER Board of Directors in 2005, and among her many roles as a board member, became both co-chair and a member of the FAER Legacy Society in 2011.

Supporting Research and Education in Anesthesia

“My entire life has been spent in academic medicine. I selected this path because it offered the opportunity to touch many lives and to shape the future. This choice proved to be extraordinarily rewarding. I have enjoyed enormously the opportunity to advise and mentor residents, to help them see the forest for the trees, and to encourage them to pursue excellence in whatever roles they undertake. Equally gratifying has been the good fortune of witnessing advances in medicine in general, and anesthesiology in particular, that have enabled us to deliver increasingly safe and sophisticated patient care with each passing decade.

Although progress has been impressive, we still have many important, yet unanswered, questions. What are the effects, if any, of anesthetics on the developing human brain? What consequences, if any, do anesthetic agents have for the aged brain? These are but a few of the many critical issues that must be addressed through research, and what organization is better equipped than FAER to facilitate progress in meaningful areas of research?

It is imperative that anesthesiologists support the future of research and education in anesthesia through FAER. Our specialty and its organizations, such as FAER, have given us precious opportunities to make a difference, to contribute to the welfare of others. One’s life should not be ‘all take and no give.’ Giving back is, in my opinion, a fundamental obligation of people who have reaped considerable benefit from all that life has to offer.

Becoming a member of the FAER Legacy Society afforded me a vehicle to return something tangible to a specialty that has given me so much during the past four decades. I wish to encourage other FAER donors to consider including FAER in their estate plans. Many financial instruments are available that benefit not only FAER, but also provide a return to the donor as well. Going forward, FAER will be providing education to potential donors about some of these ‘win-win’ arrangements. Stay tuned—and don’t miss your chance to invest in the future.”

Kathryn E. McGoldrick, MD

Join the Legacy Society

The FAER Legacy Society recognizes individuals who plan to make a gift to the foundation through their estates, wills or trusts.

Becoming a part of the Legacy Society today will allow you to help safeguard the future of anesthesiology by ensuring that discovery, innovation and education will continue on behalf of the profession for which we are so deeply passionate.

If you are interested in making a planned gift to FAER, or would like more information on becoming a Legacy Society member, contact David Wolfson at 507-266-6866.
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**$20,000 - $74,999**

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**Up to $5,000**

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- Society of Academic Anesthesiology Associations
- Society for the Advancement of Geriatric Anesthesia
- Society of Cardiovascular Anesthesiologists
- Society for Education in Anesthesia
- Society for Neuroscience in Anesthesiology and Critical Care

**$75,000 or more**

Society of Critical Care Anesthesiologists

---

“Thank you to all of the donors for their generous support of the MSARF program. Through the program’s support, I was able to experience clinical anesthesiology for the first time, as well as develop a research project and ideas that I plan to pursue during my medical career. … Because of the MSARF program, I found a fascinating field of medicine and many outstanding mentors who I know will continue to mentor me throughout medical school and my eventual anesthesiology residency.”

- Meaghan Neill, PhD, 2011 MSARF participant, Medical University of South Carolina

---

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- Tennessee Society of Anesthesiologists
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- Oklahoma Society of Anesthesiologists
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- Alabama State Society of Anesthesiologists
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+ Indicates part or all of the gift was dedicated to the Alan D. Sessler, MD, Tribute Fund.

“I would like to sincerely thank all of those who make MSARF possible. I thoroughly enjoyed my time at the University of Utah and will look back at it with fondness for many years to come. In a few words, my experience with FAER was career changing.”
- Brian Ebert, 2011 MSARF participant, Arizona College of Osteopathic Medicine/Midwestern University

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- Providence Anchorage Anesthesia Medical Group, P.C.

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The following anesthesia departments provided financial support for one or more MSARF participants in 2011.
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- Mayo Clinic Rochester
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- Medical University of South Carolina
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- Mount Sinai School of Medicine
- Northwestern University
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- The Ohio State University - Medical Center
- Regents of the University of Michigan
- Stanford University, Dept. of Anesthesia
- State University of NY (SUNY) Stony Brook
- SUNY Downstate Medical Center
- Thomas Jefferson University
- University of Medicine and Dentistry of New Jersey - New Jersey Medical School
- University of Alabama at Birmingham
- University of Colorado Denver
- University of Miami Miller School of Medicine
- University of Pennsylvania School of Medicine
- University of Pittsburgh
- The University of Texas M.D. Anderson Cancer Center
- Vanderbilt University
- Washington University in St. Louis

Anesthesiology departments also support FAER through membership in the Society for Anesthesia Education and Research. See page 25.
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*Reflects gifts and/or pledge commitments.
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"I would like to extend a special thanks to those who contributed to this [Resident Scholar] experience, as it has truly impacted my career journey and will certainly contribute to the development of many future leaders and educators in the field of anesthesiology."

- A. Morgan Lasater, MD, 2011 Resident Scholar, University of North Carolina Hospitals
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“The FAER MRTG was a major milestone in my career to become an NIH-funded physician-scientist. I would like to thank the donors that support FAER. Only with their generosity and enthusiasm for research such success will be possible.”

- Tobias Eckle, MD, PhD, FAER grant recipient, Associate Professor of Anesthesiology, Cardiology and Cell Biology Director, Resident Training in Basic Science Research Mucosal Inflammation Program, Department of Anesthesiology, University of Colorado Denver
“Thanks to the generous contributions from donors, I was thrilled to have the opportunity to participate in the annual ASA conference and attend the numerous lectures from distinguished lecturers. Hearing first-hand from the current pioneers of research in the field of anesthesia today was an invaluable experience and a true inspiration.”

- Jason Yu, MD, 2011 Resident Scholar, Maimonides Medical Center

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Li-Li, MD in honor of Mark J. Lema, MD, PhD
Susan R. Lisman, MD in honor of Alexander A. Hannenberg, MD
Ronald S. Litman, DO in honor of Denham S. Ward, MD, PhD
Mirjana Lovrincevic, MD in honor of Mark J. Lema, MD, PhD
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John D. McGavic, MD in honor of Vicente Pallares, MD
Kathryn E. McCollitch, MD in honor of Alan D. Sessler, MD
Jonathan Moss, MD, PhD in honor of Evan D. Kharasch, MD, PhD
Kathleen O’Leary, MD in honor of Mark J. Lema, MD, PhD
Kathleen J. Park, MD in honor of Mark J. Lema, MD, PhD
Dr. Jerome and Mrs. Smadar Parness in honor of Alan D. Sessler, MD
Daniel M. Philbin, MD in honor of Alan D. Sessler, MD
Joseph V. Ryckman, CCF, MD in honor of Andrew Zura, MD, and Stephen J. Kimatian, MD
Dr. Eckehard Stuth and Mrs. Janellen Becker-Stuth in honor of John P. Kampine, MD, PhD
Robert C. Tick, MD in honor of Mark J. Lema, MD, PhD
Mr. David C. Wolfson in honor of the birth of Simon and Maria Gelman’s grandson, Max
Thomas Yannios, MD in honor of Mark J. Lema, MD, PhD
Anthony T. Yarussi, MD in honor of Mark J. Lema, MD, PhD
Jill Zafar, MD in honor of Mark J. Lema, MD, PhD

Honoraria

American Society of Anesthesiologists, honorarium for Evan D. Kharasch, MD, PhD
Lippincott Williams & Wilkins, honorarium for the authors and editors of “Avoiding Common Anesthesia Errors”
New England Journal of Medicine, honorarium for Ralph Lydic, PhD

In Memory

Corrie T. M. Anderson, MD in memory of Clyde M. Anderson
ASA Delegation to the AMA in memory of John Francis Szabat
George C. Bell, MD in memory of Leroy D. Vandam, MD
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Eugene P. Sinclair, MD in memory of John Francis Szabat
Texas Society of Anesthesiologists, in memory of George P. Beck, Jr., MD, Joseph Chao Ting, MD, Adel S. Girgis, MD, Alexander Goldenstien, Jr., MD, William H. Hadnott, MD, and Bernice Kohlhaas, MD
Judith Weintraub in memory of Herbert D. Weintraub, MD

“The FAER Resident Scholar program was an inspiring experience that reinforced my decision to pursue a career in academic anesthesiology and provided substantial information related to academic career development. I want to extend a sincere thank you to the generous donors who support FAER.”

- Engy Hanna, MD, 2011 Resident Scholar, Dartmouth Hitchcock Medical Center
In 2010 and 2011, more than 50 anesthesia departments joined the Society for Anesthesia Education and Research as charter members, giving $5,000 each to support research and career development programs. FAER recognizes anesthesiology departments that join SAER for their continued support of the foundation’s ongoing research and education programs, and development of new initiatives.

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- Albert Einstein College of Medicine/Montefiore Medical Center, Department of Anesthesiology
- Anesthesiology Institute, Cleveland Clinic
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- Brigham and Women’s Hospital Department of Anesthesiology, Perioperative and Pain Medicine
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- Mayo Clinic Department of Anesthesiology
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- School of Medicine, Washington University in St. Louis, Department of Anesthesiology
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- State University of New York, Stony Brook Department of Anesthesiology
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Financial Highlights for Fiscal Year 2011

These highlights are based on unaudited financials for the year ended December 31, 2011. For a copy of the complete audited financials, please contact FAER at 507-266-6866.

<table>
<thead>
<tr>
<th>ASSETS</th>
<th>2011</th>
<th>2010</th>
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<td>Cash</td>
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<td>Investments</td>
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<td>Fixed Assets</td>
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<td>Depreciation</td>
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<td>Prepaid Expense</td>
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<tr>
<td>Accrued Interest Income</td>
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<td>Total Assets</td>
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<td>$20,717,375</td>
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<table>
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<tr>
<th>LIABILITIES AND NET ASSETS</th>
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<tr>
<td>Total Liabilities</td>
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<tr>
<td>Undesignated Net Assets</td>
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<td>Net Income</td>
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<tr>
<td>Total Liabilities and Net Assets</td>
<td>$20,225,968</td>
<td>$20,717,375</td>
</tr>
</tbody>
</table>
### INCOME

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<th>2011</th>
<th>2010</th>
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<tr>
<td>Donations</td>
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<td>ASA - Unrestricted</td>
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<td>ASA - Cerebral Function Monitoring Grants</td>
<td>$0</td>
<td>$96,000</td>
</tr>
<tr>
<td>Corporate</td>
<td>$79,893</td>
<td>$84,557</td>
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<tr>
<td>State Component Society</td>
<td>$73,750</td>
<td>$80,800</td>
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<tr>
<td>Other Society</td>
<td>$72,000</td>
<td>$125,000</td>
</tr>
<tr>
<td>Individual</td>
<td>$258,057</td>
<td>$839,119*</td>
</tr>
<tr>
<td>Private Practice Group/Anesthesiology Department</td>
<td>$206,353</td>
<td>$123,085</td>
</tr>
<tr>
<td>Foundation/Trust</td>
<td>$46,490</td>
<td>$44,191</td>
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<tr>
<td>Other</td>
<td>$76,000</td>
<td>$0</td>
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<tr>
<td><strong>Total Donations</strong></td>
<td>$2,812,543</td>
<td>$2,892,752</td>
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<tr>
<td>Other Income – Returned Grant Monies</td>
<td>$0</td>
<td>$206,871</td>
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<tr>
<td><strong>Total Income</strong></td>
<td>$2,812,543</td>
<td>$3,099,623</td>
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</tbody>
</table>

*Individual donations increased dramatically in 2010 due to a donation of more than $450,000 from the estate of Gertie Marx, MD.

### EXPENSES

<table>
<thead>
<tr>
<th></th>
<th>2011</th>
<th>2010</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grants/Programs</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Research Grants</td>
<td>$1,607,688</td>
<td>$1,518,898</td>
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<tr>
<td>Cerebral Function Monitoring Research Grants</td>
<td>$0</td>
<td>$96,000</td>
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<tr>
<td>Annual Meeting Resident Scholar Program</td>
<td>$55,765</td>
<td>$36,050</td>
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<td>Practice Management</td>
<td>$14,250</td>
<td>$20,476</td>
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<td>Resident Scholar Program</td>
<td>$162,090</td>
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<tr>
<td>Medical Student Anesthesia Research Fellowship Program</td>
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<tr>
<td>Subspecialty Education Programs</td>
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<td>$1,845,181</td>
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<td><strong>Total Grantees/Programs</strong></td>
<td>$1,889,793</td>
<td>$1,845,181</td>
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<tr>
<td>General Operating Expenses</td>
<td>$889,121</td>
<td>$718,164</td>
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<tr>
<td><strong>Total Expenses</strong></td>
<td>$2,778,914</td>
<td>$2,563,345</td>
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</tbody>
</table>
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