Transforming Medicine
Dear Friends and Colleagues,

Thank you for helping the Foundation for Anesthesia Education and Research become anesthesiology’s catalyst for transformation! Over the past 30 years - through its focus on academic career development and research support - FAER has fostered anesthesiologists, advanced patient care, and transformed clinical practice. Highlights from 2015 include:

**Fostering Anesthesiologists**

Building a foundation for a future research career in anesthesiology starts early. A recent study in *Anesthesiology* showed that more than half of the medical students who participated in FAER-funded research fellowships have entered anesthesiology residency and concluded that “the MSARF Program, and similar programs, may be one strategy to help increase the number of physician-scientists in anesthesiology.”

**Advancing Patient Care**

In 2015, we received 63 applications for funding, a 50 percent increase over 2014, and awarded 23 grants, a 44 percent increase over last year. The work these young physician investigators are pursuing will ensure the advancement of patient care.

**Transforming Clinical Practice**

A 2015 analysis of the scholarly productivity of former FAER grant recipients indicated that more than 40 percent have received subsequent NIH funding. There is no question that FAER grant recipients have made substantial contributions to our understanding of the practice of anesthesiology. Every day, your work is influenced by knowledge generated through scientific discovery, and it is quite likely that those who generated that knowledge have received support from FAER during their careers.

We are proud of our accomplishments this past year and humbled by the support we continue to enjoy from our anesthesiology colleagues and friends. We are bolstered by their generosity and energized to continue the efforts that help transform medicine. Thank you for your support and tireless work in advocating for research and education in anesthesiology.

Sincerely,

Joy L. Hawkins, M.D.
2015 Chair, Board of Directors

Foundation for Anesthesia Education and Research

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Thank you for helping the Foundation for Anesthesia Education and Research become anesthesiology’s catalyst for transformation!

Joy Hawkins, M.D. | 2015 Chair, Board of Directors
The Foundation for Anesthesia Education and Research (FAER) Board of Directors announced $1.175 million in new research grant funding, which will be awarded over two years. Awards were made to nine anesthesiologists, each from different medical centers in the United States. With this funding and the $1.75 million awarded in the spring, FAER, a 501c3 nonprofit and a related organization of the American Society of Anesthesiologists® (ASA®), committed a total of $2.925 million in new research funding in 2015.

The purpose of FAER grant funding is to develop the research careers of anesthesiologists who seek to answer important questions and make scientific discoveries in the areas of anesthesiology, perioperative medicine, health care delivery and medical education research. Many anesthesiologists who have received FAER grant funding are now successful, independently funded physician scientists who are advancing medicine through newfound knowledge.

With the goal to generate and support increased scientific activity in the specialty, FAER offered a second grant cycle in 2015 for the first time since 2008. Initiating the second grant cycle proved effective: 2015 was a record-setting year for anesthesiology research funded by FAER. In its support of FAER, the anesthesiology community is now doing more than ever to ensure the specialty is transforming medicine, advancing patient care and improving lives.

**2015 OUTCOMES**

**1 FAER Board Approves $1.175 Million in New Research Funding, $2.925 Million Total in 2015**

The Foundation for Anesthesia Education and Research (FAER) Board of Directors announced $1.175 million in new research grant funding, which will be awarded over two years. Awards were made to nine anesthesiologists, each from different medical centers in the United States. With this funding and the $1.75 million awarded in the spring, FAER, a 501c3 nonprofit and a related organization of the American Society of Anesthesiologists® (ASA®), committed a total of $2.925 million in new research funding in 2015.

“Funding is so competitive these days... to have this [FAER] starter grant funding specifically for anesthesiologists is so important to ensuring anesthesia remains an academic specialty. It gives young physician investigators a leg up, time to develop yourself and an entry way into the field.”

May Hua, M.D., M.P.H., Columbia University NIH K08 (2016), FAER MRTG-HSR (2013)

**Study indicates strong scholarly activity, significant federal funding and substantial knowledge creation by FAER grant recipients**

The more than $25 million the Foundation for Anesthesia Education and Research has expended on anesthesiology research grants since 1987 has resulted in subsequent funding from the National Institute of Health (NIH) totaling more than $448 million, an amount 17 times greater than the original research investment.

A study by Paul S. Pagel, M.D., Ph.D., and Judith A. Hudetz, Ph.D., “Scholarly Productivity and National Institutes of Health Funding of Foundation for Anesthesia Education and Research Grant Recipients,” published in the September 2015 edition of Anesthesiology, the official medical journal of the American Society of Anesthesiologists® (ASA®), examined 397 individuals who received FAER grants between 1987 and 2012 to determine the influence of FAER funding on an individual’s scholarly productivity and ability to receive federal funding.

Their findings reveal the high levels of scholarly activity, significant federal funding and substantial knowledge creation of FAER grant recipients. “The return on FAER and ASA investment is just phenomenal: From 1987 to 2012, FAER research grant expenses totaled about $25 million, and the recipients earned more than $448 million in NIH funding,” said Evan D. Kharasch, M.D., Ph.D., Vice Chair for Grants, FAER Board of Directors and Chair, ASA Committee on Research. “This means that every $1 invested in a FAER grant recipient resulted in more than $17 in funding, from just NIH alone. This validates FAER research funding mechanisms, the peer review process of the ASA Committee on Research, and everyone’s much appreciated support for FAER.”

Additional highlights of the study include:

- Nearly 80 percent of FAER awardees currently hold full-time academic appointments.
- FAER grant recipients published 19,647 manuscripts that have been cited 548,563 times.
• Recipients received more than 390 NIH grants as principal investigators. These grants totaled more than $448 million.

• FAER grant recipients appear to have higher levels of productivity than previously reported productivity for average academic anesthesiology faculty identified in other studies.

3 New Funding Opportunity: FAER Transition to Independence Grant

For 30 years, the Foundation for Anesthesia Education and Research has awarded research grant funding to develop the research careers of anesthesiologists who seek to answer important questions and make scientific discoveries in the areas of anesthesiology, perioperative medicine, health care delivery and medical education research. Consistent with this goal, FAER has created a new research funding mechanism: the FAER Transition to Independence Grant (TIG). The TIG aims to support the transition of investigators from mentored training-focused support to independent (non-mentored) research support.

FAER has acknowledged that the current level of federal grant funding renders independent research awards, such as NIH R series, VA Merit and equivalent awards, extremely competitive. Anesthesiologist clinician-scientists who apply for such awards are often asked to resubmit applications before they could be funded. The FAER TIG aims to help address these challenges, and provide applicants with the continued momentum and progress that are needed to maximize the likelihood of success.

The TIG is intended for individuals who have completed their work on a FAER Mentored Research Training Grant (MRTG) and have applied for new independent research funding (R01/21, VA Merit, AHRQ or equivalent) that received priority scores or percentiles fell just outside of the funding threshold. The FAER TIG provides one year of funding to aid in the resubmission process for those who plan to revise and resubmit their application.

TIG awards are for high-priority, short-term projects, with a duration of one year. Granting of limited, interim research support is based on the merit of the submitted R01/21 (or equivalent) application. TIG support is designed to enable the PI to gather additional data for revision and resubmission of the non-funded application. Individuals must be within two years of having completed their MRTGs in order to qualify.

4 $75,000 SAAA Contribution Supports Education Research

The Society for Academic Anesthesiology Associations made a $75,000 contribution to the Foundation for Anesthesia Education and Research in 2015 to support education research. The generous donation will be used to help fund three FAER Research in Education Grants starting in 2016.

FAER Research in Education Grants advance the careers and knowledge of anesthesiologists interested in improving anesthesia education. The REG is focused on developing innovative approaches for anesthesia education and is a two-year, $100,000 award. It is available to anesthesiologists who have completed their clinical anesthesia training and have an academic faculty appointment.

5 From FAER to Federally Funded

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<tr>
<th>FAER MRTG</th>
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<tr>
<td>• 55 completed MRTGs from 2005-2013</td>
<td>• 9 out of 30 = NIH R01 awards</td>
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<td>• 30 (54%) have received NIH or PCORI grants</td>
<td>• 2 out of 30 = NIH R03 awards</td>
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<td>• 17 out of 30 = NIH K08 awards</td>
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<td>• 6 out of 30 = NIH K23 awards</td>
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FALL 2015 GRANT RECIPIENTS

Transforming Medicine Through Research

For 30 years, FAER has transformed the field of anesthesiology by funding the careers of talented, curious young investigators. Because of breakthroughs in anesthesia research, surgery has become less invasive, patient care and monitoring have become safer, and knowledge surrounding safe and effective anesthesia practices has increased. FAER-funded anesthesiologists have built on their successes, and as independently funded physician researchers continue the evolution of medicine through their work in the field of anesthesia research.

In 2015-16, the FAER Board of Directors awarded grants in the following categories:

- Mentored Research Training Grants in Basic Science, Clinical or Translational, or Health Services Research - $175,000 over two years; 75% research time, faculty within 10 years of completion of residency
- Research Fellowship Grants - $75,000 over one year, 80% research time, anesthesiology resident or fellow
- Research in Education Grants - $100,000 over two years, 40% research time, faculty of any level

Fall 2015 FAER Grant Recipients

Meredith Adams, M.D.  
William A. Cronin, M.D., M.B.A.  
Brenda G. Fahy, M.D., MCCM  
Philip A. Kurien, M.D.  
Robert B. Maniker, M.D.  
Amol M Patwardhan, M.D., Ph.D.  
Shahzad Shaefi, M.D.  
Soban Umar, M.D., Ph.D.  
Glen Woodworth, M.D.
MENTORED RESEARCH TRAINING GRANT – BASIC SCIENCE ($175,000 EACH)

Philip A. Kurien, M.D.
University of California San Francisco
Accelerated recovery of circadian rhythm and monocyte function
Mentor(s): Louis J. Ptacek, M.D.
Mervyn Maze, M.B., Ch.B.

Amol M Patwardhan, M.D., Ph.D.
University of Arizona
TRPV1 antagonist for the treatment of intraoperative hypothermia and postoperative pain
Mentor(s): Frank Porreca, Ph.D.
Phil Malan, M.D., Ph.D.

Soban Umar, M.D., Ph.D.
University of California Los Angeles
Role of the novel MicroRNA 125b-3p in combined pulmonary fibrosis and pulmonary hypertension
Mentor(s): Mansoureh Eghbali, Ph.D.
Aman Mahaja, M.D., Ph.D.

MENTORED RESEARCH TRAINING GRANT – CLINICAL OR TRANSLATIONAL ($175,000 OVER TWO YEARS)

Shahzad Shaefi, M.D.
Beth Israel
The relationship between administered oxygen levels and arterial partial oxygen pressure to neurocognition in cardiac surgical patients
Mentor(s): Balachundhar Subramaniam, M.D., M.P.H.

RESEARCH IN EDUCATION GRANT – BASIC SCIENCE ($100,000 EACH)

Meredith Adams, M.D.
Medical College of Wisconsin
Creation and validation of an anesthesiology pain educational app: Delivering ABA pain content to the millennial learner
Mentor(s): Thomas J. Ebert, M.D., Ph.D.

Brenda G. Fahy, M.D., MCCM
University of Florida
Make it stick: An educational model to improve long-term retention
Mentor(s): Lou Ann M Cooper, Ph.D.
Nikolaus Gravenstein, M.D.
Christoph Seubert, M.D., Ph.D.

Robert B. Maniker, M.D.
Columbia University
Validation of an objective, practical and real-time assessment of regional anesthesia procedural skills
Mentor(s): Boyd Richards, Ph.D.
Charles W. Emala, M.S., M.D.

Glen Woodworth, M.D.
Oregon Health & Science University
Trajectory, predictive value and significance of milestone achievement during anesthesiology training
Mentor(s): Patricia A. Carney, Ph.D.
Nicole M. Deiorio, M.D.

RESEARCH FELLOWSHIP GRANT ($75,000 EACH)

William A. Cronin, M.D., MBA
Walter Reed
Validation of a volatile organic compound based breath test for pulmonary oxygen toxicity in an established swine ARDS model
Mentor(s): Richard T. Mahon, M.D.; John F. Capacchione, M.D.
FAER 2015 MENTORING EXCELLENCE IN RESEARCH AWARDEE:

David S. Warner, M.D.

The FAER Mentoring Excellence in Research award honors those individuals who, through their activities as mentors, have contributed importantly to the development and advancement of academic anesthesiologists in the area of research, and have promoted the activities of mentoring among others in the specialty, increasing academic activity in research and enhancing research success in academic anesthesiology. FAER is delighted to recognize David S. Warner, M.D. as just such an individual. Through his care as a mentor and excellence as a scientist, Dr. Warner deeply impacts all who work with him.

“[Dr. Warner is] an extremely kind and involved mentor and I often think back to how he “reared” me in how I deal with mentees now. . . [H]e is in a very real way, continuing to mentor through the generations.” – John C. “Jay” Wellons, III, M.D., M.S.P.H.; Chief of Pediatric Neurosurgery, Children’s Hospital at Vanderbilt

“Dr. Warner’s greatest accomplishment, and his most lasting legacy, will be the nearly 80 post-doctoral trainees and students that he has mentored over his nearly 40 year career as a physician-scientist. . . . [His] list of trainees is essentially a who’s who list in academic anesthesiology, perioperative neuroscience and stroke research. . . . The driving force behind this nearly unsurpassed record of mentorship is Dr. Warner’s love of science, and his passion for mentoring young trainees.” – Miles Berger, M.D. Ph.D.; Assistant Professor of Anesthesiology, Duke University

“The example he sets in the way he fosters careers, demands excellence and builds a team of scientists who share the same goals and values is one I have tried to emulate.” – Mark S. Wainwright M.D., Ph.D; Director, Ruth D. & Ken M. Davee Pediatric Neurocritical Care Program, Ann & Robert H. Lurie Children’s Hospital of Chicago

FAER-HELRICH RESEARCH LECTURE PRESENTER:

Laurent G. Glance, M.D.

The FAER-Helrich Research Lecture recognizes outstanding scholarship by a scientist. It is part of an effort by the Foundation for Anesthesia Education and Research (FAER) to encourage early-career anesthesiologists and trainees to consider careers in research and teaching.

FAER’s 2015 Helrich Lecturer, Laurent Glance, M.D., has made significant contributions to health care policy and quality research. He has received multiple grants from the National Institutes of Health, he is a dedicated researcher, professor and clinician. He has served in numerous leadership and volunteer roles throughout his career.

Dr. Glance’s presentation, “Can We Do Better? How Big Data Can Help”, improved understanding of how big data can help physician anesthesiologists and surgeons improve surgical outcomes. Dr. Glance described the drivers for health care reform and the shift from volume-based reimbursement to value-based purchasing. He will also discussed the role of quality measurement in driving quality improvement and realigning incentives to improve population health, as well as the role of big data in filling the holes in evidence-based medicine.
2015 CONTRIBUTORS

Investing in the Future

Thank you for your support of the Foundation for Anesthesia Education and Research in 2015. By supporting anesthesiology research and scientific discovery, you have made possible life-enhancing advances in medicine and improvements in patient care. You have enabled talented anesthesiologists pursuing new knowledge to transform our specialty and our hospitals, and most importantly, to improve lives.

This report recognizes donations made between January 1, 2015 and December 31, 2015. Great effort was made to include all contributors in this report and to ensure the accuracy of names and titles. If we have erred, please accept our apologies and let us know so we may make corrections in the future.

NOTE: Individual contributors listed in bold have supported FAER with $25,000 or more of donations in their lifetime. Individual contributors listed in italics have supported FAER with $10,000 or more of donations in their lifetime. Individual contributors noted with an (+) have supported FAER for 10 or more consecutive years (2006-2015).

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Masimo Corporation honorarium for Michael S. Avidan, B.Ch., M.B., FRCA
New York State Society of Anesthesiologists District 4 honorarium for Denham Ward, M.D., Ph.D.

HONOR YOUR MENTOR
Mentorship is an important part of building a successful and productive career in medicine. Many FAER donors have chosen to recognize the outstanding mentors who support and guide future physician scientists by making tribute gifts to the foundation.

Gregory C. Allen, M.D. in honor of Henry Rosenberg, M.D.
“Henry was my fellowship supervisor (1988-89) and became my mentor and friend. His commitment to patients with Malignant Hyperthermia is inspiring and he has pushed research and clinical care to improve patient outcomes. This year he received the ASA’s Distinguished Service Award, well deserved! The biggest part of Henry’s legacy is the MHAUS Hotline and its Consultants who care so much that they volunteer happily to provide this important service. To a person, these Consultants are there because of their respect for Henry.”

Corrie T. Anderson, M.D. in honor of John Woodland “Woody” Hastings
“Woody was a truly great mentor and friend. He gave generations of students opportunities to be inquisitive, creative and to find their potential as researchers, teachers and healers.”

Julian S. Bick, M.D. in honor of Matthew McEvoy, M.D.
“Dr. McEvoy brings enthusiasm, clarity, and rigorous attention to detail throughout research process. My career has benefited tremendously from FAER and Dr. McEvoy’s mentorship. Thank you Matt!”

Scott E. Kercheville, M.D. in honor of James F. Arens, M.D.
“I have been privileged to work for and with one of the seminal figures and legends in anesthesiology for the last 50 years. A true honor is when you meet and know a hero but better if you can become a friend. Thank you for your honor and we are all grateful.”

Gerald Kirk, M.D. in honor of Denham S. Ward, M.D., Ph.D.
“Dr. Ward was the residency program director at UCLA when I trained there 30 years ago. His career is the perfect example for academic anesthesiologists who aspire to combine excellence in clinical care, research, teaching and administration. Although it will be a loss for FAER, I wish him the best in his retirement.”

Markus G. Klass, M.D., Ph.D. in honor of James Zaidan, M.D., M.B.A.
“Dr. Zaidan is a true role model as a clinical anesthesiologist, teacher, mentor, chair and friend.”

Carol Lynch III, M.D., Ph.D. in honor of Charles G. Durbin, Jr., M.D.
“In honour of his contributions to the Department and Specialty over almost four decades.”

Myron Yaster, M.D. in honor of Richard Traystman, M.D.
“I am who I am today because of my mentors, particularly Dr. Richard Traystman, who guided me through my first basic science project. It would not have happened without him and the initial financial support from FAER.”
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The FAER Legacy Society honors those who make a gift to the foundation through their estates, wills, or trusts. Legacy Society members 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.

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TRANSFORMING MEDICINE FAER.ORG

FAER ANNUAL REPORT 2015
Medical Student Anesthesia Research Fellowship (MSARF)
The Medical Student Anesthesia Research Fellowship (MSARF) Summer Program provides medical students with an eight-week research experience within an academic anesthesiology department. During the fellowship, students participate in research and training activities, as well as clinical anesthesia activities. In addition, medical student summer fellows have the opportunity to make a scientific presentation at the American Society of Anesthesiologists annual meeting. In 2015, the MSARF Summer program accepted 49 students and placed them at 34 participating host institutions.

Also in 2015, a study conducted by Paloma Toledo, M.D., M.P.H. and Shakir McLean (2014 FAER MSARF Summer fellow) showed the impact that the MSARF Summer Program can have in the life of aspiring anesthesiologists.

“The percentage of MSARF applicants and MSARF participants who enter anesthesiology (29 and 58%, respectively) is significantly higher than the national rate. This indicates that the MSARF program likely attracts students who are already interested in a career in anesthesiology; however, participation in the MSARF program significantly increases the likelihood of entering an anesthesiology-training program . . . [It] has had a positive impact on students, with many being included as a co-author on peer-reviewed articles as well as entering anesthesiology residency programs. The MSARF program, and similar programs, may be one strategy to help increase the number of physicians-scientists in anesthesiology.”

What the 2015 MSARF Summer Students are saying…

“I had a wonderful time as an MSARF fellow. The program helped connect me to a great mentor, exposed me to clinical research, and gave me a good insider view of life as an anesthesiologist.”
– Adrienne Ng, Indiana University School of Medicine

“This was a terrific program that not only taught me what it was like to be a anesthesiologist physician-scientist, but it also was a ton of fun. If I could do it again, I would do it at the same place due to the emphasis on both research and clinical skills. I truly think I am at a significant advantage among my peers in terms of perioperative skills and knowledge about my future goals.”
– Michael Cirullo, Rowan University School of Osteopathic Medicine

Medical Student Anesthesia Research Fellowship - Year Long Program
FAER’s Year Long Medical Student Fellowship provides funding to support medical students over a year in focusing on anesthesiology research, training in scientific methods and techniques, and learning to incorporate research into a medical career.

The 2015 MSARF Year Long Fellow was Lauren Lisann. She did her research on Preoperative Mindfulness Training for Prevention of Postoperative Delirium under the mentorship of Drs. Jeffrey Silverstein and Stacie Deiner at the Icahn School of Medicine, Mount Sinai.

“I would absolutely repeat my experience of being a FAER year-long research fellow. Being the “principal investigator” of the project - having the authority to make day-to-day decisions on its structure and progress, and now looking back on the finished product, are both exciting and empowering. I have emerged from the year with invaluable mentorship. This was all made possible by the FAER year-long grant - it provided me with crucial time, space, structure and support, and I could not be more grateful.” – Lauren Lisann, BS, MS-IV
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$3,243,056 $2,579,669

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$4,376,582 $3,547,076

2015 REVENUE

61.67%
8.57%
8.69%
12.92%
0.09%
0.59%
2.15%
3.16%
6.86%
6.75%
86.39%

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