

2017 Chair Communique Series

Emergency Medicine IDEAS: Innovation and Discovery in the Emergent and Acute Sciences

Katherine L. Heilpern MD
Ada Lee and Pete Correll Professor and Chair

It's my pleasure to present the May 2017 Chair Communique for the Emory University Department of Emergency Medicine. This time we focus on research, and in the pages that follow, you will learn about the activities, vibrancy and passion that the Department of Emergency Medicine brings to innovation and discovery. For the past 24 months, we have been hard at work developing anew the Innovation and Discovery team. In my 11 years as Chair, I've never seen more bench strength, wide-ranging expertise, and flat out enthusiasm for discovery and dissemination of knowledge. This infectious inoculation is permeating through the faculty, residents, medical students, advanced practice providers and staff. In the past 9 months, our federal research proposals have doubled and award dollars quadrupled. This is what happens when great people are brought together and believe they can accomplish great things.

I encourage you to read through the IDEAS newsletter below to learn more!



May 17, 2017



Research can be a daunting endeavor. But every day we participate in discovery activities, many of which could lead to real innovation and change the lives of our patients. This is the idea behind changing the name of our Research division to Innovation and Discovery. The new name not only encapsulates what we do daily, but also reflects the excitement of the task. *The Innovation and Discovery in Emergent and Acute Care Sciences Team—IDEAS*—led by **Dr David Wright**, has undergone significant restructuring and growth, updating the strategic plan, developing new support programs (Faculty Scholars, Department Review Committee



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support, RedCap and Open Access Publication support) and beginning faculty outreach (regular funding opportunity emails, quarterly newsletters, faculty meeting presentations, IDEAS Box account, Emory and Grady Office of Communications updates etc.).



David Wright, MD is Associate Professor of Emergency Medicine, Vice Chair for Innovation and Discovery, and Director of the IDEAS Team.



Jonathan Rupp, PhD is Associate Professor of Emergency Medicine, Executive Associate Director of IPRCE, and Associate Director of IDEAS.



Tim Moran, PhD is an Associate Scientist in Emergency Medicine and Manager of the IDEAS program.

Growing our Team

The most important contribution to our success is the growth and development of our team. We have added two key members: **Tim Moran, PhD** and **Natasha Mann, MPH**. Tim is a staff scientist who will support EM research by contributing to research design, statistical analyses, and research education and training. Natasha is a regulatory specialist who will facilitate EM research by working with the IRB and other regulatory bodies to ensure compliance with local and federal regulations.



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Natasha Mann, MPH is the Regulatory Specialist for Emergency Medicine.



Anika Backster, MD is a Senior Associate in Emergency Medicine and is involved in resident engagement for the IDEAS program.



Vickie Howard is the Administrative Assistant for the IDEAS program.

Injury Prevention Research Center at Emory

IPRCE is a multi-institutional collaboration that aims to mitigate or eliminate the impact of injury in five main areas: Transportation Safety, Drug Safety, Violence, Falls, and TBI/Concussion. IPRCE is co-directed by **Drs. David Wright** and **Jonathan Rupp** and includes **Drs. Sharon Nieb** and **Sheryl Heron** as well as 80 volunteers. IPRCE has submitted seven grant applications in the past nine months.

Brain Research Laboratory

The BRL is a nationally recognized leader in research for TBI and stroke. Directed by **Donald Stein, PhD**, the BRL has achieved an H factor of 51, with over 6500 citations and has submitted applications for 12 patents for medical treatments. The lab collaborates with researchers and clinicians at Emory and worldwide, and is open to collaborations and research idea development.

Emergency Neurosciences Laboratory (ENL)

The ENL is a highly active, collaborative clinical trials operation focused on neurological emergencies, with 23 active trials as of this writing. It has been supported by the NIH-funded Neurological Emergencies Treatment Trials Network (NETT), for which it has served as the Southeastern Hub for the past 10 years. Our team is the best in the US. We are the leading enroller for all but one of the trials we are currently participating in. The ENL supports trials from Emergency Medicine, Neurosurgery, Neurology, and Neuro-Ophthalmology, Trauma Surgery, Cardiology and Critical Care Medicine.



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Support Programs

Faculty IDEAS Scholars Program (FISP)

As part of Emory EM's dedication to innovation and discovery, **Drs Wright, Rupp, and Moran** will lead the first cohort of the Faculty Scholars Program. Funded by a grant from the Department of Emergency Medicine development fund, FISP will provide clinical shift release for 10 months for five faculty members. Membership in the FISP is competitive and is based on a brief application outlining the ideas and questions the faculty candidate would like to pursue. The FISP provides interested faculty with dedicated time to develop their ideas into impactful research in the emergency sciences under the mentorship of experienced researchers. By the end of the program, the scholars will submit a grant proposal to an external funding agency.

*Congratulations to the first cohort of Emory EM Faculty Scholars:
Drs. Schrager, Hudak, Oh, Wheatley, and Wu!*

Department Review Committee (DRC)

The DRC supports faculty research by reviewing and providing feedback on research proposals prior to submission to the IRB. The DRC is currently led by **Tim Moran, PhD** and includes **Jonathan Rupp, PhD, Alex Hall, MS, Steve Pitts, MD, Justin Schrager, MD, Matt Wheatley, MD, Lindsay Lee, MS, Jonathan Ratcliff, MD, Tamara Espinoza, MD, Sharon Nieb, PhD, and Natasha Mann, MPH.**

Acute Study Screening and Enrollment Team

ASSET is a support team that provides 18hr/7day coverage of the Grady Emergency Department to facilitate screening and enrollment for ongoing studies. ASSET is run by the Department of Emergency Medicine's Innovation and Discovery team, and funded by a highly collaborative partnership among Emergency Medicine, Neurosurgery, Neurology, Neuro-Ophthalmology, Trauma Surgery, and Critical Care Medicine.



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REDCap Database

REDCap is a secure online database for building and managing research surveys supported by Emory. However, REDCap charges \$25 per month for each project. The Department of Emergency Medicine's IDEAS Division is excited to offer funding to access REDCAP for qualified projects. To obtain support, the project should be submitted to the Department Review Committee for evaluation.

Support for Open Access Journals

The School of Medicine (SOM) has a program to cover costs associated with publishing peer-reviewed manuscripts in open access journals. In cases where the open access expense exceeds the SOM's funding, the Department of Emergency Medicine may provide additional support. Funding publication expenses will be on a case-by-case basis. Notification of the expense prior to article submission is mandatory and the submission must be in reputable journals. More details are available at the Department's Innovation and Discovery Box Site.

Funding Highlights

*Congratulations to **Jonathan Rupp** for submitting a grant proposal to the Centers for Disease Control: Using Linked Data from Georgia, Michigan, and Texas to Study Older Driver Crashes*

*Congratulations to **Jonathan Ratcliff** and **David Wright** for submitting a grant proposal to the Centers for Disease Control: Behavioral and Cultural Change in Concussion: Empowering Moms to Improve Youth Sports Safety.*

*Congratulations to **Jeremy Ackerman** for submitting a grant proposal to the National Science Foundation: NRT-IGE using clinical observation course for developing an understanding.*



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Recent Faculty Publications

Congratulations to the faculty members who have published peer-reviewed articles in 2017 (so far):

Doug Ander
Fahim Atif
Ingrid Bloom
Mikaela Chilstrom
Erika Chowa
Shamie Das
Katherine Heilpern
Sheryl Heron
Lauren Hudak
Alexander Isakov
Julio Lairet
Michelle Lall
Lisa Mack
Bryan McNally

Anjni Patel
Adam Pomerleau
Jonathan Rupp
Iqbal Sayeed
Joshua Schier
Justin Schragger
Philip Shayne
Alaina Steck
Donald Stein
Bushra Wali
Melissa White
David Wright
Arthur Yancey II



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May 16 – 19, 2017
Orlando, Florida

Emory Emergency Medicine Participation

Tuesday, May 16th

Title	Presenter(s)	Type	Time
A Communication Skills Course	Kuntz	Preconference Workshop	9 AM
Diversity 401 - LCME and why it matters	Heron	Preconference Workshop	8 AM

Wednesday, May 17th

Breaking in the Emergency Department: EM Culture Represents a Barrier to Self-Care	O'Shea Siegelman Vu Lall	Poster	1:14 PM
The July Effect and Door-to-Needle Times in the Treatment of Acute Strokes at Academic Medical Centers	Singhapricha Backster	ePoster	1 PM
Prehospital Intubation is Associated with Favorable Outcomes in ProTECT III	Wright	ePoster	3 PM



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Concussion Discrimination Accuracy using Common Assessment Tools	Wright Calcaterra Espinoza	ePoster	3:35 PM
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Thursday, May 18th

Title	Presenter(s)	Type	Time
Sex Disparity in Simulation-Based Milestone Assessment	Siegelman Shah Lall Wallenstein	Lightning Oral Presentation	8 AM
The Status of Gender and Racial/ Ethnic Disparities Among Emergency Medicine	Heron Lall	Oral Presentation	8 AM
Practical Mindfulness in Emergency Medicine – Thinking Slow and Acting Fast	O’Shea	Ignite Talk	8 AM
Creating Simulation-Based Tools to Assess Students and Trainees in Emergency	Nagrani Dudley	Workshop	10 AM
Burnout in Board Certified Emergency Medicine Physicians	Lall Whyte	ePoster	3 PM
Emergency Essentials for Transgender Patient Care	Daul	Didactic	8 AM

Friday, May 19th

Title	Presenter(s)	Type	Time
SAEM Leadership Forum	Heilpern Heron	Forum	8 AM
Building leadership skills: consider a positive angle	Heron	Didactic	8 AM
What the heck is a Wellness Curriculum?	Lall O’Shea	Didactic	1 PM
Using the Emergency Department to spur undergraduate engineering innovation: Clinical Observational Design Experience	Ackerman	Oral Innovation	8 AM