Goals of this presentation

1. To provide an orientation to our research programs to new faculty, fellows and staff

2. To provide an annual update on research productivity and new initiatives

3. To provide a resource document that can serve as the core of a “ED research manual”
The scope of our research

Laboratory Research

Clinical Investigation

Health Services/Population Science

Community Oriented Research

Examples of faculty in each domain

Lance Becker
David Jang
Josh Lampe

Angela Mills
AJ Dean
Nova Panebianco

Karina Rhodes
Zack Meisel
Fran Shofer

Raina Merchant
Kit Delgado
Ben Abella

Research activity: funding snapshot in context

Ranking of Emergency Medicine Departments:
Federal funding, 2013

1. UNIV OF MASSACHUSETTS MED SCH $3,672,622
2. UNIVERSITY OF PENNSYLVANIA $3,153,624
3. UNIVERSITY OF MICHIGAN $3,123,240
4. OREGON HEALTH & SCIENCE UNIVERSITY $2,782,378
5. MOUNT SINAI SCHOOL OF MEDICINE $2,377,861
6. EMORY UNIVERSITY $2,338,879
7. YALE UNIVERSITY $1,839,480
8. INDIANA UNIV-PURDUE UNIV $1,466,915
9. UNIVERSITY OF PITTSBURGH $1,407,175
10. UNIVERSITY OF CALIFORNIA DAVIS $1,399,889

Difficult to compare because mix of funding varies considerably between departments.
Domains of Research

Centers within the Department
- Center for Emergency Care Policy and Research: Karin Rhodes
- Center for Resuscitation Science: Lance Becker

Penn entities with strong EM presence/collaboration
- Social Media & Health Innovation Lab: Raina Merchant
- Neurological Emergency Treatment Trials network: Jill Baren
- Leonard David Institute of Health Economics
- Center for Clinical Epidemiology and Biostatistics

Center for Emergency Care Policy and Research (CECPR)

Spans clinical and health services and population science

**Topics of interest:**
- Patient narratives to guide health
- Access and transitions of care
- Drug and alcohol abuse
- Intimate partner violence
- Economics of emergency care access

Examples of recent publications

**Patient Perspectives of Acute Pain Management in the Era of the Opioid Epidemic**

Karin V. Rhodes, MD MS

**Most Uninsured Adults Could Schedule Primary Care Appointments Before The ACA, But Average Price Was $160**

Karin V. Rhodes, MD MS
**Center for Resuscitation Science**

Spans from laboratory to community oriented research

**Topics of interest:**
- Ischemia-reperfusion injury
- CPR performance
- Post-arrest care and outcomes
- Disparities in CPR training
- Targeted temperature management

**Examples of recent publications**

**Developing dual hemofiltration plus cardiopulmonary bypass in rodents**

- 2015
- [Link](#)

**Clinical Paper**

- Quantitative relationship between end-tidal carbon dioxide and CPR quality during both in-hospital and out-of-hospital cardiac arrest

**Social Media & Health Innovation Lab**

Clinical and community oriented research projects

**Topics of interest:**
- Crowdsourcing for health information (e.g. AEDs)
- Social media as diagnostic of health status
- Health app development
- Data mining of social networks

**Examples of recent publications**

**Seeing Health Insurance and HealthCare.gov Through the Eyes of Young Adults**

- 2015
- [Link](#)

**Use of Mobile Apps: A Patient-centered Approach**

- 2015
- [Link](#)
Neurological Emergencies Treatment Trials (NETT) network

Large national NIH consortium
Penn is a “hub site”

Topics of interest:
Management of status epilepticus
Traumatic brain injury treatment
Stroke clinical trials

Examples of recent publications

Implementation of the Exception From Informed Consent Regulations in a Large Multicenter Emergency Clinical Trials Network: The RAMPART Experience 2012

Research program activities

Annual Research Day symposium
Research in Progress seminar series
Academic Associates program
Journal Club series
SAEM annual meeting activities
Annual Research Day symposium – April 20, 2016

One day symposium, convened in April

Oral presentations and posters from ED family (faculty, residents, nurses, medical students)

Guest keynote speaker from national Emergency medicine domain

Wonderful opportunity to showcase Our work and share within the Department and the Penn SOM community

Planning committee to form soon For the 2016 research day!

Research in Progress (RIP) seminar series

Wednesdays at noon - this year lunch to be provided courtesy of CECPR and CRS research teams

Informal presentations on research at any stage: prepping for proposals, early data, prepping for manuscript submissions

Great chance to get advice and feedback

Always looking for more speakers; contact Ben Abella or Eileen McDonnell

Some of our guest speakers:

Josh Levine
Nuala Meyer
Carrie Sims
Neuro ICU
MICU
Trauma/ESS

Sheldon Cheskes, MD
EMS Research Director
University of Toronto

Jeremy Brown, MD
Director, NIH Office of Emergency Care Research
**Academic Associates (AA) program**

Resource for clinical research screening
And enrollment in the ED

“Blue coats” are pre-health students
(mostly Penn post-bac program)

Program administered by Katie Lamond and Chris Gibson

“No project too small” – contact us if you want to start generating data for your project

---

**Journal Club series**

Collaboration between research and residency domains of our department
For residents, fellows and faculty

Hosted at faculty homes – discussion led by residents with faculty support

Dates and locations for this year will be available soon
SAEM annual meeting activities

Society of Academic Emergency Medicine Annual meeting
New Orleans, May 10-13, 2016

SAEM “prep day” to practice poster and oral presentations
Penn EM reception
For this next year: Penn EM group “rounding” and discussion

SAEM committee participation and pre-conference workshop encouraged

Key resources to help you with research

Katie Lamond
Research coordinator

Chris Gibson
AA program coordinator

Libby Moore
Grants administrator

Fran Shofer
Director of research design & biostatistics

Ben Abella
Vice Chair for Research

Eileen McDonnell
administrative coordinator

Ameena Al-Amin
CRS executive assistant
Common questions and who can be your first contact person

<table>
<thead>
<tr>
<th>Question</th>
<th>Who to contact</th>
</tr>
</thead>
<tbody>
<tr>
<td>IRB related questions</td>
<td>Katie Lamond</td>
</tr>
<tr>
<td>(new IRB submission, IRB process questions)</td>
<td></td>
</tr>
<tr>
<td>Fellow and faculty mentorship questions</td>
<td>Ben Abella</td>
</tr>
<tr>
<td>(review of draft grant, questions on finding Penn</td>
<td></td>
</tr>
<tr>
<td>expertise, framing a new study question)</td>
<td></td>
</tr>
<tr>
<td>Research design, biostatistics questions</td>
<td>Fran Shofer</td>
</tr>
<tr>
<td>AA program questions</td>
<td>Chris Gibson</td>
</tr>
<tr>
<td>Funding and budget questions</td>
<td>Libby Moore</td>
</tr>
</tbody>
</table>

An update on the research program: new location

Research faculty and staff moving
From Penn Tower to Blockley Hall
Move will occur at end of August
Come visit us in our new location this autumn
Thanks and questions

A marker of program success

Former residents who have now chosen academic careers and further scholarly training