Clemson University
School of Health Research

Fall Information Exchange

October 24, 2017
CUSHR Fall Information Exchange Agenda

- **2:00 - 2:20** Welcome and Introductions
  - CUSHR Updates, including Upcoming Events and Faculty Fellows
  - Funding Opportunities – Hagan Walker

- **2:20-2:35** College Spotlight - College of Business
  Dean Bobby McCormick, PhD and Larry Fredendall, Ph.D.

- **2:35 - 3:00** Collaboration Opportunity Spotlight
  Steadman Hawkins Center for Effectiveness Research in Orthopaedics
  Gary Hyman, Executive Director, and team

- **3:00-3:10** Featured Collaboration
  Managing Abstinence in Newborns, Rachel Mayo, Ph.D.

- **3:10-3:15** Announcements

- **3:15 - 3:30** Conversation, Dessert, and Seed Grant meeting
The GHS Health Sciences Center Research Division and Patient Engagement Studio, along with the GHS Patient Experience of Care Committee, welcome Julie Moretz, who will present "Patient- and Family-Centered Care: An Imperative to Improve Quality, Safety and the Patient Experience."

Mon., Oct. 30 • 12:30-2 p.m. • University of South Carolina School of Medicine Greenville Learning Studio 105/106

Moretz also is Assistant VP of Patient- and Family-Centered Care, Augusta University Health. She was a founding member of the Children’s Heart Program in Augusta. Her son Daniel was born with severe heart problems, which led to a heart transplant at age 8. She and her husband became key players on his healthcare team for continuity of care and best possible outcomes. Young Daniel’s unique experiences and advice helped transform the way pediatric care is delivered at Children’s Hospital of Georgia.

Moretz, whose family was featured in the 2006 PBS documentary Remaking American Medicine, served as Associate Vice Chancellor of Patient- and Family-Centered Care—Center for Patients and Families, at the University of Arkansas for Medical Sciences. Before that, she spent nearly seven years as Director of Special Projects at the Institute for Patient- and Family-Centered Care in Bethesda, Md. Among her many honors, this noted speaker and author received the AHA’s Lifetime Achievement Award.
2ND ANNUAL HARRIET & JERRY DEMPSEY
RESEARCH CONFERENCE
BUILDING BRIDGES BETWEEN GREENVILLE
HEALTH SYSTEM AND CLEMSON UNIVERSITY

GUEST SPEAKERS
- Toshiharu Shinoka, MD, PhD, Ohio State University
- Glenn Gaudette, PhD, Worcester Polytechnic Institute
- Kenneth Catchpole, PhD, Medical University of South Carolina
- Gino Lim, PhD, University of Houston

OCTOBER 27, 2017
9:30 am – 3:30 pm
MEDICAL STAFF AUDITORIUM (MSA)
701 Grove Road,
Greenville Memorial Hospital
Greenville, SC
LUNCH WILL BE SERVED
(Courtesy of CUSHR)
Community Room

RSVP
Kevin Taaffe: taaffe@clemson.edu
Updates:

Spring: Faculty Scholar Appointments
19 new Faculty Scholars were appointed in Spring 2017

Fall: Clinical Faculty Appointments
2017 Clinical Faculty applications are due by Wednesday, November 1

TOTALS:
142 Faculty Scholar Appointments
55 Clinical Faculty Appointments

CUSHR Appointment Committee:
• Lawrence Fredendall, Chair
• Thomas Britt
• Susan Chapman
• John DesJardins
• Cheryl Dye
• Windsor Sherrill
• Kerry Smith
• Kevin Taaffe
• Margaret Ann Wetsel
CUSHR Update: CUSHR Fall Mixer

Better Together

CUSHR/GHS FALL MIXER

September 20th, 2017
5:00-6:30pm
Champions Club, Greenville Drive
945 S Main St, Greenville
Please RSVP by Sept. 18th to cushr@clemson.edu
All health researchers welcome!

48 Clemson Attendees
7 Colleges
19 Departments

65 GHS Attendees

114 Total

Copies of the posters with GHS departmental research interests are available at http://www.clemson.edu/health-research/events.html
Enabling Collaborative Research: Models of Embedded Scholarship

**Doctoral Students**
- Clemson doctoral students engaged and funded by GHS research projects
- PHS, School of Ed.; Industrial Eng.

**Embedded Postdoctoral Scholars**
- Junior Faculty
- 1-2 years full time within a department at GHS
- Total of 13

**Faculty Fellows**
- Senior Faculty
- 3 days per week at GHS for one summer and academic term
- Total of 7: 3 NEW

**Named Professorships**
- Senior Faculty
- Direct and continued partnership with GHS
- Total of 5

Embedded Scholarship Research Continuum
Dr. Anker’s fellowship will focus on translation of non-invasive monitoring of fracture healing and the development of sensors to detect and monitor infections in orthopedic patients.

Dr. Koley will investigate correlations between environmental factors and incidence of asthma in the greater Greenville area, with a focus on high risk neighborhoods and schools, utilizing in place infrastructure, programs, and review of hospital admissions.

Dr. Scott’s fellowship will seek to gain a better understanding the impact of burnout and related interventions on not only employee wellbeing and job related behavior but also on critical metrics relevant to GHS leadership.
Funding Opportunities

Hagan Walker, MS/MBA
Greenville Health System
Office of Sponsored Programs
• Request for Proposals notification released October 12
  – Website: https://hsc.ghs.org/research-scholarship/grants/

• Focus Areas – Community Health Needs Assessment
  – Access to Healthcare
  – Social Determinants of Health
  – Mental/Behavioral Health
  – Healthy Eating and Exercise

• Proposals should be responsive to the Robert Wood Johnson Foundation County Health Rankings
  – See guidelines for this list
Greenville Health Authority – Healthy Greenville 2036

Deadlines:

• Letter of Intent due November 14, 2017, 11:59pm
  – Description of project / program idea
    • Including which of Healthy Greenville 2036’s goals and measures of success that your idea will address.
  – Anticipated outcome (at least one)
  – Collaborative partners, if applicable.
  – Total budget request and description of how funds will be used

• If the project is invited to submit full application…
  – Proposals due February 28, 2018
Greenville Health System - Research Seed Grants

• Transformative
  – Population health or health system performance
    • Including quality of care, access to care, patient experience with care and other patient-relevant outcomes

• Diabetes
  – Prevention and intervention efforts broadly related to diabetes mellitus
    • Including delay of disease onset or progression, improved diagnosis or treatment, and enhanced quality of care

• Cancer Care Delivery Research
  – Investigation of how social factors, financing systems, organizational structures/processes, health technologies, and health care provider and patient behaviors affect cancer care access, quality, and cost
Eligibility
• All applications must include an investigator from GHS AND an investigator from a GHS HSC partner (Clemson, University of South Carolina, and/or Furman)

Deadline
• Monday, December 4, 2017 at 4:00 pm (EST)

Submission Process
• Email the application as a single PDF document to the GHS Office of Sponsored Programs: ResearchGrants@GHS.org

More Information:
• Website: https://hsc.ghs.org/seed-grants/
Greenville Health System
Office of Sponsored Programs
Employee Services Center
701 Grove Road
Greenville, SC 29605-4210
Email: ResearchGrants@GHS.org
Website: http://hsc.ghs.org/grants/

Hagan Walker
(864) 455-9861
HWalker3@GHS.org

Claire Stam
(864) 455-5772
CStam@GHS.org
Clemson Health Research Spotlight : College of Business

Dean Bobby McCormick, Ph.D.
LawrenceFredendall, Ph.D.
Clemson University
College of Business

Healthcare Research is Growing

Magda Sava
Healthcare Analytics

Kristin Scott
Leadership
Clinician Burnout

Yann Ferrand
ED Patient Care

Larry Fredendall
Patient Flow

Danny Weathers
Patient Satisfaction

Jennifer Siemens
Patient Experience

Management

Marketing
Collaboration Opportunity Spotlight

We’re All About Improving Orthopaedic Outcomes

Gary Hyman,
Executive Director
CUSHR Meeting
10/24/17
Drs. Wyland and Hawkins working with Steadman Hawkins Fellows in the Bioskills Laboratory.

Organized 2005 as a 501c3 Public Charity: Donations from industry, institutions and grants fund employees and supplies

Provides infrastructure for Research and Fellowship Education

Protocol Development
IRB submission
Data Collection
Data Analysis
Manuscript Development
Publication Submission
Bioskills Lab
We’re All About Improving Orthopaedic Outcomes
Clemson University Biomedical Engineering Innovation Campus

Jeremy Mercuri, Ph.D., Assistant Professor
Department of Bioengineering

John DesJardins, Ph.D.
Assistant Professor
Director of Bioengineering Abroad Programs
Department of Bioengineering
Upstate researchers: stem cells hold promise for future treatments

Liv Osby, losby@gannett.com  Published 7:25 a.m. ET July 24, 2015
2014 Samuel F. Hubert Award for his outstanding contributions to Clemson University’s bioengineering department.

David Neyens, Ph.D.
Assistant Professor
Department of Industrial Engineering

Karyn Jones, Ph.D.
Associate Professor of Communication Studies
Rationale, Mission, Approach and Tactics
Rationale

The **Key Question in Healthcare** is often:

- **Not** “Which treatment should be used by 100% of patients with a condition?”; … but rather

- **Which patients** should use each available treatment?

**Can We Figure Out “Which Rate is Right”?**

(John Wennberg, New England Journal of Medicine, 1986)
**Rationale**

Based on the notion that the value of a treatment for a given medical condition varies or is heterogeneous across patients.

→ Different effects on all “outcomes” both clinical and non-clinical

→ Different valuations over the range of “outcomes”
**Mission**

Promote innovative research to assess the effectiveness of MSK treatments *in practice* to provide clear and accurate evidence of MSK treatment value.

- We are *not* focused on finding *THE effective treatment*.

- Focused on finding the *effective mix* of treatments across a patient population.
Definition

**Effective Mix: The right treatments are provided to the right patients at the right time.**

*(reshuffling the treatment “deck” will not improve outcomes)*

*Implies that patients with the same diagnosis can be optimally treated differently.*
Tactics

• Develop databases which more information to improve causal inferences - “sufficient baseline information”.

• Ensure relevant outcomes are measured -- Measure what patients value.

• Develop methods to aid in all of the above:
  → Find ways to measure all required concepts.
  → Proper interpretations of treatment effect estimates … be our own _healthy skeptics_.
Orthopaedic Patient Repository

Baseline
- Patient Reported Outcomes
- Clinical Data
- Constraints
  Beliefs
  Preferences
- History Data

Process
- Surgical Data
- Physical Therapy Data

Outcomes
- Health System
  Resources/$

Treatment Choice Assessments
Treatment Effectiveness Assessments
Secondary School Athlete Repository (SSAR)

- Longitudinal database following students athletes from grades 6 to 12 in Greenville County.

- Prospective and unobtrusively collected.

- Measure baseline registration data, exposures, injuries, treatments, and outcomes.

- Injuries and follow-up recorded by athletic trainers provided by GHS to county schools.
Greenville County Secondary School Athlete Repository (SSAR)

**Student/Families**
- Roster/Eligibility
- Actually On Team
- Student Athlete Registration
- Health History
- Athletic Event Exposure
- # of games/practices

**GHS Athletic Trainers**
- Trainer Injury/Treatment Database
- Insurer Claims

**SSAR Database**
- Injury Rates
- Treatment Rates
- Injury by Sport
- Treatment Effectiveness
- Preventative Strategies
- And so much more.....
We’re All About Improving Orthopaedic Outcomes
Managing Abstinence in Newborns: Treating Narcotic-Dependent Newborns with a Novel Palliative Care Approach

Jennifer Hudson, M.D.; Rachel Mayo, Ph.D.; Liwei Chen, M.D., Ph.D.; Lori Dickes, Ph.D.; Windsor W. Sherrill, Ph.D.; Elizabeth Charron, M.P.H; Julie Bedi, Ed.D.
Upcoming Events

2nd Annual Dempsey Health Research Conference
Friday October 27, 2017, 9:30 a.m. - 3:30 p.m.
Greenville Memorial Hospital, Medical Staff Auditorium (MSA)
Come join as we build and strengthen bridges between research at Clemson and medical practice at GHS! Dr. Dan Simionescu and Dr. Kevin Taaffe will host a half-day research conference to highlight current work being done in their respective fields as it pertains to the improvement of the delivery of health care. Biomedical engineering work will be presented in the morning and industrial engineering work will be presented in the afternoon.
RSVP at Taaffe@clemson.edu.

Patient Engagement in Research: Transforming Care
Monday October 30, 2017, 12:30 p.m. - 2:00 p.m.
Greenville Memorial Medical Campus, SOM, Learning Studio 105 &106
All are welcome to attend a talk by Julie Moretz, the Assistant Vice President of Patient-and Family-Centered Care as well as the Chief Experience Officer for Augusta University Health. The event is hosted by GHS Health Science Center Research Division, GHS HSC Patient Engagement Studio, and GHS Patient Experience of Care Committee.

Diabetes Re-Imagined Health Symposium
Friday November 17, 2017, 12:30 p.m. - 6:00 p.m.
Furman University
This free event is presented by The Institute for the Advancement of Community Health and will highlight community, clinical and academic partnerships to reduce the impact of diabetes in our communities. Deadline to register is Oct. 25, 2017 (tomorrow). Visit the CUSHR Website to learn more about how to register.

Distinguished Lecturer Dr. Sandra Daack-Hirsch
Monday November 20, 2017, 5:00 p.m.
Greenville Memorial Hospital, Medical Staff Auditorium (MSA)
Clemson University School of Nursing’s Healthcare Genetics program will host distinguished guest, Dr. Sandra Daack-Hirsch of the University of Iowa. Dr. Daack-Hirsch has built a research program that bridges basic genetic science with real-world application by providers, educators, and families/parents. Her program of research is patient centered—with an emphasis on public engagement on issues related to the management of genetic/genomic health care information. Dr. Daack-Hirsch is currently the principal investigator on a funded project from the NIH entitled “Personal Perspective and Provider Communication of Genomic Risk for T2DM.” She is also leading a team of researchers to investigate the use of Prenatal Screening among clinicians and women in Iowa.
https://nursing.uiowa.edu/faculty-staff/faculty-directory/sdaackhi
Announcements

- **Save-the-date: Next CUSHR Meeting**
  February 1, 2018 8:00-9:30 AM

- **New Health Research Faculty Breakfast**
  Nov. 30 at 8 a.m. Location TBA
  
  Please send names of faculty who have been hired in the last two years to cushr@clemson.edu

https://www.clemson.edu/health-research/