SCTR: Collaboration and Multi-Disciplinary Team Science

Jeffrey J. Borckardt, Ph.D.
Assistant Provost, Interprofessional Initiatives

Associate Professor
Department of Psychiatry and Behavioral Sciences
Department of Anesthesia and Perioperative Medicine
Department of Stomatology

Medical University of South Carolina
National Center for Interprofessional Practice and Education

• The NCIPE leads, coordinates and studies the advancement of **collaborative, team-based** health professions education and patient care

• Serves to develop efficient models for improving **quality, outcomes and cost** in healthcare.

• By aligning the needs and interests of education with health care practice, we aim to create a new shared responsibility—what we call the “Nexus”—for **better care, added value and healthier communities**.
National Center for Interprofessional Practice and Education
CTSA Hubs
CTSA + NEXUS Hubs
SCTR: Translational Science Base

Collaboration & Multidisciplinary Team Science

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- Solving complex clinical and translational science problems demands collaborations between investigators from multiple disciplines.
- SCTR has been fostering these collaborations through
  - Scientific retreats that lead to new research teams
  - Requiring that investigators who are funded in the Pilot Project program are part of a multidisciplinary team
  - Ensuring that all SCTR-supported programs are designed to maximize opportunities for collaboration.
Collaboration & Multidisciplinary Team Science

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**Aim-1:** Develop and Support New Programs and Initiatives that Promote Team Science Research

- Small Grants Program
- Statewide Online Virtual Community of Team Scientists
- SCTR Retreat Activities to Promote Team Science
- Incentivize Team Science through University Policy
Aim-2: Provide novel educational programs that teach best practices in team science to our research workforce

- New Team Science Courses and Lecture Series
- Promoting Team Science Through New Educational Initiatives. CAPSULE (Collaborative and Practical Skills in Multidisciplinary Learning Experiences)
Collaboration & Multidisciplinary Team Science

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- **Aim-3:** Collaborate with other CTSA hubs to co-develop, disseminate, and adopt best practices
AIM-1
Small Grants Program

• Recurring small grants program to fund investigator-initiated "Science of Team Science (SciTS)" projects to examine the methodology and outcomes associated with interprofessional translational team science approaches.

• As an example, SCTR and the Office of Interprofessional Initiatives recently co-funded a proof-of-concept pilot study to examine the value of an educational intervention on a multidisciplinary CTR team.
**AIM-1**

Statewide Virtual Community of Team Scientists

- Build an **online community** where team science investigators can post their interests, findings and future directions to encourage multi-site collaboration.

- This will be akin to a social media application for team science within SCTR and the CTSA Network.

- We will place **QR-Codes** that can be scanned with phones (ScanLife) to facilitate linkage of potential collaborators.
AIM-1

SCTR Retreat Activities to Promote Team Science

• Continue to hold statewide scientific SCTR retreats focusing on topics that lend themselves to team science approaches involving investigators across the translational research spectrum.

• A new component of the retreats will be Team Science “Speed Dating” sessions to promote formation of new interprofessional translational research teams.
AIM-1

Incentivize Team Science through University Policy

• OII led a successful initiative to modify the appointment, promotion and tenure guidelines across all MUSC colleges to credit faculty for activities pertaining to interprofessional education and practice.

• Further modify APT guidelines to credit faculty for interdisciplinary, interprofessional team science activity.

• We will examine current best practices, and develop operational definitions and metrics appropriate to measure contributions to team science.

• Lead another initiative to investigate incentivizing team science by modifying the policy regarding payments of F&A costs on grants to departments.
AIM-2

New Team Science Course and Lecture Series

• The University-wide Interprofessional (IP710) course, which is required for all students across the Colleges at MUSC, has been successfully developed and implemented over the past 10 years.
• Update the course curriculum to include content pertinent to team-based, translational science
• The course materials will be made available for all staff, scholars and faculty.
• Additionally, we launched a new Team Science course as a part of the MSCR Curriculum in January 2015. This will become a required component of the curriculum for all KL2 Scholars, TL1 Trainees and participants in the Community Engaged Scholars Program.
• We will establish a monthly Team Science Special Topics Lecture Series open to all students, faculty and staff
AIM-2
C.A.P.S.U.L.E.

- SCTR and the Office of Interprofessional Initiatives will collaborate in developing a new program called CAPSULE—
  - Collaborative and Practical Skills in Multidisciplinary Learning Experiences
- This program is modeled after the CLARION case competition.
  - CLARION is a student-driven, staff/faculty-advised interprofessional experience including lessons in leadership, teamwork and communication with a primary goal of having participants appreciate the skills that each profession brings to improving healthcare and patient safety through interprofessional collaboration.
- In CAPSULE, teams of trainees from at least two professions/disciplines at any SCTR site will be charged with designing a research project or program with an advisory team using optimal team science practices.
- Regional or national competitions open to all CTSA hubs could follow.
Example CAPSULE Project

• Teams of trainees are charged with developing a plan to take a specified therapeutic discovery to market through the development of a biotech company.

• This requires establishing officers for the company, a development plan, patent search, licensing agreement, business plan, and Phase I-III clinical trials.

• The teams’ members will select an interprofessional team of two mentors from the participating staff, faculty and other professionals in the Technology Transfer and Entrepreneurship Centers and the Clinical Trials Design Center

• Judges will evaluate the quality of the overall plan.
**AIM-3**

Collaborate with other CTSA hubs

- As part of the **CTSA Team Science Affinity Group**, SCTR investigators are participating in a peer network of 25 team science educators, evaluators and facilitators at 10 CTSAs in testing and disseminating best practices in translational team science.

- The group developed a web- and seminar-based Team-building Program for translational team science to be piloted at 7 participating CTSA sites beginning in Feb 2015.

- SCTR is one of the 7 participating institutions.

- After refinement, the modules will be provided to the CTSA consortium for implementation and local adaptation. This tool will enable the consortium to employ evidence-based approaches in supporting team-based collaborations.
Summary

• Several new team-science programs and initiatives are currently at different stages of development and implementation at MUSC

• Synergy between SCTR, the Office of Interprofessional Initiatives, and the National Center for Interprofessional Practice and Education will add to the momentum

• We seek to
  – Develop and support new programs and initiatives that promote team science research.
  – Provide novel educational programs that teach best practices in team science to our research workforce.
  – Collaborate with other CTSA hubs to co-develop, disseminate and adopt best team science practices
Questions?