



Implementation Science and Learning Health System Collaborative

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Albert Einstein College of Medicine

Montefiore

Dissemination and Implementation Science/ Learning Health System Collaborative

Provides resources for designing and implementing **research that translate effective strategies to improve health into practice in clinical settings and the community**

- Health services research (HSR)
- Patient centered outcomes research (PCOR)
- Comparative effectiveness research (CER)
- Dissemination and implementation science (D&I)



Sharon Rikin, MD, MS
Director



Sarah Lewis Sack, MHA
Administrator

Questions for EAC

- How do CTSAAs navigate dual responsibilities of generating new knowledge (**research**) and disseminating and implementing new knowledge into practice (**operations and QI**)? What resources are there to support D&I?
- What are successful models or processes for facilitating pragmatic research requiring **electronic medical record-based clinical decision support**?
- What **LHS frameworks** are other CTSAAs using to optimize collaboration with Learning Health System (top-down vs. bottom-up initiatives)?

Responses to EAC Recommendations

- There are a number of good projects, but the module seems to be project-specific and focused on engagement in the projects of others instead of ICTR-driven initiatives. It was **not clear where ICTR is the leader or initiator on these projects.**
- It was not clear what the overall framework was. **Consider clarifying which LHS framework or frameworks serve as a guide or roadmap for this module.** Consider a learning collaborative similar to the ‘NIH collaborative.’
- The EAC understands the challenge of participation in an implementation science working group and grand rounds and **recommends crowdsourcing strategies to engage and generate ideas**
- Consider **meeting with health system leaders to find out what their priorities are,** using existing meetings. Including the community to see how the research process works, especially through the CCC, could help support involvement and engagement.

Module Goals and Alignment with ICTR Strategic Goals

ICTR Strategic Goals

Catalyze and support research to advance translational science

Facilitate community and stakeholder engagement throughout the translational process

Create and **implement** state-of-the-art scientific resources, services, and informatics capabilities to facilitate CTR

Develop and maintain a skilled, multidisciplinary translational workforce to support and lead high-quality CTR

Partner with other CTSA hubs and CTSA consortium to accelerate TR and rapidly respond to public health emergencies

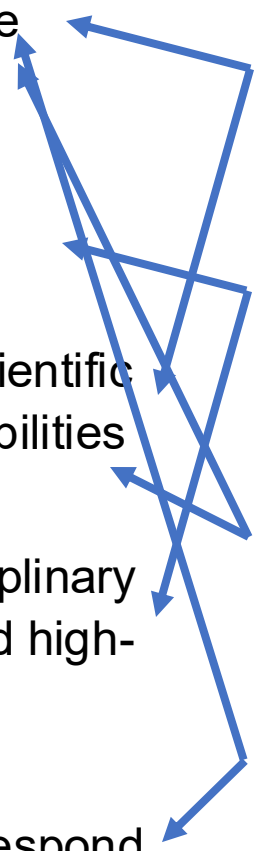
Implementation Science / Learning Health System Goals

Research infrastructure: Build implementation science and LHS research infrastructure

Education and Consultations: Enhance capacity to perform IS/LHS research

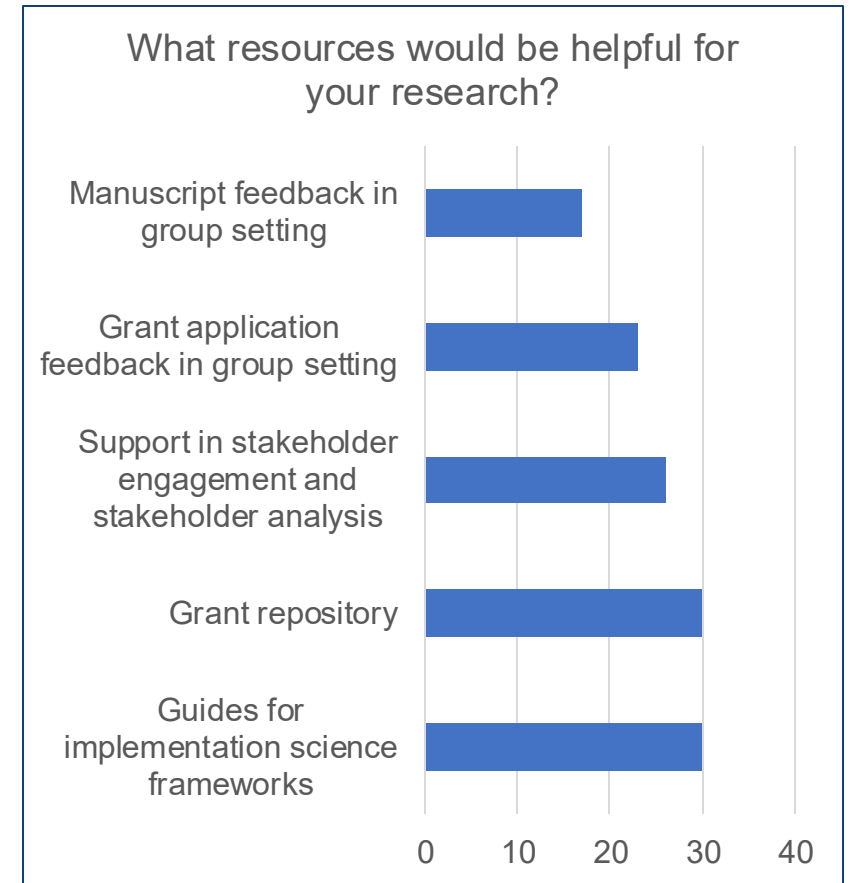
Operations: Alignment of research with health system priorities

Innovations and Projects: Stimulate and support research in priority areas



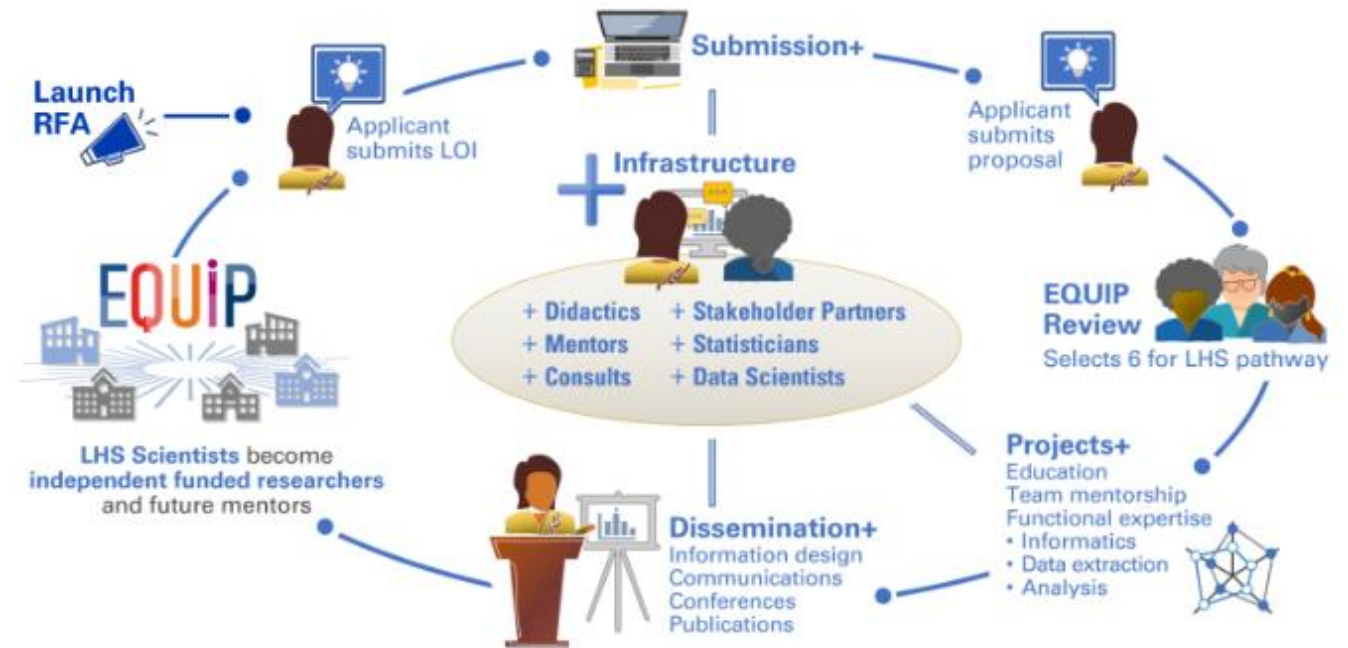
Accomplishments Year 3

- Established **LHS Research Advisory Board**
- **Refined IS/LHS research services** based on working group input
 - Consultative services
 - Monthly works-in-progress seminars
 - IS workshops
 - IS course in CRTP program
- Hosted quarterly **IS/LHS Grand Rounds**
- Facilitated **EQUIP+ Center for LHS Science** (AHRQ P30)
- Launched **Shiu Y. Kwok, MD, PhD Learning Health Systems Scholars and Pilot Grants**
- Supported **NYC RING, Primary Care Practice-Based Research Network**
- Participated in **PCORI Health Systems Implementation Initiative**



Collaborations Across ICTR, Nationally

- Collaboration with **Columbia and Cornell CTSA** through EQUIP+ Center for LHS Science (AHRQ P30)
- Collaboration with Behavioral & Implementation Science Core of the **Einstein-Rockefeller-CUNY Center for AIDS Research (ERC-CFAR)**
- Participation in **CCOS Learning Health Systems - Clinical and Translational Science Awards Partnerships Working Group Collaborative**



Impact

- LHS Advisory Board identified **5 priority areas** which will guide ICTR supported research mechanisms (i.e., EQUIP+, Kwok Pilot Grants)
- Submitted **RC2 to support building inpatient LHS research infrastructure**
- Provided input on **6 research initiatives** through IS working group and consultation services
- Held **3 IS Grand Rounds**
- Supported **2 LHS Scientists** through EQUIP+
- Received **16 LOI** for Kwok LHS Pilot Grants, invited 12 to submit application
- NYC RING facilitated **7 primary care-based research initiatives**, participation in PCORI HSII facilitated **2 M-E LHS initiatives**

Montefiore - Einstein Health System Research Priorities	
Digital Health and Artificial Intelligence in Clinical Practice	<ul style="list-style-type: none">• Integrate tools for diagnostics, decision support, and workflow optimization
Patient Experience	<ul style="list-style-type: none">• Enhance patient-centeredness of care delivery
Workforce Initiatives and Healthy Work Environment	<ul style="list-style-type: none">• Address burnout, retention, and team-based care
Increasing Participation in Clinical Trials	<ul style="list-style-type: none">• Improve access, and integration of trials into routine care
Age-Friendly Health Systems	<ul style="list-style-type: none">• Improve comprehensive, coordinated care for people ages 65 and older

Innovations and Unique Capabilities

- Enhancing LHS infrastructure and research, is one of **Einstein's strategic plan initiatives**
- Alignment of LHS research with health system priorities is supported by **Montefiore leaders**
- Input from **40 engaged IS/LHS working group members** will shape ICTR activities for upcoming year
- Building capacity for LHS scholarship through new **Kwok LHS Pilot Grants**
- Strong **collaboration within the ICTR** between IS / Informatics / CCC will catalyze research opportunities



**EINSTEIN
STRATEGIC
PLAN 2030**
FORGING OUR FUTURE TOGETHER

Dissemination

- Implementation Science / Learning Health Systems working group
- Montefiore Health System PCORI HSII committee meetings
- National scientific meetings, e.g., ACTS, Academy Health

Planned Initiatives Year 4

- Collaborate with Montefiore and Einstein leaders to create model for IS/LHS research for **high priority areas**
- RFA **EQUIP+ Center for LHS Science**
- Provide support to inaugural **Kwok LHS Pilot Grant Scholars**
- Hold **IS/LHS working group meetings, grand rounds, and workshops**
- Build **IS/LHS infrastructure** for facilitating pragmatic trials which require electronic medical record-based clinical decision support

IMPLEMENTATION SCIENCE GRAND ROUNDS

Sponsored by the ICTR Dissemination and Implementation
Science/Learning Health System Collaborative

**Blueprints for change: Designing Precise,
Mechanism-driven implementation strategies**



Nathalie Moise, MD, MS

Associate Professor of Medicine
Director of Implementation Science (The Im_Sci Lab)
Center for Behavioral Cardiovascular Health
Columbia University Irving Medical Center

Nathalie Moise, MD, MS, FAHA is an internist, Associate Professor of Medicine, and Director of The Im_Sci Lab at the Center for Behavioral and Cardiovascular Health dedicated to implementing mechanism-driven interventions in patients with coexisting mental and physical conditions. She has worked in health services research for more than 15 years and is PI/MPI of several federally funded grants (NIH, AHRQ, PCORI) leveraging hybrid effectiveness-implementation trial designs to test implementation and de-implementation strategies for promoting behavioral interventions in health care settings. Most recently she serves as MPI of both the EQUIP Learning Health System Center grant and Roybal Center for Fearless Behavior Change. The ImSci Lab has conducted hundreds of implementation science consultations internationally with policymakers, industry, and healthcare systems. Dr. Moise has published extensively in the areas of behavioral implementation science, patient engagement/adherence, and clinical inertia. She has served as a faculty member for implementation science training programs at UCSF, Washington University in St. Louis and NHLBI. She is an Associate Editor of *Implementation Research and Practice*, founding member of the *American Heart Association's* Implementation Science Committee and co-chair of the AHA Health Care by Food Community Engagement and Implementation Science Taskforce.



Wednesday, October 22 at 12pm

Scan QR code to register

Q & A

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