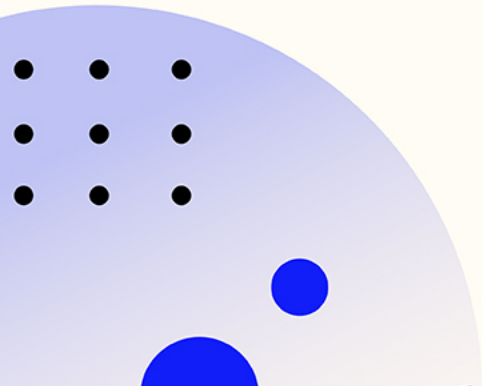




NYGH Emergency Department Research Strategic Plan



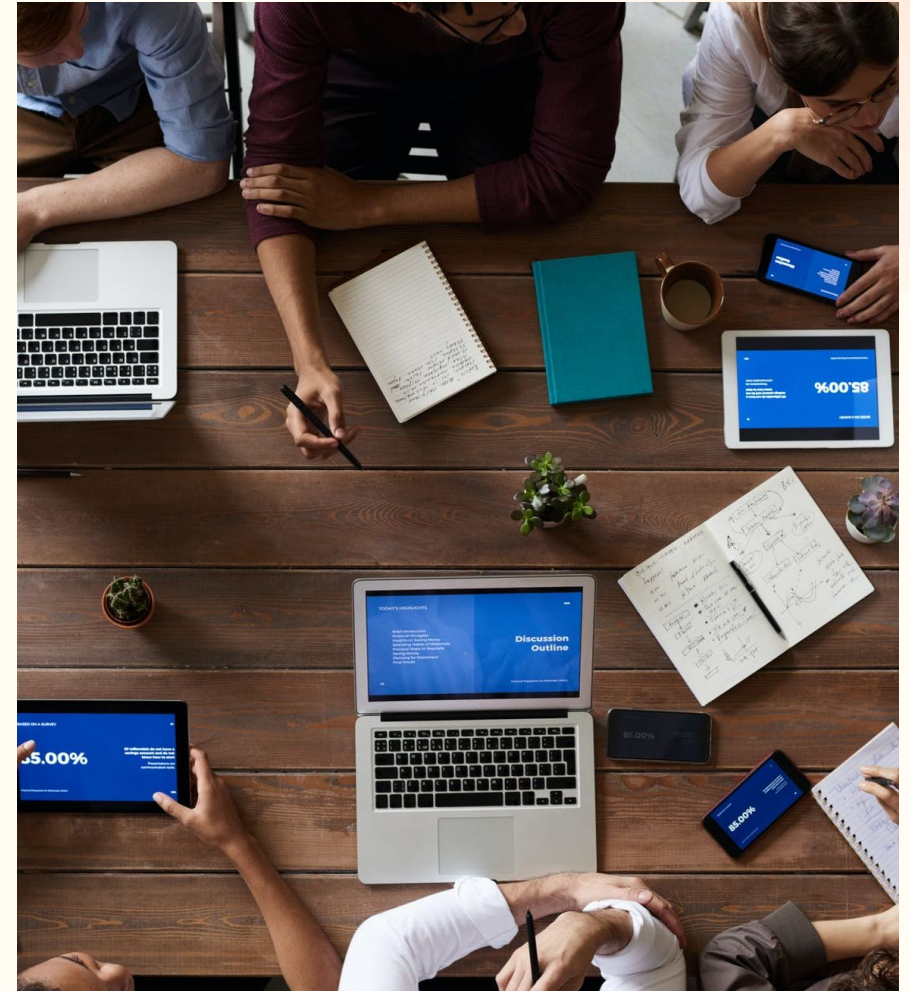
January 2023



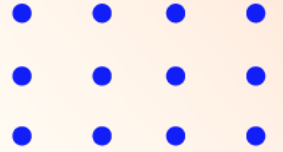
Strategic Planning Meeting

October 28, 2022

- Thank you to everyone who attended
- Thank you to our facilitator
- Two main outputs
 - Revised and achieved **consensus** for criteria for evaluation criteria for research priorities
 - Developed plan for ED research lead to select priorities based on **interests, skill set, and passions**



Research priority evaluation criteria



- 1 | Relevant, important, and applicable to our community
- 2 | Where knowledge gaps exist and/or where existing knowledge could be applied to our context
- 3 | Should fit with our organizations values, goals, and strengths
- 4 | Feasible and with possible funding sources in our research setting



Thinking Beyond

Together we are making a world of difference by thinking beyond our current role to how we can have an even greater impact on health and wellness in the future.

Thinking Beyond The Ordinary People Come First in Everything We Do

- People-centred care innovator
- Place of health, wellness and healing for all
- Environment for education, discovery and development
- Empowered people across the organization
- A culture of equity, diversity and inclusion

Thinking Beyond What We Know Be an Exceptional Learning Community

- Learning health system
- Better data and analytics
- Commitment to quality
- Leading teaching hospital
- Applied community health research



Thinking Beyond Our Walls Drive the Future of Integrated Care

- Partnerships to create connected care experiences
- Central role for primary care
- Digital platforms and virtual care
- Access to community care
- Health and wellness throughout our communities

Thinking Beyond Today Investing in a Better Tomorrow

- Healing and supportive care environments
- Partnership with donors and the Foundation
- Financial sustainability
- Reduced environmental footprint

Our Values: Excellence • Respect • Integrity • Compassion • Collaboration

SREMI focuses on conditions where emergency practitioners play a key role in patient care



CONNECT

-  www.sremi.ca
-  @SREMI_MSH
-  SREMI@SinaiHealth.ca
-  416.586.4800 ext 8330



ED Research Priorities - Areas of focus



Refugee and recent migrants



Cardiac Arrest

Refugee and recent migrants

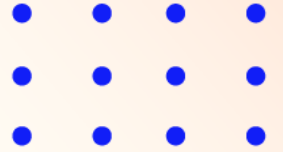
Criteria for priority areas of research

- A population we see frequently
- Many existing gaps in care
 - Most we don't even know about yet
- Aligns with hospital focus on providing exceptional health care to diverse communities
 - Applicable to most research chairs areas of expertise
 - Aligns with mission statement for SREMI
- Many funding sources



Phase 1: Identify Gaps in Care

Refugee and recent migrant ED care



Systematic Review

Patient interviews



Identify system gaps in care

Identify current care patterns

Identify patient-centered gaps in care

Identify practical gaps in care

Chart Review

ED staff survey

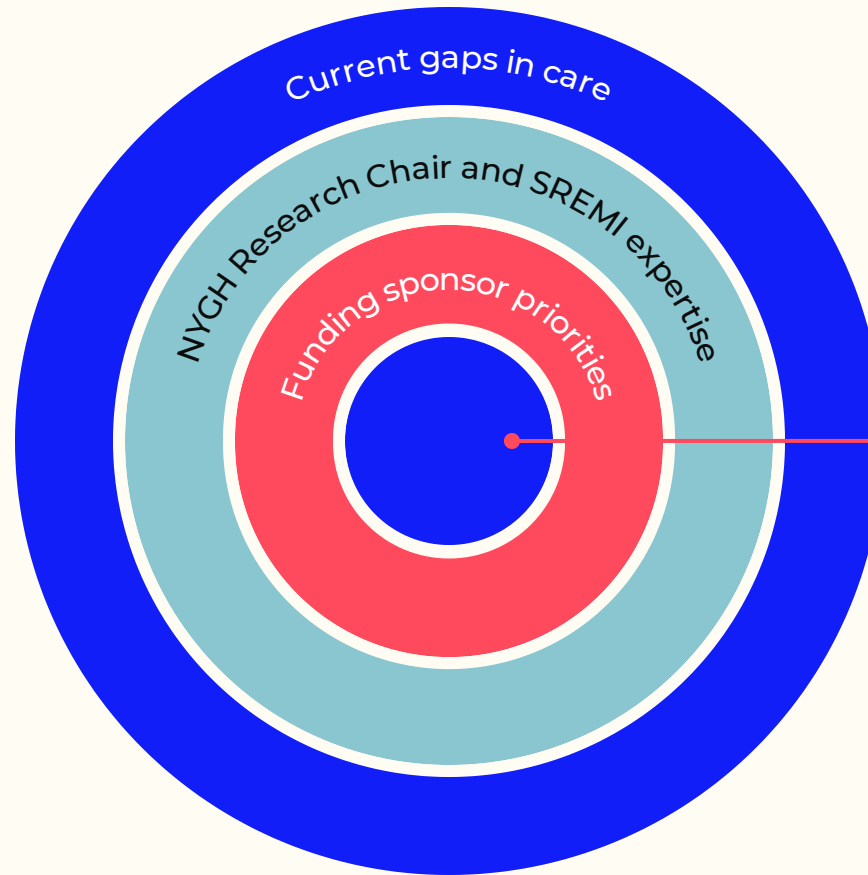


Phase 2: Identify research topics

Refugee and Recent Migrant ED Care

Prospectively
collected registry
of ED visits

Links to:
Geriatrics
Patient Safety
Quality
Improvement
Primary Care



New
research
and
knowledge
translation



Milestones

Refugee and recent migrant ED Care

Able to identify gaps in care provided to this population

Locally or system wide

Engagement with patient representatives

Essential to ensure we are addressing issues that are important and in a way that is sustainable

Obtain funding

To support patient interviews and surveys

Local or national grants

Successful research outputs

Manuscripts

Presentations

Media

ED Research Priorities



Refugee and recent migrants



Cardiac Arrest

Cardiac Arrest

- A big part of the care we provide as a community hospital
 - Personal connection after the loss of Dr. Hannam
- Research priorities have already been established by NYGH chair Dr. Katie Dainty
 - Improving the survivorship and follow-up experience **for opioid related cardiac arrests**
 - Improving the survivorship experience and public education for **refugee and migrant population** after cardiac arrest
- Hospital and SREMI goals and values
 - Diverse, under-served and under-represented populations
 - Integrated care
 - Care beyond the hospital walls
- Funding opportunities
 - Partner with Dr. Dainty
 - CanROC/Heart and Stroke



Phase 1: Identify Gaps in Care



1 | Literature Review

Existing knowledge regarding the survivorship and post-arrest care models for these populations

2 | National registry review

Review new data from CanROC regarding opioid induced cardiac arrest

Link with other databases to establish health care utilization post opioid cardiac arrest

3 | Identifying cardiac arrest in refugee and migrant populations

4 | Engage patients and community partners

- Patient interviews
- McNally Paramedicine Institute
- Harm reduction organizations

5 | Survey ED providers

Identify challenges for organizing post-arrest care

Phase 2: Innovation for post-arrest care





Milestones

Opioid and refugee post arrest care

Identify gaps

At our sites

Nationally

Internationally?

Engagement with community

Patient representatives

Community leaders

Harm reduction advocates

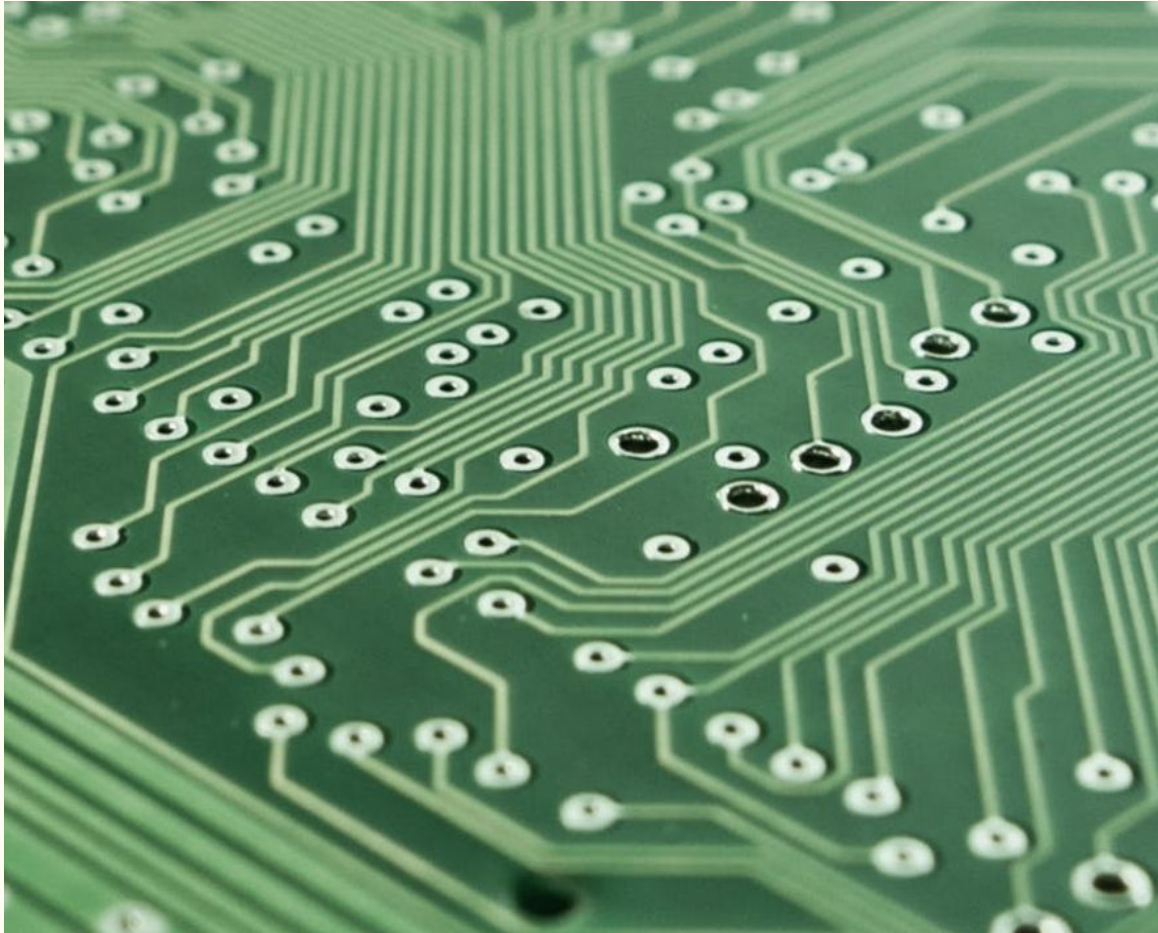
Establish linkage

Be able to connect what we have with other databases that can tell us about health outcomes

Improving identifying patients

Work with CanROC to develop better demographic identifiers

ED Research Priorities - Areas of collaboration



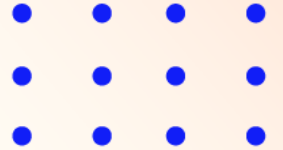
Artificial Intelligence and ED Care



Care of the elderly

Artificial intelligence and emergency medicine

Evaluation Criteria



- Becoming more common in routine care in other specialties

- Very limited research published so far

Most studies come from the AI lens, not the clinical perspective

- NYGH striving to be a leader in integrated digital health

Dr Sedjic, Research Chair in AI at NYGH

- Funding opportunities

Good area to focus on post-graduate trainees with Dr Sedjic cross appointment in Computer Engineering





Phase 1: Identify topics for research

AI and Emergency Medicine



NYGH & NYTHP
Digital Health
Strategy

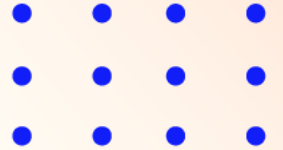


ED leadership is developing a list of top 10 priorities for technology solutions



Phase 1: Identify topics for research

AI and Emergency Medicine



Further review with Dr.
Sedjic



Finalize top 3 project ideas

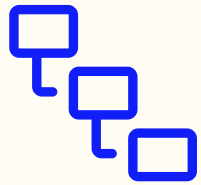
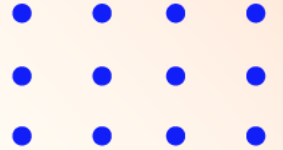


Link with decision support
or other data guardians



Phase 1: Identify Clinical Areas

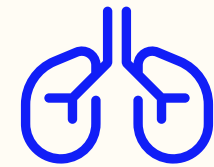
AI and Emergency Medicine



Access to ALL data points



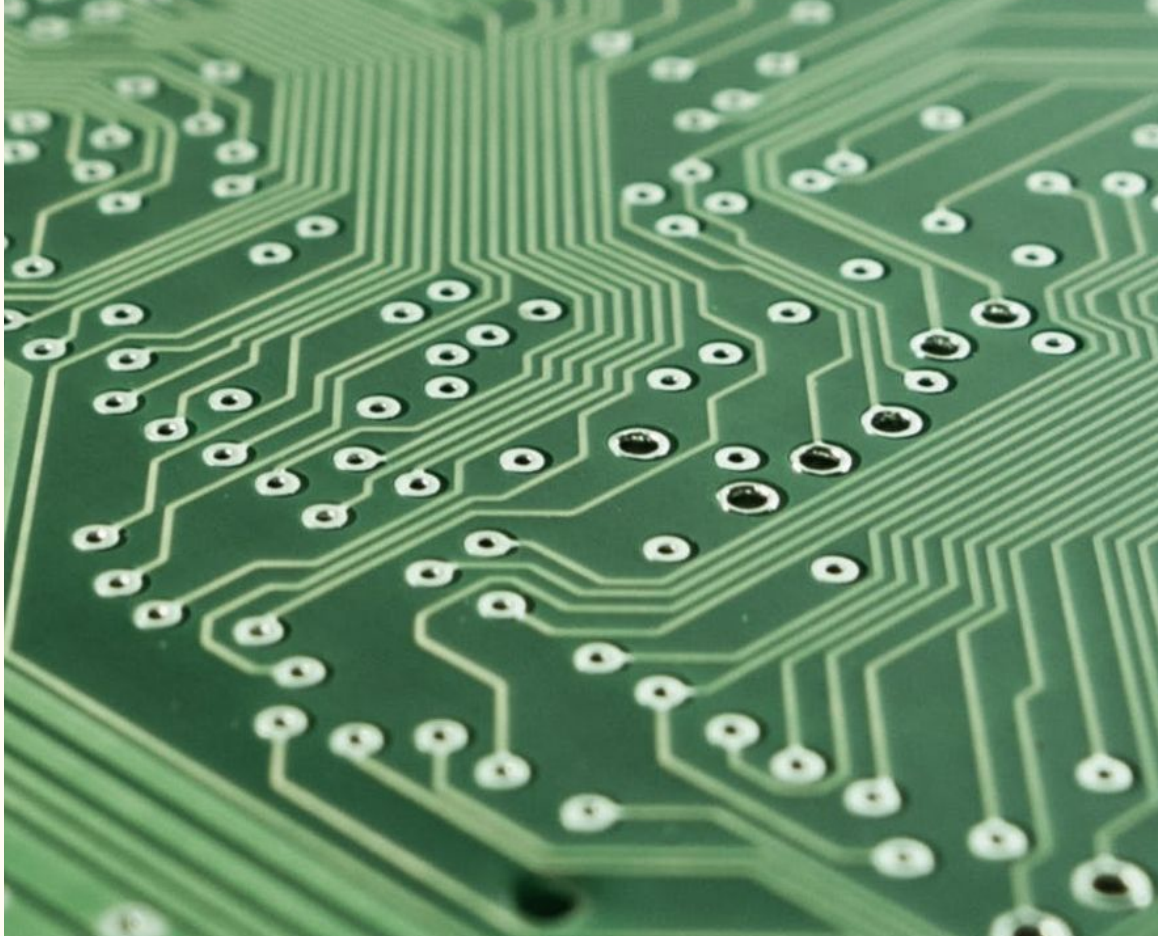
Patient level impact



Fitting into clinical practice



ED Research Priorities



Artificial Intelligence and ED Care



Care of the elderly



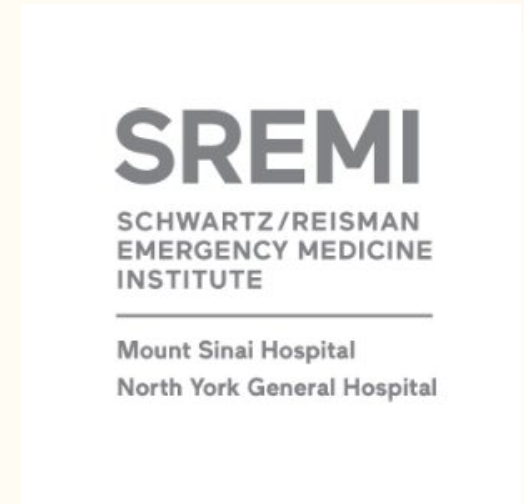
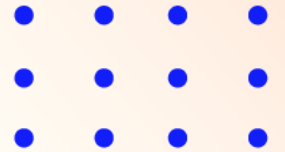
Care of the Elderly

Evaluation Criteria

- Identified as a priority area by ED leadership and staff
- High volume of elderly patients
- Many opportunities for improving care and the patient experience
- Priority for many funding agencies

Care of the Elderly

Goal is to support the research chair, geriatric EM fellows, and mission and goals at SREMI





High Priority

Timeline



2023

- Identify gaps in care
- Adapt current infrastructure
- Pilot/feasibility grants



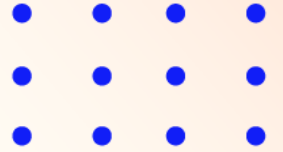
2028

- Evaluate successes
- Review strategic plan



2024-2027

- Achieve major milestones
- Obtain local and national funding
- Engage graduate students





Thank You!

