Faculty of Health Science

Research Enrichment Plan

BIG IDEAS
... begin here.

Western Health Sciences
• Social and health care systems
• Community infrastructure
• 14 million Canadians no family physician
• Poor Coordination
MSK-IF integrates all four FHS research priorities:

1. Mobility
2. Health Equity & Social Inclusion
3. Health Research in a Digitalized World
4. Transformative Health Care

Western goals to:
Triple Aim 2007
1. Improved Patient Experience
2. Better Outcomes
3. Lower Costs

Quadruple Aim 2014
4. Clinician Well-Being

Quintuple Aim 2021
5. Health Equity

Better Health
Improved Economy
Goal: to solve patient and front-line clinical problems in MSK health through co-design; and achieve efficient implementation

- Useful
- Useable
- Unbiased
Co-Designed Patient Interventions

- **Problem Identification**: Patients, Others, Clinicians
- **Conceptual Framework**
- **Prototyping**: Stakeholders, Validation
- **Synthesis**
- **Innovation and Consultation**
- **Usability Evaluation**: Useful, Usable, Unbiased
- **Pilot Testing**
- **Evaluation Clinical Trials**
- **Scale-up Translation, Transfer, and Phenotyping**
MSK-IF launches innovations - helps investigators attract external funding for clinical research

Investigator seeks independent funding
Inputs to proposal followed by independent adjudication

Patient Advisory Committees
Consultation with Front-line Clinicians
Formal Priority Setting exercises
Qualitative Research
Surveys of Patient Preferences

Innovation and Consultation to engage others

Think Tanks
Web Forums
Shared graduate trainees

Clinical Partners

The Fowler Kennedy Sport Medicine Clinic,
The Hand and Upper Limb Centre,
Victoria Hospital Spinal Program
Joint Arthroplasty Group
MSK-IF launches innovations- helps investigators attract external funding for clinical research

Investigator seeks independent funding
What we do

• develop prototypes ready for feasibility/useability evaluation in MSK clinical practice
• 1 hour free consults on related technology related experience
• Provide technical support to projects aligned with mission
• Help with useability testing
• Provide relevant development software access
  – Animation, video editing, project planning, analysis etc

What we do not do

• Population health/generic health promotion
• Basic science
• Development of top down ideas, prototypes with unknown application need not developed to improve patient or clinician experience
• Provide $ for project grants
• Provide $ to students
Linking network and expertise

Collaborators within FHS

Collaborators external to FHS

Collaborations external to Western

National & International Collaboration
MSK Rehab Research Network
CaNMOR
Ortho/MSK programs and professional societies
Lawson
National Spine Registry
Canadian Pain Task Force

Partners

Kinesiology
FIMS
Trauma-Informed Care
Indigenous Initiatives
Computer Science
Allied Health
Schulich SMD
Social Sciences
Visual Arts
Engineering
Health Informatics

Nursing

Western Bone and Joint Institute

FIMS

Roth McFarlane Hand & Upper Limb Centre St. Joseph’s Healthcare London

Fowler Kennedy

CANSpine