

Clinical Research | Clinical Care

- **Investigator Driven**
- **Industry Sponsored**
- **Technology and Innovation**
- **Registries**
- **Discoveries**
- **Best Practice Development**



Centre de réadaptation
STAN CASSIDY
Centre for Rehabilitation
Towards Independence / Vers l'autonomie

Colleen O'Connell, MD FRCPC

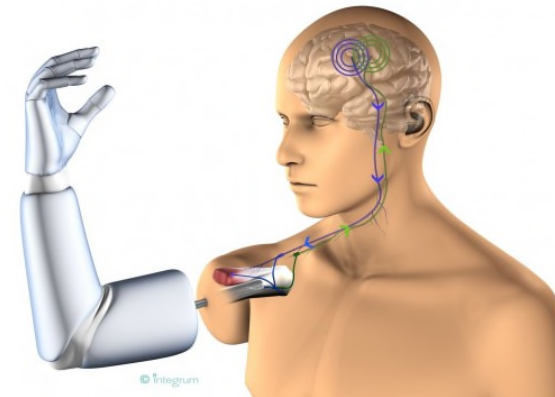
Research Chief – Stan Cassidy
Centre for Rehabilitation

Assistant Professor –
Dalhousie Faculty of
Medicine/Memorial
University

Symbiotic Mutualism



Clinical Research



Practice-based Research

- Research conducted by providers in clinical practice
- Final step in translational research continuum



Patient-oriented



- 17 pharmacologic trials
 - 3 investigator driven
 - >1M
 - Current 11 staff PT funding (4 trials)



- 9 technology trials
 - 100K CFI eksoskeleton
 - Biotone – 2.4M
 - Industry (Myndmove, Sensimat, B-Temia)

Recent Grants - 2016

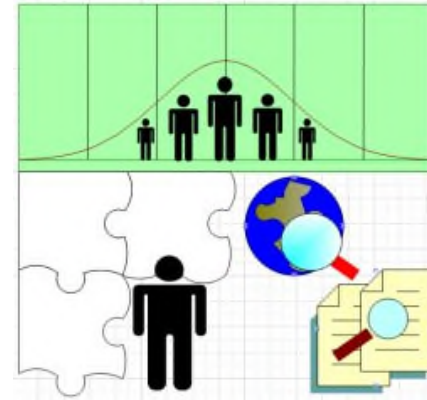
- ALS Discovery Grant – SCCR/Vitalite – 100K
- ALS Clinical Management – SCCR/McGill – 200K + matching industry
- RHSCIR - \$40K
- CFI – 100K
- CNDR - \$16K
- Myndmove - \$200K (4 sites)

Evidence Based Practice



Epidemiological and behavioural

- ALS-NB Cluster Study
- ALS Quality of Life Validation
- ALS Research Readiness
- Canadian ALS Registry
- Canadian NMD Registry
- RHISCIR



- Summer research students
- National presentations/publications

Benefits to Patients and Systems

- Improvements in Infrastructure:
 - Access to new equipment and technology
 - Access to novel therapies
 - Acquisition of new skills
- Improvement in Outcomes:
 - Greater adherence to treatment guidelines
 - More use of evidence-based practice
- Staff attraction/retention
- Improved research literacy
- Culture of enquiry and critical appraisal of practice

Canadian MS Survey

“ Hope to find a cause and cure.”
- Alberta participant

“ MS research represents hope – it is most powerful morale booster to someone living with MS.”
- Ontario participant

“ Hope for all people dealing with all aspects of MS.”
- Saskatchewan participant



New Brunswick Prevalence

Multiple Sclerosis: 1300-1800

Amyotrophic Lateral Sclerosis: 60 patients

SCI – 30 new annually

Muscular Dystrophy and related: 250

Parkinsons Disease, Huntingtons, Spinocerebellar Ataxias....

Breakfast-Wednesday April 06, 2016



Research Networks

- Canadian ALS Clinical Trials and Research Network
- Rick Hansen Institute Spinal Cord Injury Research Leadership Team
- SCI – Knowledge Mobilization Network
- CCIC
- Atlantic Mobility Action Project
- End-MS Research Network
- Canadian Neuromuscular Disease Research Network
- Canadian Neuropulmonary Research Network

Conclusion

- Clinical research compliments clinical practice
- Creates jobs, brings in equipment, expertise and positive outcomes
- Participation in national/international research networks and registries can facilitate participation and improve efficiencies

