# **Clinical Research at Sick Kids**

Colin Macarthur MBChB, PhD Associate Chief Clinical Research MICYRN Workshop May 2011



## Outline

- Context for Clinical Research at SickKids
  - local, provincial, national, international
- Clinical Trials Activity at SickKids
- Development of a Clinical Research Infrastructure
- Challenges and Indicators of Success





#### Vision

"A world leading center for children's health research where the research drives clinical change and clinical questions drive the research"



#### **Provincial Context**

#### Bill 46: Excellent Care for All Act 2010



Hospital Quality Committee

"To ensure that best practices information *supported by available scientific evidence* is translated into materials that are distributed to employees and persons providing services within the health care organization, and to subsequently *monitor the use of these materials* by these people"



#### **Provincial Context**

#### Bill 46: Excellent Care for All Act 2010



Ontario Health Quality Council

"Making recommendations, based on evidence.....

on standards of care based on practice guidelines, and

concerning the provision of funding for health care services"



## **National Context**



#### **Strategy for Patient Oriented Research**

- Improve research infrastructure (SUPPORT UNITS)
- Training of clinician researchers
- Strengthen regulatory support for multi site studies
- Support best practices in health care



**International Context** 

#### National Center for Advancing Translational Sciences

basic discoveries into therapeutics development

#### **NIHR Clinical Research Network**

6 topic areas (medicines in children)







## **Strengths**

- Clinical staff
- Scientists
- Diverse and large volume patient population
- Affiliation with University of Toronto
- Academic and Research partnerships (local, national, international)



## **Clinical Trials Activity at SickKids**





## **Clinical Trials Activity at SickKids**

Clinical Trials by Clinical Division Studies Approved April 1, 2010 - March 31, 2011 N=67 (43 Pls)





## **Clinical Trials Activity at SickKids**

Clinical Trials by RI Status of Principal Investigator Studies Approved April 1, 2010 - March 31, 2011		
RI appointment	Number of Studies	%
(Senior) Associate Scientist	28	42%
Project Investigator	27	40%
(Senior) Scientist	12	18%
Total	67	100%







## Challenges

- Integrate clinical research into RI
- Ensure clinical researchers are connected, valued, and respected
- Overcome planning fatigue
- Ensure collaboration among multiple players
- Alignment of strategic goals (RI, Hospital, Centers, Clinical Research)
- Key performance indicators



### **Indicators of Success**

- Development of a coordinated, integrated research infrastructure
- Capacity Building
  - Clinicians
  - Scientists
  - Trainees
- Academic indicators (funding, papers, awards)
- Health and well being indicators
  - Influence on practice (guidelines, outcomes)
  - Influence on policy (service delivery, outcomes)



#### Vision

"A world leading center for children's health research where the research drives clinical change and clinical questions drive the research"









## Vision for Clinical Research at Sick Kids

- World leader in informing child health practice and policy through knowledge generation, synthesis and translation
  - Enhance clinical research productivity
  - Enhance the use of research in health care (by families, providers, and policy makers)
  - Optimize the health of children (and their families)
  - Contribute to an efficient system of care for children

