

H on the Hill

Top 10 Reasons Research Hospitals=National Assets

(Fact sheet 4)



Q: What is a research hospital?

"A patient care organization with a publicly stated tripartite mandate of patient care, training and research"



Members of HealthCareCAN: Leading patient care organizations across the country including the majority of the country's research hospitals (AHSCs).



#1 Research hospitals= Here for All of Us



#2 Research hospitals= Jobs and Care



#3 Research Hospitals =Helping the broader agenda



Minister of Science
"Examine options to strengthen ...support for fundamental research"



Minister of Health
"Advance pan Canadian collaboration on health innovation..."



Minister of Innovation, Science & Economic Development
"Develop an innovation agenda that includes..."



Minister of Finance
"work to ensure that tax measures encourage innovation..."



#4 Research Hospitals = Top 100 Infrastructure Projects

Top 100
Canada's Biggest Infrastructure Projects

Rank	Project Name	Value (\$B)
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20

14 Hospital Projects in Top 100
= \$10.6B or 6.5% of total \$162B costs

H on the Hill



#5 Research hospitals= health & life science partners

"From 2004 to 2013, hospital researchers were by far the most frequent collaborators, having co-authored 13.1 percent of all university researchers' publications..." (STIC, 2014)



"Consistent with the large number of collaborations between university and hospital researchers over the period, the highest collaboration rates were in the fields of clinical medicine (35.6 percent), biomedical research (26.6 percent) and biology (26.0 percent). Among other fields, the only noteworthy collaboration rate was in earth and space sciences (20.7 percent)..." (STIC, 2014)



#6 Research hospitals= R&D Performer



health research in hospitals = 25% of all research in research universities

~6% of total Budget for R&D



#7 Research hospitals= Productivity



Innovation Sensation
 Healthier Wealthier Smarter
 Council of Academic Hospitals of Ontario



#8 Research Hospitals = Translation

20 Focus PATIENT SAFETY/ MENTAL HEALTH AND ADDICTION RESEARCH

From research to care: Five years of Canadian "firsts" pave the way for decades of medical advancement

By Claire Samuelsen

In 2012, Canadian researchers Drs. Charles Bland and Philippe Bourque discovered a mutation as a treatment for autism. In 2010, Toronto physicians Dr. Nigam, John Callaghan and John Hayes developed the first artificial pancreas for insulin in type 1 diabetes. In 2014, the research group from the University of Toronto and the University of Alberta developed the first artificial pancreas for insulin in type 1 diabetes. In 2014, the research group from the University of Toronto and the University of Alberta developed the first artificial pancreas for insulin in type 1 diabetes. In 2014, the research group from the University of Toronto and the University of Alberta developed the first artificial pancreas for insulin in type 1 diabetes.



#9 Research Hospitals = Clinical Trials

Canada conducts 10% of the world's listing of active clinical trials (source: Clinical Trials.gov)

42 research hospitals conduct about 36% of CTs in Canada (source: extrapolation based on data from CAICR website).



#10 Research Hospitals = Canada on World Stage

Changes coming to B.C. cancer treatment system
 Spinal Cord Injury Program at HSC Winnipeg first in Canada to receive accreditation
 Vancouver Coastal Health sets new guidelines for treatment of opioid addiction
 Women's College unveils Toronto's first [high-tech] outpatient hospital
 Results of world's first study on new treatment for heroin addiction

all screening mammograms in British Columbia are performed by the mobile fleet.

Spinal Cord Injury Program at HSC Winnipeg first in Canada to receive accreditation
 The Spinal Cord Injury Program at Winnipeg's Health Sciences Centre is one of the first in Canada to be accredited under new standards. The interdisciplinary team at the Centre provides specialized medical, orthopedic and rehabilitative care, among many other services, to approximately 50 to 60 people with spinal cord injuries each year. The program recently underwent a review, achieving unprecedented ratings of 99 and 100 per cent.

Women's College unveils Toronto's first [high-tech] outpatient hospital
 Women's College Hospital has unveiled Toronto's first outpatient clinic. The contemporary facility is a significant milestone in the province's plan to transition health care out of hospitals and into home and community settings, where patients are more comfortable and are less at risk of exposure to harmful infections. Designed to allow patients to return home as quickly as possible, there are no in-patient beds, and the research is to provide a more accurate measurement of the brain function in Alzheimer's patients using hyperpolarized sodium. It is believed that when patients inhale hyperpolarized sodium gas, researchers will be able to take a clearer picture of the brain when using an MRI machine. The study will be the first large scale clinical trial in the world using hyperpolarized gas to take an image of the brain.

Toronto hospital becomes world's first to treat brain tumour with non-invasive procedure
 Scientists at Sunnybrook Health Sciences Centre are the first in the world to use focused ultrasound to breach the blood-brain barrier of a patient with brain cancer precisely and non-invasively. They used focused ultrasound, pioneered by Sunnybrook Research Institute scientists, to deliver chemotherapy directly to the brain tumour. They are poised to launch another world first evaluating this technology for patients with Alzheimer's disease.

North American first in children: SickKids doctors destroy bone tumour using incisionless surgery
 The Hospital for Sick Children is the first to use a wide range of diseases. At St. Joseph's, the coil is being used for research on schizophrenia and depressive disorder, Alzheimer's disease, dementia, and the study of brain damage resulting from chronic diabetes.

Researchers produce first widely protective vaccine against chlamydia
 Canadian researchers have developed the first widely protective vaccine against chlamydia, a common STI that is mostly asymptomatic but infects millions of people around the world each year and can result in infertility. Performed at St. Joseph Healthcare Hamilton's Research Institute, the study would be the best way to treat the infection, and may prevent or eliminate its damaging reproductive consequences.

Where's Zika going next? Maybe China, India, or Nigeria
 In January 2016, before the World Health Organization declared Zika virus a public health emergency, Dr. Kenyon Khan published a letter to The Lancet highlighting the potential for this emerging virus to spread rapidly across the Americas. In that analysis, southern Florida was identified as one of the highest risk areas for

For Canadian 1sts Series: Visit www.healthcarecan.ca or follow us on Twitter until December 8, 2016!