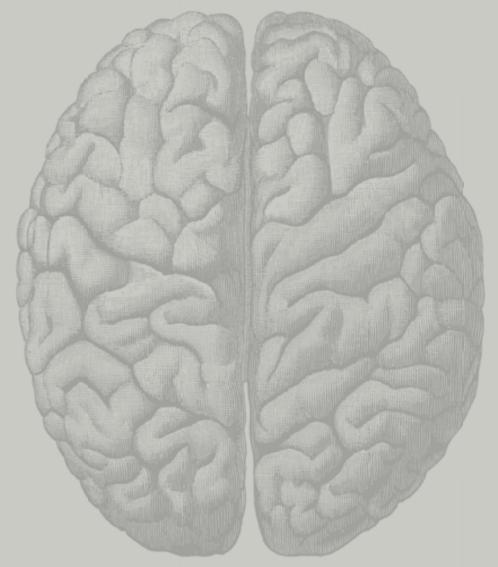
TOGETHER WE CAN ACCELERATE THE UNDERSTANDING, TREATMENT AND CARE OF BRAIN DISORDERS HURVITZ BRAIN SCIENCES CENTRE



The Hurvitz Brain Sciences Program aims to confront one of the largest health threats of our time: disorders of the brain, including stroke, dementia, mood and anxiety disorders.



To address these devastating diseases we are building a state-of-the-art facility that will cause an acceleration of the understanding, treatment and care of brain disorders. Through unprecedented collaboration and cutting-edge treatment, the Hurvitz Brain Sciences Centre will be a global hub of discovery and innovation.

We are very ambitious. We need to be.

"A disorder or an injury to the brain or nervous system will affect one in three Canadians at some point in their lives. By 2020, brain disorders will become the leading cause of death and disability in Canada. These complex medical conditions demand a focused, collaborative response and long-term action."

Dr. Anthony Levitt
Chief
Hurvitz Brain Sciences Program

That action is already underway at Sunnybrook. Our specialists are breaking new ground on the understanding of how the brain, our most complex and least understood organ, works – and stops working. We invite you to join us as we revolutionize treatment and change outcomes.



"How is mood affected by stroke? How is cognition affected by heart disease? How can dementia cause depression? Our whole team thinks along that line. You ask those questions because you are thinking of the brain."

Dr. Sandra Black

Research Director
Hurvitz Brain Sciences
Research Program

Tiffany was just 31 years old, and 29 weeks pregnant, when she had a massive, life-threatening stroke. Teams from obstetrics and our stroke unit worked to save her and her baby While her daughter Clementine did not survive, Tiffany fought to recover. After several days in a coma, she awoke but had lost her ability to comprehend, to remember and to speak. Her right arm and leg were incapacitated by paralysis. She later experienced post-stroke psychiatric issues. Thanks to Sunnybrook's collaborative, cross-disciplinary approach and two months in rehabilitation re-learning to walk and talk, Tiffany would go home. Today, she's active again and even participating in running and cycling fundraisers.



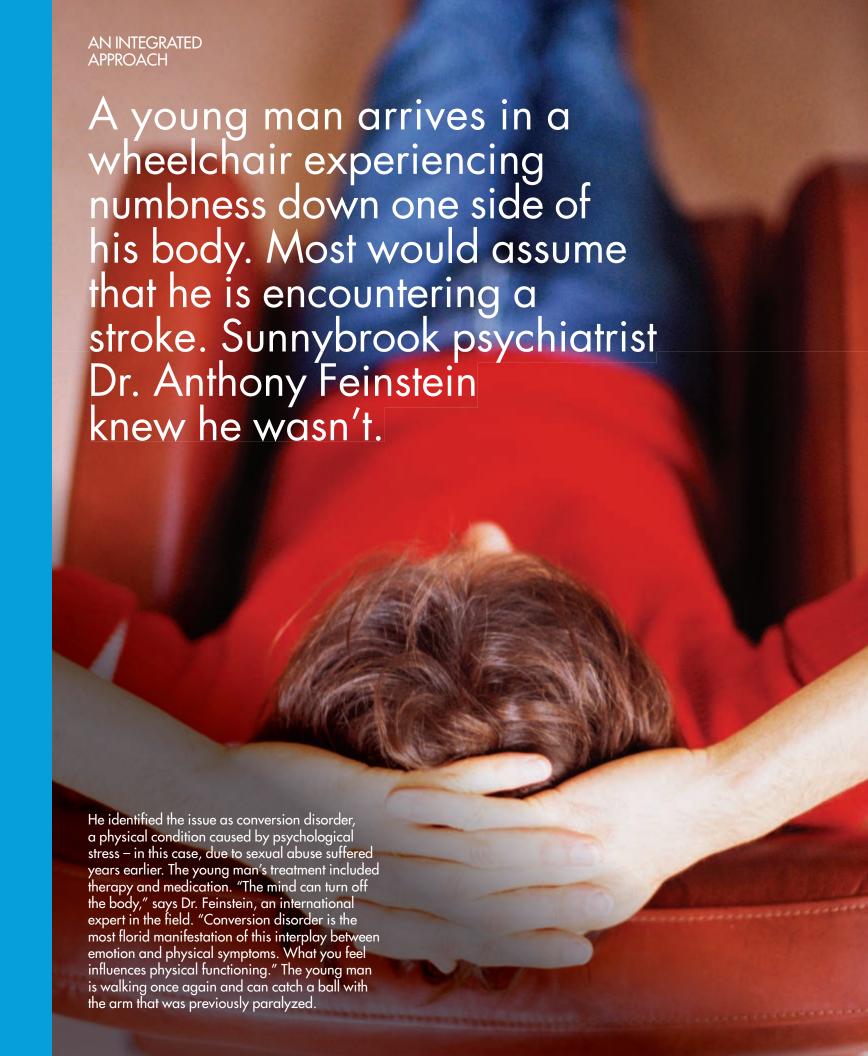


"Psychiatry is embedded within Brain Sciences because of our recognition that major mental disorders are rooted in abnormalities of brain function. All brain disorders have significant psychological, behavioural and social consequences."

Dr. Ari Zaretsky
Psychiatrist-in-Chief and
Vice-President, Education

Research Breakthrough

Sunnybrook neuropsychopharmacologist **Dr. Krista Lanctôt** and psychiatrist **Dr. Nathan Herrmann** are seeking to understand why people with coronary artery disease (CAD) have a stronger risk of depression and cognitive decline. They believe one of the reasons is that certain byproducts of fat breakdown involved in the development of CAD, called ceramides, can harm brain cells. The results of their study may help develop new treatments to prevent memory decline in these patients.



Cynthia Danells Research Physiotherapist CARE ACROSS THE LIFESPAN While some brain disorders are more Through our youth psychiatry division In a field that presents countless challenges we provide leading care for adolescents with mental illness. Our one-of-a-kind with little regard for the age of those affected, commonly associated with aging, we're committed to improving lives through all age groups are vulnerable to mental illness and brain injury. Our experts at the Hurvitz Brain Sciences Program care for people at all stages of life. clinic for women who are faced with better diagnosis, treatment and enduring care. mood and anxiety disorders in their reproductive years is a life-changing resource. Elderly patients benefit from our expertise in dementia, depression or post-stroke disability.



EMBEDDING RESEARCH AND EDUCATION IN CARE

"How do we discover new treatments? By constantly searching, observing and sharing. Patient needs propel research and research enhances care."

Dr. James Perry
Head
Division of Neurology

Research Breakthrough

Researchers at the Frederick W. Thompson Anxiety Disorders Centre are collecting DNA of people with obsessive-compulsive disorder and measuring their drug responses. Working with a team of international collaborators, the study will reveal how the differences in genetic makeup can determine individual response to medication. The findings will help guide a new era of personalized medicine.





The Hurvitz Brain Sciences Centre will be a catalyst for accelerated discovery and innovation while providing a healing environment that will improve the health of our patients and speed their recovery.















Brain disorders are among the greatest risks to the health of Canadians, posing a health-care challenge that will only grow in magnitude in the years ahead. While we have the expertise and determination to meet this challenge head on, we need your help to build the Hurvitz Brain Sciences Centre. With your help we will accelerate the understanding, treatment and care of brain disorders. With your help, we will change countless lives.

2075 Bayview Avenue Toronto on Canada M4N 3M5

Phone: 416 480 4483 Toll Free: 1 866 696 2008

Fax: 416 480 6155 E-mail: foundation@sunnybrook.ca

sunnybrook.ca

