

ALBERTA DIABETES INSTITUTE

Dedicated to translating discovery science into health solutions



Alberta Diabetes
INSTITUTE



UNIVERSITY OF
ALBERTA



The largest
freestanding
diabetes research
facility
in Canada

Bringing the best together

The University of Alberta has a remarkable legacy in diabetes research that extends from the first clinical use of insulin nearly 100 years ago to leading the world in islet transplantation today.

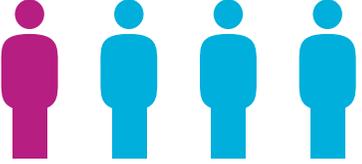
Built to answer the call

Building off the University of Alberta's initial success in Type 1 diabetes research and development, the Alberta Diabetes Institute was established at the Li Ka Shing Centre for Health Research Innovation in 2007 to consolidate the university's outstanding collection of Type 1 and Type 2 diabetes researchers and their trainees.

Working together under one roof

The Institute brings together some of the world's leading diabetes researchers from disciplines that range from cell biology to nutrition and physical activity to population health. The Institute provides an environment where research is integrated into practical applications with access to state of the art facilities and equipment.

Growing at alarming rates



**people have
DIABETES**
or prediabetes in Canada

We are paying the price

The cost of diabetes is enormous, accounting for major health care spending around the world. The cost is not only measured in dollars, but also includes the impact on quality of life due to the many health complications.

There is no cure right now

Diabetes is an increasing health concern worldwide. By 2020 it is predicted that one in three people will suffer from diabetes or prediabetes—and yet diabetes remains a poorly understood disease.

14 billion 
**in Canada will be
SPENT ON DIABETES
increasing to \$17b by 2024**



A child's
odds of diabetes
rises 75% if both
parents are
affected



Research
focused on
developing real
world solutions
for diabetes

Our relentless pursuit

The Alberta Diabetes Institute is a research facility on the University of Alberta campus dedicated to translating discovery science into health solutions for the prevention, treatment and cure of diabetes.

Getting there by working together

Diabetes is a disease whose onset is influenced by numerous hereditary, lifestyle, environmental and social factors. Overcoming diabetes requires an equally diverse approach. The Alberta Diabetes Institute brings together scientists from multiple disciplines in a collaborative fight against this disease.

Bringing discoveries to life

The Alberta Diabetes Institute is on the forefront of scientific discovery in virtually every field relevant to diabetes and continually pushes these discoveries towards new therapies and health policies. We take discovery science through clinical research with the ultimate goal of improving quality of life for people living with diabetes.



Support diabetes research

Make a donation

Your funding supports innovative, ground-breaking research

Participate in a study

Clinical research can lead to new ways of treating diabetes

Train with us

Student and career opportunities in optimal training environments

Scientific collaboration

International networking with world-leading researchers



At the
forefront of
virtually every
field in diabetes
research

World-leading research

Research at the Alberta Diabetes Institute spans the spectrum from ground-breaking discoveries at the molecular level to population-based research that guides new health practices, with expertise in both Type 1 and Type 2 diabetes.

Islet cell biology

At the centre of all forms of diabetes are the insulin-producing islet cells in the pancreas and their ability to regulate blood sugar levels in the body. Scientific research at the Institute is increasing our understanding of genetic and cell signaling pathways that become the starting point for developing novel medical interventions.

Immunology and cell therapies

The Edmonton Protocol was a major advancement in islet cell transplantation for treating Type 1 diabetes and overcoming transplant rejection. Our scientists are looking at new sources of transplantable islets, novel ways to regenerate islet cells and techniques for improving transplant immune-tolerance.

Risk and prevention

Your genetics, lifestyle – even cultural and social factors, influence the onset of diabetes and the ability to manage the disease. The Institute boasts some of the nation's leading metabolic, nutritional and exercise physiology scientists with access to state of the art facilities to study body composition, dietary/exercise intervention and obesity.

Secondary diseases

Diabetes often leads to an array of complications including kidney and heart disease, stroke, blindness, hypertension, amputation and depression. Our researchers are deciphering the mechanisms leading to secondary diseases with a focus on developing clinical treatments to reduce these complications.

Population health

Research using real-world data plays a major role in health policy decision making. Health outcomes research helps identify whether new therapies are having a positive impact on the quality of life of diabetes patients. Community health researchers work closely with high risk populations to examine social, economic and cultural influences that shape day to day choices.



Our ultimate goal is to improve the lives of people living with diabetes

Clinical research studies

Clinical research is the critical step for translating new ideas into proven therapies in patients. At the Alberta Diabetes Institute we perform clinical research studies in vital areas that impact the onset and management of diabetes.

Medical

Our experienced team and modern facility is where novel drugs and medical devices are tested with the ultimate goal of improving medical therapies and increasing quality of life.

Nutrition and metabolism

Controlled dietary studies, body composition analysis and metabolic testing allows for valuable health risk assessment and management studies.

Physical activity

A fully equipped fitness centre with an exercise physiology assessment laboratory provides the means to study how exercise interventions help people with diabetes.



Participate
in a clinical
research study to
support diabetes
research



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