



Centre for
Heart Lung Innovation
UBC and St. Paul's Hospital

Centre for Heart Lung Innovation Research in Progress (R.I.P.)



Characterizing the chronology of vascular damage in a mouse model of pediatric type 1 diabetes

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Monday, Oct 3rd, 2022
9:00 – 10:00 a.m.

Gourlay Conference RM 103
Zoom Video Conference
(Meeting ID: 693 1997 7044; Passcode: 030679)

"Type 1 diabetes (T1D) is an autoimmune disease diagnosed in childhood that currently has no cure. This chronic condition causes cells from our immune system to attack the pancreatic beta cells. Beta cells produce insulin, which allows cells to take up glucose for energy.

Patients with T1D experience a 10-fold higher age-adjusted relative risk for cardiovascular complications. Our research has found that children diagnosed with T1D for less than two years already display signs of vascular damage in the form of blood pressure abnormalities and changes in blood vessel stiffness.

Our research focuses on characterizing the timeline for vascular damage from diabetes onset in a mouse model that mimics T1D, the Akita model, which contains a mutation in the insulin gene. Measurements assessed include blood pressure, vessel stiffness and vascular reactivity. By better understanding how T1D progresses, we can introduce drug therapeutics which may prevent or reverse vascular damage"

This event is a Self-Approved Group Learning Activity as defined by the Maintenance Certification Program of the Royal College of Physicians and Surgeons of Canada



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