

It was 25 years ago when the original and former research institutes at St. Joseph's Health Care, London and London Health Sciences Centre (formerly University and Victoria Hospital) were created. Lawson Health Research Institute is proud to celebrate 25 years of organized research happening at the hospitals. Many of the firsts delivered to patients at London Health Sciences Centre (LHSC) and St. Joseph's Health Care, London (St. Joseph's) are made possible by the research endeavours of Lawson investigators. Here are a few of our many milestones that have been achieved over the years in partnership with the hospitals.

- 1983  Use of natural surfactant drug as replacement therapy for babies with premature lungs at St. Joseph's
- 1987  Pacemaker cardioverter defibrillator is implanted at University Hospital
 -  Nuclear magnetic imaging is able to discern abnormalities in tissue at St. Joseph's Hospital
- 1988  Liver/small bowel transplant at University Hospital
 -  Treat malignant melanoma and kidney disease patients with Interleukin-2 at LHSC
- 1989  Cardiac stent insertion performed at Victoria Hospital
 -  Invasive inner ear surgery for vertigo in normal hearing ears is conducted at University Hospital
- 1991  Discovery at LHSC that grapefruit juice can greatly boost the amount of drug that reaches the body's circulation
 - Launch of study on the safety and efficacy of using detachable platinum coils to treat brain aneurysms at University Hospital
 - First clinical trial of potassium channel blocking drug in spinal cord injured patients shown to restore neurological function in individuals at St. Joseph's Parkwood Hospital
- 1993  Living-related paediatric liver transplant collaboratively at Victoria and University Hospitals
 -  Use of holmium laser for fragmentation of renal calculi at St. Joseph's, now used worldwide as standard of care
- 1994  3D ultrasound-guided cryosurgery is performed at LHSC
- 1996  Develop a miniature recording device at LHSC that monitors the heartbeat during fainting spells
- 1997  Transplantation of the liver, bowel, stomach, and pancreas into a five-month-old infant, the youngest recipient of a multi-organ transplant at LHSC
 -  Plasma exchange treatment is credited with saving the life of a man with a severe case of food poisoning at LHSC
 -  A revolutionary method of video-assisted minimally invasive heart surgery at LHSC
- 1999  3T MRI for neonatal imaging at St. Joseph's
 -  Closed-chest, robotic-assisted beating heart coronary artery bypass graft at LHSC
- 2000  Transplant team performs the first adult-to-adult living donor partial-liver transplant at LHSC
 -  Surgical team performs the first minimally-invasive robotic-assisted mitral valve heart surgery at LHSC
 -  Implantation of an antibiotic coated penile implant called Inhibizone at St. Joseph's
- 2001  Robotic-assisted surgery through telementoring: one surgeon assisted and mentored another from a remote site and both surgeons were able to manipulate the robotic arms inside the patient in the operating room at LHSC
 -  LHSC demonstrates strong evidence to support that surgery, not medicine, for temporal lobe epilepsy is key to improved quality of life
 -  First artificial disc replacement is completed at LHSC
 - Research team at LHSC chosen to conduct a seven-year study on the long-term health effects of people who became ill from E.coli contaminated water in Walkerton, Ontario
- 2002  First Positron Emission Tomography and Computed Tomography (PET/CT) Scanner in the country at St. Joseph's
 -  Canadian Research and Development Centre for probiotics at St. Joseph's
 - Results of LHSC study determines that patients with congestive heart failure have an improved quality of life with a new pacemaker that works on both sides of the heart
 -  Neurosurgeons at LHSC complete the first artificial cervical disc replacement
- 2003  Urologists at LHSC use the three-armed ZEUS robot to correct a blockage in the urethra of the kidney
 - Results of an international study conducted at LHSC show that the common high blood pressure drug Ramipril can prevent heart failure in high risk cardiovascular patients
 -  Use of revolutionary digital technology to produce detailed fluoroscopic images for diagnostic and interventional procedure at LHSC (one of three in the world)
 -  Use of a four-armed da Vinci robot to complete a single coronary artery bypass graft at LHSC
 -  Treatment of pain at St. Joseph's with extremely low frequency magnetic field using specific pulsed magnetic fields
- 2004  Removal of a renal artery aneurysm with the help of a da Vinci surgical robot at LHSC
 -  Four-armed da Vinci robot used to complete a radical prostatectomy at LHSC
 - Launch of a probiotic product in Malaysia and Hong Kong by researchers at St. Joseph's
- 2005  Robotic-assisted left atrial appendage ligation at LHSC to reduce chance of clot formation and stroke
 -  Robotic-assisted Multi Vessel Small Thorocotomy performed at LHSC
 - Launch of largest and most diverse Hemochromatosis and Iron Overload Screening Study to guide future of screening and intervention at LHSC
 - Launch of the Ontario Cardiac Rehabilitation Registry at St. Joseph's
 -  New research Chair at St. Joseph's dedicated to helping Canada's aging population
- 2006  Using new electroanatomical mapping technology to perform a pulmonary vein ablation for atrial fibrillation at LHSC
- 2007  Totally endoscopic closed-chest robotic coronary artery bypass surgery on a patient's beating heart at LHSC
 -  Robotic-assisted common bile duct exploration using a da Vinci robot at LHSC
- 2008  Implanted an insertable cardiac monitor offering long-term, continuous monitoring of atrial fibrillation done at LHSC
 -  Robotic assisted radical hysterectomy performed at St. Joseph's

To learn more about Lawson Health Research Institute visit www.lawsonresearch.com

The research institute of London Health Sciences Centre and St. Joseph's Health Care, London.

