

40 Years of World-Leading Lung Transplant Innovation



1st

1000th

2000th

3000th

- 1988**
World's first successful double-lung transplant for a patient with cystic fibrosis
- 1986**
World's first successful double-lung transplant
- 1983**
World's first successful single-lung transplant

- 1996**
World's first combined single-lung transplant and lung volume reduction surgery to treat emphysema

- 2009**
World's first use of gene therapy to repair injured donor lungs
- 2008**
World's first use of *Ex Vivo* Lung Perfusion to repair damaged donor lungs, making them suitable for transplant
- 2006**
First North American use of the NovaLung artificial lung to keep patients with pulmonary hypertension alive long enough to receive life-saving transplants

- 2018**
World-first transplant of lungs from a donor infected with hepatitis C
- 2016**
World-first clinical trial shows that preserving donor lungs longer makes transplant surgery safer
- 2012**
World's first transplant of blood type-mismatched lungs in an infant

- 2023**
The 3000th lung transplant is performed at Toronto General Hospital – the first lung transplant program in the world to achieve this milestone
- 2023**
World-first clinical trial shows that warmer storage temperature allows donor lungs to be preserved for longer periods to transplant, potentially revolutionizing how lung transplantation is practised
- 2022**
World-first creation of universal blood-type donor lungs, overcoming a key barrier to transplantation
- 2021**
World's first use of drone technology to transport donor lungs
- 2021**
First-in-Canada lung transplant for a patient with COVID-19

1980 1990 2000 2010 2020

○ Total number of lung transplants