

# End-stage Organ Failure in Canada

## End-stage renal disease

In 10 years, the rate of renal replacement therapy rose 41%, from 112 per million population in 1995 to 158 per million population in 2004. At the end of 2004, there were 18,827 patients on dialysis and 12,099 living with a functioning kidney transplant, for a total of 30,924 Canadians with end-stage renal disease.

Diabetes in kidney failure has increased dramatically over a decade, with type 2 diabetes tripling, and 40% of all patients with renal failure having the disease (up from 25% ten years ago).

The five-year survival for recipients of living-donor kidneys was 97.5%, compared to 89.1% for those receiving a kidney from a deceased donor.

## End-stage liver disease

The number of patients waiting for a liver transplant grew steadily over the 10 years, with an overall increase of 347%.

Between 1995 and 2004, the highest five-year survival rate was among those aged 1 to 10 years.

## End-stage heart disease

Between 1995 and 2004, 1,571 patients received a first heart transplant and 58 were retransplanted.

The number of heart transplants per year decreased by 21%, from a high of 181 in 1995 to a low of 143 in 2004.

Unadjusted patient survival rates for those with first heart transplants between 1995 and 2004 improved, while the early survival rate (three months) saw a 7.6% decline.

## End-stage lung disease

The number of adult lung transplants increased by 64% between 1995 and 2004.

Lung transplantation is the only solid organ transplant for which the rate of transplants performed in Canada surpassed that of the rate observed in the United States.

There was improved patient survival throughout the decade with the largest improvement seen in one- and five-year survival (14.7% and 11.4% improvement, respectively).

## End-stage pancreas disease

Two-thirds of the 510 pancreas transplants performed in Canada between 1995 and 2004 were simultaneous pancreas–kidney transplants.

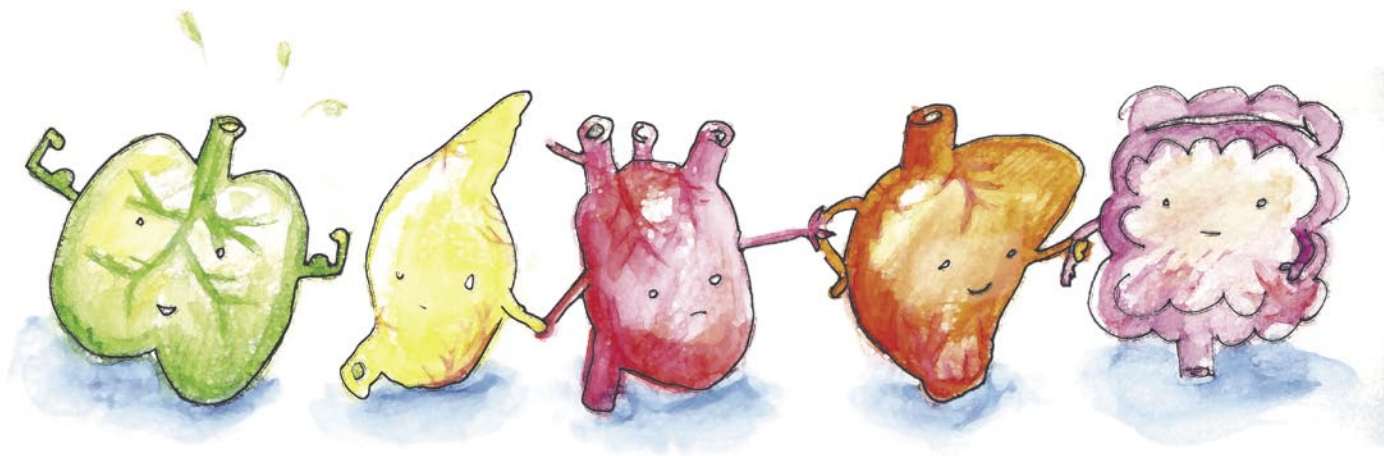
## End-stage intestinal disease

Intestine transplantation was performed infrequently in Canada, with 36 transplants performed between 1988 and 2004.

## Deceased organ donation

There were 4,249 deceased organ donors during the years between 1995 and 2004.

The average number of organs transplanted from each deceased donor in 2004 was 3.5.



(Source: Canadian Institute for Health Information, 2007)