

Canadian team reports success in transplanting hepatitis C organs

June 14 2018



Préparation d'un rein pour le greffer dans un hôpital à Madrid en février 2017

A long-running shortage in donor organs has pushed doctors to find ways to use those with hepatitis C, an infection that is increasingly common in the United States due to the opioid crisis, and which can be cured with

medicine.

Some US hospitals, particularly in Boston, have already transplanted infected [donor organs](#) into people without [hepatitis C](#). These patients are swiftly treated with drugs to eliminate the virus.

In Toronto, Canada, another team of doctors on Thursday announced early results from a trial using a different technique, involving 10 people who received [lung](#) transplants from donors with hepatitis C.

Infected [donor lungs](#) were placed in a sterile dome for six hours, and treated with medication to reduce the level of virus. Then, they were transplanted into the patients.

Doctors were not able to fully eliminate hepatitis C from the donor lungs this way, as they'd hoped. But they cut it by 85 percent.

Patients who received the lungs were subsequently diagnosed with hepatitis C, then treated for 12 weeks with a drug combination—sofosbuvir-velpatasvir, known by the brand name Epclusa—to cure it.

The patients tested negative for hepatitis within three weeks of treatment, on average.

Surgeon Marcelo Cypel, who led the trial and presented the results at the Global Hepatitis Summit in Toronto, said the results are encouraging because they enlarge the [donor](#) pool.

"Patients waiting for lung transplantation have a chance of dying of about 20 percent waiting for an organ," Cypel, a thoracic surgeon at Toronto General Hospital, told AFP.

"The risks and benefits are much more balanced to the benefits here, because they can get organs sooner."

The organs tend to be "excellent quality" in general, he added. "Hepatitis C is often really the only issue."

Allowing hepatitis C positive donors would increase the number of lungs available for transplant by 1,000 per year in North America, Cypel estimated.

About 2,600 [lung transplants](#) are done each year in Canada and the United States combined.

An epidemic of overdoses due to opioids like heroin, painkillers and fentanyl has driven a major increase in deaths in the United States, where more than 42,000 people died of overdose in 2016.

Experts say this crisis is leading to a surge in the number of organs available for transplant.

© 2018 AFP

Citation: Canadian team reports success in transplanting hepatitis C organs (2018, June 14) retrieved 18 April 2024 from <https://medicalxpress.com/news/2018-06-canadian-team-success-transplanting-hepatitis.html>

This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.