

Optimizing the use of organs donated from overdose deaths could help to address the national organ shortage

16 April 2018

The number of organs donated as a result of overdose death has increased 24-fold since 2000 and transplants with those organs have similar outcomes to transplants with organs donated after trauma or natural death. Optimizing their use is not a solution to the organ shortage, but it could help to address the problem. Findings from a National Registry study are published in *Annals of Internal Medicine*.

Overdose deaths in the U.S. have nearly tripled over the past 15 years, with 52,404 deaths reported in 2015. At the same time, the U.S. has a severe shortage of organ donors for [transplant](#), with more than 120,000 patients on national waitlists but only 10,281 donors in 2017. For many, the risk for [death](#) while on the waitlist is greater than the chance of receiving an organ. Understanding the viability of organs transplanted from overdose deaths could inform decision-making and potentially help to address the shortage issue.

Researchers from Johns Hopkins University School of Medicine used data from the Scientific Registry of Transplant Recipients to characterize [organ donors](#) who died of overdose and to analyze outcomes in patients who received those organs. Their analysis included 138,565 deceased donors and 337,934 solid [organ transplant recipients](#) between 2000 and 2017. The authors found that overdose-death donors transplants increased substantially from about 1 percent of donors in 2000 to over 13 percent in 2017. Outcomes in patients with organs donated from overdose death were noninferior to those obtained from other types of donors and, in some cases, were better. Compared with medical-death donors, overdose-death donors were less likely to have hypertension, diabetes, or prior myocardial infarction but had slightly higher creatinine levels and were more

likely to donate after circulatory death.

According to the authors, HIV, hepatitis B virus, and hepatitis C virus transmission are a concern with [overdose](#)-death organs and, therefore, they are discarded at a higher rate than those from trauma-related death. In this study, 56 percent of the organs were from increased-risk donors, which is twice the proportion among non-[overdose-death](#) donated organs nationally. However, with viral nucleic acid and antibody testing, the true risk for a window-period infection for increased-infectious risk (IRD) organ recipients is extremely low. Furthermore, candidates who accept IRD kidneys have a better survival rate than those who wait for another organ. The authors caution that small potential risks attributable to IRD and HCV status should be carefully weighed against the benefit these organs can provide to transplant candidates.

More information: Study: *Annals of Internal Medicine* (2018).

<http://annals.org/aim/article/doi/10.7326/M17-2451>

Editorial: *Annals of Internal Medicine* (2018).

<http://annals.org/aim/article/doi/10.7326/M18-0720>

Provided by American College of Physicians

APA citation: Optimizing the use of organs donated from overdose deaths could help to address the national organ shortage (2018, April 16) retrieved 19 July 2022 from <https://medicalxpress.com/news/2018-04-optimizing-donated-overdose-deaths-national.html>

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