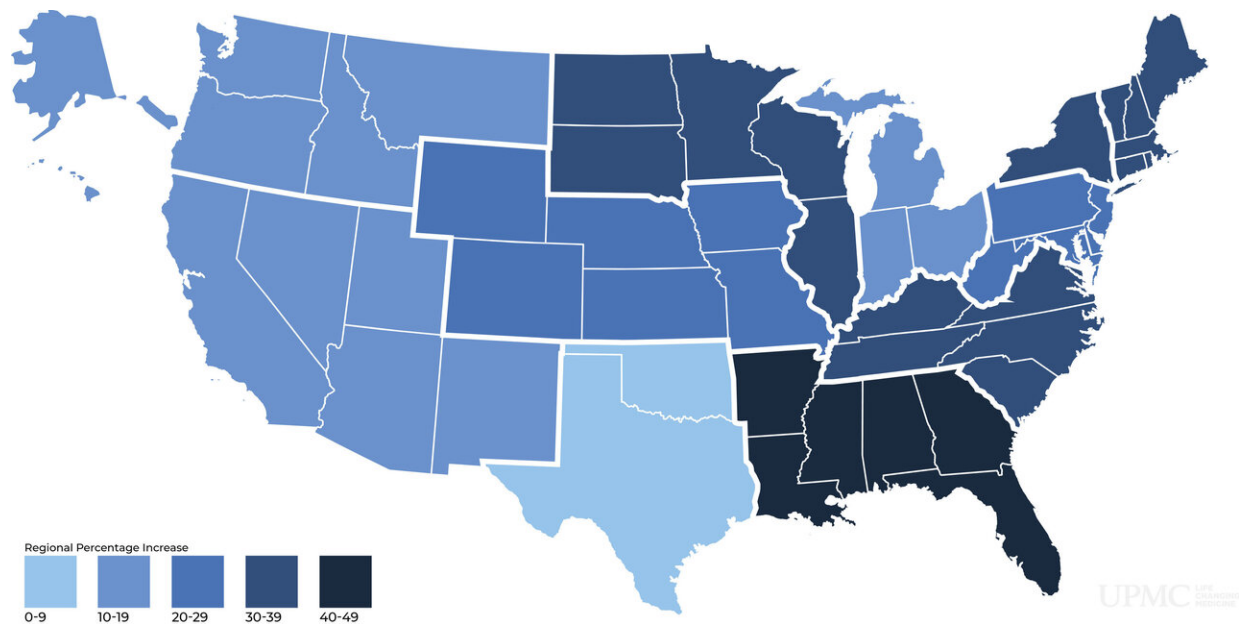


US pediatric heart transplant waitlist policy change falls short of intended benefits

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Exceptions for pediatric dilated cardiomyopathy patients increased by up to 40 percentage points in some regions. Credit: UPMC

In March 2016, the Organ Procurement and Transplantation Network revised its criteria for prioritizing children awaiting heart transplantation in the U.S. with the intention of reducing the number of deaths on the waitlist, but a new study suggests unintended consequences.

The study, published today in the *American Journal of Transplantation*

by cardiologists at UPMC Children's Hospital of Pittsburgh, found no overall improvement in waitlist mortality rates after the [policy change](#), and for some types of heart disease, mortality actually increased.

"Changes were made to prioritize sicker children with fewer treatment options—for instance, kids with congenital heart defects—but the reality we're showing is that since the criteria change, [transplant centers](#) are using more listing status exceptions, essentially short-circuiting the intended benefit," said senior author Brian Feingold, M.D., medical director of pediatric heart failure and [heart transplantation](#) at UPMC Children's Hospital of Pittsburgh.

The new policy de-prioritizes some children with cardiomyopathies, a type of heart disease where the [heart muscle](#) can't squeeze hard enough to pump effectively.

Since this change, clinicians are getting more exceptions to the policy for their [cardiomyopathy](#) patients, especially a subtype called dilated cardiomyopathy, so that patients will retain the highest listing status.

Across the country, exceptions for dilated cardiomyopathy rose by more than 13-fold, yet the study shows high priority status makes no difference in the survival rates of these patients.

On the other hand, children with two other subtypes of cardiomyopathy—hypertrophic or restrictive—without an exception, are now dying on the waitlist at a rate 4-6 times higher than before the new criteria went into effect.

"We can't prove causality here, but it would seem that restrictive and hypertrophic cardiomyopathy patients have been disadvantaged by the criteria change," Feingold said. "They're prioritized downward under the umbrella of cardiomyopathy, likely inadvertently, while children with

[congenital heart defects](#) have not been able to benefit due to increased exception use."

Part of the reason patients with different subtypes of cardiomyopathy are faring so differently under the new guidelines is that [children](#) with dilated cardiomyopathy tend to be better candidates for implanted blood pumps called ventricular assist devices (VADs). Considered a type of life support, VADs place patients higher on the waitlist. They also allow patients to rehabilitate, even leave the hospital, while waiting for a transplant.

With this study, the researchers hope to spark discussion about ways to further improve waitlist criteria for pediatric [heart](#) transplant candidates.

"The chronic shortage of organ donors means that we must strive to optimize organ allocation as much as possible. It's very difficult to know all of the downstream effects of policy decisions like these, so we should continue to tweak and observe until we get it right," Feingold said.

More information: Defne A. Margetta et al, Impact of the 2016 revision of US pediatric heart allocation policy on waitlist characteristics and outcomes, *American Journal of Transplantation* (2019). DOI: [10.1111/ajt.15567](https://doi.org/10.1111/ajt.15567)

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