Don't Throw Your Heart Away!

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Problem

A majority of pediatric donor heart offers to children awaiting heart transplants are declined by their transplant teams.

44% of pediatric donor hearts are ultimately discarded (thrown away). Why?



Background

Behavioral economics predicts that decision makers will respond to the tacit incentives embedded in a regulation or evaluation system: even when those incentives are misaligned with the goal of the enterprise.

The goal of transplant medicine is to enhance patient longevity and quality of life, but posttransplant outcomes are the primary focus of transplant center performance evaluations. Further, transplant center report cards do not emphasize donor utilization practices by individual centers.

Research Questions

- 1. Will a new classification scheme for transplant impact how people evaluate outcomes hospitals?
- 2. Do specific features of the information presentation mediate its effect on hospital evaluation?

Methods

- N = 765 Amazon Mechanical Turk workers
- = four information conditions featuring • IV different components of transplant outcome statistics
- DV = choice between two hospitals:
- non-selective "open" acceptance strategy
- selective donor acceptance strategy
- mediating variable: how much participants considered the chances of getting a heart when making choice between hospitals

Evaluations presented	s of for
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54 de	onor off
At end of the yea	r, 42 pa (789
54 received do	nor heart c
54 donor offers	s were acce
42 patients still ali (78% s	ive after tra survival)
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At end of the year, 54	total pat (60% ove
30 received excellent	donor
heart offers	
30 excellent donor offe accepted	rs were
At the end of the year, 30 pat	tients still
(100% survival)	
30 received excellent donor heart offers	24 rec donc
30 excellent donor offers were accepted	24 ac
30 patients still alive after transplant with excellent heart (100% survival)	12 patie transpla heart
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At the end of the yea	r, 54 total





Tingley D, Yamamoto T, Hirose K, Keele L, Imai K (2014). "mediation: R Package for Causal Mediation Analysis."