

# 1 Problem

<b>What</b>	Problem(s)	Increased compatibility of donor kidneys
<b>When</b>	Date	Study published March 9, 2016
	Different, unusual, unique	Regenerated antibodies are less likely to attack transplanted organ
<b>Where</b>	Facility, site	New England Journal of Medicine (22 centers studied)
	Unit, area, equipment	Kidney transplants
	Task being performed	Desensitization

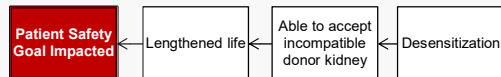
## Impact to the Goals

<b>Patient Safety</b>	Lengthened life
<b>Patient Services</b>	Decreased wait times for kidneys
<b>Schedule/ Operations</b>	Dialysis no longer needed

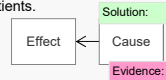
# 2 Analysis

**Basic Level Cause Map** - Start with simple Why questions.

**Basic Cause-and-Effect**



Desensitization is allowing the use of previously "incompatible" kidneys for patients who otherwise may not have been able to find one and is leading to longer lives for these patients.



# PROCEDURE IMPROVES COMPATIBILITY OF DONOR KIDNEYS

Cause Map

## Study finds desensitized recipients live longer than those on waiting list or recipients of deceased donor kidneys

There are about 100,000 people on the waiting list for a new kidney. Researchers estimate that 50,000 of them have antibodies that impact their ability to find a compatible donor kidney and 20,000 are so sensitive that finding a donor kidney is "all but impossible" . . . until now.

"Desensitization may be the only realistic option for receiving a transplant."

- Dr. Krista L. Lentine, medical director of the living donation program at the Saint Louis Center for Transplantation

Cause Mapping is a Root Cause Analysis method that captures basic cause-and-effect relationships supported with evidence.

### CAUSE MAPPING

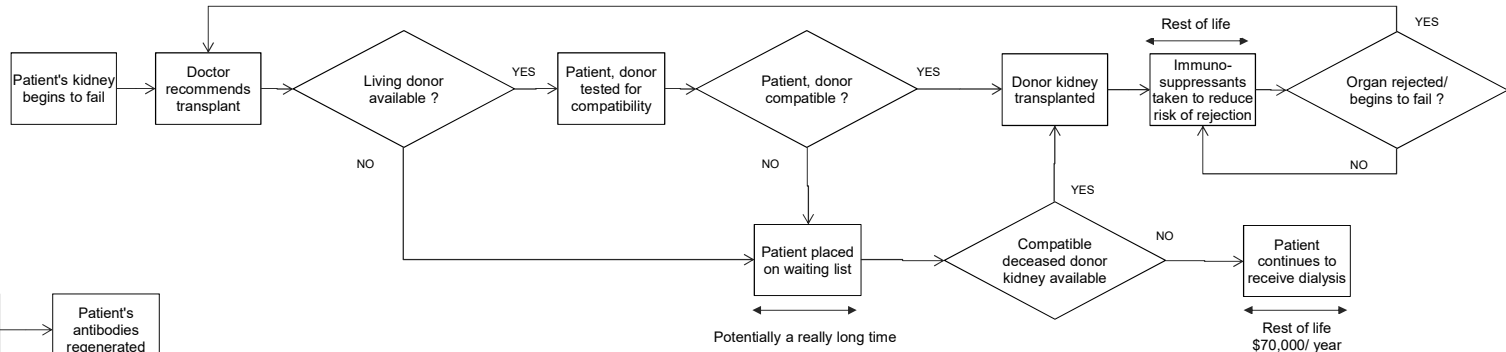
Problem Solving • Incident Investigation • Root Cause Analysis

- Step 1 Problem** What's the Problem?
- Step 2 Analysis** Why did it happen?
- Step 3 Solutions** What will be done?

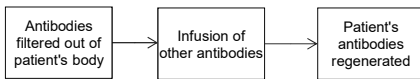
# 3 Solutions

Desensitization allows the use of more kidneys for more patients in need. These process maps show what kidney failure is like without desensitization and with desensitization.

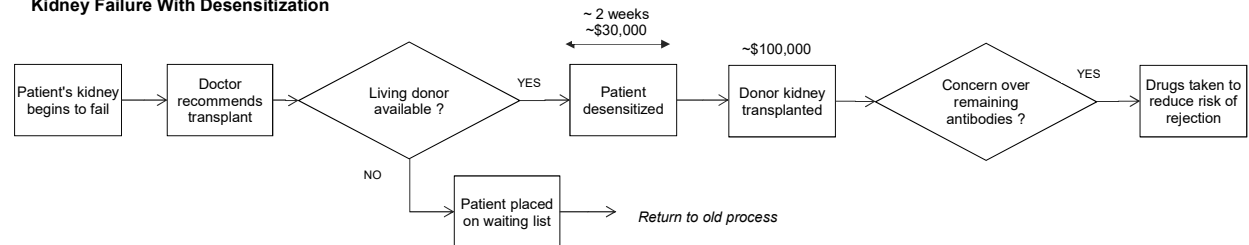
### Kidney Failure Without Desensitization



### Desensitization



### Kidney Failure With Desensitization



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