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

**Step 1. Analysis**
- **Problem**: What's the Problem?
  - Why did it happen?
- **Cause**: Why did it happen?
- **Solution**: What will be done?

**Step 2. Solutions**
- **Desensitization**
  - Causes:
    - Regenerated antibodies are less likely to attack transplanted organ
    - New England Journal of Medicine (22 centers studied)
    - Kidney transplants
  - Effects:
    - Increased compatibility of donor kidneys
  - Evidence:
    - Study published March 9, 2016
  - Cost:
    - ~$30,000
    - Rest of life: $70,000/year

**Step 3. Procedure Improves Compatibility of Donor Kidneys**

*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

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

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