14TH ANNUAL LIVING DONATION CONFERENCE

INCREASING LIVING DONOR KIDNEY TRANSPLANTATION THROUGH VIRTUAL RECIPIENT AND CAREGIVER EDUCATION

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MD

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• We have NO financial disclosure or conflicts of interest with the presented material in this presentation.
LIVING DONOR PROGRAM – MAYO CLINIC AZ

- 95 LD transplants in 2022
- NKR participation – Center of Excellence
- Adult only
- Largest kidney program in the US by volume – 499 in 2022
- Growing our LD program
- Team – Dedicated LD team, nurse coordinators, SW, donor advocates etc.
QUALITY IMPROVEMENT STRUCTURE

The DMAIC Cycle

1. Define
2. Measure
3. Analyze
4. Improve
5. Control
Problem Statement:
A lack of living donor candidates for our kidney transplant recipient population contributes to longer wait times and fewer options for patients.

2020 – 80% of kidney transplants were from deceased donors

2020 – 32.3% of kidney transplant candidates had a living donor candidate come forward

2019 – 41.4% of kidney transplant candidates had a living donor candidate come forward

AIM Statement:
This project aimed to increase the percentage of kidney transplant candidates that have at least one living donor candidate by 10% in 2021 using a DMAIC process.
**MEASURE**  
QUANTIFY THE PROBLEM WITH BASELINE DATA

<table>
<thead>
<tr>
<th>Metric</th>
<th>Baseline Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>Volume of Donor Evaluations</td>
<td>252</td>
</tr>
<tr>
<td>Volume of Living Donor Surgeries</td>
<td>78</td>
</tr>
<tr>
<td>Volume of Living Donor Kidney Transplants</td>
<td>70</td>
</tr>
<tr>
<td>Living Donor Kidney Transplants as a Percentage of Total Kidney Transplants at our Center</td>
<td>16%</td>
</tr>
</tbody>
</table>
Root causes were evaluated using the 5 Why’s quality improvement tool:

1) Kidney transplant candidates do not understand the benefits of a living donor transplant,
2) Recipients do not hear clear messages about living donation options from providers, and
3) Recipients do not have the tools needed to support the living donation conversation with potential donors.
ANALYZE
PRIORITIZE INTERVENTIONS USING AN IMPACT EFFORT GRID

Estimate Effort & Impact of Intervention Ideas

| Project Title: Increasing Living Donor Kidney Transplant |
|--------------|-------------------------|
| ID | EFFORT | IMPACT | Cause or Intervention |
| 1 | 2 | 2 | Update the existing recipient education class |
| 2 | 2 | 3 | Improve or add to the existing Caregiver education class |
| 3 | 8 | 8 | Implement the Novartis notebook |
| 4 | 10 | 4 | Revise/update existing Mayo brochures and materials |
| 5 | 10 | 8 | Enroll in the Hopkins study as a participant providing a new education class |
| 6 | 10 | 10 | Create a 3 class in person series on Sunday mornings (1-treatment options & WIL, benefits of living donation, donor process, eligibility and exclusion, risks and financials, 2-communication, social network, writing your story, role play/practicing, 3-panel education with surgeon, nurse coordinator, nephrologist) |
| 7 | 7 | 9 | Create a single virtual class for recipients and caregivers to educate about living donation. Encompasses those who can’t travel and may be non-local. Works during pandemic. Leverage videos to decrease staff workload and number of teachers required |
| 8 | 10 | 5 | Hispanic Transplant Program works |
| 9 | 3 | 6 | Big Ask Big Give (August 2021; Nov 2021; Feb 2021) |

Graph Results to Prioritize

Impact/Effort Grid

<table>
<thead>
<tr>
<th>Impact</th>
<th>Effort</th>
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</thead>
<tbody>
<tr>
<td>1</td>
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<td>10</td>
</tr>
</tbody>
</table>
The wait time for a deceased donor kidney transplant is longer

Objectives
1. What is living donation?
2. Finding a donor.

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IMPROVE
IMPLEMENTATION & TESTING

Class Feedback
Poll ended | 5 questions | 11 of 13 (84%) participated

1. Did this class improve your understanding of living donation? (Single Choice) *
   11/11 (100%) answered
   Yes (11/11 100%)
   No (0/11 0%)

2. Did you find this class helpful? (Single Choice) *
   11/11 (100%) answered
   Yes (11/11 100%)
   No (0/11 0%)

3. Are you more comfortable looking for a potential donor after attending class? (Single Choice) *
   11/11 (100%) answered
   Yes (11/11 100%)
   No (0/11 0%)

4. Do you plan to use social media to expand your donor search? (Single Choice) *
   11/11 (100%) answered
   Yes (6/11 55%)
   No (5/11 45%)

5. Who attended this class today? (Single Choice) *
   11/11 (100%) answered
   ...
The class is taught once weekly for one hour via Zoom, alternately every other Monday & Tuesday to accommodate transplant candidate’s dialysis schedules. The class presentation is a PowerPoint slide presentation with recorded voice-over.

Many transplant candidates have voiced gaining new knowledge from the living donor recipient education class and we had very positive feedback from the poll that was completed for the first year after initiating the class.
## IMPROVEMENT MEASURE
### RESULTS/DATA

<table>
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<th>Metric</th>
<th>Baseline Data</th>
<th>Improvement Measure</th>
<th>Change</th>
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</thead>
<tbody>
<tr>
<td>Volume of Donor Evaluations</td>
<td>252</td>
<td>307</td>
<td>21.8% Increase</td>
</tr>
<tr>
<td>Volume of Living Donor Surgeries</td>
<td>78</td>
<td>92</td>
<td>17.9% Increase</td>
</tr>
<tr>
<td>Volume of Living Donor Kidney Transplants</td>
<td>70</td>
<td>104</td>
<td>48.6% Increase</td>
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<tr>
<td>Living Donor Kidney Transplants as a Percentage of Total Kidney Transplants at our Center</td>
<td>16%</td>
<td>22%</td>
<td>37.5% Increase</td>
</tr>
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</table>

### Survey Feedback

- **Sample Size = 425 Participants Completing Survey in 2021**
  - Did this class improve your understanding of living donation? 96% Yes, 4% No
  - Did you find this class helpful? 98% Yes, 2% No
  - Are you more comfortable finding a living donor? 87% Yes, 13% No
RESULTS
Candidates who attended class were much more likely to have a living donor candidate come forward than those who did not attend class.
CONTROL & NEXT STEPS

- Tableau dashboard monitoring
- LD volumes/growth
- Microsites
- Etc.
QUESTIONS & ANSWERS
# Increasing Living Donor Kidney Transplant

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<td>Hispanic Transplant Program work</td>
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<td>9</td>
<td>3</td>
<td>6</td>
<td>Big Ask Big Give (August 2021; Nov 2021; Feb 2021)</td>
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