One Year Post KAS - A Tale of Two Transplant Centers: Small Program

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Conflict of Interest Disclosure

• I have no relevant financial relationships to disclose
Tyler is located in Northeast Texas.
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Introduction

Small town, small program. Nice people, great patients!
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Introduction

Obligatory hospital photo.
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Waiting List

Transplant Waiting List

Listed, Total

<table>
<thead>
<tr>
<th>Year</th>
<th>Listed, Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jan. '09</td>
<td>50</td>
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<tr>
<td>Jan. '10</td>
<td>100</td>
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<tr>
<td>Jan. '11</td>
<td>150</td>
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<td>Jan. '12</td>
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<td>Jan. '13</td>
<td>250</td>
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<tr>
<td>Jan. '14</td>
<td>300</td>
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<tr>
<td>Jan. '15</td>
<td>350</td>
</tr>
<tr>
<td>Jan. '16</td>
<td>400</td>
</tr>
</tbody>
</table>
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Variance Elimination

• All variances were eliminated on activation of the new KAS
• Disclaimer: Situation not representative of most programs,
• Loss of our variance (Alternate Listing Unit) decreased our candidates access to deceased donor kidneys.
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Shots Across the Bow

- The first two (anecdotal) red flags

- We did 7 deceased donor transplants in November 2014
  - We did 0 deceased donor transplants in December 2014

- The last deceased donor transplant recipient we did Pre-KAS had been on dialysis for only 9 months.
- The first deceased donor transplant recipient we did Post-KAS had been on dialysis for 283 months.
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Deceased Donor Transplant Volume

Transplant volume decreased 29%
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Average Pre-Transplant Dialysis Time (months)


- Pre-KAS: 55 months
- Post-KAS: 93 months
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Pre-Transplant Dialysis Time >5 years

% Recipients with Pre-Transplant Dialysis Time > 60 mo.

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Pre-Transplant Dialysis Time >15 years

% Recipients with > 180 months on Dialysis

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Transplantation of Older Candidates

% Recipients >64 Years Old at Time of Transplant

Pre-KAS 12/3/12-12/3/14, Post-KAS 12/4/14-12/4/15; center data.

- Pre-KAS: 31%
- Post-KAS: 3%
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Ethnicities of Transplant Recipients: Pre-KAS

Pre-KAS Ethnicity of Deceased Donor Recipients

- A. American, 49%
- White, 35%
- Hispanic, 16%

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Ethnicities of Transplant Recipients: Post-KAS

Post-KAS Ethnicity of Deceased Donor Recipients

- A. American, 69%
- White, 7%
- Hispanic, 24%

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Ethnicities of Transplant Recipients

Recipient Ethnicity as a % of DD Transplants Pre- versus Post-KAS
Pre-KAS 12/3/12-12/3/14, Post-KAS 12/4/14-12/4/15; center data.
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Recipient CPRA Pre- and Post-KAS

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Delayed Graft Function Rates

% Recipients Experiencing Delayed Graft Function

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Length of Stay

Deceased Donor Length of Stay (days).

Pre-KAS 12/3/12-12/3/14, Post-KAS 12/4/14-12/4/15; center data.

Pre-KAS: 8.5 days
Post-KAS: 5.4 days
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Conclusions

• Loss of our variance likely contributed to a large apparent decrease in access to deceased donor organs for the patients we serve.

• One might surmise that equity was compromised for ESRD patients in the communities we serve because of loss of the variance.

• This was viewed by architects of KAS as an insignificant local sacrifice for the greater good.
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Conclusions

- **Observed changes were consistent with the goals of KAS:**
  - Average dialysis time at transplant increased.
    - A direct result of dialysis time counting as waiting time.
  - Highly sensitized recipients were transplanted more frequently.
  - The ethnic composition of the recipient pool changed dramatically
    - The % of recipients with AA ethnicity increased 41%
    - The % of recipients with W ethnicity fell 80%
  - Transplants into candidates >64 years old fell 90%
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Conclusions

• **Outcome changes:**
  • Post-transplant length of stay did not increase:
    – Likely because recipient age decreased
  
  • The delayed graft function rate may have risen:
    – Donor issues (CIT) and recipient issues (dialysis time, CPRA) likely primary drivers of observed increase.

• **Outcome changes yet to be evaluated:**

• Graft and patient survival data needed.
Thank You