Paired Exchange Results
Quarterly Report

As of March 31, 2018
# Table of Contents

- Message From the Founder and CEO .............................................................................................................. 1
- Transplants Facilitated ...................................................................................................................................... 2
- Top Centers .................................................................................................................................................... 2
- NKR Member Centers ...................................................................................................................................... 3
- Donor Care Network® Centers of Excellence ................................................................................................. 4
- DASH Centers .................................................................................................................................................. 4
- Remote Donor Centers ..................................................................................................................................... 5
- Partner Center Chain End Targets .................................................................................................................. 5
- Top Center Liquidity Contributors ................................................................................................................. 6
- Donor Contacts ................................................................................................................................................ 6
- Non-Directed Donor Contacts ......................................................................................................................... 7
- Non-Directed Donor Referrals ......................................................................................................................... 7
- NKR Graft Survival Advantage ....................................................................................................................... 8
- NKR Graft Survival Advantage ....................................................................................................................... 8
- NKR Patient Survival Advantage .................................................................................................................... 9
- NKR Patient Survival Advantage .................................................................................................................... 9
- Pre-Workup Labs, 24-Hour Urine Jugs Shipped .............................................................................................. 10
- Pre-Workup Labs, Scripts Uploaded ............................................................................................................... 10
- Pre-Workup Labs, Results Uploaded .............................................................................................................. 11
- Patients Waiting > 1 Year by Quarter .............................................................................................................. 11
- Patients Waiting > 1 Year by Center ............................................................................................................... 12
- Transplanted Patient Median Wait Time ....................................................................................................... 12
- Wait Time Distribution .................................................................................................................................... 13
- Pairs Waiting > 1 Year Due to Unfavorable Blood Type Combination ............................................................ 13
- Pairs Waiting > 1 Year Due to High cPRA ...................................................................................................... 14
- Unmatched Target Pairs ................................................................................................................................... 15
- Pair Wait Time Analysis .................................................................................................................................. 15
- Compatible Pairs Transplanted ....................................................................................................................... 16
- Pool Composition by cPRA ............................................................................................................................. 16
- Transplanted Patients with cPRA >80% ........................................................................................................... 17
- Transplanted Patients by cPRA ....................................................................................................................... 17
- Pool Size .......................................................................................................................................................... 18
- New Exportable Pairs ....................................................................................................................................... 18
- Chains Started .................................................................................................................................................. 19
- Chain and Loop Statistics ............................................................................................................................... 19
- Great HLA Matches ........................................................................................................................................ 20
- Failure Rates .................................................................................................................................................... 20
- Non-XM Swap Failures & TXP Surgeries Impacted ....................................................................................... 21
- XM Swap Failures & TXP Surgeries Impacted ............................................................................................... 21
- Streamlined XM Requests ............................................................................................................................. 22
- Bridge Donor Median Wait Times in Days ....................................................................................................... 22
- Bridge Donor Wait Times ............................................................................................................................... 23
- Transplants per Bridge Donor ......................................................................................................................... 23
- Summary Report - Broken Chains & Real Time Swap Failures ..................................................................... 24
- Detail Report - Broken Chains & Real Time Swap Failures ........................................................................... 24
- Advanced Donation Program (ADP) ............................................................................................................... 25
- ADP Donations & Additional TXPs Facilitated .............................................................................................. 26
- ADP Recipient Pool ........................................................................................................................................ 26
- ADP Recipients Outstanding vs. Overall Chains Started ............................................................................ 27
- ADP Wait Time Analysis ................................................................................................................................ 27
- Program Statistics ......................................................................................................................................... 28-29
Message from the Founder and CEO

We are pleased to report a 47% increase in transplants facilitated in the first quarter in 2018 with 147 transplants completed in Q1 2018, up from 100 transplants in Q1 2017. If we sustain this strong growth rate, we will pass the 3,000 transplant milestone by the end of the year.

We are now able to provide 7 year graft and patient survival rates for the first time. The 7 year numbers, not only indicate an NKR graft and patient survival advantage, but this advantage appears to increase over time, indicating that NKR facilitated transplant outcomes are better over the longer term. We will be conducting research into why we are seeing this NKR graft survival advantage even though the NKR patients transplanted are more highly sensitized and have more time on dialysis than the typical U.S. living donor transplants.

Our private label automated donor intake platform (DASH) continues to expand with 16 centers now using the platform. A fully automated donor follow-up module has recently been completed and is in pilot at a major transplant center. We have also deployed the Donor Shield product that provides donor life insurance, disability insurance, lost wage reimbursement, travel & lodging reimbursement, donor legal support and coverage for uncovered complication costs, for all donors at a Donor Shield center. The Donor Shield product is currently being piloted at three Donor Care Network Centers of Excellence.

We continue to see the pool of unmatched pairs shrink and wait times drop due to the impact of the Center Liquidity Contribution program and the Advanced Donation Program. The CLC program has reduced the number of NDDs and easy to match pairs being withheld from the NKR to facilitate internal swaps. The Advanced Donation Program is reducing wait times and pool size because it is increasing the number of NKR chain starts. These two factors are allowing us to match/transplant nearly all sensitized patients with a true cPRA of less than 99% in under six months while reducing the wait time for all pairs.

It is the ongoing dedication and effort of our Member Centers that enable us to continue breaking records and achieving new milestones. Thank you for your support and keep up the great work.

Sincerely,

Garet Hil
Founder & CEO
National Kidney Registry
Transplants Facilitated

**Top Centers**
Transplants Last 12 Months
NKR Member Centers
As of 3/31/2018
Top Center Liquidity Contributors
CLC Driven Match Offers - 3/17 - 3/18

Donor Contacts
Across All Donor Intake Platforms
Non-Directed Donor Contacts
Via NKR Donor Intake Platform

Non-Directed Donor Referrals
Referred to NKR Member Centers

*2017: Donor intake system was re-engineered and the donor certification form was removed
*2018: Pre-workup labs were implemented which screened out candidates not willing to complete 24 hour urine test
NKR Graft Survival Advantage
NKR Transplants vs. U.S. Living Donor Transplants (All Cause)
As of 9/30/2017

Provided courtesy of Johns Hopkins University School of Medicine, Department of Surgery
*Not including CHIP patients; Kaplan-Meier GS Rates for Transplants Performed: 02/2008-06/2017 with follow-up through 09/30/2017
https://www.srtr.org/ SRTR data as of December, 2017
NKR Patient Survival Advantage
NKR Transplants vs. U.S. Living Donor Transplants (All Cause)
As of 9/30/2017

Provided courtesy of Johns Hopkins University School of Medicine, Department of Surgery
*Not including CHIP patients; Kaplan-Meier GS Rates for Transplants Performed: 02/2008-06/2017 with follow-up through 09/30/2017
https://www.srtr.org/ SRTR data as of December, 2017
Pre-Workup Labs
24-Hour Urine Jugs Shipped

<table>
<thead>
<tr>
<th>Month</th>
<th>Sep-17</th>
<th>Oct-17</th>
<th>Nov-17</th>
<th>Dec-17</th>
<th>Jan-18</th>
<th>Feb-18</th>
<th>Mar-18</th>
</tr>
</thead>
<tbody>
<tr>
<td>Count</td>
<td>44</td>
<td>136</td>
<td>223</td>
<td>308</td>
<td>362</td>
<td>317</td>
<td>376</td>
</tr>
</tbody>
</table>

Pre-Workup Labs
Scripts Uploaded

<table>
<thead>
<tr>
<th>Month</th>
<th>Sep-17</th>
<th>Oct-17</th>
<th>Nov-17</th>
<th>Dec-17</th>
<th>Jan-18</th>
<th>Feb-18</th>
<th>Mar-18</th>
</tr>
</thead>
<tbody>
<tr>
<td>Count</td>
<td>3</td>
<td>53</td>
<td>108</td>
<td>119</td>
<td>215</td>
<td>202</td>
<td>197</td>
</tr>
</tbody>
</table>
Patients Waiting > 1 Year by Quarter
As of 3/31/2018
Patients Waiting > 1 Year by Center
As of 3/31/2018

Transplanted Patient Median Wait Time
Wait times of patients transplanted during prior 12 months
As of 3/31/2018
Wait Time Distribution
Transplanted Pairs

Pairs waiting >1 year
Due to Unfavorable Blood Type Combination

<table>
<thead>
<tr>
<th>#</th>
<th>R Alias</th>
<th>R ABO</th>
<th>D ABO</th>
<th>MHP</th>
<th>cPRA4</th>
<th>R Age</th>
<th>D Age</th>
<th>PMPc</th>
<th>Wait (Months)</th>
<th>CLCu</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>PW64154</td>
<td>O</td>
<td>A</td>
<td>0</td>
<td>49.7</td>
<td>53</td>
<td>48</td>
<td>7</td>
<td>22</td>
<td>-5140</td>
</tr>
<tr>
<td>2</td>
<td>R118DE</td>
<td>O</td>
<td>A</td>
<td>0</td>
<td>0.08</td>
<td>38</td>
<td>62</td>
<td>78</td>
<td>17</td>
<td>-18400</td>
</tr>
<tr>
<td>3</td>
<td>HIPIR</td>
<td>O</td>
<td>A</td>
<td>0</td>
<td>0</td>
<td>70</td>
<td>69</td>
<td>109</td>
<td>16</td>
<td>-41300</td>
</tr>
<tr>
<td>4</td>
<td>JZ0126</td>
<td>O</td>
<td>B</td>
<td>0</td>
<td>0</td>
<td>49</td>
<td>52</td>
<td>4</td>
<td>15</td>
<td>-790</td>
</tr>
<tr>
<td>5</td>
<td>TB9421</td>
<td>O</td>
<td>A</td>
<td>0</td>
<td>81.63</td>
<td>49</td>
<td>48</td>
<td>4</td>
<td>14</td>
<td>-5140</td>
</tr>
<tr>
<td>6</td>
<td>BSMCWA</td>
<td>O</td>
<td>A</td>
<td>0</td>
<td>0</td>
<td>67</td>
<td>66</td>
<td>113</td>
<td>14</td>
<td>-2630</td>
</tr>
<tr>
<td>7</td>
<td>2002087531</td>
<td>O</td>
<td>AB</td>
<td>0</td>
<td>13.83</td>
<td>75</td>
<td>43</td>
<td>66</td>
<td>13</td>
<td>-2060</td>
</tr>
<tr>
<td>8</td>
<td>RFLCC07</td>
<td>O</td>
<td>AB</td>
<td>0</td>
<td>0</td>
<td>52</td>
<td>44</td>
<td>109</td>
<td>13</td>
<td>-14040</td>
</tr>
</tbody>
</table>

*As of 4/20/18*
## Pairs waiting >1 year

Due to High cPRA

<table>
<thead>
<tr>
<th>#</th>
<th>R Alias</th>
<th>R ABO</th>
<th>D ABO</th>
<th>MHP</th>
<th>cPRA</th>
<th>R Age</th>
<th>D Age</th>
<th>PMPc</th>
<th>Wait (Months)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>SMIT93</td>
<td>A</td>
<td>A</td>
<td>0</td>
<td>100</td>
<td>24</td>
<td>50</td>
<td>0</td>
<td>66</td>
</tr>
<tr>
<td>2</td>
<td>STORB</td>
<td>O</td>
<td>A</td>
<td>0</td>
<td>100</td>
<td>61</td>
<td>66</td>
<td>0</td>
<td>64</td>
</tr>
<tr>
<td>3</td>
<td>MAB1402991</td>
<td>AB</td>
<td>B</td>
<td>O</td>
<td>0</td>
<td>100</td>
<td>14</td>
<td>50</td>
<td>37</td>
</tr>
<tr>
<td>4</td>
<td>NL2157</td>
<td>O</td>
<td>A</td>
<td>0</td>
<td>100</td>
<td>68</td>
<td>35</td>
<td>0</td>
<td>56</td>
</tr>
<tr>
<td>5</td>
<td>JFOR468</td>
<td>O</td>
<td>B</td>
<td>0</td>
<td>100</td>
<td>63</td>
<td>64</td>
<td>0</td>
<td>39</td>
</tr>
<tr>
<td>6</td>
<td>FD809142R</td>
<td>O</td>
<td>A</td>
<td>0</td>
<td>100</td>
<td>16</td>
<td>48</td>
<td>0</td>
<td>29</td>
</tr>
<tr>
<td>7</td>
<td>CISJEN</td>
<td>A</td>
<td>A</td>
<td>25</td>
<td>100</td>
<td>33</td>
<td>35</td>
<td>0</td>
<td>26</td>
</tr>
<tr>
<td>8</td>
<td>JF61593</td>
<td>A</td>
<td>O</td>
<td>0</td>
<td>100</td>
<td>50</td>
<td>35</td>
<td>0</td>
<td>25</td>
</tr>
<tr>
<td>9</td>
<td>R3148</td>
<td>A</td>
<td>AB</td>
<td>0</td>
<td>100</td>
<td>39</td>
<td>34</td>
<td>0</td>
<td>24</td>
</tr>
<tr>
<td>10</td>
<td>SS11376266</td>
<td>A</td>
<td>A</td>
<td>10</td>
<td>100</td>
<td>63</td>
<td>39</td>
<td>0</td>
<td>24</td>
</tr>
<tr>
<td>11</td>
<td>DM8150868</td>
<td>A</td>
<td>A</td>
<td>0</td>
<td>100</td>
<td>30</td>
<td>28</td>
<td>0</td>
<td>23</td>
</tr>
<tr>
<td>12</td>
<td>RUMOR</td>
<td>A</td>
<td>A</td>
<td>25</td>
<td>100</td>
<td>54</td>
<td>27</td>
<td>0</td>
<td>22</td>
</tr>
<tr>
<td>13</td>
<td>EBKPR</td>
<td>A</td>
<td>O</td>
<td>0</td>
<td>100</td>
<td>36</td>
<td>26</td>
<td>0</td>
<td>20</td>
</tr>
<tr>
<td>14</td>
<td>RG624929</td>
<td>O</td>
<td>AB</td>
<td>0</td>
<td>100</td>
<td>33</td>
<td>51</td>
<td>0</td>
<td>18</td>
</tr>
<tr>
<td>15</td>
<td>EGUE357</td>
<td>O</td>
<td>O</td>
<td>0</td>
<td>100</td>
<td>62</td>
<td>36</td>
<td>0</td>
<td>17</td>
</tr>
<tr>
<td>16</td>
<td>STESCA</td>
<td>B</td>
<td>B</td>
<td>6</td>
<td>100</td>
<td>44</td>
<td>41</td>
<td>0</td>
<td>16</td>
</tr>
<tr>
<td>17</td>
<td>SCHNALRE</td>
<td>O</td>
<td>O</td>
<td>0</td>
<td>100</td>
<td>54</td>
<td>54</td>
<td>0</td>
<td>15</td>
</tr>
<tr>
<td>18</td>
<td>DEKEDRE</td>
<td>O</td>
<td>O</td>
<td>0</td>
<td>100</td>
<td>47</td>
<td>35</td>
<td>0</td>
<td>14</td>
</tr>
<tr>
<td>19</td>
<td>KM7491184</td>
<td>B</td>
<td>O</td>
<td>0</td>
<td>100</td>
<td>43</td>
<td>48</td>
<td>0</td>
<td>13</td>
</tr>
<tr>
<td>20</td>
<td>JJ1978</td>
<td>B</td>
<td>O</td>
<td>O</td>
<td>0</td>
<td>99.97</td>
<td>39</td>
<td>47</td>
<td>36</td>
</tr>
<tr>
<td>21</td>
<td>GM8784</td>
<td>B</td>
<td>O</td>
<td>0</td>
<td>99.97</td>
<td>23</td>
<td>31</td>
<td>0</td>
<td>31</td>
</tr>
<tr>
<td>22</td>
<td>J36760809G</td>
<td>O</td>
<td>O</td>
<td>50</td>
<td>99.97</td>
<td>37</td>
<td>27</td>
<td>0</td>
<td>25</td>
</tr>
<tr>
<td>23</td>
<td>J24548992N</td>
<td>B</td>
<td>O</td>
<td>50</td>
<td>99.95</td>
<td>39</td>
<td>37</td>
<td>0</td>
<td>33</td>
</tr>
<tr>
<td>24</td>
<td>R303348</td>
<td>B</td>
<td>AB</td>
<td>0</td>
<td>99.95</td>
<td>58</td>
<td>41</td>
<td>0</td>
<td>31</td>
</tr>
<tr>
<td>25</td>
<td>BURCHD77</td>
<td>B</td>
<td>B</td>
<td>B</td>
<td>0</td>
<td>99.95</td>
<td>40</td>
<td>44</td>
<td>38</td>
</tr>
<tr>
<td>26</td>
<td>UC06142609</td>
<td>O</td>
<td>O</td>
<td>0</td>
<td>99.95</td>
<td>66</td>
<td>49</td>
<td>0</td>
<td>19</td>
</tr>
<tr>
<td>27</td>
<td>R5438</td>
<td>O</td>
<td>O</td>
<td>0</td>
<td>99.95</td>
<td>63</td>
<td>36</td>
<td>0</td>
<td>19</td>
</tr>
<tr>
<td>28</td>
<td>JS966563</td>
<td>O</td>
<td>O</td>
<td>0</td>
<td>99.92</td>
<td>38</td>
<td>52</td>
<td>0</td>
<td>15</td>
</tr>
<tr>
<td>29</td>
<td>MP14561160</td>
<td>O</td>
<td>O</td>
<td>0</td>
<td>99.89</td>
<td>48</td>
<td>43</td>
<td>0</td>
<td>21</td>
</tr>
<tr>
<td>30</td>
<td>BC1946</td>
<td>O</td>
<td>A</td>
<td>0</td>
<td>99.87</td>
<td>71</td>
<td>44</td>
<td>0</td>
<td>71</td>
</tr>
<tr>
<td>31</td>
<td>RS537425</td>
<td>B</td>
<td>A</td>
<td>0</td>
<td>99.81</td>
<td>55</td>
<td>52</td>
<td>0</td>
<td>15</td>
</tr>
<tr>
<td>32</td>
<td>LCL2183933</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>0</td>
<td>99.79</td>
<td>23</td>
<td>57</td>
<td>34</td>
</tr>
<tr>
<td>33</td>
<td>AD0043</td>
<td>O</td>
<td>O</td>
<td>0</td>
<td>99.74</td>
<td>50</td>
<td>53</td>
<td>0</td>
<td>41</td>
</tr>
<tr>
<td>34</td>
<td>KHBHR</td>
<td>A</td>
<td>O</td>
<td>0</td>
<td>99.68</td>
<td>66</td>
<td>39</td>
<td>0</td>
<td>23</td>
</tr>
<tr>
<td>35</td>
<td>HAERROS76</td>
<td>O</td>
<td>A</td>
<td>0</td>
<td>99.63</td>
<td>41</td>
<td>67</td>
<td>4</td>
<td>18</td>
</tr>
<tr>
<td>36</td>
<td>WUR9876</td>
<td>A</td>
<td>AB</td>
<td>0</td>
<td>99.39</td>
<td>48</td>
<td>55</td>
<td>0</td>
<td>15</td>
</tr>
<tr>
<td>37</td>
<td>SMHCOL</td>
<td>O</td>
<td>A</td>
<td>0</td>
<td>98.52</td>
<td>22</td>
<td>55</td>
<td>0</td>
<td>29</td>
</tr>
<tr>
<td>38</td>
<td>BB02081975</td>
<td>B</td>
<td>AB</td>
<td>0</td>
<td>97.17</td>
<td>42</td>
<td>50</td>
<td>0</td>
<td>13</td>
</tr>
</tbody>
</table>

*As of 4/20/18*
Unmatched Target Pairs
Waiting more than 12 Months

Pair Wait Time Analysis

*As of 4/5, 3:40pm

NKR Matchable Pairs
*As of 4/5, 3:55pm
Compatible Pairs Transplanted

Pool Composition by cPRA
As of 3/31/2018

<table>
<thead>
<tr>
<th>cPRA</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>100%</td>
<td>35%</td>
</tr>
<tr>
<td>95-99%</td>
<td>23%</td>
</tr>
<tr>
<td>80-95%</td>
<td>18%</td>
</tr>
<tr>
<td>50-80%</td>
<td>11%</td>
</tr>
<tr>
<td>0-50%</td>
<td>7%</td>
</tr>
<tr>
<td>0%</td>
<td>6%</td>
</tr>
</tbody>
</table>
Transplanted Patients with cPRA > 80%

Transplanted Patients by cPRA

cPRA

- 95-100%
- 80-95%
- 50-80%
- 0-50%
- 0%


Annualized
New Exportable Pairs

Pool Size
Unmatched Patients by Day
1/14/2012 - 3/31/2018
**Updates as of 4/19/18**

**Chain and Loop Statistics**

<table>
<thead>
<tr>
<th>Category</th>
<th>Count</th>
<th>Mean Length</th>
<th>Transplants</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ended</td>
<td>591</td>
<td>3.87</td>
<td>2287</td>
</tr>
<tr>
<td>Broken</td>
<td>24</td>
<td>4.12</td>
<td>99</td>
</tr>
<tr>
<td>Active</td>
<td>2</td>
<td>2.50</td>
<td>5</td>
</tr>
<tr>
<td>Chain Total</td>
<td>617</td>
<td>3.88</td>
<td>2394</td>
</tr>
<tr>
<td>Loops</td>
<td>105</td>
<td>2.33</td>
<td>245</td>
</tr>
<tr>
<td>Total</td>
<td>722</td>
<td>3.65</td>
<td>2636</td>
</tr>
</tbody>
</table>

**Chains Started**

![Graph showing chains started over time]

- **Q4-11**: 8
- **Q1-12**: 6
- **Q2-12**: 12
- **Q3-12**: 13
- **Q4-12**: 15
- **Q1-13**: 12
- **Q2-13**: 10
- **Q3-13**: 17
- **Q4-13**: 15
- **Q1-14**: 14
- **Q2-14**: 12
- **Q3-14**: 19
- **Q4-14**: 14
- **Q1-15**: 13
- **Q2-15**: 18
- **Q3-15**: 19
- **Q4-15**: 22
- **Q1-16**: 22
- **Q2-16**: 22
- **Q3-16**: 28
- **Q4-16**: 29
- **Q1-17**: 34
- **Q2-17**: 44
- **Q3-17**: 53
- **Q4-17**: 64
- **Q1-18**: 64
Great HLA Matches
Zero Mismatch

<table>
<thead>
<tr>
<th>Count</th>
<th>Recipient Center</th>
<th>Swap #</th>
<th>XP Date</th>
<th>Donor ABO</th>
<th>Recipient ABO</th>
<th>NKR cPRA</th>
<th>Wait Time in Months</th>
<th>Donor Age ATOT</th>
<th>Recipient Age ATOT</th>
<th>HLA Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Penn</td>
<td>1227</td>
<td>2/14/2018</td>
<td>O</td>
<td>O</td>
<td>7</td>
<td>3</td>
<td>58</td>
<td>26</td>
<td>100</td>
</tr>
<tr>
<td>2</td>
<td>Walter Reed</td>
<td>1203</td>
<td>2/8/2018</td>
<td>A</td>
<td>AB</td>
<td>100</td>
<td>5</td>
<td>61</td>
<td>40</td>
<td>100</td>
</tr>
<tr>
<td>3</td>
<td>Maine</td>
<td>1157</td>
<td>1/3/2018</td>
<td>A</td>
<td>A</td>
<td>100</td>
<td>9</td>
<td>54</td>
<td>52</td>
<td>100</td>
</tr>
<tr>
<td>4</td>
<td>Hartford</td>
<td>1191</td>
<td>1/3/2018</td>
<td>O</td>
<td>O</td>
<td>0</td>
<td>9</td>
<td>46</td>
<td>59</td>
<td>100</td>
</tr>
<tr>
<td>5</td>
<td>Hopkins</td>
<td>1019</td>
<td>6/1/2017</td>
<td>A</td>
<td>AB</td>
<td>0</td>
<td>2</td>
<td>40</td>
<td>55</td>
<td>100</td>
</tr>
<tr>
<td>6</td>
<td>Brigham</td>
<td>1026</td>
<td>5/24/2017</td>
<td>A</td>
<td>A</td>
<td>95</td>
<td>2</td>
<td>58</td>
<td>33</td>
<td>100</td>
</tr>
<tr>
<td>7</td>
<td>ChristHosp</td>
<td>952</td>
<td>1/18/2017</td>
<td>A</td>
<td>A</td>
<td>99</td>
<td>1</td>
<td>57</td>
<td>34</td>
<td>100</td>
</tr>
<tr>
<td>8</td>
<td>UMinn</td>
<td>928</td>
<td>11/8/2016</td>
<td>A</td>
<td>A</td>
<td>100</td>
<td>4</td>
<td>66</td>
<td>12</td>
<td>100</td>
</tr>
<tr>
<td>9</td>
<td>Cincinnati</td>
<td>884</td>
<td>8/31/2016</td>
<td>A</td>
<td>A</td>
<td>73</td>
<td>1</td>
<td>28</td>
<td>40</td>
<td>100</td>
</tr>
<tr>
<td>10</td>
<td>OSU</td>
<td>509</td>
<td>8/30/2016</td>
<td>A</td>
<td>A</td>
<td>91</td>
<td>1</td>
<td>38</td>
<td>67</td>
<td>100</td>
</tr>
<tr>
<td>11</td>
<td>SCarolina</td>
<td>459</td>
<td>2/11/2016</td>
<td>A</td>
<td>A</td>
<td>100</td>
<td>3</td>
<td>64</td>
<td>53</td>
<td>100</td>
</tr>
<tr>
<td>12</td>
<td>Madison</td>
<td>442</td>
<td>12/22/2015</td>
<td>A</td>
<td>A</td>
<td>97</td>
<td>6</td>
<td>22</td>
<td>63</td>
<td>100</td>
</tr>
<tr>
<td>13</td>
<td>UMinn</td>
<td>440</td>
<td>11/19/2015</td>
<td>O</td>
<td>O</td>
<td>100</td>
<td>5</td>
<td>23</td>
<td>20</td>
<td>100</td>
</tr>
<tr>
<td>14</td>
<td>UCLA</td>
<td>357</td>
<td>2/17/2015</td>
<td>A</td>
<td>A</td>
<td>100</td>
<td>34</td>
<td>39</td>
<td>52</td>
<td>100</td>
</tr>
<tr>
<td>15</td>
<td>Emory</td>
<td>351</td>
<td>12/11/2014</td>
<td>A</td>
<td>A</td>
<td>100</td>
<td>5</td>
<td>25</td>
<td>33</td>
<td>100</td>
</tr>
<tr>
<td>16</td>
<td>Hopkins</td>
<td>330</td>
<td>11/13/2014</td>
<td>A</td>
<td>O</td>
<td>96</td>
<td>1</td>
<td>41</td>
<td>38</td>
<td>100</td>
</tr>
<tr>
<td>17</td>
<td>Loyola</td>
<td>324</td>
<td>8/5/2014</td>
<td>A</td>
<td>A</td>
<td>100</td>
<td>1</td>
<td>37</td>
<td>55</td>
<td>100</td>
</tr>
<tr>
<td>18</td>
<td>Madison</td>
<td>674</td>
<td>1/9/2014</td>
<td>O</td>
<td>A</td>
<td>99</td>
<td>5</td>
<td>29</td>
<td>33</td>
<td>100</td>
</tr>
<tr>
<td>19</td>
<td>Barnabas</td>
<td>182</td>
<td>10/3/2012</td>
<td>A</td>
<td>A</td>
<td>92</td>
<td>4</td>
<td>51</td>
<td>50</td>
<td>100</td>
</tr>
<tr>
<td>20</td>
<td>Barnes</td>
<td>105</td>
<td>3/31/2011</td>
<td>A</td>
<td>A</td>
<td>100</td>
<td>7</td>
<td>60</td>
<td>32</td>
<td>100</td>
</tr>
<tr>
<td>21</td>
<td>UCSF</td>
<td>58</td>
<td>6/15/2010</td>
<td>A</td>
<td>A</td>
<td>100</td>
<td>6</td>
<td>47</td>
<td>58</td>
<td>100</td>
</tr>
</tbody>
</table>

Failure Rates

MO Rate = 1-(XM/MO)
Swap Rate = 1-(TXP/XM)
Non-XM Swap Failures & TXP Surgeries Impacted

XM Swap Failures & TXP Surgeries Impacted
Streamlined XMs Requested

Bridge Donor Median Wait Times in Days
### Bridge Donor Wait Times

<table>
<thead>
<tr>
<th>Year</th>
<th>Median</th>
<th>Mean</th>
<th>Max</th>
<th>Min</th>
</tr>
</thead>
<tbody>
<tr>
<td>2008</td>
<td>59</td>
<td>53</td>
<td>77</td>
<td>16</td>
</tr>
<tr>
<td>2009</td>
<td>41</td>
<td>59</td>
<td>187</td>
<td>3</td>
</tr>
<tr>
<td>2010</td>
<td>14</td>
<td>51</td>
<td>385</td>
<td>2</td>
</tr>
<tr>
<td>2011</td>
<td>19</td>
<td>23</td>
<td>68</td>
<td>4</td>
</tr>
<tr>
<td>2012</td>
<td>14</td>
<td>29</td>
<td>314</td>
<td>2</td>
</tr>
<tr>
<td>2013</td>
<td>12</td>
<td>20</td>
<td>92</td>
<td>2</td>
</tr>
<tr>
<td>2014</td>
<td>6</td>
<td>11</td>
<td>97</td>
<td>2</td>
</tr>
<tr>
<td>2015</td>
<td>13</td>
<td>26</td>
<td>175</td>
<td>2</td>
</tr>
<tr>
<td>2016</td>
<td>8</td>
<td>14</td>
<td>71</td>
<td>2</td>
</tr>
<tr>
<td>2017</td>
<td>10</td>
<td>16</td>
<td>114</td>
<td>2</td>
</tr>
<tr>
<td>Q1-18</td>
<td>9</td>
<td>12</td>
<td>44</td>
<td>2</td>
</tr>
</tbody>
</table>

### Transplants per Bridge Donor

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>2008</td>
<td>2.3</td>
<td>2.1</td>
<td>2.1</td>
<td>2.3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2009</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2.1</td>
</tr>
<tr>
<td>2010</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2.1</td>
</tr>
<tr>
<td>2011</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2.3</td>
</tr>
<tr>
<td>2012</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>4.2</td>
</tr>
<tr>
<td>2013</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>8.3</td>
</tr>
<tr>
<td>2014</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>6.3</td>
</tr>
<tr>
<td>2015</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>6.8</td>
</tr>
<tr>
<td>2016</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>5.9</td>
</tr>
<tr>
<td>2017</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>5.3</td>
</tr>
<tr>
<td>Q1-18</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>5.2</td>
</tr>
</tbody>
</table>
### Summary Report
**Broken Chains & Real Time Swap Failures**

<table>
<thead>
<tr>
<th>Year</th>
<th># Bridge Donors</th>
<th># Real Time Swap Failures</th>
<th># Broken Chains</th>
<th>% Broken Per Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>2008</td>
<td>9</td>
<td>--</td>
<td>3</td>
<td>33%</td>
</tr>
<tr>
<td>2009</td>
<td>29</td>
<td>1</td>
<td>2</td>
<td>7%</td>
</tr>
<tr>
<td>2010</td>
<td>61</td>
<td>--</td>
<td>2</td>
<td>3%</td>
</tr>
<tr>
<td>2011</td>
<td>75</td>
<td>--</td>
<td>0</td>
<td>0%</td>
</tr>
<tr>
<td>2012</td>
<td>54</td>
<td>--</td>
<td>4</td>
<td>7%</td>
</tr>
<tr>
<td>2013</td>
<td>37</td>
<td>3</td>
<td>3</td>
<td>8%</td>
</tr>
<tr>
<td>2014</td>
<td>49</td>
<td>2</td>
<td>4</td>
<td>8%</td>
</tr>
<tr>
<td>2015</td>
<td>53</td>
<td>1</td>
<td>1</td>
<td>2%</td>
</tr>
<tr>
<td>2016</td>
<td>68</td>
<td>1</td>
<td>1</td>
<td>3%</td>
</tr>
<tr>
<td>2017</td>
<td>62</td>
<td>1</td>
<td>3</td>
<td>5%</td>
</tr>
<tr>
<td>2018</td>
<td>20</td>
<td>0</td>
<td>0</td>
<td>0%</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>507</strong></td>
<td><strong>9</strong></td>
<td><strong>23</strong></td>
<td></td>
</tr>
</tbody>
</table>

### Detail Report
**Broken Chains & Real Time Swap Failures**

<table>
<thead>
<tr>
<th>#</th>
<th>Reason Given</th>
<th>Real Time Swap Failures</th>
<th>Broken Chains</th>
<th>Center</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Job Issues/long wait time/ many failed XMs</td>
<td>✓</td>
<td>Cornell</td>
<td>5/1/2008</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>No Reason</td>
<td>✓</td>
<td>Cornell</td>
<td>8/21/2008</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>No Reason</td>
<td>✓</td>
<td>CPMC</td>
<td>11/19/2008</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Donor sick for swap then reneged later</td>
<td>✓</td>
<td>UTMC</td>
<td>6/9/2009</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Medical</td>
<td>✓</td>
<td>UCSF</td>
<td>11/10/2009</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Medical</td>
<td>✓</td>
<td>UCLA</td>
<td>3/16/2010</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Second nuclear GFR test &lt; 80 (79 down from 82)</td>
<td>✓</td>
<td>AGH</td>
<td>9/16/2010</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>No Reason</td>
<td>✓</td>
<td>MethodistTX</td>
<td>2/3/2012</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>No Reason</td>
<td>✓</td>
<td>UCSF</td>
<td>4/4/2012</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>Medical</td>
<td>✓</td>
<td>UCLA</td>
<td>6/28/2012</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>Medical/Surgical</td>
<td>✓</td>
<td>Washington</td>
<td>11/5/2012</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>Aborted donor surgery</td>
<td>✓</td>
<td>CPMC</td>
<td>6/27/2013</td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>Kidney declined by recipient surgeon</td>
<td>✓</td>
<td>RWJ/UPenn</td>
<td>7/23/2013</td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>Recipient Medical Issue</td>
<td>✓</td>
<td>Porter</td>
<td>10/16/13</td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>Kidney Declined by Recipient Surgeon</td>
<td>✓</td>
<td>Porter/Jefferson</td>
<td>1/9/14</td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>Medical</td>
<td>✓</td>
<td>UCLA</td>
<td>3/4/14</td>
<td></td>
</tr>
<tr>
<td>17</td>
<td>Recipient Medical Issue</td>
<td>✓</td>
<td>Loop</td>
<td>ChrisHosp</td>
<td>3/11/14</td>
</tr>
<tr>
<td>18</td>
<td>Medical</td>
<td>✓</td>
<td>Hopkins</td>
<td>7/15/14</td>
<td></td>
</tr>
<tr>
<td>19</td>
<td>Medical</td>
<td>✓</td>
<td>Hopkins</td>
<td>10/9/14</td>
<td></td>
</tr>
<tr>
<td>20</td>
<td>Kidney Declined by Recipient Surgeon</td>
<td>✓</td>
<td>Tampa/Hopkins</td>
<td>7/7/15</td>
<td></td>
</tr>
<tr>
<td>21</td>
<td>Kidney Declined by Recipient Surgeon</td>
<td>✓</td>
<td>Porter/Aurora St Lukes</td>
<td>3/17/16</td>
<td></td>
</tr>
<tr>
<td>22</td>
<td>Donor reneged</td>
<td>✓</td>
<td>Maryland</td>
<td>8/8/16</td>
<td></td>
</tr>
<tr>
<td>23</td>
<td>Donor reneged</td>
<td>✓</td>
<td>SCarolina</td>
<td>1/10/17</td>
<td></td>
</tr>
<tr>
<td>24</td>
<td>Kidney Declined by Recipient Surgeon</td>
<td>✓</td>
<td>Indiana/UNC</td>
<td>9/27/2017</td>
<td></td>
</tr>
<tr>
<td>25</td>
<td>Donor Ruled Out- Medical Issue</td>
<td>✓</td>
<td>UMinn</td>
<td>8/23/2017</td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>9</strong></td>
<td><strong>23</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
## Advanced Donation Program (ADP) Summary
As of 3/31/2018

<table>
<thead>
<tr>
<th>Type</th>
<th>Cases</th>
<th>Add'l TXPs Facilitated</th>
<th>80% + cPRA TXPs Facilitated</th>
<th>95% + cPRA TXPs Facilitated</th>
</tr>
</thead>
<tbody>
<tr>
<td>Short-Term*</td>
<td>74</td>
<td>247</td>
<td>78</td>
<td>40</td>
</tr>
<tr>
<td>Voucher**</td>
<td>29</td>
<td>83</td>
<td>13</td>
<td>6</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>103</strong></td>
<td><strong>331</strong></td>
<td><strong>91</strong></td>
<td><strong>46</strong></td>
</tr>
</tbody>
</table>

*Short-Term— At time of advanced donation the intended ADP Recipient is in need of transplant.

**Voucher - At time of advanced donation the intended ADP Recipient is not in need and may never be in need of transplant.
ADP Recipients Outstanding vs. Overall Chains Started

ADP Wait Time Analysis
As of 3/31/18
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Transplants Facilitated</td>
<td>21</td>
<td>62</td>
<td>131</td>
<td>175</td>
<td>226</td>
<td>308</td>
<td>310</td>
<td>360</td>
<td>399</td>
<td>462</td>
<td>147</td>
</tr>
<tr>
<td>2 Paired Transplants Facilitated</td>
<td>21</td>
<td>39</td>
<td>91</td>
<td>131</td>
<td>164</td>
<td>252</td>
<td>255</td>
<td>288</td>
<td>315</td>
<td>318</td>
<td>85</td>
</tr>
<tr>
<td>3 Chip Transplants Facilitated</td>
<td>0</td>
<td>23</td>
<td>40</td>
<td>44</td>
<td>62</td>
<td>56</td>
<td>55</td>
<td>72</td>
<td>84</td>
<td>144</td>
<td>62</td>
</tr>
<tr>
<td>4 Ending Unmatched Patient Pool</td>
<td>80</td>
<td>127</td>
<td>120</td>
<td>201</td>
<td>241</td>
<td>255</td>
<td>279</td>
<td>280</td>
<td>215</td>
<td>181</td>
<td>173</td>
</tr>
<tr>
<td>5 Cumulative Transplants</td>
<td>21</td>
<td>83</td>
<td>214</td>
<td>389</td>
<td>615</td>
<td>923</td>
<td>1233</td>
<td>1593</td>
<td>1992</td>
<td>2454</td>
<td>2601</td>
</tr>
<tr>
<td>6 Cumulative Paired Transplants</td>
<td>21</td>
<td>60</td>
<td>150</td>
<td>280</td>
<td>526</td>
<td>777</td>
<td>1030</td>
<td>1316</td>
<td>1630</td>
<td>1946</td>
<td>2031</td>
</tr>
<tr>
<td>7 Cumulative Chip Transplants</td>
<td>0</td>
<td>23</td>
<td>64</td>
<td>109</td>
<td>89</td>
<td>146</td>
<td>203</td>
<td>277</td>
<td>362</td>
<td>508</td>
<td>570</td>
</tr>
<tr>
<td>8 Cumulative Paired Patient Pool</td>
<td>101</td>
<td>210</td>
<td>334</td>
<td>590</td>
<td>805</td>
<td>1062</td>
<td>1351</td>
<td>1615</td>
<td>1877</td>
<td>2152</td>
<td>2243</td>
</tr>
<tr>
<td>9 Percent of Pool Transplanted (Paired Recipients)</td>
<td>21%</td>
<td>40%</td>
<td>64%</td>
<td>66%</td>
<td>71%</td>
<td>79%</td>
<td>84%</td>
<td>89%</td>
<td>92%</td>
<td>92%</td>
<td>92%</td>
</tr>
<tr>
<td>10 Enrolled Patient Mean Wait Time (years)</td>
<td>3.8</td>
<td>2.0</td>
<td>0.9</td>
<td>1.1</td>
<td>1.1</td>
<td>1.0</td>
<td>0.9</td>
<td>0.9</td>
<td>0.9</td>
<td>0.9</td>
<td>0.8</td>
</tr>
<tr>
<td>11 Transplanted Patient Mean Wait Time (months)</td>
<td>5.1</td>
<td>5.3</td>
<td>3.9</td>
<td>6.0</td>
<td>5.0</td>
<td>4.4</td>
<td>4.8</td>
<td>4.1</td>
<td>4.7</td>
<td>4.0</td>
<td>4.5</td>
</tr>
<tr>
<td>12 Transplanted Patient Median Wait Time (months)</td>
<td>5.3</td>
<td>5.3</td>
<td>3.9</td>
<td>2.6</td>
<td>3.0</td>
<td>3.0</td>
<td>2.3</td>
<td>2.4</td>
<td>2.2</td>
<td>1.8</td>
<td>1.8</td>
</tr>
<tr>
<td>13 Mean cPRA of Transplanted Patients</td>
<td>4.1%</td>
<td>25.9%</td>
<td>34.5%</td>
<td>40.3%</td>
<td>44.1%</td>
<td>54.0%</td>
<td>48.3%</td>
<td>48.9%</td>
<td>42.8%</td>
<td>46.4%</td>
<td>46.7%</td>
</tr>
<tr>
<td>14 Number of Transplants Completed by cPRA</td>
<td>0</td>
<td>1</td>
<td>4</td>
<td>10</td>
<td>4</td>
<td>5</td>
<td>3</td>
<td>7</td>
<td>3</td>
<td>4</td>
<td>0</td>
</tr>
<tr>
<td>15 100%</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>16 95-100%</td>
<td>0</td>
<td>4</td>
<td>12</td>
<td>10</td>
<td>29</td>
<td>68</td>
<td>41</td>
<td>47</td>
<td>39</td>
<td>41</td>
<td>19</td>
</tr>
<tr>
<td>17 80-95%</td>
<td>1</td>
<td>7</td>
<td>16</td>
<td>29</td>
<td>26</td>
<td>37</td>
<td>49</td>
<td>55</td>
<td>59</td>
<td>60</td>
<td>13</td>
</tr>
<tr>
<td>18 50-80%</td>
<td>0</td>
<td>5</td>
<td>19</td>
<td>27</td>
<td>33</td>
<td>46</td>
<td>48</td>
<td>42</td>
<td>53</td>
<td>49</td>
<td>18</td>
</tr>
<tr>
<td>19 0-50%</td>
<td>1</td>
<td>8</td>
<td>13</td>
<td>30</td>
<td>34</td>
<td>47</td>
<td>43</td>
<td>57</td>
<td>61</td>
<td>94</td>
<td>11</td>
</tr>
<tr>
<td>20 0%</td>
<td>19</td>
<td>37</td>
<td>67</td>
<td>60</td>
<td>100</td>
<td>105</td>
<td>126</td>
<td>152</td>
<td>184</td>
<td>214</td>
<td>86</td>
</tr>
<tr>
<td>21 Sub-total</td>
<td>21</td>
<td>62</td>
<td>131</td>
<td>175</td>
<td>226</td>
<td>308</td>
<td>310</td>
<td>360</td>
<td>399</td>
<td>462</td>
<td>147</td>
</tr>
<tr>
<td>22 Percent of Transplants Completed by cPRA</td>
<td>0%</td>
<td>2%</td>
<td>3%</td>
<td>6%</td>
<td>2%</td>
<td>2%</td>
<td>1%</td>
<td>2%</td>
<td>1%</td>
<td>1%</td>
<td>0%</td>
</tr>
<tr>
<td>23 100%</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>24 95-100%</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>25 80-95%</td>
<td>5%</td>
<td>11%</td>
<td>12%</td>
<td>17%</td>
<td>12%</td>
<td>12%</td>
<td>16%</td>
<td>15%</td>
<td>15%</td>
<td>13%</td>
<td>9%</td>
</tr>
<tr>
<td>26 50-80%</td>
<td>0%</td>
<td>8%</td>
<td>15%</td>
<td>15%</td>
<td>15%</td>
<td>15%</td>
<td>15%</td>
<td>15%</td>
<td>13%</td>
<td>11%</td>
<td>12%</td>
</tr>
<tr>
<td>27 0-50%</td>
<td>5%</td>
<td>13%</td>
<td>10%</td>
<td>17%</td>
<td>15%</td>
<td>15%</td>
<td>14%</td>
<td>16%</td>
<td>15%</td>
<td>20%</td>
<td>7%</td>
</tr>
<tr>
<td>28 0%</td>
<td>90%</td>
<td>60%</td>
<td>51%</td>
<td>39%</td>
<td>44%</td>
<td>34%</td>
<td>41%</td>
<td>42%</td>
<td>46%</td>
<td>46%</td>
<td>59%</td>
</tr>
<tr>
<td>29 Sub-total</td>
<td>100%</td>
<td>100%</td>
<td>100%</td>
<td>100%</td>
<td>100%</td>
<td>100%</td>
<td>100%</td>
<td>100%</td>
<td>100%</td>
<td>100%</td>
<td>100%</td>
</tr>
<tr>
<td>30 Number of Transplanted Patients with cPRA &gt;80%</td>
<td>1</td>
<td>12</td>
<td>32</td>
<td>49</td>
<td>59</td>
<td>110</td>
<td>93</td>
<td>109</td>
<td>101</td>
<td>105</td>
<td>32</td>
</tr>
<tr>
<td>31 Percent of Transplanted Patients with cPRA &gt;80%</td>
<td>5%</td>
<td>19%</td>
<td>24%</td>
<td>28%</td>
<td>26%</td>
<td>36%</td>
<td>30%</td>
<td>30%</td>
<td>26%</td>
<td>23%</td>
<td>22%</td>
</tr>
<tr>
<td></td>
<td>Number of Unmatched Patients by cPRA</td>
<td>2008</td>
<td>2009</td>
<td>2010</td>
<td>2011</td>
<td>2012</td>
<td>2013</td>
<td>2014</td>
<td>2015</td>
<td>2016</td>
<td>2017</td>
</tr>
<tr>
<td>---</td>
<td>-------------------------------------</td>
<td>------</td>
<td>------</td>
<td>------</td>
<td>------</td>
<td>------</td>
<td>------</td>
<td>------</td>
<td>------</td>
<td>------</td>
<td>------</td>
</tr>
<tr>
<td>32</td>
<td>100%</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>33</td>
<td>95-99%</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>34</td>
<td>80-95%</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>35</td>
<td>50-80%</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>36</td>
<td>0-50%</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>37</td>
<td>Sub-total</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>38</td>
<td>0%</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>39</td>
<td>Sub-total</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>40</td>
<td>Percent of Unmatched Patients by cPRA</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>41</td>
<td>100%</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>42</td>
<td>95-99%</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>43</td>
<td>80-95%</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>44</td>
<td>50-80%</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>45</td>
<td>0-50%</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>46</td>
<td>Sub-total</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>47</td>
<td>Sub-total</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>48</td>
<td>&lt; 6 months</td>
<td>21</td>
<td>42</td>
<td>74</td>
<td>106</td>
<td>180</td>
<td>232</td>
<td>243</td>
<td>298</td>
<td>327</td>
<td>392</td>
<td>126</td>
</tr>
<tr>
<td>49</td>
<td>6-12 months</td>
<td>0</td>
<td>10</td>
<td>14</td>
<td>19</td>
<td>24</td>
<td>44</td>
<td>35</td>
<td>38</td>
<td>30</td>
<td>37</td>
<td>12</td>
</tr>
<tr>
<td>50</td>
<td>1-2 years</td>
<td>0</td>
<td>4</td>
<td>15</td>
<td>14</td>
<td>20</td>
<td>25</td>
<td>27</td>
<td>22</td>
<td>32</td>
<td>29</td>
<td>6</td>
</tr>
<tr>
<td>51</td>
<td>2+ years</td>
<td>0</td>
<td>0</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>5</td>
<td>2</td>
<td>10</td>
<td>4</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>52</td>
<td>Sub-total</td>
<td>21</td>
<td>56</td>
<td>105</td>
<td>141</td>
<td>226</td>
<td>308</td>
<td>310</td>
<td>360</td>
<td>399</td>
<td>462</td>
<td>147</td>
</tr>
<tr>
<td>53</td>
<td>Sub-total</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>54</td>
<td>Percent of Transplants Completed by Wait Time</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>55</td>
<td>&lt; 6 months</td>
<td>100%</td>
<td>75.0%</td>
<td>70.5%</td>
<td>75.2%</td>
<td>79.6%</td>
<td>75.3%</td>
<td>78.4%</td>
<td>82.8%</td>
<td>82.0%</td>
<td>84.8%</td>
<td>85.7%</td>
</tr>
<tr>
<td>56</td>
<td>6-12 months</td>
<td>0.0%</td>
<td>17.9%</td>
<td>13.3%</td>
<td>13.5%</td>
<td>10.6%</td>
<td>14.3%</td>
<td>11.3%</td>
<td>10.6%</td>
<td>7.5%</td>
<td>8.0%</td>
<td>8.2%</td>
</tr>
<tr>
<td>57</td>
<td>1-2 years</td>
<td>0.0%</td>
<td>7.1%</td>
<td>14.3%</td>
<td>9.9%</td>
<td>8.8%</td>
<td>8.1%</td>
<td>8.7%</td>
<td>6.1%</td>
<td>8.0%</td>
<td>6.3%</td>
<td>4.1%</td>
</tr>
<tr>
<td>58</td>
<td>2+ years</td>
<td>0.0%</td>
<td>0.0%</td>
<td>1.9%</td>
<td>1.4%</td>
<td>0.9%</td>
<td>2.3%</td>
<td>1.6%</td>
<td>0.6%</td>
<td>2.5%</td>
<td>0.9%</td>
<td>2.0%</td>
</tr>
<tr>
<td>59</td>
<td>Sub-total</td>
<td></td>
<td>100%</td>
<td>100%</td>
<td>100%</td>
<td>100%</td>
<td>100%</td>
<td>100%</td>
<td>100%</td>
<td>100%</td>
<td>100%</td>
<td>100%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>60</td>
<td>4</td>
<td>9</td>
<td>28</td>
<td>36</td>
<td>46</td>
<td>55</td>
<td>63</td>
<td>83</td>
<td>99</td>
<td>160</td>
<td>79</td>
<td></td>
</tr>
<tr>
<td>61</td>
<td>Total Loops Completed</td>
<td>0</td>
<td>3</td>
<td>2</td>
<td>3</td>
<td>12</td>
<td>24</td>
<td>17</td>
<td>15</td>
<td>7</td>
<td>15</td>
<td>0</td>
</tr>
<tr>
<td>62</td>
<td>Number of broken chains</td>
<td>3</td>
<td>2</td>
<td>2</td>
<td>0</td>
<td>4</td>
<td>3</td>
<td>4</td>
<td>1</td>
<td>2</td>
<td>2</td>
<td>0</td>
</tr>
<tr>
<td>63</td>
<td>Bridge Donors Held (2017 Annualized)</td>
<td>9</td>
<td>29</td>
<td>61</td>
<td>75</td>
<td>54</td>
<td>37</td>
<td>49</td>
<td>53</td>
<td>68</td>
<td>62</td>
<td>19</td>
</tr>
<tr>
<td>64</td>
<td>Percent of broken chains</td>
<td>33%</td>
<td>7%</td>
<td>3%</td>
<td>0%</td>
<td>7%</td>
<td>8%</td>
<td>8%</td>
<td>2%</td>
<td>3%</td>
<td>3%</td>
<td>0%</td>
</tr>
</tbody>
</table>