

Center Code: WVCA

Transplant Program (Organ): Kidney

Release Date: July 6, 2021

Based on Data Available: April 30, 2021

SRTR Program-Specific Report Feedback?: SRTR@SRTR.org 1.877.970.SRTR (7787) http://www.srtr.org

#### COVID-19 Guide

Adjustments to Transplant Program and OPO Evaluation Metrics

The Scientific Registry of Transplant Recipients (SRTR), under contract from the Health Resources and Services Administration (HRSA), is charged with evaluating the performance of the nation's transplant system through publication of semi-annual transplant program-specific reports (PSRs) and organ procurement organization (OPO)-specific reports (OSRs). These reports contain performance metrics covering various time periods. For OPOs, these metrics include eligible death conversion rates and deceased donor organ yield. For transplant programs, they include pre-transplant mortality rates (formerly called waitlist mortality rates), transplant rates, organ offer acceptance rates, patient mortality after listing, and 1-month, 1-year, and 3-year posttransplant outcomes including graft survival and patient survival.

In response to the current global pandemic, SRTR modified the evaluation metrics for transplant programs and OPOs for the reports released in January 2021. The reports released in January 2021 made adjustments to transplant program and OPO performance metrics so that data beyond the declaration of a national public health emergency on March 13, 2020, were not included in the metrics.

The SRTR Review Committee (SRC) reviewed the metrics at its meetings on January 20, 2021, and February 9, 2021, with the goal of determining whether continued adjustments are necessary, or if the SRTR should resume regular reporting of transplant program and OPO performance metrics. The committee reviewed data on how the pandemic has affected the nation's transplant system, and the extent to which the effects varied geographically and temporally. The committee made the following recommendations to SRTR. These recommendations were reviewed by the Health Resources and Services Administration's (HRSA's) Division of Transplantation, which oversees the SRTR. HRSA approved of these recommendations which the SRTR will implement for the July 2021 reporting cycle:

Posttransplant Outcomes (including 1-month, 1-year, and 3-year graft and patient survival): Evaluations cohorts will continue to exclude transplants and follow-up time beyond March 12, 2020.

1-month & 1-year Patient and Graft Survival Evaluations: Transplants 1/1/2018-3/12/2020; follow-up through 3/12/2020.

3-year Patient and Graft Survival Evaluations: Transplants 1/1/2015-12/31/2017; follow-up through 3/12/2020.

Pre-Transplant Mortality Rate (formerly called Waitlist Mortality Rate): Evaluation cohorts will be modified on an organ-specific basis:

Kidney and Lung: Candidates on the waitlist 1/1/2019-3/12/2020.

Liver, Heart, Pancreas, and Intestine: Candidates on the waitlist 1/1/2019-12/31/2020.

Transplant Rate: The first quarter following declaration of a national emergency will be excluded from the transplant rate evaluations for all organ types.

Candidates on the waitlist 1/1/2019-3/12/2020 and 6/13/2020-12/31/2020.



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Overall Rate of Mortality After Listing: Patient follow-up will continue to be truncated on 3/12/2020:

Evaluation period: 1/1/2019-3/12/2020.

Offer Acceptance Rate: These evaluations will return to normal reporting cohorts.

Offers received 1/1/2020-12/31/2020.

These decisions will apply to the evaluations released in the SRTR's semi-annual program-specific reports scheduled for release on July 6, 2021. These changes have been communicated to the leadership of the Organ Procurement and Transplantation Network's Membership and Professional Standards Committee (MSPC). These decisions will then be re-evaluated as more information becomes available in preparation for the release scheduled for January 2022.

As with the January 2021 reports, SRTR will continue to report descriptive data beyond March 12, 2020, e.g., waitlist counts, transplant counts, recipient characteristics, donor counts, donor characteristics, etc., but will alter data for performance evaluation metrics as described above.



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#### **User Guide**

This report contains a wide range of useful information about the kidney transplant program at Charleston Area Medical Center (WVCA). The report has three main sections:

- A. Program Summary
- B. Waiting List Information
- C. Transplant Information

The Program Summary is a one-page summary highlighting characteristics of the program, including the number of candidates on the waiting list, the number of transplants performed at the program, the number of patients being cared for by the program, and patient outcomes, including outcomes while on the waiting list (the transplant rate and the death rate while on the waiting list) and outcomes after transplant (patient and graft survival probabilities). If the program performed transplants in both adults and children, survival probabilities for adults and children (pediatrics) are provided separately. For each of the outcomes measures presented, a comparison is provided showing what would be expected at this program if it were performing as similar programs around the country perform when treating similar patients. More details regarding these outcome measures are provided in Sections B and C of the report.

The Waiting List Information section contains more detailed information on how many candidates are on the waiting list at the program, the types of candidates on the waiting list, how long candidates typically have to wait for a transplant at this program, how frequently candidates successfully receive a transplant, and how often candidates on the waiting list die before receiving a transplant.

Table B1 shows the activity on this program's waiting list during two recent 1-year periods and provides comparisons to all programs within this program's OPTN region (see http://optn.transplant.hrsa.gov/members/regions.asp for information on OPTN regions) and the nation as a whole. Tables B2 and B3 describe the candidates on the waiting list at this program, with comparisons to candidates waiting in the same donor service area (OPO/DSA) the OPTN region, and the nation as a whole.

Table B4 shows how many candidates were removed from the waiting list because they received a transplant. The program's transplant rate is calculated as the number of candidates who received a transplant divided by the person-years observed at the program (person-years is a combination of how many candidates were on the waiting list along with how long each candidate was followed since some candidates are not on the waiting list for the entire year). The transplant rate and comparisons to what would be expected at this program are presented in Figures B1 and B2. Figure B1 shows the transplant rate compared to what was expected at this program. The expected transplant rate is an estimate of what we would expect at this program if it were performing transplants at rates similar to other programs in the US with similar candidates on their waiting lists. The expected rate is only an estimate, and is made with a certain level of uncertainty. This uncertainty is shown in Figure B2. Figure B2 displays the ratio of the observed to the expected transplant rate. A ratio of 1 indicates that the observed transplant rate was equal to the expected transplant rate, while a ratio less than 1 indicates the observed rate was lower than expected rate and a ratio greater than 1 indicates the observed rate was higher than the expected rate. However, the level of uncertainty must be considered when interpreting these numbers. The 95% interval is also shown on Figure B2. This interval provides a range within which the true ratio of observed to expected transplant rates is likely to be. If this



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confidence interval includes (crosses) 1.0, then we cannot say that this program's observed transplant rate is different from what would be expected. The observed transplant rate at this program was 109.6 per 100 person-years. Transplant rates are also provided for adult and pediatric patients separately along with comparisons to adult and pediatric rates in the DSA, the OPTN region, and the nation. Transplant rates are also presented excluding transplants from a living donor (Table B4D and Figures B1D-B3D). Please refer to the PSR Technical Methods documentation available at http://www.srtr.org for more detail regarding how expected rates are calculated.

The pre-transplant mortality rate (previously called the waiting list mortality rate) for candidates on the waiting list is presented in Table B5 and Figures B4-B6. These data are presented in the same way as the transplant rate data in the previous section. The intent of this table and figures is to describe risk of death once candidates are listed rather than while they are listed, but before they are transplanted. Therefore, time at risk and deaths after removal from the waiting list for reasons other than transplant, transfer to another transplant program, or recovery (no longer needing a transplant), and before any subsequent transplant, are included. As with transplant rates, mortality rates should be interpreted carefully taking into consideration the interval displayed in Figure B5. For a complete description of how observed and expected mortality rates are calculated, please refer to the technical documentation available at http://www.srtr.org.

Survival from listing is presented in Table B6 and Figures B7-B9. These data are presented in the same way as the pre-transplant mortality rate data in the previous section. The intent of this table and figures is to describe risk of death once candidates are listed rather than while they are listed, including after a transplant. As with transplant rates, mortality rates should be interpreted carefully taking into consideration the interval displayed in Figure B8. For a complete description of how observed and expected mortality rates are calculated, please refer to the technical documentation available at http://www.srtr.org.

Table B7 presents information on what happens to candidates on the waiting list by three different time points after listing: 6 months, 12 months, and 18 months. The table displays percentages of candidates who have died, been removed from the waiting list, been transplanted, or been transferred or lost-to-follow-up. Tables B8 and B9 provide more detail regarding how many candidates have received a deceased donor transplant by certain time points during the first 3 years after being put on the transplant waiting list. Each row of Tables B8 and B9 presents the percent of candidates who received a deceased donor transplant by each time point. Table B10 presents data on the time it took for different percentages of patients to be transplanted for candidates added to the list between 01/01/2015 and 06/30/2020. The time it took for 5% (the 5th percentile) of patients to receive a transplant at this program was 0.6 months. If "Not Observed" is displayed in the table, then too few candidates received transplants before 12/31/2020 to calculate a particular percentile of transplant times.

Table B11 contains a summary of the offer acceptance practices of the program. The offer acceptance ratio indicates whether the program is more or less likely to accept offers than the average program. If the offer acceptance ratio is greater than 1.0, then the program tends to accept more offers than average; if the offer acceptance ratio is less than 1.0, then the program tends to accept fewer offers than average. Figure B10 shows the distribution of program offer acceptance rates as well as the offer acceptance rate for this program. Figures B11 - B14 similarly show offer acceptance rates for subsets



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of offers.

The Transplant Information section begins with descriptions of transplant recipients in Tables C1 and C2. Data on recipients of deceased donor transplants are presented (Tables C1D and C2D); if applicable, data on recipients of living donor transplants are presented separately (Tables C1L and C2L). Comparisons to the region and the nation as a whole are provided. A description of the deceased donors used at this program is provided in Table C3D, along with characteristics of living donors in Table C3L, if applicable. Finally, information on the transplant procedure for deceased and living donor transplants is presented in Tables C4D and C4L, respectively.

Starting with Table C5, transplant outcomes are presented along with comparisons to what would be expected at this program and what happened in the nation as a whole. Tables C5-C10 present information on graft survival (survival of the transplanted organ), with data presented separately for adult and pediatric recipients. Patients are followed from the time of transplant until either failure of the transplanted organ or death, whichever comes first. Please refer to the technical methods for more information on these calculations (http://www.srtr.org).

While Tables C5-C10 present data on graft survival, Tables C11-C16 present information on patient survival. For these tables, patients are followed from the time of transplant until death, regardless of whether the transplant is functioning or the patient required another transplant to survive.

Tables C17 and C18 summarize the multiorgan transplant outcomes at this program. The summary statistics in these tables are descriptive and are not risk-adjusted for different donor and candidate characteristics.

Table D1 shows the rates of follow-up for living donors.

Additional information regarding the technical methods and the risk adjustment models used to estimate expected event rates is available on the SRTR website at http://www.srtr.org. We welcome and encourage feedback on these reports. Please feel free to share feedback with the SRTR at the following e-mail: srtr@srtr.org.



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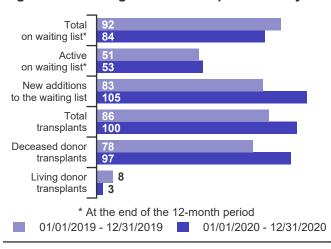
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## A. Program Summary

Figure A1. Waiting list and transplant activity



**Table A1. Census of transplant recipients** 

| Recipients                   | 01/01/2019-<br>12/31/2019 | 01/01/2020-<br>12/31/2020 |
|------------------------------|---------------------------|---------------------------|
| Transplanted at this center  | 86                        | 100                       |
| Followed by this center*     | 413                       | 72                        |
| transplanted at this program | n 412                     | 72                        |
| transplanted elsewhere       | 1                         | 0                         |

<sup>\*</sup> Recipients followed are transplant recipients for whom the center has submitted a post-transplant follow-up form for a transplant that took place before the 12-month interval for each column.

Figure A2. Transplant rates 01/01/2019 - 03/12/2020, 06/13/2020 - 12/31/2020

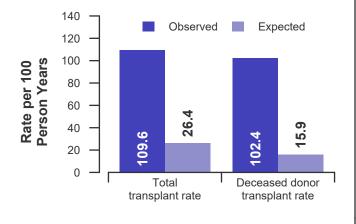


Figure A3. Pre-transplant mortality rates 01/01/2019 - 03/12/2020

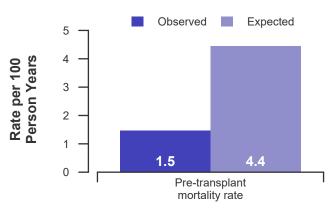


Figure A4. First-year adult graft and patient survival: 01/01/2018 - 03/12/2020

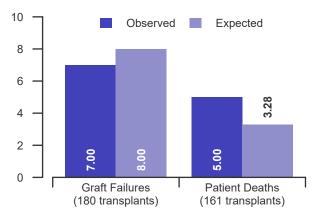


Figure A5. First-year pediatric graft and patient survival: 01/01/2018 - 03/12/2020

This center did not perform any transplants relevant to this figure during 01/01/2018-03/12/2020



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Table B1. Waiting list activity summary: 01/01/2019 - 12/31/2020

|                                       |                           | its for<br>center         | Activity for 01/01/2020 to 12/31/2020 as percent of registrants on waiting list on 01/01/2020 |                    |             |  |
|---------------------------------------|---------------------------|---------------------------|---|--------------------|-------------|--|
| Waiting List Registrations            | 01/01/2019-<br>12/31/2019 | 01/01/2020-<br>12/31/2020 | This Center (%)   | OPTN Region<br>(%) | U.S.<br>(%) |  |
| On waiting list at start<br>Additions | 125                       | 92                        | 100.0   | 100.0              | 100.0       |  |
| New listings at this center           | 83                        | 105                       | 114.1   | 34.5               | 37.2        |  |
| Removals                              |                           |                           |   |                    |             |  |
| Transferred to another center         | 0                         | 1                         | 1.1   | 0.9                | 1.5         |  |
| Received living donor transplant*     | 8                         | 3                         | 3.3   | 5.3                | 5.1         |  |
| Received deceased donor transplant*   | 78                        | 97                        | 105.4   | 15.0               | 17.3        |  |
| Died                                  | 1                         | 2                         | 2.2   | 4.8                | 4.8         |  |
| Transplanted at another center        | 2                         | 2                         | 2.2   | 4.8                | 3.9         |  |
| Deteriorated                          | 15                        | 4                         | 4.3   | 3.3                | 3.8         |  |
| Recovered                             | 3                         | 1                         | 1.1   | 0.1                | 0.2         |  |
| Other reasons                         | 9                         | 3                         | 3.3   | 5.0                | 4.4         |  |
| On waiting list at end of period      | 92                        | 84                        | 91.3  | 95.4               | 96.2        |  |

<sup>\*</sup> These patients were removed from waiting list with removal code indicating transplant; this may not equal the number of transplants performed at this center during the specified period.



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Table B2. Demographic characteristics of waiting list candidates
Candidates registered on the waiting list between 01/01/2020 and 12/31/2020

| Domographia Characteristic |                        | iting List Regi<br>2020 to 12/31/2 |                    | All Waiting List Registrations on 12/31/2020 (%) |                           |                    |  |
|----------------------------|------------------------|------------------------------------|--------------------|--|---------------------------|--------------------|--|
| Demographic Characteristic | This Center<br>(N=105) | OPTN Region<br>(N=4,424)           | U.S.<br>(N=37,653) | This Center<br>(N=84)                            | OPTN Region<br>(N=12,233) | U.S.<br>(N=97,493) |  |
| All (%)                    | 100.0                  | 100.0                              | 100.0              | 100.0  | 100.0                     | 100.0              |  |
| Ethnicity/Race (%)*        |                        |                                    |                    |  |                           |                    |  |
| White                      | 91.4                   | 47.6                               | 42.0               | 90.5   | 39.8                      | 35.2               |  |
| African-American           | 6.7                    | 34.6                               | 28.4               | 8.3  | 43.6                      | 32.0               |  |
| Hispanic/Latino            | 0.0                    | 9.7                                | 19.7               | 0.0  | 8.5                       | 21.1               |  |
| Asian                      | 1.9                    | 7.7                                | 8.2                | 1.2  | 7.4                       | 9.9                |  |
| Other                      | 0.0                    | 0.4                                | 1.8                | 0.0  | 0.6                       | 1.8                |  |
| Unknown                    | 0.0                    | 0.0                                | 0.0                | 0.0  | 0.0                       | 0.0                |  |
| Age (%)                    |                        |                                    |                    |  |                           |                    |  |
| <2 years                   | 0.0                    | 0.3                                | 0.2                | 0.0  | 0.1                       | 0.1                |  |
| 2-11 years                 | 0.0                    | 0.9                                | 1.0                | 0.0  | 0.6                       | 0.6                |  |
| 12-17 years                | 0.0                    | 1.5                                | 1.7                | 0.0  | 1.2                       | 1.1                |  |
| 18-34 years                | 4.8                    | 8.6                                | 10.6               | 9.5  | 8.0                       | 10.3               |  |
| 35-49 years                | 18.1                   | 20.5                               | 24.2               | 20.2   | 24.3                      | 26.9               |  |
| 50-64 years                | 45.7                   | 43.2                               | 41.4               | 47.6   | 44.3                      | 43.4               |  |
| 65-69 years                | 15.2                   | 14.7                               | 13.1               | 14.3   | 14.1                      | 12.1               |  |
| 70+ years                  | 16.2                   | 10.3                               | 7.8                | 8.3  | 7.5                       | 5.6                |  |
| Gender (%)                 |                        |                                    |                    |  |                           |                    |  |
| Male                       | 65.7                   | 64.3                               | 62.5               | 64.3   | 64.1                      | 62.0               |  |
| Female                     | 34.3                   | 35.7                               | 37.5               | 35.7   | 35.9                      | 38.0               |  |

<sup>\*</sup> Race and ethnicity are reported together as a single data element, reflecting their data collection (either race or ethnicity is required, but not both). Patients formerly coded as white and Hispanic are coded as Hispanic. Race and ethnicity sum to 100%.



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Table B3. Medical characteristics of waiting list candidates
Candidates registered on the waiting list between 01/01/2020 and 12/31/2020

| Medical Characteristic            |                        | ting List Regis<br>020 to 12/31/2 |                    | All Waiting List Registrations on 12/31/2020 (%) |                           |                    |  |
|-----------------------------------|------------------------|-----------------------------------|--------------------|--|---------------------------|--------------------|--|
| medical characteristic            | This Center<br>(N=105) | OPTN Region<br>(N=4,424)          | U.S.<br>(N=37,653) | This Center<br>(N=84)                            | OPTN Region<br>(N=12,233) | U.S.<br>(N=97,493) |  |
| All (%)                           | 100.0                  | 100.0                             | 100.0              | 100.0  | 100.0                     | 100.0              |  |
| Blood Type (%)                    |                        |                                   |                    |  |                           |                    |  |
| 0                                 | 48.6                   | 46.8                              | 49.1               | 57.1   | 50.2                      | 53.9               |  |
| A                                 | 37.1                   | 32.9                              | 32.3               | 33.3   | 28.4                      | 27.0               |  |
| В                                 | 11.4                   | 15.8                              | 14.8               | 7.1  | 18.6                      | 16.6               |  |
| AB                                | 2.9                    | 4.5                               | 3.7                | 2.4  | 2.8                       | 2.4                |  |
| Unknown                           | 0.0                    | 0.0                               | 0.0                | 0.0  | 0.0                       | 0.0                |  |
| Previous Transplant (%)           |                        |                                   |                    |  |                           |                    |  |
| Yes                               | 8.6                    | 13.1                              | 12.9               | 21.4   | 15.0                      | 13.8               |  |
| No                                | 91.4                   | 86.9                              | 87.1               | 78.6   | 85.0                      | 86.2               |  |
| Unknown                           | 0.0                    | 0.0                               | 0.0                | 0.0  | 0.0                       | 0.0                |  |
| Initial CPRA (%)                  |                        |                                   |                    |  |                           |                    |  |
| 0-9%                              | 88.6                   | 77.2                              | 79.8               | 76.2   | 77.5                      | 79.8               |  |
| 10-79%                            | 5.7                    | 14.7                              | 12.8               | 13.1   | 14.5                      | 12.8               |  |
| 80+%                              | 5.7                    | 8.1                               | 7.2                | 10.7   | 8.0                       | 7.3                |  |
| Unknown                           | 0.0                    | 0.0                               | 0.1                | 0.0  | 0.0                       | 0.1                |  |
| Primary Disease (%)*              |                        |                                   |                    |  |                           |                    |  |
| Glomerular Diseases               | 12.4                   | 16.6                              | 18.7               | 10.7   | 17.4                      | 18.7               |  |
| Tubular and Interstitial Diseases | 1.9                    | 4.3                               | 3.6                | 3.6  | 4.1                       | 3.6                |  |
| Polycystic Kidneys                | 7.6                    | 7.8                               | 7.2                | 9.5  | 7.2                       | 6.8                |  |
| Congenital, Familial, Metabolic   | 2.9                    | 2.0                               | 2.4                | 3.6  | 1.7                       | 1.9                |  |
| Diabetes                          | 37.1                   | 32.5                              | 35.0               | 38.1   | 32.8                      | 37.0               |  |
| Renovascular & Vascular Disease   |                        | 0.2                               | 0.1                | 1.2  | 0.2                       | 0.1                |  |
| Neoplasms                         | 0.0                    | 0.2                               | 0.4                | 0.0  | 0.3                       | 0.3                |  |
| Hypertensive Nephrosclerosis      | 28.6                   | 20.6                              | 19.5               | 22.6   | 23.6                      | 21.0               |  |
| Other                             | 9.5                    | 14.9                              | 12.7               | 10.7   | 12.4                      | 10.1               |  |
| Missing*                          | 0.0                    | 0.9                               | 0.5                | 0.0  | 0.4                       | 0.4                |  |

<sup>\*</sup> When "retransplant" is indicated, the primary disease is passed forward from the prior transplant in order to indicate the initial primary disease causing organ failure. "Missing" may include some patients for whom retransplant is indicated but no prior diagnosis can be found.



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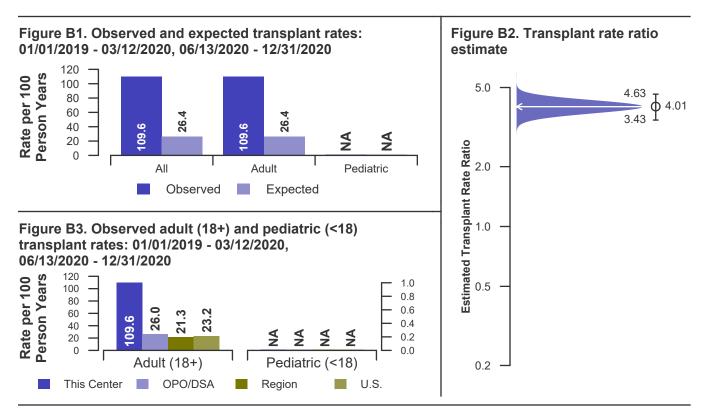
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Table B4. Transplant rates: 01/01/2019 - 03/12/2020, 06/13/2020 - 12/31/2020

| Waiting List Registrations      | This Center | OPO/DSA | Region   | U.S.      |
|---------------------------------|-------------|---------|----------|-----------|
| All Candidates                  |             |         |          |           |
| Count on waiting list at start* | 125         | 1,993   | 12,839   | 100,467   |
| Person Years**                  | 154.3       | 3,296.4 | 22,516.9 | 175,201.3 |
| Removals for Transplant         | 169         | 868     | 4,875    | 41,518    |
| Adult (18+) Candidates          |             |         |          |           |
| Count on waiting list at start* | 125         | 1,987   | 12,646   | 98,920    |
| Person Years**                  | 154.3       | 3,279.0 | 22,164.1 | 172,392.6 |
| Removals for transpant          | 169         | 853     | 4,728    | 39,982    |
| Pediatric (<18) Candidates      |             |         |          |           |
| Count on waiting list at start* |             |         |          |           |
| Person Years**                  |             |         |          |           |
| Removals for transplant         |             |         |          |           |

<sup>\*</sup> Counts in this table may be lower than similar counts in other waiting list tables, such as Table B1. A small percentage (~1%) of patients are found to have died or been transplanted before being removed from the waiting list, so these patients are excluded if the event occurs prior to the start of the study period. Inactive time on the waiting list is included in the calculations for this table.

<sup>\*\*</sup> Person years are calculated as days (converted to fractional years). The number of days from January 1 or from the date of first wait listing until death, transplant, removal from the waiting list or December 31.





Center Code: WVCA

Transplant Program (Organ): Kidney

Release Date: July 6, 2021

Based on Data Available: April 30, 2021

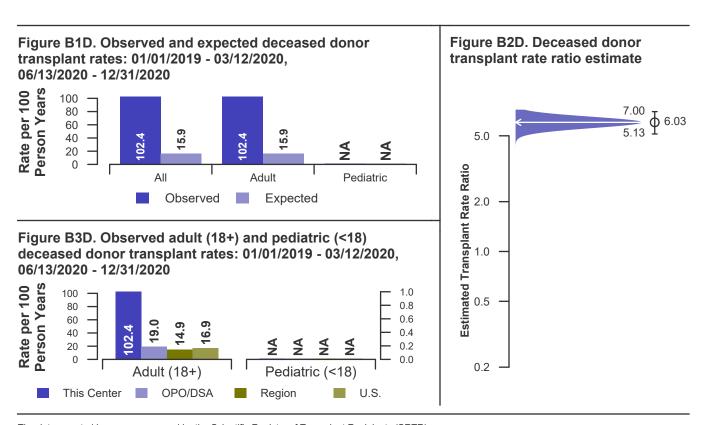
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Table B4D. Deceased donor transplant rates: 01/01/2019 - 03/12/2020, 06/13/2020 - 12/31/2020

| Waiting List Registrations      | This Center | OPO/DSA | Region   | U.S.      |
|---------------------------------|-------------|---------|----------|-----------|
| All Candidates                  |             |         |          | _         |
| Count on waiting list at start* | 125         | 1,993   | 12,839   | 100,467   |
| Person Years**                  | 154.3       | 3,296.4 | 22,516.9 | 175,201.3 |
| Removals for Transplant         | 158         | 628     | 3,399    | 30,186    |
| Adult (18+) Candidates          |             |         |          |           |
| Count on waiting list at start* | 125         | 1,987   | 12,646   | 98,920    |
| Person Years**                  | 154.3       | 3,279.0 | 22,164.1 | 172,392.6 |
| Removals for transpant          | 158         | 622     | 3,305    | 29,130    |
| Pediatric (<18) Candidates      |             |         |          |           |
| Count on waiting list at start* |             |         |          |           |
| Person Years**                  |             |         |          |           |
| Removals for transplant         |             |         |          |           |

<sup>\*</sup> Counts in this table may be lower than similar counts in other waiting list tables, such as Table B1. A small percentage (~1%) of patients are found to have died or been transplanted before being removed from the waiting list, so these patients are excluded if the event occurs prior to the start of the study period. Inactive time on the waiting list is included in the calculations for this table.

<sup>\*\*</sup> Person years are calculated as days (converted to fractional years). The number of days from January 1 or from the date of first wait listing until death, transplant, removal from the waiting list or December 31.





Center Code: WVCA

Transplant Program (Organ): Kidney

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Based on Data Available: April 30, 2021

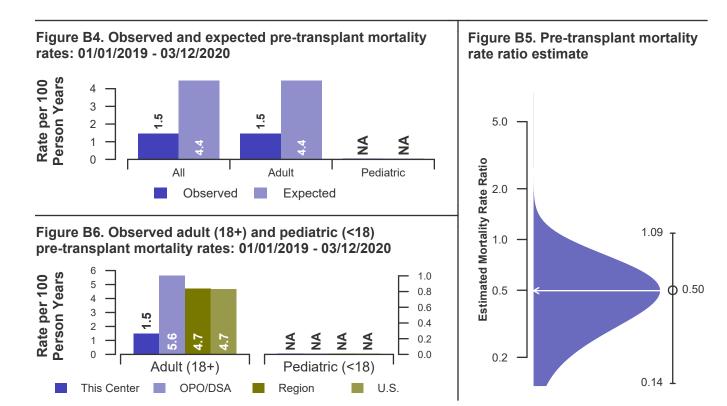
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Table B5. Pre-transplant mortality rates: 01/01/2019 - 03/12/2020

| Waiting List Registrations      | This Center | OPO/DSA | Region   | U.S.      |
|---------------------------------|-------------|---------|----------|-----------|
| All Candidates                  |             |         |          |           |
| Count on waiting list at start* | 125         | 1,993   | 12,839   | 100,467   |
| Person Years**                  | 136.1       | 2,448.3 | 16,361.6 | 127,632.2 |
| Number of deaths                | 2           | 137     | 761      | 5,897     |
| Adult (18+) Candidates          |             |         |          |           |
| Count on waiting list at start* | 125         | 1,987   | 12,646   | 98,920    |
| Person Years**                  | 136.1       | 2,437.2 | 16,123.0 | 125,703.4 |
| Number of deaths                | 2           | 137     | 758      | 5,873     |
| Pediatric (<18) Candidates      |             |         |          |           |
| Count on waiting list at start* |             |         |          |           |
| Person Years**                  |             |         |          |           |
| Number of deaths                |             |         |          |           |

<sup>\*</sup> Counts in this table may be lower than similar counts in other waiting list tables, such as Table B1. A small percentage (~1%) of patients are found to have died or been transplanted before being removed from the waiting list, so these patients are excluded if the event occurs prior to the start of the study period. Inactive time on the waiting list is included in the calculations for this table.

<sup>\*\*</sup> Person years are calculated as days (converted to fractional years). The number of days from January 1 or from the date of first wait listing until death, transplant, 60 days after recovery, transfer or March 12, 2020.





Center Code: WVCA

Transplant Program (Organ): Kidney

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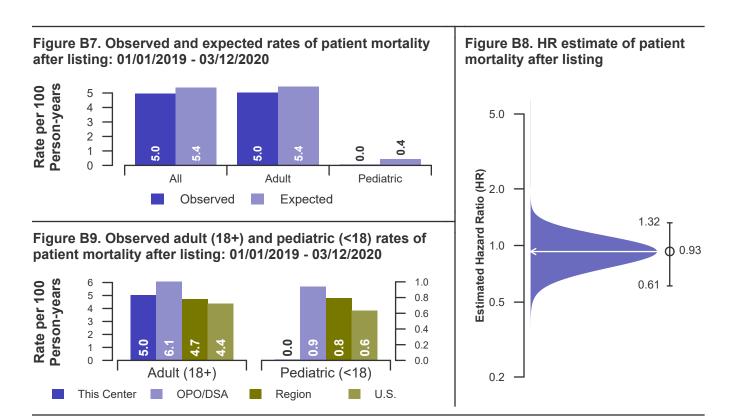
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Table B6. Rates of patient mortality after listing: 01/01/2019 - 03/12/2020

| Waiting List Registrations                 | This Center | OPO/DSA | Region   | U.S.      |
|--|-------------|---------|----------|-----------|
| All Patients                               |             |         |          |           |
| Count at risk during the evaluation period | 493         | 5,457   | 36,312   | 272,409   |
| Person-years*                              | 482.9       | 5,461.2 | 36,083.3 | 270,487.4 |
| Number of Deaths                           | 24          | 325     | 1,673    | 11,492    |
| Adult (18+) Patients                       |             |         |          |           |
| Count at risk during the evaluation period | 489         | 5,356   | 35,454   | 264,371   |
| Person-years*                              | 479.1       | 5,354.6 | 35,201.2 | 262,258.5 |
| Number of Deaths                           | 24          | 324     | 1,666    | 11,440    |
| Pediatric (<18) Patients                   |             |         |          |           |
| Count at risk during the evaluation period | 4           | 101     | 858      | 8,038     |
| Person-years*                              | 3.8         | 106.6   | 882.1    | 8,229.0   |
| Number of Deaths                           | 0           | 1       | 7        | 52        |

<sup>\*</sup> Person-years are calculated as days (converted to fractional years). The number of days from 01/01/2019, or from the date of first wait listing until death, reaching 7 years after listing or March 12, 2020.

<sup>\*\*</sup> Patient mortality after listing describes the relative survival experience of patients after listing. It depends on many factors, some of which are outside of the control of the transplant program. For example, availability of organs may not be the same in every part of the country.





Center Code: WVCA

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Table B7. Waiting list candidate status after listing Candidates registered on waiting list between 07/01/2018 and 06/30/2019

| Waiting list status (survival status)                  |       | Center (N<br>ns Since L<br>12 | ,     | U.S. (N=41,372)<br>Months Since Listing<br>6 12 18 |       |       |  |
|--|-------|-------------------------------|-------|--|-------|-------|--|
| Alive on waiting list (%)                              | 53.1  | 25.9                          | 12.3  | 76.9   | 63.7  | 53.7  |  |
| Died on the waiting list without transplant (%)        | 0.0   | 0.0                           | 0.0   | 0.9  | 1.9   | 3.0   |  |
| Removed without transplant (%):                        |       |                               |       |  |       |       |  |
| Condition worsened (status unknown)                    | 0.0   | 2.5                           | 4.9   | 0.6  | 1.4   | 2.4   |  |
| Condition improved (status unknown)                    | 0.0   | 0.0                           | 0.0   | 0.1  | 0.1   | 0.2   |  |
| Refused transplant (status unknown)                    | 0.0   | 0.0                           | 0.0   | 0.1  | 0.1   | 0.2   |  |
| Other  | 0.0   | 2.5                           | 2.5   | 0.7  | 1.5   | 2.4   |  |
| Transplant (living donor from waiting list only) (%):  |       |                               |       |  |       |       |  |
| Functioning (alive)                                    | 3.7   | 4.9                           | 0.0   | 6.6  | 9.7   | 8.0   |  |
| Failed-Retransplanted (alive)                          | 0.0   | 0.0                           | 0.0   | 0.0  | 0.0   | 0.0   |  |
| Failed-alive not retransplanted                        | 0.0   | 0.0                           | 0.0   | 0.0  | 0.0   | 0.0   |  |
| Died   | 0.0   | 1.2                           | 1.2   | 0.0  | 0.1   | 0.1   |  |
| Status Yet Unknown**                                   | 1.2   | 2.5                           | 8.6   | 0.1  | 0.6   | 3.9   |  |
| Transplant (deceased donor) (%):                       |       |                               |       |  |       |       |  |
| Functioning (alive)                                    | 35.8  | 17.3                          | 4.9   | 11.5   | 15.0  | 13.0  |  |
| Failed-Retransplanted (alive)                          | 0.0   | 0.0                           | 0.0   | 0.0  | 0.0   | 0.0   |  |
| Failed-alive not retransplanted                        | 0.0   | 0.0                           | 0.0   | 0.1  | 0.0   | 0.1   |  |
| Died   | 1.2   | 2.5                           | 2.5   | 0.3  | 0.5   | 8.0   |  |
| Status Yet Unknown*                                    | 4.9   | 40.7                          | 63.0  | 1.8  | 4.3   | 10.8  |  |
| Lost or Transferred (status unknown) (%)               | 0.0   | 0.0                           | 0.0   | 0.3  | 8.0   | 1.3   |  |
| TOTAL (%)  | 100.0 | 100.0                         | 100.0 | 100.0  | 100.0 | 100.0 |  |
| Total % known died on waiting list or after transplant | 1.2   | 3.7                           | 3.7   | 1.3  | 2.6   | 4.0   |  |
| Total % known died or removed as unstable              | 1.2   | 6.2                           | 8.6   | 1.9  | 4.0   | 6.4   |  |
| Total % removed for transplant                         | 46.9  | 69.1                          | 80.2  | 20.4   | 30.3  | 36.8  |  |
| Total % with known functioning transplant (alive)      | 39.5  | 22.2                          | 4.9   | 18.1   | 24.6  | 21.1  |  |

<sup>\*</sup> Follow-up form covering specified time period not yet completed, and possibly has not become due.



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## **B. Waiting List Information**

Table B8. Percent of candidates with deceased donor transplants: demographic characteristics Candidates registered on the waiting list between 01/01/2015 and 12/31/2017

|                  |     |        |          | ranspla | nted at | time per |        |          | _       |         |
|------------------|-----|--------|----------|---------|---------|----------|--------|----------|---------|---------|
| Characteristic   |     | Th     | nis Cent | ter     |         |          | Un     | ited Sta | ates    |         |
|                  | N   | 30 day | 1 year   | 2 years | 3 years | N        | 30 day | 1 year   | 2 years | 3 years |
| All              | 187 | 2.7    | 15.5     | 33.2    | 46.5    | 93,221   | 3.9    | 17.0     | 23.7    | 29.0    |
| Ethnicity/Race*  |     |        |          |         |         |          |        |          |         |         |
| White            | 157 | 2.5    | 16.6     | 33.8    | 45.9    | 37,309   | 4.2    | 17.8     | 24.7    | 30.0    |
| African-American | 26  | 3.8    | 11.5     | 26.9    | 46.2    | 29,133   | 4.0    | 17.4     | 24.1    | 29.4    |
| Hispanic/Latino  | 2   | 0.0    | 0.0      | 100.0   | 100.0   | 17,551   | 4.1    | 16.4     | 22.8    | 28.2    |
| Asian            | 2   | 0.0    | 0.0      | 0.0     | 50.0    | 7,615    | 2.3    | 12.0     | 18.5    | 24.0    |
| Other            | 0   |        |          |         |         | 1,613    | 5.3    | 21.0     | 27.8    | 33.0    |
| Unknown          | 0   |        |          |         |         | 0        |        |          |         |         |
| Age              |     |        |          |         |         |          |        |          |         |         |
| <2 years         | 0   |        |          |         |         | 135      | 4.4    | 36.3     | 53.3    | 71.1    |
| 2-11 years       | 0   |        |          |         |         | 823      | 8.5    | 49.0     | 62.9    | 71.3    |
| 12-17 years      | 1   | 0.0    | 100.0    | 100.0   | 100.0   | 1,380    | 8.3    | 51.2     | 63.5    | 68.9    |
| 18-34 years      | 12  | 0.0    | 0.0      | 25.0    | 50.0    | 9,438    | 3.8    | 18.3     | 26.6    | 33.5    |
| 35-49 years      | 42  | 7.1    | 16.7     | 28.6    | 40.5    | 23,500   | 3.7    | 16.3     | 23.3    | 29.1    |
| 50-64 years      | 90  | 1.1    | 17.8     | 35.6    | 48.9    | 39,832   | 4.0    | 15.8     | 21.9    | 26.8    |
| 65-69 years      | 31  | 3.2    | 16.1     | 35.5    | 51.6    | 12,332   | 3.8    | 15.5     | 21.5    | 26.3    |
| 70+ years        | 11  | 0.0    | 0.0      | 27.3    | 27.3    | 5,781    | 3.5    | 16.3     | 21.8    | 26.3    |
| Gender           |     |        |          |         |         |          |        |          |         |         |
| Male             | 106 | 2.8    | 15.1     | 33.0    | 44.3    | 57,838   | 4.1    | 16.4     | 22.7    | 27.8    |
| Female           | 81  | 2.5    | 16.0     | 33.3    | 49.4    | 35,383   | 3.8    | 18.0     | 25.4    | 31.1    |

<sup>\*</sup> Race and ethnicity are reported together as a single data element, reflecting their data collection (either race or ethnicity is required, but not both). Patients formerly coded as white and Hispanic are coded as Hispanic. Race and ethnicity sum to 100%.



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## **B. Waiting List Information**

Table B9. Percent of candidates with deceased donor transplants: medical characteristics Candidates registered on the waiting list between 01/01/2015 and 12/31/2017

| Characteristic                   |     |        | ercent t | ransplar<br>ter | ited at t | ime per |        | ice listi | _       |         |
|----------------------------------|-----|--------|----------|-----------------|-----------|---------|--------|-----------|---------|---------|
|                                  | N   | 30 day | 1 year   | 2 years         | 3 years   | N       | 30 day | 1 year    | 2 years | 3 years |
| All                              | 187 | 2.7    | 15.5     | 33.2            | 46.5      | 93,221  | 3.9    | 17.0      | 23.7    | 29.0    |
| Blood Type                       |     |        |          |                 |           |         |        |           |         |         |
| Ο                                | 90  | 3.3    | 14.4     | 36.7            | 48.9      | 46,293  | 3.7    | 14.7      | 20.4    | 25.0    |
| A                                | 75  | 2.7    | 17.3     | 28.0            | 44.0      | 29,320  | 4.8    | 20.4      | 28.3    | 34.7    |
| В                                | 18  | 0.0    | 5.6      | 27.8            | 38.9      | 14,147  | 2.4    | 14.0      | 20.4    | 25.3    |
| AB                               | 4   | 0.0    | 50.0     | 75.0            | 75.0      | 3,461   | 6.6    | 31.6      | 42.7    | 50.2    |
| Previous Transplant              |     |        |          |                 |           |         |        |           |         |         |
| Yes                              | 15  | 0.0    | 6.7      | 20.0            | 40.0      | 12,661  | 2.7    | 17.0      | 25.2    | 30.5    |
| No                               | 172 | 2.9    | 16.3     | 34.3            | 47.1      | 80,560  | 4.2    | 17.0      | 23.5    | 28.8    |
| Peak PRA/CPRA                    |     |        |          |                 |           |         |        |           |         |         |
| 0-9%                             | 155 | 3.2    | 14.8     | 34.2            | 46.5      | 74,476  | 4.2    | 16.4      | 22.6    | 28.0    |
| 10-79%                           | 26  | 0.0    | 11.5     | 23.1            | 46.2      | 11,022  | 2.8    | 16.5      | 23.8    | 29.4    |
| 80+%                             | 6   | 0.0    | 50.0     | 50.0            | 50.0      | 7,613   | 2.8    | 24.0      | 34.0    | 39.0    |
| Unknown                          | 0   |        |          |                 |           | 6       | 100.0  | 100.0     | 100.0   | 100.0   |
| Primary Disease*                 |     |        |          |                 |           |         |        |           |         |         |
| Glomerular Diseases              | 25  | 0.0    | 16.0     | 24.0            | 44.0      | 17,136  | 3.2    | 17.7      | 26.0    | 32.6    |
| Tubular & Interstitial Diseases  | 8   | 0.0    | 25.0     | 37.5            | 50.0      | 3,551   | 4.9    | 20.4      | 28.0    | 33.7    |
| Polycystic Kidneys               | 20  | 5.0    | 10.0     | 25.0            | 50.0      | 6,288   | 2.4    | 16.0      | 23.9    | 30.8    |
| Congenital, Familial, Metabolic  | 1   | 0.0    | 0.0      | 0.0             | 0.0       | 1,845   | 5.5    | 30.8      | 40.2    | 47.3    |
| Diabetes                         | 76  | 2.6    | 15.8     | 35.5            | 46.1      | 32,866  | 2.7    | 12.6      | 17.7    | 22.0    |
| Renovascular & Vascular Diseases | 1   | 0.0    | 0.0      | 0.0             | 0.0       | 141     | 7.1    | 22.0      | 29.8    | 36.2    |
| Neoplasms                        | 0   |        |          |                 |           | 301     | 7.3    | 24.9      | 31.6    | 36.9    |
| Hypertensive Nephrosclerosis     | 45  | 4.4    | 13.3     | 37.8            | 51.1      | 19,877  | 3.9    | 17.0      | 24.0    | 29.6    |
| Other                            | 11  | 0.0    | 27.3     | 36.4            | 36.4      | 10,863  | 9.3    | 26.4      | 33.5    | 38.0    |
| Missing*                         | 0   |        |          |                 |           | 353     | 1.7    | 11.3      | 16.7    | 22.1    |

<sup>\*</sup> When "retransplant" is indicated, the primary disease is passed forward from the prior transplant in order to indicate the initial primary disease causing organ failure. "Missing" may include some patients for whom retransplant is indicated but no prior diagnosis can be found.



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## **B.** Waiting List Information

Table B10. Time to transplant for waiting list candidates\*

Candidates registered on the waiting list between 01/01/2015 and 06/30/2020

| Percentile                       | Months to Transplant** |              |              |              |
|----------------------------------|------------------------|--------------|--------------|--------------|
|                                  | Center                 | OPO/DSA      | Region       | U.S.         |
| 5th                              | 0.6                    | 1.2          | 1.1          | 0.9          |
| 10th                             | 1.4                    | 2.8          | 2.9          | 2.3          |
| 25th                             | 4.9                    | 9.7          | 10.6         | 9.3          |
| 50th (median time to transplant) | 14.4                   | 37.9         | 44.4         | 40           |
| 75th                             | 53.0                   | Not Observed | Not Observed | Not Observed |

<sup>\*</sup> If cells contain "Not Observed" fewer than that percentile of patients had received a transplant. For example, the 50th percentile of time to transplant is the time when 50% of candidates have received transplants. If waiting times are long, then the 50th percentile may not be observed during the follow-up period for this table. Also, if more than 50% of candidates are removed from the list due to death or other reasons before receiving transplants, then the 50th percentile of time to transplant will not be observed.

<sup>\*\*</sup> Censored on 12/31/2020. Calculated as the months after listing, during which the corresponding percent of all patients initially listed had received a transplant.



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Table B11. Offer Acceptance Practices: 01/01/2020 - 12/31/2020

| Offers Acceptance Characteristics       | This Center    | OPO/DSA | Region  | U.S.      |
|---|----------------|---------|---------|-----------|
| Overall                                 |                |         |         |           |
| Number of Offers                        | 1,335          | 42,458  | 391,077 | 1,980,795 |
| Number of Acceptances                   | 97             | 379     | 1,851   | 16,412    |
| Expected Acceptances                    | 29.0           | 449.0   | 2,308.6 | 16,389.1  |
| Offer Acceptance Ratio*                 | 3.19           | 0.84    | 0.80    | 1.00      |
| 95% Credible Interval**                 | [2.59, 3.85]   |         |         |           |
| Low-KDRI Donors (KDRI < 1.05)           |                |         |         |           |
| Number of Offers                        | 113            | 4,834   | 46,430  | 263,047   |
| Number of Acceptances                   | 24             | 124     | 575     | 5,457     |
| Expected Acceptances                    | 12.2           | 146.7   | 683.2   | 5,460.0   |
| Offer Acceptance Ratio*                 | 1.83           | 0.85    | 0.84    | 1.00      |
| 95% Credible Interval**                 | [1.19, 2.59]   |         |         |           |
| Medium-KDRI Donors (1.05 < KDRI < 1.75) |                |         |         |           |
| Number of Offers                        | 794            | 27,912  | 246,048 | 1,265,648 |
| Number of Acceptances                   | 59             | 219     | 1,015   | 9,096     |
| Expected Acceptances                    | 14.0           | 261.7   | 1,352.4 | 9,074.4   |
| Offer Acceptance Ratio*                 | 3.82           | 0.84    | 0.75    | 1.00      |
| 95% Credible Interval**                 | [2.92, 4.84]   |         |         |           |
| High-KDRI Donors (KDRI > 1.75)          |                |         |         |           |
| Number of Offers                        | 428            | 9,712   | 98,599  | 452,100   |
| Number of Acceptances                   | 14             | 36      | 261     | 1,859     |
| Expected Acceptances                    | 2.9            | 40.6    | 272.9   | 1,854.6   |
| Offer Acceptance Ratio*                 | 3.29           | 0.89    | 0.96    | 1.00      |
| 95% Credible Interval**                 | [1.88, 5.09]   |         |         |           |
| Hard-to-Place Kidneys (Over 100 Offers) |                |         |         |           |
| Number of Offers                        | 1,090          | 33,935  | 343,846 | 1,681,708 |
| Number of Acceptances                   | 50             | 79      | 352     | 2,490     |
| Expected Acceptances                    | 1.6            | 52.5    | 493.3   | 2,486.4   |
| Offer Acceptance Ratio*                 | 14.27          | 1.49    | 0.71    | 1.00      |
| 95% Credible Interval**                 | [10.66, 18.40] |         |         |           |

<sup>\*</sup> The offer acceptance ratio estimates the relative offer acceptance practice of Charleston Area Medical Center (WVCA) compared to the national offer acceptance practice. A ratio above one indicates the program is more likely to accept an offer compared to national offer acceptance practices (e.g., an offer acceptance ratio of 1.25 indicates a 25% more likely to accept an offer), while a ratio below one indicates the program is less likely to accept an offer compared to national offer acceptance practices (e.g., an offer acceptance ratio of 0.75 indicates a 25% less likely to accept an offer).

<sup>\*\*</sup> As an example, the 95% Credible Interval for the overall offer acceptance ratio, [2.59, 3.85], indicates the location of WVCA's true offer acceptance ratio with 95% probability. The best estimate is 219% more likely to accept an offer compared to national acceptance behavior, but WVCA's performance could plausibly range from 159% higher acceptance up to 285% higher acceptance.



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Figure B10. Offer acceptance: Overall

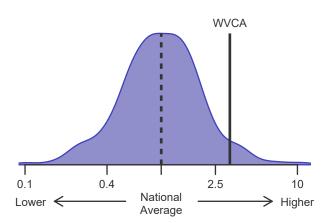


Figure B11. Offer acceptance: Low-KDRI

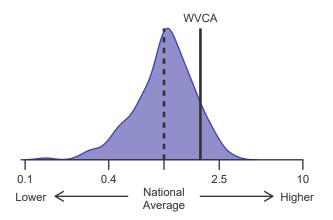
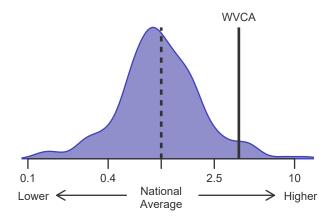


Figure B12. Offer acceptance: Medium-KDRI

Figure B13. Offer acceptance: High-KDRI



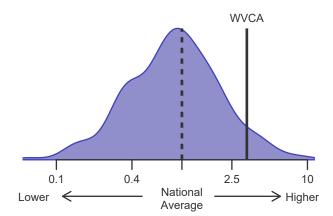
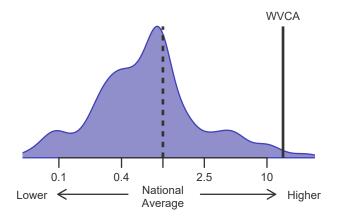


Figure B14. Offer acceptance: Offer number > 100





Center Code: WVCA

Transplant Program (Organ): Kidney

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## **C. Transplant Information**

# Table C1D. Deceased donor transplant recipient demographic characteristics Patients transplanted between 01/01/2020 and 12/31/2020

|                     | Perce  | Percentage in each category |            |  |
|---------------------|--------|-----------------------------|------------|--|
| Characteristic      | Center | Region                      | U.S.       |  |
|                     | (N=97) | (N=1,929)                   | (N=17,581) |  |
| Ethnicity/Race (%)* |        |                             |            |  |
| White               | 90.7   | 43.3                        | 39.0       |  |
| African-American    | 7.2    | 39.4                        | 32.1       |  |
| Hispanic/Latino     | 1.0    | 10.0                        | 19.1       |  |
| Asian               | 1.0    | 7.1                         | 7.9        |  |
| Other               | 0.0    | 0.3                         | 1.9        |  |
| Unknown             | 0.0    | 0.0                         | 0.0        |  |
| Age (%)             |        |                             |            |  |
| <2 years            | 0.0    | 0.0                         | 0.1        |  |
| 2-11 years          | 0.0    | 1.1                         | 1.2        |  |
| 12-17               | 0.0    | 0.8                         | 1.5        |  |
| 18-34               | 4.1    | 7.6                         | 10.4       |  |
| 35-49 years         | 21.6   | 20.4                        | 23.8       |  |
| 50-64 years         | 44.3   | 41.8                        | 39.9       |  |
| 65-69 years         | 16.5   | 16.0                        | 13.4       |  |
| 70+ years           | 13.4   | 12.3                        | 9.6        |  |
| Gender (%)          |        |                             |            |  |
| Male                | 62.9   | 62.5                        | 61.0       |  |
| Female              | 37.1   | 37.5                        | 39.0       |  |

<sup>\*</sup> Race and ethnicity are reported together as a single data element, reflecting their data collection (either race or ethnicity is required, but not both). Patients formerly coded as white and Hispanic are coded as Hispanic. Race and ethnicity sum to 100%.



Center Code: WVCA

Transplant Program (Organ): Kidney

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## **C. Transplant Information**

# Table C1L. Living donor transplant recipient demographic characteristics Patients transplanted between 01/01/2020 and 12/31/2020

|                     | Percentage in each category |                   |                   |
|---------------------|-----------------------------|-------------------|-------------------|
| Characteristic      | Center<br>(N=3)             | Region<br>(N=683) | U.S.<br>(N=5,234) |
| Ethnicity/Race (%)* |                             |                   |                   |
| White               | 100.0                       | 65.6              | 64.3              |
| African-American    | 0.0                         | 16.1              | 11.4              |
| Hispanic/Latino     | 0.0                         | 8.8               | 16.2              |
| Asian               | 0.0                         | 9.4               | 6.7               |
| Other               | 0.0                         | 0.1               | 1.4               |
| Unknown             | 0.0                         | 0.0               | 0.0               |
| Age (%)             |                             |                   |                   |
| <2 years            | 0.0                         | 0.3               | 0.3               |
| 2-11 years          | 0.0                         | 1.9               | 2.0               |
| 12-17               | 0.0                         | 1.5               | 2.0               |
| 18-34               | 0.0                         | 16.4              | 15.6              |
| 35-49 years         | 66.7                        | 23.1              | 25.5              |
| 50-64 years         | 33.3                        | 36.7              | 35.8              |
| 65-69 years         | 0.0                         | 9.1               | 10.4              |
| 70+ years           | 0.0                         | 11.0              | 8.5               |
| Gender (%)          |                             |                   |                   |
| Male                | 100.0                       | 63.0              | 63.1              |
| Female              | 0.0                         | 37.0              | 36.9              |

<sup>\*</sup> Race and ethnicity are reported together as a single data element, reflecting their data collection (either race or ethnicity is required, but not both). Patients formerly coded as white and Hispanic are coded as Hispanic. Race and ethnicity sum to 100%.



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Transplant Program (Organ): Kidney

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## **C. Transplant Information**

## Table C2D. Deceased donor transplant recipient medical characteristics Patients transplanted between 01/01/2020 and 12/31/2020

|                                       | Percentage in each category |                     |                    |
|---------------------------------------|-----------------------------|---------------------|--------------------|
| Characteristic                        | Center<br>(N=97)            | Region<br>(N=1,929) | U.S.<br>(N=17,581) |
| Blood Type (%)                        |                             |                     |                    |
| 0                                     | 37.1                        | 44.8                | 46.2               |
| A                                     | 46.4                        | 34.8                | 34.8               |
| В                                     | 14.4                        | 13.9                | 14.1               |
| AB                                    | 2.1                         | 6.5                 | 5.0                |
| Previous Transplant (%)               |                             |                     |                    |
| Yes                                   | 6.2                         | 13.6                | 12.5               |
| No                                    | 93.8                        | 86.4                | 87.5               |
| Peak PRA/CPRA Prior to Transplant (%) |                             |                     |                    |
| 0-9%                                  | 80.4                        | 59.0                | 62.1               |
| 10-79%                                | 15.5                        | 23.1                | 22.9               |
| 80+ %                                 | 4.1                         | 17.9                | 15.0               |
| Unknown                               | 0.0                         | 0.0                 | 0.0                |
| Body Mass Index (%)                   |                             |                     |                    |
| 0-20                                  | 2.1                         | 7.3                 | 8.9                |
| 21-25                                 | 18.6                        | 26.1                | 26.9               |
| 26-30                                 | 35.1                        | 28.3                | 30.8               |
| 31-35                                 | 29.9                        | 21.0                | 21.3               |
| 36-40                                 | 10.3                        | 8.3                 | 8.6                |
| 41+                                   | 4.1                         | 1.5                 | 1.5                |
| Unknown                               | 0.0                         | 7.5                 | 2.2                |
| Primary Disease (%)*                  |                             |                     |                    |
| Glomerular Diseases                   | 16.5                        | 19.0                | 21.5               |
| Tubular and Interstitial Disease      | 5.2                         | 4.7                 | 4.0                |
| Polycystic Kidneys                    | 9.3                         | 7.4                 | 7.3                |
| Congenital, Familial, Metabolic       | 0.0                         | 2.2                 | 2.6                |
| Diabetes                              | 26.8                        | 29.0                | 29.7               |
| Renovascular & Vascular Diseases      | 0.0                         | 0.2                 | 0.2                |
| Neoplasms                             | 0.0                         | 0.6                 | 0.4                |
| Hypertensive Nephrosclerosis          | 36.1                        | 26.5                | 22.7               |
| Other Kidney                          | 6.2                         | 10.1                | 11.4               |
| Missing*                              | 0.0                         | 0.2                 | 0.3                |

<sup>\*</sup> When "retransplant" is indicated, the primary disease is passed forward from the prior transplant in order to indicate the initial primary disease causing organ failure. "Missing" may include some patients for whom retransplant is indicated but no prior diagnosis can be found.



Center Code: WVCA

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## C. Transplant Information

# Table C2L. Living donor transplant recipient medical characteristics Patients transplanted between 01/01/2020 and 12/31/2020

|                                       | Percentage in each category |                   |                   |
|---------------------------------------|-----------------------------|-------------------|-------------------|
| Characteristic                        | Center<br>(N=3)             | Region<br>(N=683) | U.S.<br>(N=5,234) |
| Blood Type (%)                        |                             |                   |                   |
| 0                                     | 0.0                         | 41.6              | 43.5              |
| A                                     | 100.0                       | 38.7              | 39.5              |
| В                                     | 0.0                         | 16.1              | 13.6              |
| AB                                    | 0.0                         | 3.7               | 3.3               |
| Previous Transplant (%)               |                             |                   |                   |
| Yes                                   | 33.3                        | 11.0              | 10.8              |
| No                                    | 66.7                        | 89.0              | 89.2              |
| Peak PRA/CPRA Prior to Transplant (%) |                             |                   |                   |
| 0-9%                                  | 33.3                        | 73.6              | 75.2              |
| 10-79%                                | 66.7                        | 20.6              | 19.4              |
| 80+ %                                 | 0.0                         | 5.6               | 5.3               |
| Unknown                               | 0.0                         | 0.1               | 0.0               |
| Body Mass Index (%)                   |                             |                   |                   |
| 0-20                                  | 0.0                         | 11.0              | 12.2              |
| 21-25                                 | 0.0                         | 30.0              | 28.5              |
| 26-30                                 | 66.7                        | 29.9              | 31.2              |
| 31-35                                 | 33.3                        | 17.1              | 19.1              |
| 36-40                                 | 0.0                         | 7.9               | 6.8               |
| 41+                                   | 0.0                         | 0.9               | 1.1               |
| Unknown                               | 0.0                         | 3.2               | 1.1               |
| Primary Disease (%)*                  |                             |                   |                   |
| Glomerular Diseases                   | 33.3                        | 29.0              | 28.7              |
| Tubular and Interstitial Disease      | 0.0                         | 6.0               | 5.9               |
| Polycystic Kidneys                    | 33.3                        | 12.3              | 12.5              |
| Congenital, Familial, Metabolic       | 0.0                         | 3.5               | 3.8               |
| Diabetes                              | 0.0                         | 23.6              | 23.8              |
| Renovascular & Vascular Diseases      | 0.0                         | 0.6               | 0.6               |
| Neoplasms                             | 0.0                         | 0.4               | 0.4               |
| Hypertensive Nephrosclerosis          | 33.3                        | 16.1              | 15.3              |
| Other Kidney                          | 0.0                         | 8.3               | 8.6               |
| Missing*                              | 0.0                         | 0.1               | 0.3               |

<sup>\*</sup> When "retransplant" is indicated, the primary disease is passed forward from the prior transplant in order to indicate the initial primary disease causing organ failure. "Missing" may include some patients for whom retransplant is indicated but no prior diagnosis can be found.



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Transplant Program (Organ): Kidney

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## **C. Transplant Information**

Table C3D. Deceased donor characteristics
Transplants performed between 01/01/2020 and 12/31/2020

|                      | Percentage in each category |                     |                    |
|----------------------|-----------------------------|---------------------|--------------------|
| Donor Characteristic | Center<br>(N=97)            | Region<br>(N=1,929) | U.S.<br>(N=17,581) |
| Cause of Death (%)   |                             |                     |                    |
| Deceased: Stroke     | 22.7                        | 20.8                | 21.5               |
| Deceased: MVA        | 7.2                         | 9.7                 | 13.4               |
| Deceased: Other      | 70.1                        | 69.5                | 65.1               |
| Ethnicity/Race (%)*  |                             |                     |                    |
| White                | 83.5                        | 68.5                | 66.5               |
| African-American     | 10.3                        | 17.5                | 14.1               |
| Hispanic/Latino      | 3.1                         | 10.8                | 15.3               |
| Asian                | 1.0                         | 2.5                 | 2.9                |
| Other                | 2.1                         | 0.6                 | 1.2                |
| Not Reported         | 0.0                         | 0.0                 | 0.0                |
| Age (%)              |                             |                     |                    |
| <2 years             | 0.0                         | 1.0                 | 0.8                |
| 2-11 years           | 2.1                         | 1.9                 | 2.2                |
| 12-17                | 2.1                         | 2.4                 | 3.7                |
| 18-34                | 29.9                        | 34.2                | 33.6               |
| 35-49 years          | 30.9                        | 30.4                | 32.6               |
| 50-64 years          | 26.8                        | 26.5                | 24.6               |
| 65-69 years          | 4.1                         | 2.7                 | 2.0                |
| 70+ years            | 4.1                         | 0.8                 | 0.4                |
| Gender (%)           |                             |                     |                    |
| Male                 | 74.2                        | 63.7                | 63.3               |
| Female               | 25.8                        | 36.3                | 36.7               |
| Blood Type (%)       |                             |                     |                    |
| 0                    | 38.1                        | 46.5                | 47.9               |
| A                    | 45.4                        | 38.4                | 36.9               |
| В                    | 14.4                        | 11.1                | 11.6               |
| AB                   | 2.1                         | 3.9                 | 3.6                |
| Unknown              | 0.0                         | 0.0                 | 0.0                |

<sup>\*</sup> Race and ethnicity are reported together as a single data element, reflecting their data collection (either race or ethnicity is required, but not both). Patients formerly coded as white and Hispanic are coded as Hispanic. Race and ethnicity sum to 100%.



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Transplant Program (Organ): Kidney

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## **C. Transplant Information**

Table C3L. Living donor characteristics
Transplants performed between 01/01/2020 and 12/31/2020

|                      | Percentage in each category |         |           |
|----------------------|-----------------------------|---------|-----------|
| Donor Characteristic | Center                      | Region  | U.S.      |
|                      | (N=3)                       | (N=683) | (N=5,234) |
| Ethnicity/Race (%)*  |                             |         |           |
| White                | 100.0                       | 74.4    | 71.4      |
| African-American     | 0.0                         | 10.2    | 7.3       |
| Hispanic/Latino      | 0.0                         | 8.2     | 14.8      |
| Asian                | 0.0                         | 6.0     | 4.8       |
| Other                | 0.0                         | 1.2     | 1.8       |
| Not Reported         | 0.0                         | 0.0     | 0.0       |
| Age (%)              |                             |         |           |
| 0-11 years           | 0.0                         | 0.0     | 0.0       |
| 12-17                | 0.0                         | 0.0     | 0.0       |
| 18-34                | 33.3                        | 25.9    | 26.5      |
| 35-49 years          | 33.3                        | 34.7    | 36.8      |
| 50-64 years          | 33.3                        | 33.2    | 30.9      |
| 65-69 years          | 0.0                         | 5.6     | 4.3       |
| 70+ years            | 0.0                         | 0.6     | 1.4       |
| Gender (%)           |                             |         |           |
| Male                 | 0.0                         | 35.7    | 34.8      |
| Female               | 100.0                       | 64.3    | 65.2      |
| Blood Type (%)       |                             |         |           |
| 0                    | 66.7                        | 61.2    | 62.8      |
| A                    | 33.3                        | 27.1    | 27.9      |
| В                    | 0.0                         | 10.4    | 8.2       |
| AB                   | 0.0                         | 1.3     | 1.1       |
| Unknown              | 0.0                         | 0.0     | 0.0       |

<sup>\*</sup> Race and ethnicity are reported together as a single data element, reflecting their data collection (either race or ethnicity is required, but not both). Patients formerly coded as white and Hispanic are coded as Hispanic. Race and ethnicity sum to 100%.



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## **C. Transplant Information**

| Table C4D. Deceased d | onor transplant | characteristics     |
|-----------------------|-----------------|---------------------|
| Transplants performed | hetween 01/01/2 | 2020 and 12/31/2020 |

| Transplants performed between 01/01/2020 and 12/31/2020 | Percentage in each category |                     |                    |
|---|-----------------------------|---------------------|--------------------|
| Transplant Characteristic                               | Center<br>(N=97)            | Region<br>(N=1,929) | U.S.<br>(N=17,581) |
| Cold Ischemic Time (Hours): Local (%)                   |                             |                     |                    |
| Deceased: 0-11 hr                                       | 22.4                        | 40.1                | 33.4               |
| Deceased: 12-21 hr                                      | 52.2                        | 49.5                | 48.4               |
| Deceased: 22-31 hr                                      | 25.4                        | 9.2                 | 14.7               |
| Deceased: 32-41 hr                                      | 0.0                         | 0.4                 | 1.7                |
| Deceased: 42+ hr  | 0.0                         | 0.0                 | 0.4                |
| Not Reported  | 0.0                         | 0.7                 | 1.4                |
| Cold Ischemic Time (Hours): Shared (%)                  |                             |                     |                    |
| Deceased: 0-11 hr                                       | 0.0                         | 10.3                | 10.3               |
| Deceased: 12-21 hr                                      | 46.7                        | 45.5                | 35.0               |
| Deceased: 22-31 hr                                      | 40.0                        | 34.2                | 37.6               |
| Deceased: 32-41 hr                                      | 13.3                        | 6.4                 | 13.1               |
| Deceased: 42+ hr  | 0.0                         | 1.2                 | 2.7                |
| Not Reported  | 0.0                         | 2.5                 | 1.3                |
| Level of Mismatch (%)                                   | 0.0                         | 2.0                 | 1.0                |
| A Locus Mismatches (%)                                  |                             |                     |                    |
| 0   | 13.4                        | 11.4                | 11.4               |
| 1   | 24.7                        | 37.5                | 39.0               |
| 2   | 61.9                        | 51.1                | 49.3               |
| Not Reported  | 0.0                         | 0.0                 | 0.2                |
| B Locus Mismatches (%)                                  | 0.0                         | 0.0                 | 0.2                |
| 0   | 8.2                         | 7.0                 | 6.7                |
| 1   | 30.9                        | 24.2                | 24.9               |
| 2   | 60.8                        | 68.8                | 68.1               |
| Not Reported  | 0.0                         | 0.0                 | 0.2                |
| DR Locus Mismatches (%)                                 | 0.0                         | 0.0                 | 0.2                |
| 0   | 14.4                        | 16.2                | 15.7               |
| 1   | 43.3                        | 45.6                | 47.3               |
| 2   | 42.3                        | 38.3                | 36.8               |
|   | 0.0                         | 0.0                 | 0.2                |
| Not Reported  | 0.0                         | 0.0                 | 0.2                |
| Total Mismatches (%)                                    | E 0                         | 1.1                 | 4.2                |
| 0   | 5.2                         | 4.1                 | 4.3                |
| 1   | 2.1                         | 1.3                 | 1.2                |
| 2   | 3.1                         | 4.8                 | 4.5                |
| 3   | 10.3                        | 12.6                | 14.0               |
| 4   | 28.9                        | 27.8                | 27.1               |
| 5   | 28.9                        | 32.2                | 33.0               |
| 6   | 21.6                        | 17.1                | 15.7               |
| Not Reported  | 0.0                         | 0.0                 | 0.2                |
| Procedure Type (%)                                      | 4000                        |                     |                    |
| Single organ  | 100.0                       | 96.2                | 93.8               |
| Multi organ   | 0.0                         | 3.8                 | 6.2                |
| Dialysis in First Week After Transplant (%)             |                             | 0.4.0               |                    |
| Yes   | 13.4                        | 34.6                | 28.5               |
| No  | 86.6                        | 64.6                | 71.2               |
| Not Reported  | 0.0                         | 0.8                 | 0.3                |
| Donor Location (%)                                      |                             |                     |                    |
| Local Donation Service Area (DSA)                       | 69.1                        | 69.2                | 70.4               |
| Another Donation Service Area (DSA)                     | 30.9                        | 30.8                | 29.6               |
| Median Time in Hospital After Transplant*               | 4.0 Days                    | 5.0 Days            | 5.0 Days           |

<sup>\*</sup> Multi organ transplants are excluded from this statistic.



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Transplant Program (Organ): Kidney

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## **C. Transplant Information**

# Table C4L. Living donor transplant characteristics Transplants performed between 01/01/2020 and 12/31/2020

|   | Percentage in each category |                   |                   |
|---|-----------------------------|-------------------|-------------------|
| Transplant Characteristic                   | Center<br>(N=3)             | Region<br>(N=683) | U.S.<br>(N=5,234) |
| Relation with Donor (%)                     |                             |                   |                   |
| Related                                     | 33.3                        | 38.8              | 39.1              |
| Unrelated                                   | 66.7                        | 61.2              | 60.7              |
| Not Reported                                | 0.0                         | 0.0               | 0.2               |
| Level of Mismatch (%)                       |                             |                   |                   |
| A Locus Mismatches (%)                      |                             |                   |                   |
| 0   | 33.3                        | 16.4              | 16.2              |
| 1   | 33.3                        | 48.6              | 48.1              |
| 2   | 33.3                        | 34.3              | 31.0              |
| Not Reported                                | 0.0                         | 0.7               | 4.7               |
| B Locus Mismatches (%)                      |                             |                   |                   |
| 0   | 33.3                        | 9.2               | 9.8               |
| 1   | 33.3                        | 42.6              | 40.3              |
| 2   | 33.3                        | 47.4              | 45.2              |
| Not Reported                                | 0.0                         | 0.7               | 4.7               |
| DR Locus Mismatches (%)                     |                             |                   |                   |
| 0   | 33.3                        | 16.4              | 15.7              |
| 1   | 33.3                        | 48.0              | 46.2              |
| 2   | 33.3                        | 34.8              | 33.3              |
| Not Reported                                | 0.0                         | 0.7               | 4.7               |
| Total Mismatches (%)                        |                             |                   |                   |
| 0   | 33.3                        | 4.2               | 4.5               |
| 1   | 0.0                         | 4.4               | 4.1               |
| 2   | 0.0                         | 11.9              | 11.7              |
| 3   | 0.0                         | 20.9              | 21.2              |
| 4   | 33.3                        | 21.8              | 18.7              |
| 5   | 33.3                        | 22.0              | 22.8              |
| 6   | 0.0                         | 14.1              | 12.3              |
| Not Reported                                | 0.0                         | 0.7               | 4.7               |
| Procedure Type (%)                          |                             |                   |                   |
| Single organ                                | 100.0                       | 100.0             | 100.0             |
| Multi organ                                 | 0.0                         | 0.0               | 0.0               |
| Dialysis in First Week After Transplant (%) |                             |                   |                   |
| Yes   | 0.0                         | 3.4               | 2.9               |
| No  | 100.0                       | 95.5              | 96.9              |
| Not Reported                                | 0.0                         | 1.2               | 0.2               |
| Median Time in Hospital After Transplant*   | 3.0 Days                    | 4.0 Days          | 4.0 Days          |

<sup>\*</sup> Multi organ transplants are excluded from this statistic.



Center Code: WVCA Transplant Program (Organ): Kidney

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## C. Transplant Information

Table C5. Adult (18+) 1-month survival with a functioning graft Single organ transplants performed between 01/01/2018 and 03/12/2020 Deaths and retransplants are considered graft failures

| Deaths and retransplants are considered graft failures  | WVCA         | U.S.   |
|---|--------------|--------|
| Number of transplants evaluated   | 180          | 45,553 |
| Estimated probability of surviving with a functioning graft at 1 month (unadjusted for patient and donor characteristics) | 98.25%       | 98.68% |
| Expected probability of surviving with a functioning graft at 1 month (adjusted for patient and donor characteristics)    | 98.40%       |        |
| Number of observed graft failures (including deaths) during the first month after transplant                              | 3            | 596    |
| Number of expected graft failures (including deaths) during the first month after transplant                              | 2.82         |        |
| Estimated hazard ratio*   | 1.04         |        |
| 95% credible interval for the hazard ratio**  | [0.34, 2.13] |        |

<sup>\*</sup> The hazard ratio provides an estimate of how Charleston Area Medical Center (WVCA)'s results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected graft failure rates (e.g., a hazard ratio of 1.5 would indicate 50% higher risk), and a ratio below 1 indicates lower than expected graft failure rates (e.g., a hazard ratio of 0.75 would indicate 25% lower risk). If WVCA's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

Figure C1. Adult (18+) 1-month graft failure HR estimate

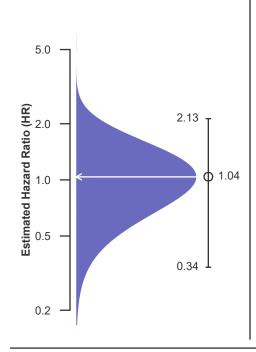
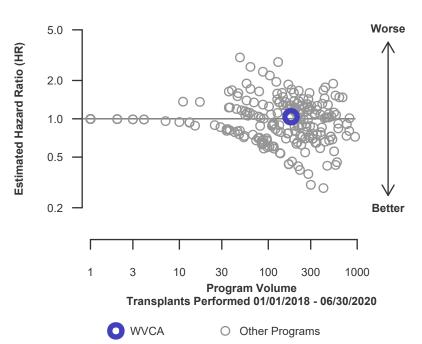


Figure C2. Adult (18+) 1-month graft failure HR program comparison



<sup>\*\*</sup> The 95% credible interval, [0.34, 2.13], indicates the location of WVCA's true hazard ratio with 95% probability. The best estimate is 4% higher risk of graft failure compared to an average program, but WVCA's performance could plausibly range from 66% reduced risk up to 113% increased risk.



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### C. Transplant Information

Table C5D. Adult (18+) 1-month survival with a functioning deceased donor graft Single organ transplants performed between 01/01/2018 and 03/12/2020 Deaths and retransplants are considered graft failures

| Deaths and retransplants are considered graft failures  | WVCA         | U.S.   |
|---|--------------|--------|
| Number of transplants evaluated   | 159          | 31,532 |
| Estimated probability of surviving with a functioning graft at 1 month (unadjusted for patient and donor characteristics) | 98.69%       | 98.45% |
| Expected probability of surviving with a functioning graft at 1 month (adjusted for patient and donor characteristics)    | 98.31%       |        |
| Number of observed graft failures (including deaths) during the first month after transplant                              | 2            | 483    |
| Number of expected graft failures (including deaths) during the first month after transplant                              | 2.62         |        |
| Estimated hazard ratio*   | 0.86         |        |
| 95% credible interval for the hazard ratio**  | [0.24, 1.90] |        |

<sup>\*</sup> The hazard ratio provides an estimate of how Charleston Area Medical Center (WVCA)'s results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected graft failure rates (e.g., a hazard ratio of 1.5 would indicate 50% higher risk), and a ratio below 1 indicates lower than expected graft failure rates (e.g., a hazard ratio of 0.75 would indicate 25% lower risk). If WVCA's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

Figure C1D. Adult (18+) 1-month deceased donor graft failure HR estimate

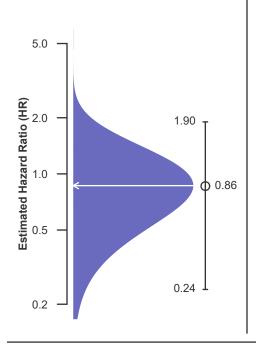
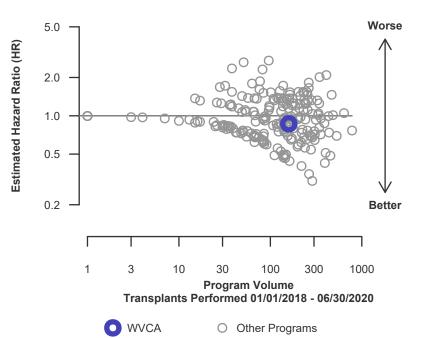


Figure C2D. Adult (18+) 1-month deceased donor graft failure HR program comparison



<sup>\*\*</sup> The 95% credible interval, [0.24, 1.90], indicates the location of WVCA's true hazard ratio with 95% probability. The best estimate is 14% lower risk of graft failure compared to an average program, but WVCA's performance could plausibly range from 76% reduced risk up to 90% increased risk.



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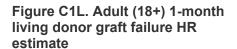
## C. Transplant Information

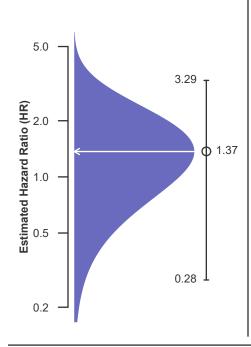
Table C5L. Adult (18+) 1-month survival with a functioning living donor graft Single organ transplants performed between 01/01/2018 and 03/12/2020 Deaths and retransplants are considered graft failures

| Deaths and retransplants are considered graft failures  | WVCA         | U.S.   |
|---|--------------|--------|
| Number of transplants evaluated   | 21           | 14,021 |
| Estimated probability of surviving with a functioning graft at 1 month (unadjusted for patient and donor characteristics) | 95.24%       | 99.18% |
| Expected probability of surviving with a functioning graft at 1 month (adjusted for patient and donor characteristics)    | 99.08%       |        |
| Number of observed graft failures (including deaths) during the first month after transplant                              | 1            | 113    |
| Number of expected graft failures (including deaths) during the first month after transplant                              | 0.19         |        |
| Estimated hazard ratio*   | 1.37         |        |
| 95% credible interval for the hazard ratio**  | [0.28, 3.29] |        |

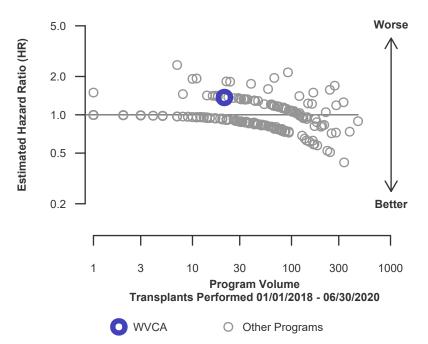
<sup>\*</sup> The hazard ratio provides an estimate of how Charleston Area Medical Center (WVCA)'s results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected graft failure rates (e.g., a hazard ratio of 1.5 would indicate 50% higher risk), and a ratio below 1 indicates lower than expected graft failure rates (e.g., a hazard ratio of 0.75 would indicate 25% lower risk). If WVCA's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

<sup>\*\*</sup> The 95% credible interval, [0.28, 3.29], indicates the location of WVCA's true hazard ratio with 95% probability. The best estimate is 37% higher risk of graft failure compared to an average program, but WVCA's performance could plausibly range from 72% reduced risk up to 229% increased risk.





## Figure C2L. Adult (18+) 1-month living donor graft failure HR program comparison





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## C. Transplant Information

Table C6. Adult (18+) 1-year survival with a functioning graft Single organ transplants performed between 01/01/2018 and 03/12/2020 Deaths and retransplants are considered graft failures

| Deaths and retransplants are considered graft failures   | WVCA         | U.S.   |
|--|--------------|--------|
| Number of transplants evaluated  | 180          | 45,553 |
| Estimated probability of surviving with a functioning graft at 1 year (unadjusted for patient and donor characteristics) | 95.42%       | 95.68% |
| Expected probability of surviving with a functioning graft at 1 year (adjusted for patient and donor characteristics)    | 94.53%       |        |
| Number of observed graft failures (including deaths) during the first year after transplant                              | 7            | 1,651  |
| Number of expected graft failures (including deaths) during the first year after transplant                              | 8.00         |        |
| Estimated hazard ratio*  | 0.90         |        |
| 95% credible interval for the hazard ratio**   | [0.41, 1.58] |        |

<sup>\*</sup> The hazard ratio provides an estimate of how Charleston Area Medical Center (WVCA)'s results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected graft failure rates (e.g., a hazard ratio of 1.5 would indicate 50% higher risk), and a ratio below 1 indicates lower than expected graft failure rates (e.g., a hazard ratio of 0.75 would indicate 25% lower risk). If WVCA's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

Figure C3. Adult (18+) 1-year graft failure HR estimate

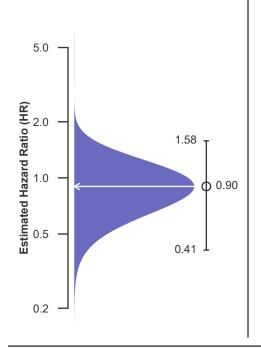
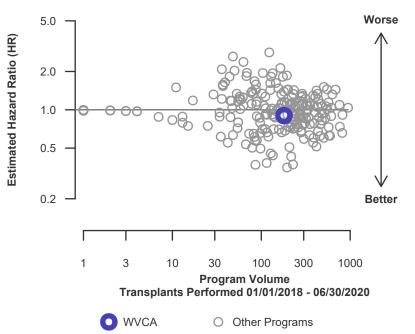


Figure C4. Adult (18+) 1-year graft failure HR program comparison



<sup>\*\*</sup> The 95% credible interval, [0.41, 1.58], indicates the location of WVCA's true hazard ratio with 95% probability. The best estimate is 10% lower risk of graft failure compared to an average program, but WVCA's performance could plausibly range from 59% reduced risk up to 58% increased risk.



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## **C. Transplant Information**

Table C6D. Adult (18+) 1-year survival with a functioning deceased donor graft Single organ transplants performed between 01/01/2018 and 03/12/2020 Deaths and retransplants are considered graft failures

| Deaths and retransplants are considered graft failures   | WVCA         | U.S.   |
|--|--------------|--------|
| Number of transplants evaluated  | 159          | 31,532 |
| Estimated probability of surviving with a functioning graft at 1 year (unadjusted for patient and donor characteristics) | 95.43%       | 94.58% |
| Expected probability of surviving with a functioning graft at 1 year (adjusted for patient and donor characteristics)    | 94.09%       |        |
| Number of observed graft failures (including deaths) during the first year after transplant                              | 6            | 1,418  |
| Number of expected graft failures (including deaths) during the first year after transplant                              | 7.59         |        |
| Estimated hazard ratio*  | 0.83         |        |
| 95% credible interval for the hazard ratio**   | [0.36, 1.50] |        |

<sup>\*</sup> The hazard ratio provides an estimate of how Charleston Area Medical Center (WVCA)'s results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected graft failure rates (e.g., a hazard ratio of 1.5 would indicate 50% higher risk), and a ratio below 1 indicates lower than expected graft failure rates (e.g., a hazard ratio of 0.75 would indicate 25% lower risk). If WVCA's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

Figure C3D. Adult (18+) 1-year deceased donor graft failure HR estimate

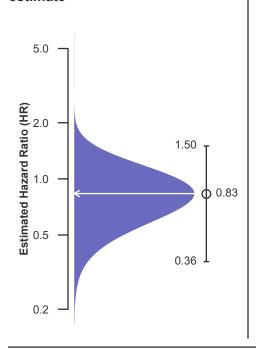
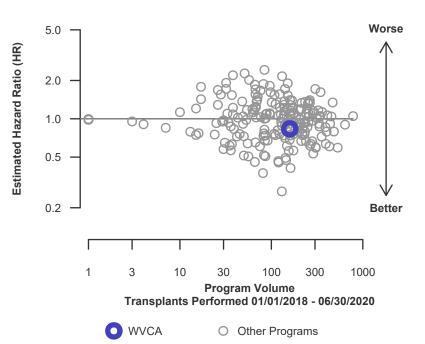


Figure C4D. Adult (18+) 1-year deceased donor graft failure HR program comparison



<sup>\*\*</sup> The 95% credible interval, [0.36, 1.50], indicates the location of WVCA's true hazard ratio with 95% probability. The best estimate is 17% lower risk of graft failure compared to an average program, but WVCA's performance could plausibly range from 64% reduced risk up to 50% increased risk.



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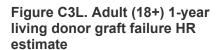
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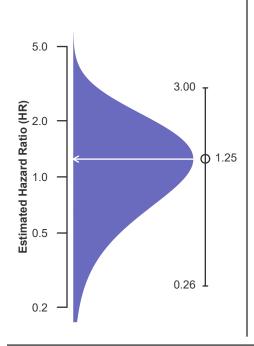
Table C6L. Adult (18+) 1-year survival with a functioning living donor graft Single organ transplants performed between 01/01/2018 and 03/12/2020 Deaths and retransplants are considered graft failures

| Deaths and retransplants are considered graft failures   | WVCA         | U.S.   |
|--|--------------|--------|
| Number of transplants evaluated  | 21           | 14,021 |
| Estimated probability of surviving with a functioning graft at 1 year (unadjusted for patient and donor characteristics) | 95.24%       | 98.09% |
| Expected probability of surviving with a functioning graft at 1 year (adjusted for patient and donor characteristics)    | 97.85%       |        |
| Number of observed graft failures (including deaths) during the first year after transplant                              | 1            | 233    |
| Number of expected graft failures (including deaths) during the first year after transplant                              | 0.41         |        |
| Estimated hazard ratio*  | 1.25         |        |
| 95% credible interval for the hazard ratio**   | [0.26, 3.00] |        |
|  |              |        |

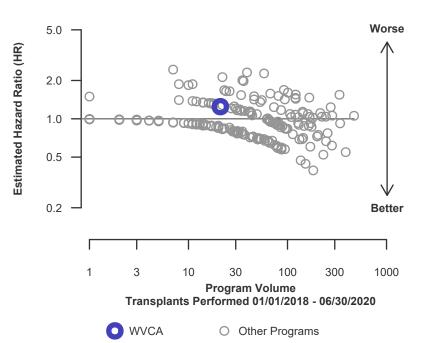
<sup>\*</sup> The hazard ratio provides an estimate of how Charleston Area Medical Center (WVCA)'s results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected graft failure rates (e.g., a hazard ratio of 1.5 would indicate 50% higher risk), and a ratio below 1 indicates lower than expected graft failure rates (e.g., a hazard ratio of 0.75 would indicate 25% lower risk). If WVCA's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

<sup>\*\*</sup> The 95% credible interval, [0.26, 3.00], indicates the location of WVCA's true hazard ratio with 95% probability. The best estimate is 25% higher risk of graft failure compared to an average program, but WVCA's performance could plausibly range from 74% reduced risk up to 200% increased risk.





## Figure C4L. Adult (18+) 1-year living donor graft failure HR program comparison





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## C. Transplant Information

Table C7. Adult (18+) 3-year survival with a functioning graft Single organ transplants performed between 07/01/2015 and 12/31/2017 Deaths and retransplants are considered graft failures

| Deaths and retransplants are considered graft failures  | WVCA         | U.S.   |
|---|--------------|--------|
| Number of transplants evaluated   | 76           | 43,863 |
| Estimated probability of surviving with a functioning graft at 3 years (unadjusted for patient and donor characteristics) | 86.49%       | 90.02% |
| Expected probability of surviving with a functioning graft at 3 years (adjusted for patient and donor characteristics)    | 88.06%       |        |
| Number of observed graft failures (including deaths) during the first 3 years after transplant                            | 10           | 4,203  |
| Number of expected graft failures (including deaths) during the first 3 years after transplant                            | 8.82         |        |
| Estimated hazard ratio*   | 1.11         |        |
| 95% credible interval for the hazard ratio**  | [0.57, 1.82] |        |

<sup>\*</sup> The hazard ratio provides an estimate of how Charleston Area Medical Center (WVCA)'s results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected graft failure rates (e.g., a hazard ratio of 1.5 would indicate 50% higher risk), and a ratio below 1 indicates lower than expected graft failure rates (e.g., a hazard ratio of 0.75 would indicate 25% lower risk). If WVCA's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

Figure C5. Adult (18+) 3-year graft failure HR estimate

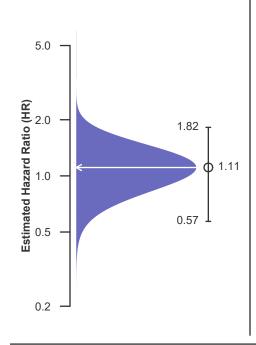
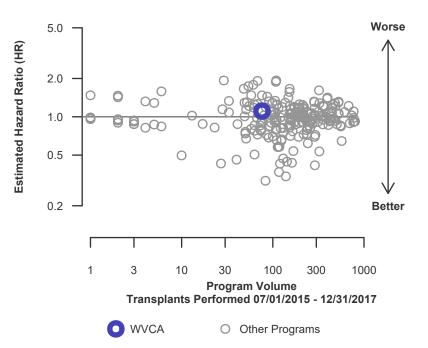


Figure C6. Adult (18+) 3-year graft failure HR program comparison



<sup>\*\*</sup> The 95% credible interval, [0.57, 1.82], indicates the location of WVCA's true hazard ratio with 95% probability. The best estimate is 11% higher risk of graft failure compared to an average program, but WVCA's performance could plausibly range from 43% reduced risk up to 82% increased risk.



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### C. Transplant Information

Table C7D. Adult (18+) 3-year survival with a functioning deceased donor graft Single organ transplants performed between 07/01/2015 and 12/31/2017 Deaths and retransplants are considered graft failures

| Deaths and retransplants are considered graft failures  | WVCA         | U.S.   |
|---|--------------|--------|
| Number of transplants evaluated   | 63           | 30,147 |
| Estimated probability of surviving with a functioning graft at 3 years (unadjusted for patient and donor characteristics) | 83.62%       | 88.09% |
| Expected probability of surviving with a functioning graft at 3 years (adjusted for patient and donor characteristics)    | 86.78%       |        |
| Number of observed graft failures (including deaths) during the first 3 years after transplant                            | 10           | 3,457  |
| Number of expected graft failures (including deaths) during the first 3 years after transplant                            | 8.08         |        |
| Estimated hazard ratio*   | 1.19         |        |
| 95% credible interval for the hazard ratio**  | [0.62, 1.95] |        |

<sup>\*</sup> The hazard ratio provides an estimate of how Charleston Area Medical Center (WVCA)'s results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected graft failure rates (e.g., a hazard ratio of 1.5 would indicate 50% higher risk), and a ratio below 1 indicates lower than expected graft failure rates (e.g., a hazard ratio of 0.75 would indicate 25% lower risk). If WVCA's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

Figure C5D. Adult (18+) 3-year deceased donor graft failure HR estimate

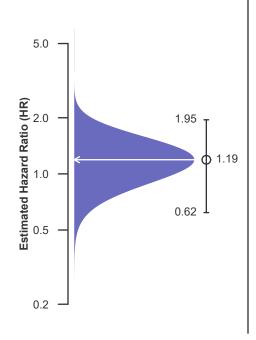
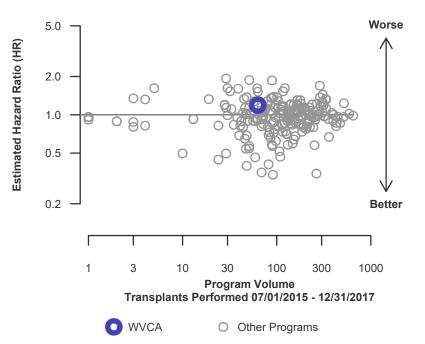


Figure C6D. Adult (18+) 3-year deceased donor graft failure HR program comparison



<sup>\*\*</sup> The 95% credible interval, [0.62, 1.95], indicates the location of WVCA's true hazard ratio with 95% probability. The best estimate is 19% higher risk of graft failure compared to an average program, but WVCA's performance could plausibly range from 38% reduced risk up to 95% increased risk.



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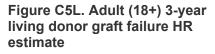
### C. Transplant Information

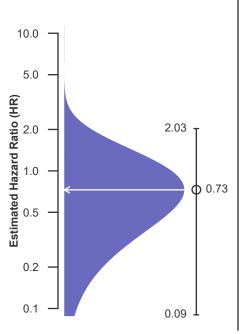
Table C7L. Adult (18+) 3-year survival with a functioning living donor graft Single organ transplants performed between 07/01/2015 and 12/31/2017 Deaths and retransplants are considered graft failures

| Deaths and retransplants are considered graft failures  | WVCA         | U.S.   |
|---|--------------|--------|
| Number of transplants evaluated   | 13           | 13,716 |
| Estimated probability of surviving with a functioning graft at 3 years (unadjusted for patient and donor characteristics) | 100.00%      | 94.27% |
| Expected probability of surviving with a functioning graft at 3 years (adjusted for patient and donor characteristics)    | 94.25%       |        |
| Number of observed graft failures (including deaths) during the first 3 years after transplant                            | 0            | 746    |
| Number of expected graft failures (including deaths) during the first 3 years after transplant                            | 0.75         |        |
| Estimated hazard ratio*   | 0.73         |        |
| 95% credible interval for the hazard ratio**  | [0.09, 2.03] |        |

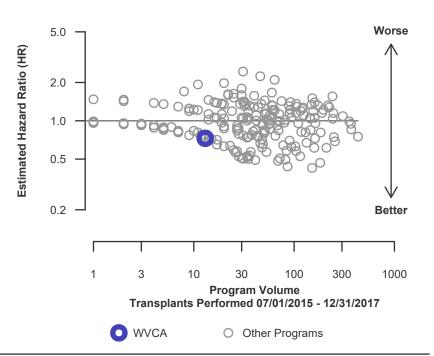
<sup>\*</sup> The hazard ratio provides an estimate of how Charleston Area Medical Center (WVCA)'s results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected graft failure rates (e.g., a hazard ratio of 1.5 would indicate 50% higher risk), and a ratio below 1 indicates lower than expected graft failure rates (e.g., a hazard ratio of 0.75 would indicate 25% lower risk). If WVCA's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

<sup>\*\*</sup> The 95% credible interval, [0.09, 2.03], indicates the location of WVCA's true hazard ratio with 95% probability. The best estimate is 27% lower risk of graft failure compared to an average program, but WVCA's performance could plausibly range from 91% reduced risk up to 103% increased risk.





# Figure C6L. Adult (18+) 3-year living donor graft failure HR program comparison





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### C. Transplant Information

Table C8. Pediatric (<18) 1-month survival with a functioning graft Single organ transplants performed between 01/01/2018 and 03/12/2020 Deaths and retransplants are considered graft failures

This center did not perform any transplants relevant to this table during 01/01/2018-03/12/2020

Figure C7. Pediatric (<18)
1-month graft failure HR estimate

Figure C8. Pediatric (<18) 1-month graft failure HR program comparison

This center did not perform any transplants relevant to this figure during 01/01/2018-06/30/2020



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### C. Transplant Information

Table C8D. Pediatric (<18) 1-month survival with a functioning deceased donor graft Single organ transplants performed between 01/01/2018 and 03/12/2020 Deaths and retransplants are considered graft failures

This center did not perform any transplants relevant to this table during 01/01/2018-03/12/2020

Figure C7D. Pediatric (<18)
1-month deceased donor graft failure HR estimate

Figure C8D. Pediatric (<18) 1-month deceased donor graft failure HR program comparison

This center did not perform any transplants relevant to this figure during 01/01/2018-06/30/2020



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### C. Transplant Information

Table C8L. Pediatric (<18) 1-month survival with a functioning living donor graft Single organ transplants performed between 01/01/2018 and 03/12/2020 Deaths and retransplants are considered graft failures

This center did not perform any transplants relevant to this table during 01/01/2018-03/12/2020

Figure C7L. Pediatric (<18)
1-month living donor graft failure
HR estimate

Figure C8L. Pediatric (<18) 1-month living donor graft failure HR program comparison

This center did not perform any transplants relevant to this figure during 01/01/2018-06/30/2020



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### C. Transplant Information

Table C9. Pediatric (<18) 1-year survival with a functioning graft Single organ transplants performed between 01/01/2018 and 03/12/2020 Deaths and retransplants are considered graft failures

This center did not perform any transplants relevant to this table during 01/01/2018-03/12/2020

## Figure C9. Pediatric (<18) 1-year graft failure HR estimate

Figure C10. Pediatric (<18) 1-year graft failure HR program comparison

This center did not perform any transplants relevant to this figure during 01/01/2018-06/30/2020



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### C. Transplant Information

Table C9D. Pediatric (<18) 1-year survival with a functioning deceased donor graft Single organ transplants performed between 01/01/2018 and 03/12/2020 Deaths and retransplants are considered graft failures

This center did not perform any transplants relevant to this table during 01/01/2018-03/12/2020

Figure C9D. Pediatric (<18) 1-year deceased donor graft failure HR estimate Figure C10D. Pediatric (<18) 1-year deceased donor graft failure HR program comparison

This center did not perform any transplants relevant to this figure during 01/01/2018-06/30/2020



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### **C. Transplant Information**

Table C9L. Pediatric (<18) 1-year survival with a functioning living donor graft Single organ transplants performed between 01/01/2018 and 03/12/2020 Deaths and retransplants are considered graft failures

This center did not perform any transplants relevant to this table during 01/01/2018-03/12/2020

Figure C9L. Pediatric (<18) 1-year living donor graft failure HR estimate

Figure C10L. Pediatric (<18) 1-year living donor graft failure HR program comparison

This center did not perform any transplants relevant to this figure during 01/01/2018-06/30/2020



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### C. Transplant Information

Table C10. Pediatric (<18) 3-year survival with a functioning graft Single organ transplants performed between 07/01/2015 and 12/31/2017 Deaths and retransplants are considered graft failures

| Deaths and retransplants are considered graft failures  | WVCA         | U.S.   |
|---|--------------|--------|
| Number of transplants evaluated   | 1            | 2,053  |
| Estimated probability of surviving with a functioning graft at 3 years (unadjusted for patient and donor characteristics) | 100.00%      | 93.86% |
| Expected probability of surviving with a functioning graft at 3 years (adjusted for patient and donor characteristics)    | 86.81%       |        |
| Number of observed graft failures (including deaths) during the first 3 years after transplant                            | 0            | 121    |
| Number of expected graft failures (including deaths) during the first 3 years after transplant                            | 0.14         |        |
| Estimated hazard ratio*   | 0.93         |        |
| 95% credible interval for the hazard ratio**  | [0.11, 2.60] |        |

<sup>\*</sup> The hazard ratio provides an estimate of how Charleston Area Medical Center (WVCA)'s results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected graft failure rates (e.g., a hazard ratio of 1.5 would indicate 50% higher risk), and a ratio below 1 indicates lower than expected graft failure rates (e.g., a hazard ratio of 0.75 would indicate 25% lower risk). If WVCA's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

Figure C11. Pediatric (<18) 3-year graft failure HR estimate

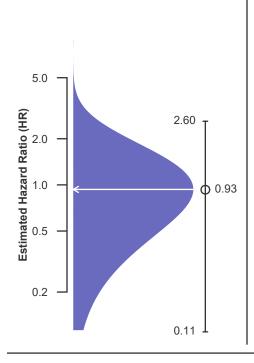
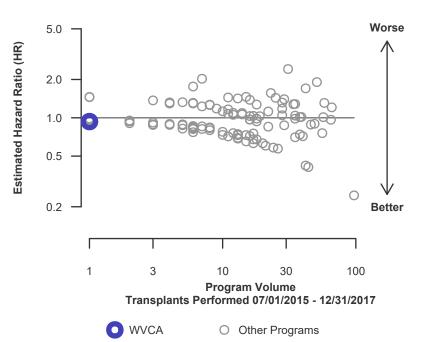


Figure C12. Pediatric (<18) 3-year graft failure HR program comparison



<sup>\*\*</sup> The 95% credible interval, [0.11, 2.60], indicates the location of WVCA's true hazard ratio with 95% probability. The best estimate is 7% lower risk of graft failure compared to an average program, but WVCA's performance could plausibly range from 89% reduced risk up to 160% increased risk.



Center Code: WVCA Transplant Program (Organ): Kidney

Release Date: July 6, 2021

Based on Data Available: April 30, 2021

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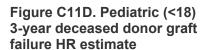
### C. Transplant Information

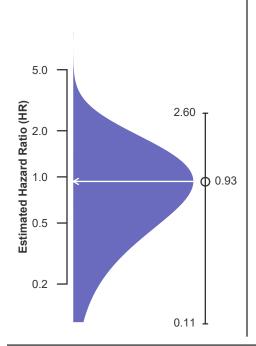
Table C10D. Pediatric (<18) 3-year survival with a functioning deceased donor graft Single organ transplants performed between 07/01/2015 and 12/31/2017 Deaths and retransplants are considered graft failures

| Deaths and retransplants are considered graft failures  | WVCA         | U.S.   |
|---|--------------|--------|
| Number of transplants evaluated   | 1            | 1,397  |
| Estimated probability of surviving with a functioning graft at 3 years (unadjusted for patient and donor characteristics) | 100.00%      | 92.57% |
| Expected probability of surviving with a functioning graft at 3 years (adjusted for patient and donor characteristics)    | 86.81%       |        |
| Number of observed graft failures (including deaths) during the first 3 years after transplant                            | 0            | 100    |
| Number of expected graft failures (including deaths) during the first 3 years after transplant                            | 0.14         |        |
| Estimated hazard ratio*   | 0.93         |        |
| 95% credible interval for the hazard ratio**  | [0.11, 2.60] |        |

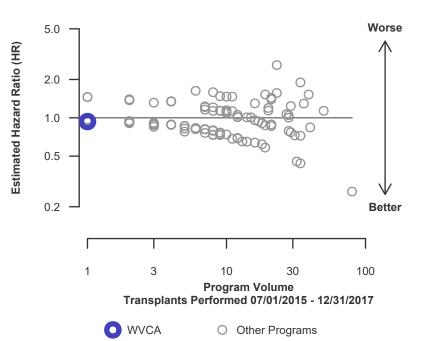
<sup>\*</sup> The hazard ratio provides an estimate of how Charleston Area Medical Center (WVCA)'s results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected graft failure rates (e.g., a hazard ratio of 1.5 would indicate 50% higher risk), and a ratio below 1 indicates lower than expected graft failure rates (e.g., a hazard ratio of 0.75 would indicate 25% lower risk). If WVCA's graft failure rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

<sup>\*\*</sup> The 95% credible interval, [0.11, 2.60], indicates the location of WVCA's true hazard ratio with 95% probability. The best estimate is 7% lower risk of graft failure compared to an average program, but WVCA's performance could plausibly range from 89% reduced risk up to 160% increased risk.





# Figure C12D. Pediatric (<18) 3-year deceased donor graft failure HR program comparison





Center Code: WVCA Transplant Program (Organ): Kidney

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Based on Data Available: April 30, 2021

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### C. Transplant Information

Table C10L. Pediatric (<18) 3-year survival with a functioning living donor graft Single organ transplants performed between 07/01/2015 and 12/31/2017 Deaths and retransplants are considered graft failures

This center did not perform any transplants relevant to this table during 07/01/2015-12/31/2017

Figure C11L. Pediatric (<18)
3-year living donor graft failure
HR estimate

Figure C12L. Pediatric (<18) 3-year living donor graft failure HR program comparison

This center did not perform any transplants relevant to this figure during 07/01/2015-12/31/2017



Center Code: WVCA

Transplant Program (Organ): Kidney

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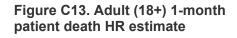
### C. Transplant Information

Table C11. Adult (18+) 1-month patient survival
Single organ transplants performed between 01/01/2018 and 03/12/2020
Retransplants excluded

| Retransplants excluded   | WVCA         | U.S.   |
|--|--------------|--------|
| Number of transplants evaluated  | 161          | 40,563 |
| Estimated probability of surviving at 1 month (unadjusted for patient and donor characteristics) | 98.66%       | 99.59% |
| Expected probability of surviving at 1 month (adjusted for patient and donor characteristics)    | 99.55%       |        |
| Number of observed deaths during the first month after transplant                                | 2            | 165    |
| Number of expected deaths during the first month after transplant                                | 0.70         |        |
| Estimated hazard ratio*  | 1.48         |        |
| 95% credible interval for the hazard ratio**   | [0.40, 3.25] |        |
|  |              |        |

<sup>\*</sup> The hazard ratio provides an estimate of how Charleston Area Medical Center (WVCA)'s results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected patient death rates (e.g., a hazard ratio of 1.5 would indicate 50% higher risk), and a ratio below 1 indicates lower than expected patient death rates (e.g., a hazard ratio of 0.75 would indicate 25% lower risk). If WVCA's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

<sup>\*\*</sup> The 95% credible interval, [0.40, 3.25], indicates the location of WVCA's true hazard ratio with 95% probability. The best estimate is 48% higher risk of patient death compared to an average program, but WVCA's performance could plausibly range from 60% reduced risk up to 225% increased risk.



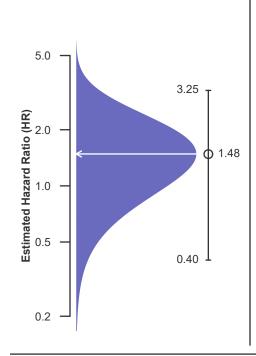
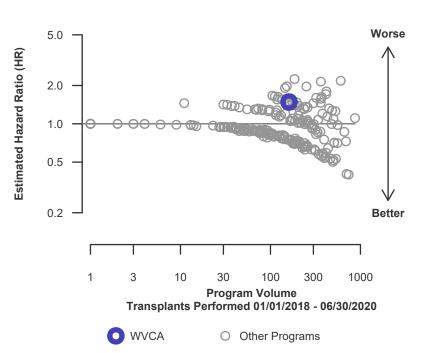


Figure C14. Adult (18+) 1-month patient death HR program comparison





Center Code: WVCA

Transplant Program (Organ): Kidney

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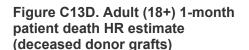
### C. Transplant Information

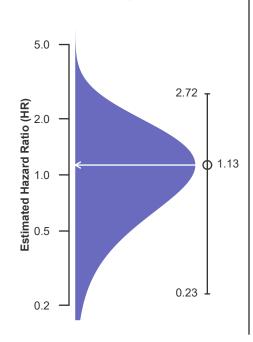
Table C11D. Adult (18+) 1-month patient survival (deceased donor graft recipients) Single organ transplants performed between 01/01/2018 and 03/12/2020

| Retransplants excluded   | WVCA         | U.S.   |
|--|--------------|--------|
| Number of transplants evaluated  | 142          | 27,861 |
| Estimated probability of surviving at 1 month (unadjusted for patient and donor characteristics) | 99.24%       | 99.49% |
| Expected probability of surviving at 1 month (adjusted for patient and donor characteristics)    | 99.52%       |        |
| Number of observed deaths during the first month after transplant                                | 1            | 140    |
| Number of expected deaths during the first month after transplant                                | 0.66         |        |
| Estimated hazard ratio*  | 1.13         |        |
| 95% credible interval for the hazard ratio**   | [0.23, 2.72] |        |

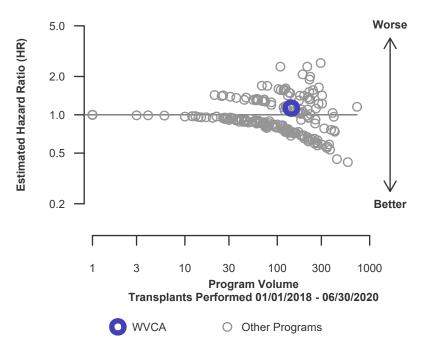
<sup>\*</sup> The hazard ratio provides an estimate of how Charleston Area Medical Center (WVCA)'s results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected patient death rates (e.g., a hazard ratio of 1.5 would indicate 50% higher risk), and a ratio below 1 indicates lower than expected patient death rates (e.g., a hazard ratio of 0.75 would indicate 25% lower risk). If WVCA's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

<sup>\*\*</sup> The 95% credible interval, [0.23, 2.72], indicates the location of WVCA's true hazard ratio with 95% probability. The best estimate is 13% higher risk of patient death compared to an average program, but WVCA's performance could plausibly range from 77% reduced risk up to 172% increased risk.





## Figure C14D. Adult (18+) 1-month patient death HR program comparison (deceased donor grafts)





Center Code: WVCA

Transplant Program (Organ): Kidney Release Date: July 6, 2021

Based on Data Available: April 30, 2021

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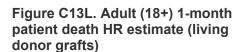
### C. Transplant Information

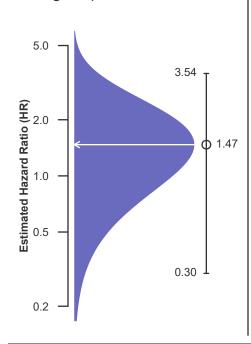
Table C11L. Adult (18+) 1-month patient survival (living donor graft recipients) Single organ transplants performed between 01/01/2018 and 03/12/2020

| Retransplants excluded   | WVCA         | U.S.   |
|--|--------------|--------|
| Number of transplants evaluated  | 19           | 12,702 |
| Estimated probability of surviving at 1 month (unadjusted for patient and donor characteristics) | 94.74%       | 99.80% |
| Expected probability of surviving at 1 month (adjusted for patient and donor characteristics)    | 99.79%       |        |
| Number of observed deaths during the first month after transplant                                | 1            | 25     |
| Number of expected deaths during the first month after transplant                                | 0.04         |        |
| Estimated hazard ratio*  | 1.47         |        |
| 95% credible interval for the hazard ratio**   | [0.30, 3.54] |        |

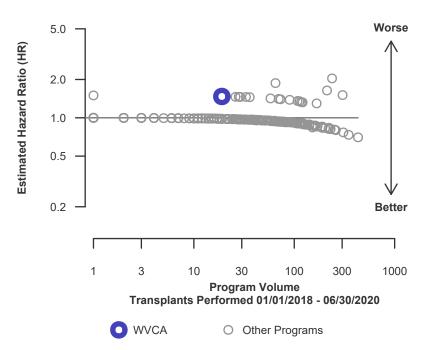
<sup>\*</sup> The hazard ratio provides an estimate of how Charleston Area Medical Center (WVCA)'s results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected patient death rates (e.g., a hazard ratio of 1.5 would indicate 50% higher risk), and a ratio below 1 indicates lower than expected patient death rates (e.g., a hazard ratio of 0.75 would indicate 25% lower risk). If WVCA's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

<sup>\*\*</sup> The 95% credible interval, [0.30, 3.54], indicates the location of WVCA's true hazard ratio with 95% probability. The best estimate is 47% higher risk of patient death compared to an average program, but WVCA's performance could plausibly range from 70% reduced risk up to 254% increased risk.





## Figure C14L. Adult (18+) 1-month patient death HR program comparison (living donor grafts)





Center Code: WVCA

Transplant Program (Organ): Kidney

Release Date: July 6, 2021

Based on Data Available: April 30, 2021

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### C. Transplant Information

Table C12. Adult (18+) 1-year patient survival Single organ transplants performed between 01/01/2018 and 03/12/2020

| Retransplants excluded  | WVCA         | U.S.   |
|---|--------------|--------|
| Number of transplants evaluated   | 161          | 40,563 |
| Estimated probability of surviving at 1 year (unadjusted for patient and donor characteristics) | 96.25%       | 97.62% |
| Expected probability of surviving at 1 year (adjusted for patient and donor characteristics)    | 97.34%       |        |
| Number of observed deaths during the first year after transplant                                | 5            | 769    |
| Number of expected deaths during the first year after transplant                                | 3.28         |        |
| Estimated hazard ratio*   | 1.32         |        |
| 95% credible interval for the hazard ratio**  | [0.53, 2.47] |        |

<sup>\*</sup> The hazard ratio provides an estimate of how Charleston Area Medical Center (WVCA)'s results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected patient death rates (e.g., a hazard ratio of 1.5 would indicate 50% higher risk), and a ratio below 1 indicates lower than expected patient death rates (e.g., a hazard ratio of 0.75 would indicate 25% lower risk). If WVCA's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

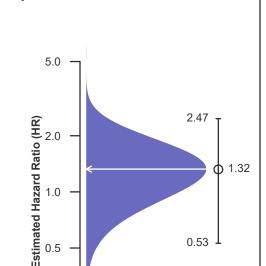


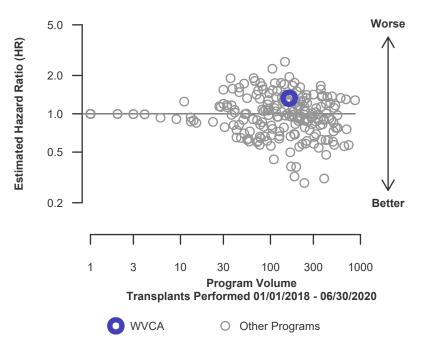
Figure C15. Adult (18+) 1-year

patient death HR estimate

0.5

0.2

Figure C16. Adult (18+) 1-year patient death HR program comparison



<sup>\*\*</sup> The 95% credible interval, [0.53, 2.47], indicates the location of WVCA's true hazard ratio with 95% probability. The best estimate is 32% higher risk of patient death compared to an average program, but WVCA's performance could plausibly range from 47% reduced risk up to 147% increased risk.



Center Code: WVCA

Transplant Program (Organ): Kidney

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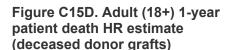
### C. Transplant Information

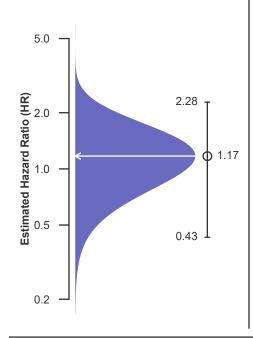
Table C12D. Adult (18+) 1-year patient survival (deceased donor graft recipients) Single organ transplants performed between 01/01/2018 and 03/12/2020

| Retransplants excluded  | WVCA         | U.S.   |
|---|--------------|--------|
| Number of transplants evaluated   | 142          | 27,861 |
| Estimated probability of surviving at 1 year (unadjusted for patient and donor characteristics) | 96.43%       | 96.93% |
| Expected probability of surviving at 1 year (adjusted for patient and donor characteristics)    | 97.12%       |        |
| Number of observed deaths during the first year after transplant                                | 4            | 675    |
| Number of expected deaths during the first year after transplant                                | 3.12         |        |
| Estimated hazard ratio*   | 1.17         |        |
| 95% credible interval for the hazard ratio**  | [0.43, 2.28] |        |

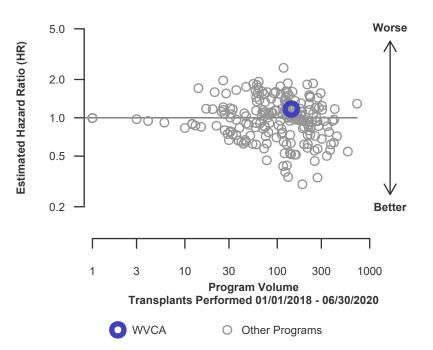
<sup>\*</sup> The hazard ratio provides an estimate of how Charleston Area Medical Center (WVCA)'s results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected patient death rates (e.g., a hazard ratio of 1.5 would indicate 50% higher risk), and a ratio below 1 indicates lower than expected patient death rates (e.g., a hazard ratio of 0.75 would indicate 25% lower risk). If WVCA's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

<sup>\*\*</sup> The 95% credible interval, [0.43, 2.28], indicates the location of WVCA's true hazard ratio with 95% probability. The best estimate is 17% higher risk of patient death compared to an average program, but WVCA's performance could plausibly range from 57% reduced risk up to 128% increased risk.





## Figure C16D. Adult (18+) 1-year patient death HR program comparison (deceased donor grafts)





Center Code: WVCA

Transplant Program (Organ): Kidney

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Based on Data Available: April 30, 2021

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### C. Transplant Information

Table C12L. Adult (18+) 1-year patient survival (living donor graft recipients) Single organ transplants performed between 01/01/2018 and 03/12/2020 Retransplants excluded

| Retransplants excluded  | WVCA         | U.S.   |
|---|--------------|--------|
| Number of transplants evaluated   | 19           | 12,702 |
| Estimated probability of surviving at 1 year (unadjusted for patient and donor characteristics) | 94.74%       | 99.09% |
| Expected probability of surviving at 1 year (adjusted for patient and donor characteristics)    | 99.04%       |        |
| Number of observed deaths during the first year after transplant                                | 1            | 94     |
| Number of expected deaths during the first year after transplant                                | 0.16         |        |
| Estimated hazard ratio*   | 1.39         |        |
| 95% credible interval for the hazard ratio**  | [0.29, 3.34] |        |

<sup>\*</sup> The hazard ratio provides an estimate of how Charleston Area Medical Center (WVCA)'s results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected patient death rates (e.g., a hazard ratio of 1.5 would indicate 50% higher risk), and a ratio below 1 indicates lower than expected patient death rates (e.g., a hazard ratio of 0.75 would indicate 25% lower risk). If WVCA's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

Figure C15L. Adult (18+) 1-year patient death HR estimate (living donor grafts)

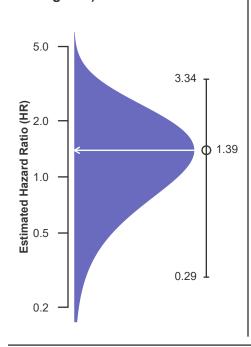
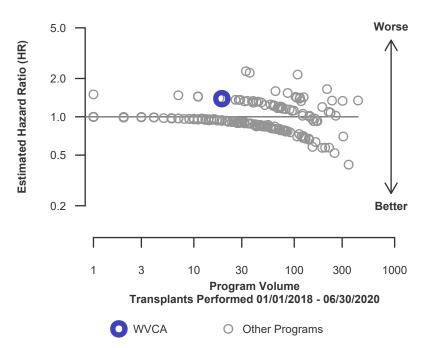


Figure C16L. Adult (18+) 1-year patient death HR program comparison (living donor grafts)



<sup>\*\*</sup> The 95% credible interval, [0.29, 3.34], indicates the location of WVCA's true hazard ratio with 95% probability. The best estimate is 39% higher risk of patient death compared to an average program, but WVCA's performance could plausibly range from 71% reduced risk up to 234% increased risk.



Center Code: WVCA

Transplant Program (Organ): Kidney

Release Date: July 6, 2021

Based on Data Available: April 30, 2021

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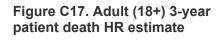
### **C. Transplant Information**

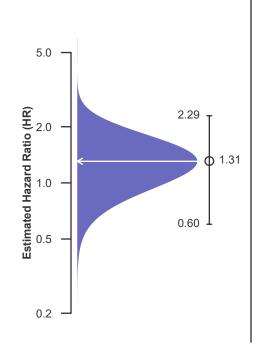
Table C13. Adult (18+) 3-year patient survival Single organ transplants performed between 07/01/2015 and 12/31/2017 Retransplants excluded

| Retransplants excluded   | WVCA         | U.S.   |
|--|--------------|--------|
| Number of transplants evaluated  | 66           | 38,241 |
| Estimated probability of surviving at 3 years (unadjusted for patient and donor characteristics) | 89.39%       | 94.20% |
| Expected probability of surviving at 3 years (adjusted for patient and donor characteristics)    | 92.31%       |        |
| Number of observed deaths during the first 3 years after transplant                              | 7            | 2,123  |
| Number of expected deaths during the first 3 years after transplant                              | 4.89         |        |
| Estimated hazard ratio*  | 1.31         |        |
| 95% credible interval for the hazard ratio**   | [0.60, 2.29] |        |

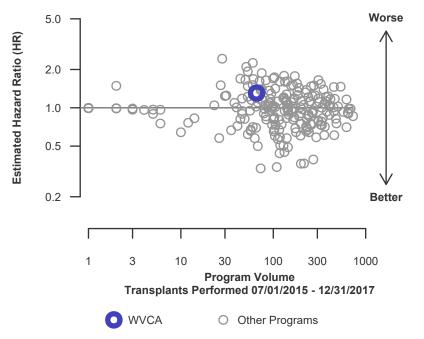
<sup>\*</sup> The hazard ratio provides an estimate of how Charleston Area Medical Center (WVCA)'s results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected patient death rates (e.g., a hazard ratio of 1.5 would indicate 50% higher risk), and a ratio below 1 indicates lower than expected patient death rates (e.g., a hazard ratio of 0.75 would indicate 25% lower risk). If WVCA's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

<sup>\*\*</sup> The 95% credible interval, [0.60, 2.29], indicates the location of WVCA's true hazard ratio with 95% probability. The best estimate is 31% higher risk of patient death compared to an average program, but WVCA's performance could plausibly range from 40% reduced risk up to 129% increased risk.





# Figure C18. Adult (18+) 3-year patient death HR program comparison





Center Code: WVCA

Transplant Program (Organ): Kidney Release Date: July 6, 2021

Based on Data Available: April 30, 2021

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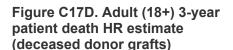
### C. Transplant Information

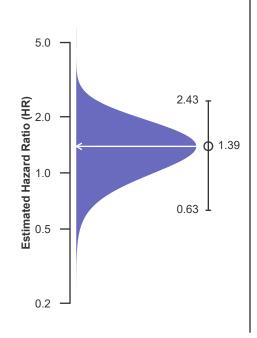
Table C13D. Adult (18+) 3-year patient survival (deceased donor graft recipients) Single organ transplants performed between 07/01/2015 and 12/31/2017 Retransplants excluded

| Retransplants excluded   | WVCA         | U.S.   |
|--|--------------|--------|
| Number of transplants evaluated  | 54           | 25,865 |
| Estimated probability of surviving at 3 years (unadjusted for patient and donor characteristics) | 87.04%       | 92.89% |
| Expected probability of surviving at 3 years (adjusted for patient and donor characteristics)    | 91.35%       |        |
| Number of observed deaths during the first 3 years after transplant                              | 7            | 1,766  |
| Number of expected deaths during the first 3 years after transplant                              | 4.49         |        |
| Estimated hazard ratio*  | 1.39         |        |
| 95% credible interval for the hazard ratio**   | [0.63, 2.43] |        |

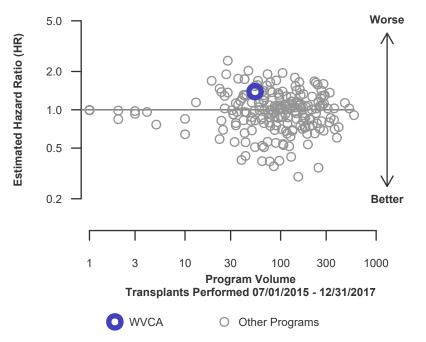
<sup>\*</sup> The hazard ratio provides an estimate of how Charleston Area Medical Center (WVCA)'s results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected patient death rates (e.g., a hazard ratio of 1.5 would indicate 50% higher risk), and a ratio below 1 indicates lower than expected patient death rates (e.g., a hazard ratio of 0.75 would indicate 25% lower risk). If WVCA's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

<sup>\*\*</sup> The 95% credible interval, [0.63, 2.43], indicates the location of WVCA's true hazard ratio with 95% probability. The best estimate is 39% higher risk of patient death compared to an average program, but WVCA's performance could plausibly range from 37% reduced risk up to 143% increased risk.





### Figure C18D. Adult (18+) 3-year patient death HR program comparison (deceased donor grafts)





Center Code: WVCA

Transplant Program (Organ): Kidney

Release Date: July 6, 2021

Based on Data Available: April 30, 2021

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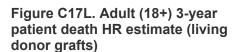
### C. Transplant Information

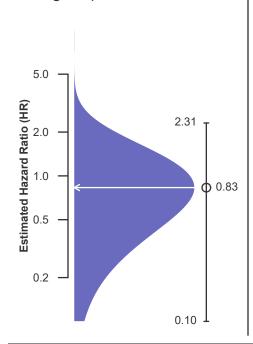
Table C13L. Adult (18+) 3-year patient survival (living donor graft recipients) Single organ transplants performed between 07/01/2015 and 12/31/2017 Retransplants excluded

| Retransplants excluded   | WVCA         | U.S.   |
|--|--------------|--------|
| Number of transplants evaluated  | 12           | 12,376 |
| Estimated probability of surviving at 3 years (unadjusted for patient and donor characteristics) | 100.00%      | 96.95% |
| Expected probability of surviving at 3 years (adjusted for patient and donor characteristics)    | 96.61%       |        |
| Number of observed deaths during the first 3 years after transplant                              | 0            | 357    |
| Number of expected deaths during the first 3 years after transplant                              | 0.41         |        |
| Estimated hazard ratio*  | 0.83         |        |
| 95% credible interval for the hazard ratio**   | [0.10, 2.31] |        |

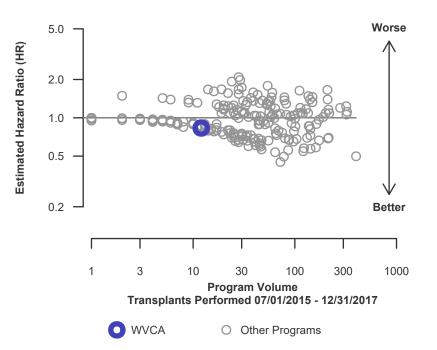
<sup>\*</sup> The hazard ratio provides an estimate of how Charleston Area Medical Center (WVCA)'s results compare with what was expected based on modeling the transplant outcomes from all U.S. programs. A ratio above 1 indicates higher than expected patient death rates (e.g., a hazard ratio of 1.5 would indicate 50% higher risk), and a ratio below 1 indicates lower than expected patient death rates (e.g., a hazard ratio of 0.75 would indicate 25% lower risk). If WVCA's patient death rate were precisely the expected rate, the estimated hazard ratio would be 1.0.

<sup>\*\*</sup> The 95% credible interval, [0.10, 2.31], indicates the location of WVCA's true hazard ratio with 95% probability. The best estimate is 17% lower risk of patient death compared to an average program, but WVCA's performance could plausibly range from 90% reduced risk up to 131% increased risk.





## Figure C18L. Adult (18+) 3-year patient death HR program comparison (living donor grafts)





Center Code: WVCA Transplant Program (Organ): Kidney

Release Date: July 6, 2021

Based on Data Available: April 30, 2021

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### C. Transplant Information

Table C14. Pediatric (<18) 1-month patient survival
Single organ transplants performed between 01/01/2018 and 03/12/2020
Retransplants excluded

This center did not perform any transplants relevant to this table during 01/01/2018-03/12/2020

Figure C19. Pediatric (<18) 1-month patient death HR estimate Figure C20. Pediatric (<18) 1-month patient death HR program comparison

This center did not perform any transplants relevant to this figure during 01/01/2018-06/30/2020



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### C. Transplant Information

Table C14D. Pediatric (<18) 1-month patient survival (deceased donor graft recipients) Single organ transplants performed between 01/01/2018 and 03/12/2020 Retransplants excluded

This center did not perform any transplants relevant to this table during 01/01/2018-03/12/2020

Figure C19D. Pediatric (<18)
1-month patient death HR
estimate (deceased donor grafts)

Figure C20D. Pediatric (<18) 1-month patient death HR program comparison (deceased donor grafts)

This center did not perform any transplants relevant to this figure during 01/01/2018-06/30/2020



Center Code: WVCA Transplant Program (Organ): Kidney

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### C. Transplant Information

Table C14L. Pediatric (<18) 1-month patient survival (living donor graft recipients) Single organ transplants performed between 01/01/2018 and 03/12/2020 Retransplants excluded

This center did not perform any transplants relevant to this table during 01/01/2018-03/12/2020

Figure C19L. Pediatric (<18) 1-month patient death HR estimate (living donor grafts) Figure C20L. Pediatric (<18) 1-month patient death HR program comparison (living donor grafts)

This center did not perform any transplants relevant to this figure during 01/01/2018-06/30/2020



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### C. Transplant Information

Table C15. Pediatric (<18) 1-year patient survival
Single organ transplants performed between 01/01/2018 and 03/12/2020
Retransplants excluded

This center did not perform any transplants relevant to this table during 01/01/2018-03/12/2020

## Figure C21. Pediatric (<18) 1-year patient death HR estimate

Figure C22. Pediatric (<18) 1-year patient death HR program comparison

This center did not perform any transplants relevant to this figure during 01/01/2018-06/30/2020



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### C. Transplant Information

Table C15D. Pediatric (<18) 1-year patient survival (deceased donor graft recipients) Single organ transplants performed between 01/01/2018 and 03/12/2020 Retransplants excluded

This center did not perform any transplants relevant to this table during 01/01/2018-03/12/2020

Figure C21D. Pediatric (<18)
1-year patient death HR estimate (deceased donor grafts)

Figure C22D. Pediatric (<18) 1-year patient death HR program comparison (deceased donor grafts)

This center did not perform any transplants relevant to this figure during 01/01/2018-06/30/2020



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### C. Transplant Information

Table C15L. Pediatric (<18) 1-year patient survival (living donor graft recipients) Single organ transplants performed between 01/01/2018 and 03/12/2020 Retransplants excluded

This center did not perform any transplants relevant to this table during 01/01/2018-03/12/2020

Figure C21L. Pediatric (<18)
1-year patient death HR estimate (living donor grafts)

Figure C22L. Pediatric (<18) 1-year patient death HR program comparison (living donor grafts)

This center did not perform any transplants relevant to this figure during 01/01/2018-06/30/2020



Center Code: WVCA Transplant Program (Organ): Kidney

Release Date: July 6, 2021

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### C. Transplant Information

Table C16. Pediatric (<18) 3-year patient survival
Single organ transplants performed between 07/01/2015 and 12/31/2017
Retransplants excluded

This center did not perform any transplants relevant to this table during 07/01/2015-12/31/2017

Figure C23. Pediatric (<18) 3-year patient death HR estimate

Figure C24. Pediatric (<18) 3-year patient death HR program comparison

This center did not perform any transplants relevant to this figure during 07/01/2015-12/31/2017



Center Code: WVCA Transplant Program (Organ): Kidney

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### C. Transplant Information

Table C16D. Pediatric (<18) 3-year patient survival (deceased donor graft recipients) Single organ transplants performed between 07/01/2015 and 12/31/2017 Retransplants excluded

This center did not perform any transplants relevant to this table during 07/01/2015-12/31/2017

Figure C23D. Pediatric (<18)
3-year patient death HR estimate (deceased donor grafts)

Figure C24D. Pediatric (<18) 3-year patient death HR program comparison (deceased donor grafts)

This center did not perform any transplants relevant to this figure during 07/01/2015-12/31/2017



Center Code: WVCA Transplant Program (Organ): Kidney

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### C. Transplant Information

Table C16L. Pediatric (<18) 3-year patient survival (living donor graft recipients) Single organ transplants performed between 07/01/2015 and 12/31/2017 Retransplants excluded

This center did not perform any transplants relevant to this table during 07/01/2015-12/31/2017

Figure C23L. Pediatric (<18)
3-year patient death HR estimate (living donor grafts)

Figure C24L. Pediatric (<18) 3-year patient death HR program comparison (living donor grafts)

This center did not perform any transplants relevant to this figure during 07/01/2015-12/31/2017



Center Code: WVCA

Transplant Program (Organ): Kidney

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### C. Transplant Information

Table C17. Multi-organ transplant graft survival: 01/01/2018 - 06/30/2020 Adult (18+) Transplants

No adult (18+) multi-organ transplants were performed

Pediatric (<18) Transplants

No pediatric (<18) multi-organ transplants were performed

Table C18. Multi-organ transplant patient survival: 01/01/2018 - 06/30/2020 Adult (18+) Transplants

No adult (18+) multi-organ transplants were performed

Pediatric (<18) Transplants

No pediatric (<18) multi-organ transplants were performed



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Transplant Program (Organ): Kidney

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## **D. Living Donor Information**

Table D1. Living donor summary: 01/01/2018 - 12/31/2020

|  | This Center         |                     |                     | United States       |                     |                     |
|--|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| Living Donor Follow-Up                             | 01/2018-<br>12/2018 | 01/2019-<br>12/2019 | 01/2020-<br>06/2020 | 01/2018-<br>12/2018 | 01/2019-<br>12/2019 | 01/2020-<br>06/2020 |
| Number of Living Donors                            | 12                  | 8                   | 1                   | 6,443               | 6,866               | 2,300               |
| <b>6-Month Follow-Up</b> Donors due for follow-up  | 12                  | 8                   | 1                   | 6,442               | 6,863               | 2,250               |
| Timely clinical data                               | 12<br>100.0%        | 6<br>75.0%          | 1<br>100.0%         | 5,613<br>87.1%      | 5,680<br>82.8%      | 1,769<br>78.6%      |
| Timely lab data                                    | 11<br>91.7%         | 6<br>75.0%          | 1<br>100.0%         | 5,388<br>83.6%      | 5,292<br>77.1%      | 1,715<br>76.2%      |
| <b>12-Month Follow-Up</b> Donors due for follow-up | 12                  | 8                   |                     | 6,440               | 6,833               |                     |
| Timely clinical data                               | 12<br>100.0%        | 4<br>50.0%          |                     | 5,365<br>83.3%      | 5,121<br>74.9%      |                     |
| Timely lab data                                    | 12<br>100.0%        | 3<br>37.5%          |                     | 5,051<br>78.4%      | 4,515<br>66.1%      |                     |
| <b>24-Month Follow-Up</b> Donors due for follow-up | 12                  |                     |                     | 6,434               |                     |                     |
| Timely clinical data                               | 4<br>33.3%          |                     |                     | 4,306<br>66.9%      |                     |                     |
| Timely lab data                                    | 1<br>8.3%           |                     |                     | 3,612<br>56.1%      |                     |                     |

Follow-up completion standards through 2 years post-donation were implemented in policy on February 1, 2013.