# Final Report

OPTN Minority Affairs Committee

Descriptive Data Request

# 6 Month Monitoring Report Race-Neutral eGFR Calculations

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### **Background/Purpose**

The policy's purpose was to prohibit the use of Estimated Glomerular Filtration Rate (eGFR) calculations that include a race-based variable in OPTN policy. It defines GFR within OPTN Policy so that any eGFR calculation used must not contain a race-based variable. This requirement for race-neutral calculations intended to increase equity in access to transplantation for Black kidney candidates by more accurately estimating their GFR values. If the Black race coefficient is prohibited from use in eGFR calculations within OPTN policy, Black kidney candidates' eGFR values will be more reflective of their actual kidney function.

### Strategic Plan Goal or Committee Project Addressed

Improve equity in access to transplants.

#### **Committee Request**

As outlined in the monitoring plan in the board briefing report, the Committee will monitor metrics as they relate to using race-neutral eGFR calculations. This includes, but is not limited to:

- Count and percent of Black kidney candidates listed pre-dialysis
- Number of kidney transplants to Black candidates, broken out by transplants performed pre-dialysis versus post-dialysis
- eGFR at listing for Black kidney candidates qualifying by eGFR
- Waiting list mortality for Black kidney candidates
- Time waiting from listing until transplant for Black kidney candidates
- Probability of transplant within one year for Black kidney candidates

These metrics will be reviewed at approximately six months, one year, and two years post-implementation. Waiting list mortality, time waiting to transplant, and probability of transplant within one year for Black kidney candidates will be provided only at one and two years post-implementation.

#### **Data and Methods**

#### **Data Sources:**

These analyses use data from the OPTN waiting list, the Transplant Candidate Registration (TCR) form, and the Transplant Recipient Registration (TRR) form.

Analyses are based on OPTN data as of May 05, 2023 and are subject to change based on future data submission or correction.

#### Cohort:

Registrations added to the kidney waiting list between January 27, 2022 and July 26, 2022 (pre) or between July 27, 2022 and January 26, 2023 (post) were stratified by race/ethnicity and whether the registrations were pre- or post-dialysis.

Kidney recipients transplanted between January 27, 2022 and July 26, 2022 (pre) or between July 27, 2022 and January 26, 2023 (post) were stratified by race/ethnicity and whether the transplants were done pre- or post-dialysis.

#### **Results**

Table 1 shows kidney registrations added to the waiting list stratified by the candidate's race/ethnicity at listing. Race/ethnicity was similarly distributed across eras. Pre-policy 29.62% of kidney waitlist additions were Black candidates and post-policy 29.91% of kidney waitlist additions were Black candidates.

Table 1. Overall Kidney Waitlist Additions by Race/Ethnicity

	Policy Era		
Race/Ethnicity	Pre	Post	
Amer Ind/Alaska Native, Non-Hispanic	177 (0.79%)	176 (0.79%)	
Asian, Non-Hispanic	1825 (8.18%)	1660 (7.49%)	
Black, Non-Hispanic	6605 (29.62%)	6629 (29.91%)	
Hispanic/Latino	4455 (19.98%)	4518 (20.39%)	
Multiracial, Non-Hispanic	188 (0.84%)	168 (0.76%)	
Native Hawaiian/other Pacific Islander, Non-Hispanic	106 (0.48%)	102 (0.46%)	
White, Non-Hispanic	8942 (40.10%)	8909 (40.20%)	
Total	22298 (100.00%)	22162 (100.00%	

Figure 1 shows the count and percent of Black kidney waitlist additions stratified by whether the candidate was listed pre-dialysis. The percent of Black candidates listed pre-dialysis remained steady from the pre-policy era (27.1%) to the post-policy era (27.7%).

Figure 1. Black Kidney Waitlist Additions by Whether Candidate Was Listed Pre-Dialysis

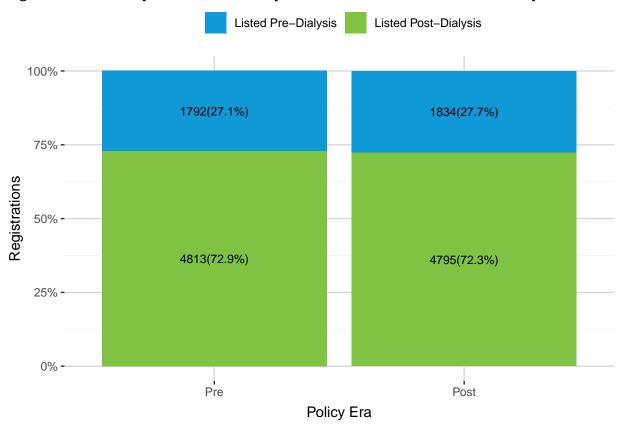


Table 2 shows black kidney waitlist additions stratified by the candidate's waiting time qualifying source. There were no substantial differences in waiting time qualifying source from the pre-policy era to the post-policy era.

Table 2. Overall Black Kidney Waitlist Additions by Waiting Time Qualifying Source

	Policy Era		
Qualifying Source	Pre	Post	
Creatinine Clearance 20 or Lower Does Not Qualify GFR 20 or Lower Maintenance Dialysis Pediatric Policy Qualify As Of Tiebreaker Date Total	1 (0.02%) 72 (1.09%) 11 (0.17%) 4583 (69.39%) 46 (0.70%) 1892 (28.64%) 6605 (100.00%)	0 (0.00%) 74 (1.12%) 8 (0.12%) 4535 (68.41%) 40 (0.60%) 1972 (29.75%) 6629 (100.00%)	

Figure 2 shows the distribution of the first entered eGFR for all black kidney waitlist additions qualifying for waiting time with an eGFR of 20 or lower, or by tiebreaker date (registration date). The eGFR values are similarly distributed across eras.

Figure 2. Distribution of First Entered eGFR for Black Kidney Waitlist Additions Qualifying by an eGFR of 20 or Lower, or by Tiebreaker Date

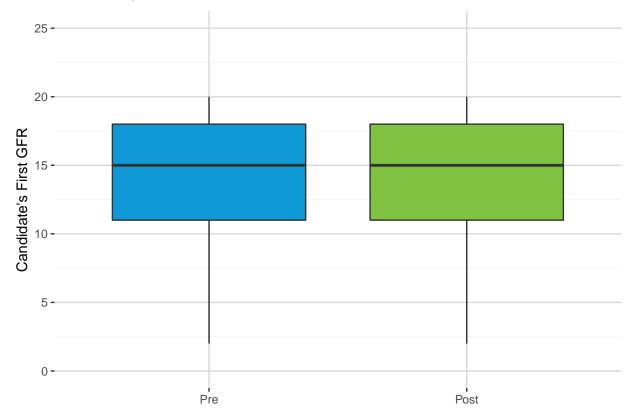


Table 3 shows the distribution of the first entered eGFR for all black kidney waitlist additions qualifying for waiting time with an eGFR of 20 or lower. The number of registrations for Black candidates qualifying by an eGFR of 20 or lower was small in both eras, so the true distribution may be hard to interpret.

Table 3. Distribution of First Entered eGFR for Black Kidney Waitlist Additions Qualifying by an eGFR of 20 or Lower

			eGFR				
Era	Count	Missing	Minimum	25th Percentile	Median	75th Percentile	Maximum
Pre	11	0	9	14	18.0	19.5	20
Post	8	0	14	19	19.1	20.0	20

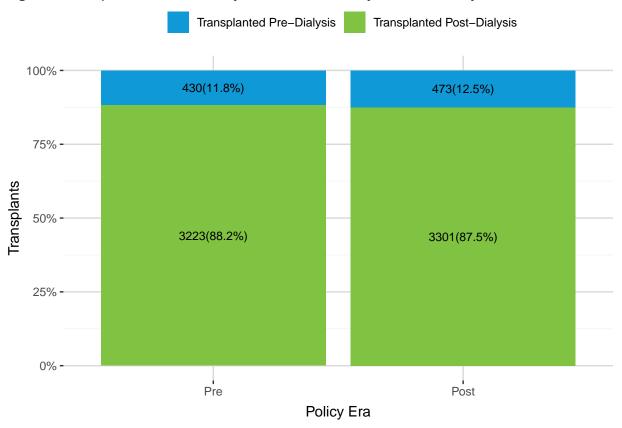
Table 4 shows overall kidney transplants stratified by race/ethnicity. Race/ethnicity was similarly distributed across the eras. Pre-policy 28.63% of kidney transplants were to Black candidates and post-policy 28.75% of kidney transplants were to Black candidates.

Table 4. Overall Kidney Transplants by Race/Ethnicity

	Policy Era		
Race/Ethnicity	Pre	Post	
Amer Ind/Alaska Native, Non-Hispanic	91 (0.71%)	97 (0.74%)	
Asian, Non-Hispanic	984 (7.71%)	1036 (7.89%)	
Black, Non-Hispanic	3653 (28.63%)	3774 (28.75%)	
Hispanic/Latino	2563 (20.09%)	2679 (20.41%)	
Multiracial, Non-Hispanic	92 (0.72%)	118 (0.90%)	
Native Hawaiian/other Pacific Islander, Non-Hispanic	47 (0.37%)	61 (0.46%)	
White, Non-Hispanic	5328 (41.76%)	5363 (40.85%)	
Total	12758 (100.00%)	13128 (100.00%)	

Figure 3 shows the count and percent of transplants to black kidney candidates by whether the transplant was performed pre-dialysis. The percent of Black candidates transplanted pre-dialysis increased slightly from the pre-policy era (11.8%) to the post-policy era (12.8%).

Figure 3. Transplants to Black Kidney Candidates Pre-Dialysis vs. Post-Dialysis



## **Summary**

Overall, there were no large changes in waitlist additions or transplants for Black kidney candidates. There were also no substantial changes in additions and transplants pre-dialysis vs. post-dialysis. This report only shows 6 months of data pre- and post-implementation, so further monitoring is needed to determine true impacts of the policy.