Supplemental Material

Supplemental Table 1. Donor characteristics utilized in the donor utilization index along with their reason of inclusion and references.

Supplemental Table 2. States, territories, and districts comprising each OPTN region.

Supplemental Table 3. Mean donor utilization index and percent import by region for pre-KAS (2010 – 2013) and post-KAS (2016 – 2018) for 178 centers.

Supplemental Figure 1. Scatter plot examining correlation between KDRI and donor utilization index. ($\rho = 0.90$, $p < 0.001$) (**b**) (n = 182)

Supplemental Figure 2. Donor utilization index scores pre-KAS and post-KAS by region mean ($R^2 = 0.81$, $p < 0.001$) **(a)** and by centers within each region **(b)**. (n = 178)

Supplemental Figure 3. Box plot of donor utilization indexes for the pre-KAS and post-KAS cohort (n = 178), and full cohort (n = 181).

Supplemental Table 1. Donor characteristics used in the donor utilization index along with their reason of inclusion and references.

Variable	Reason for Inclusion	Reference
Age over 49	Increased chance of discard, inferior outcomes	[28-30]
Hypertension	Increased chance of discard, inferior outcomes	[28,30,31]
Diabetes	Increased chance of discard, inferior outcomes	[28-30]
PHS-IR	Increased chance of discard	[32]
Creatinine > 2	Increased chance of discard, inferior outcomes	[28-30]
Hepatitis C	Increased chance of discard	[29]
Stroke Cause of Death	Increased chance of discard, inferior outcomes	[30]
BMI > 35	Increased chance of discard, inferior outcomes	[33]
Donation after Cardiac Death	Increased chance of discard	[30]
Black/African American Race	Increased chance of discard	[28]
6 HLA Mismatches	Inferior outcomes	[34]
Non-IV Drug Use	Increased chance of discard	[35]
Current Smoker or >20 Packs a Day in Past	Inferior outcomes	[36,37]
Cancer	Increased chance of discard, inferior outcomes	[38]
>24 Hours Cold Ischemia Time	Inferior outcomes	[39]
KDPI > 85	Increased chance of discard, inferior outcomes	[30]

Supplemental Table 2. States, territories, and districts comprising each OPTN region.

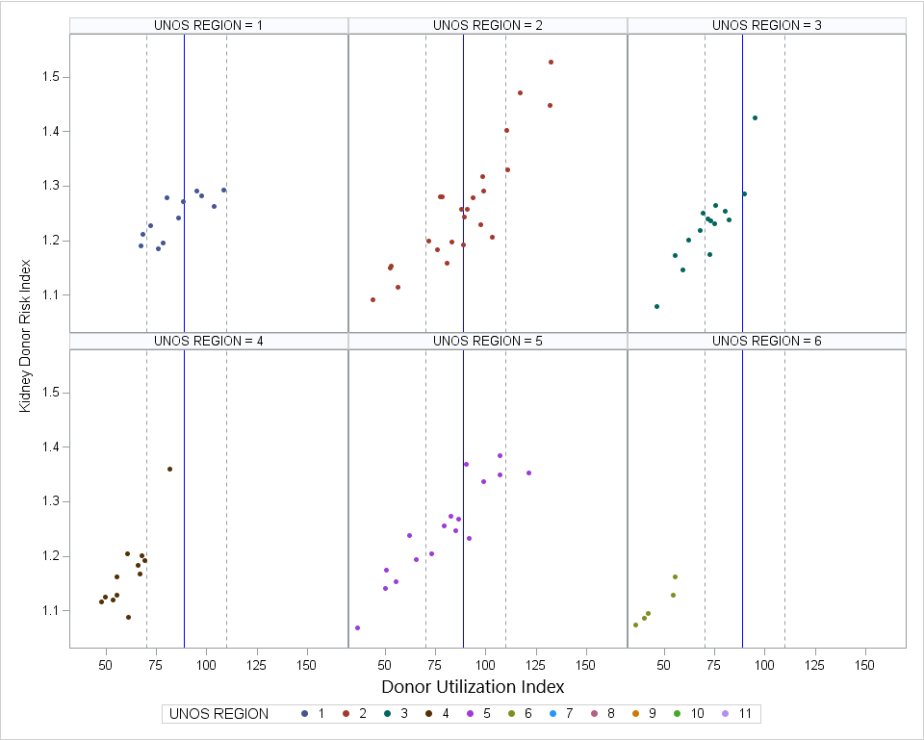
Region	States
Region 1	Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Eastern Vermont
Region 2	Delaware, District of Columbia, Maryland, New Jersey, Pennsylvania, West Virginia, Northern Virginia
Region 3	Alabama, Arkansas, Florida, Georgia, Louisiana, Mississippi, Puerto Rico
Region 4	Oklahoma, Texas
Region 5	Arizona, California, Nevada, New Mexico, Utah
Region 6	Alaska, Hawaii, Idaho, Montana, Oregon, Washington
Region 7	Illinois, Minnesota, North Dakota, South Dakota, Wisconsin
Region 8	Colorado, Iowa, Kansas, Missouri, Nebraska, Wyoming
Region 9	New York, Western Vermont
Region 10	Indiana, Michigan, Ohio
Region 11	Kentucky, North Carolina, South Carolina, Tennessee, Virginia

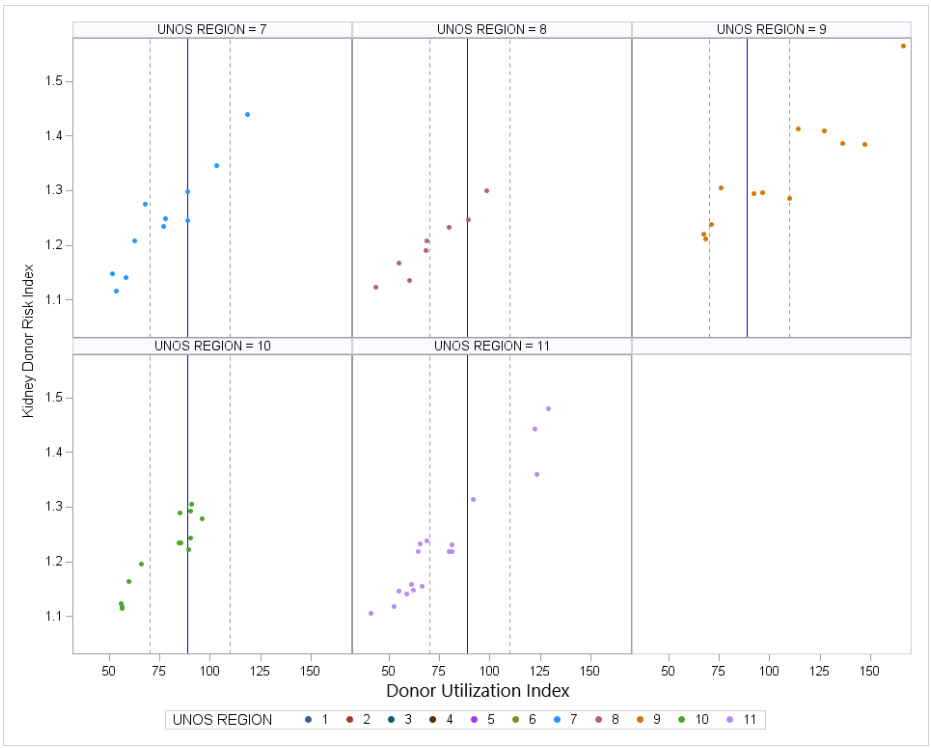
Supplemental Table 3. Mean donor utilization index and percent import by region for pre-KAS (2010 – 2013) and post-KAS (2016 – 2018) for 178 centers.

Region	Percent Imported		Mean Donor Utilization Index		
	Pre-KAS	*Post-KAS*	*Pre-KAS*	*Post-KAS*	p
Overall mean	22%	31%	92	95	0.50
Region 1	14%	18%	111	108	0.49
Region 2	22%	32%	105	96	0.58
Region 3	18%	30%	81	81	0.94
Region 4	13%	23%	69	84	0.09
Region 5	25%	40%	88	105	0.06
Region 6	13%	8%	64	68	0.58
Region 7	16%	24%	97	94	0.75
Region 8	21%	22%	85	87	0.86
Region 9	44%	51%	128	125	0.84
Region 10	15%	24%	98	90	0.54
Region 11	28%	32%	88	93	0.67

Supplemental Figure 1. Scatter plots examining correlation between KDRI and donor utilization index (ρ = 0.90, p < 0.001) (**b**) (n = 182).

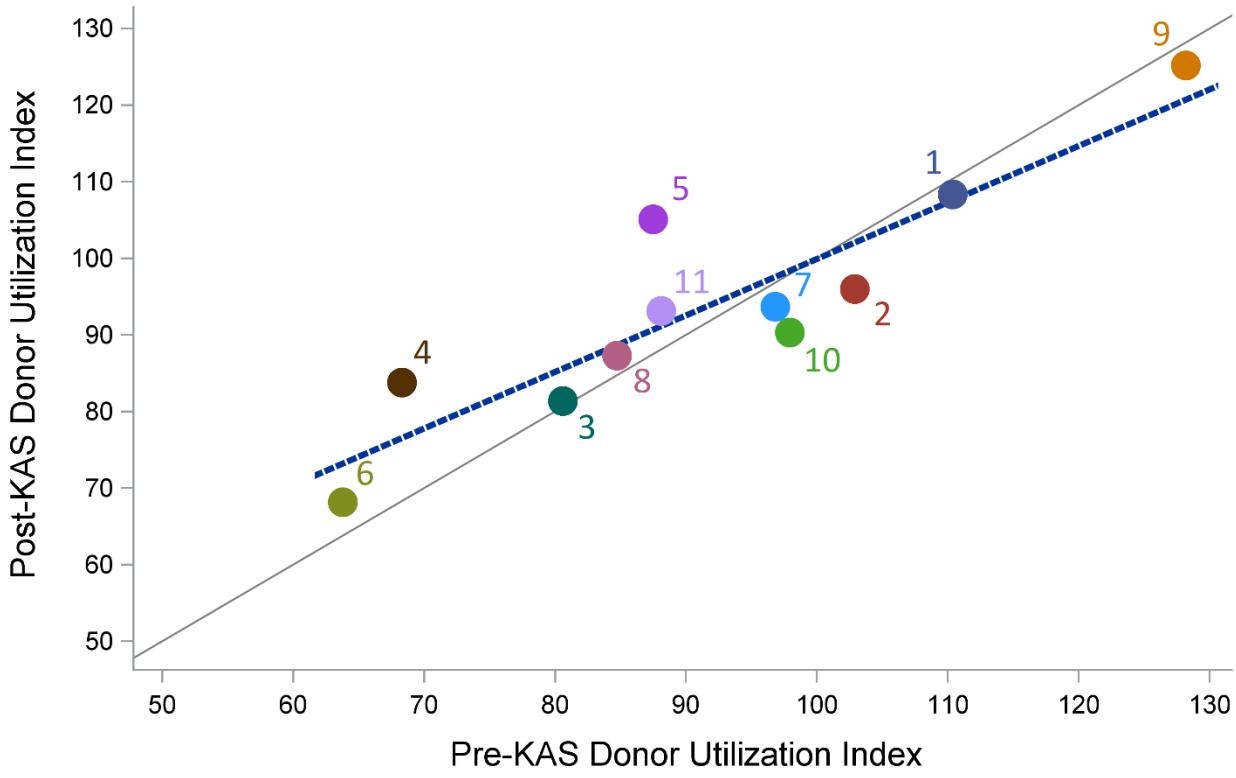
(**a**)



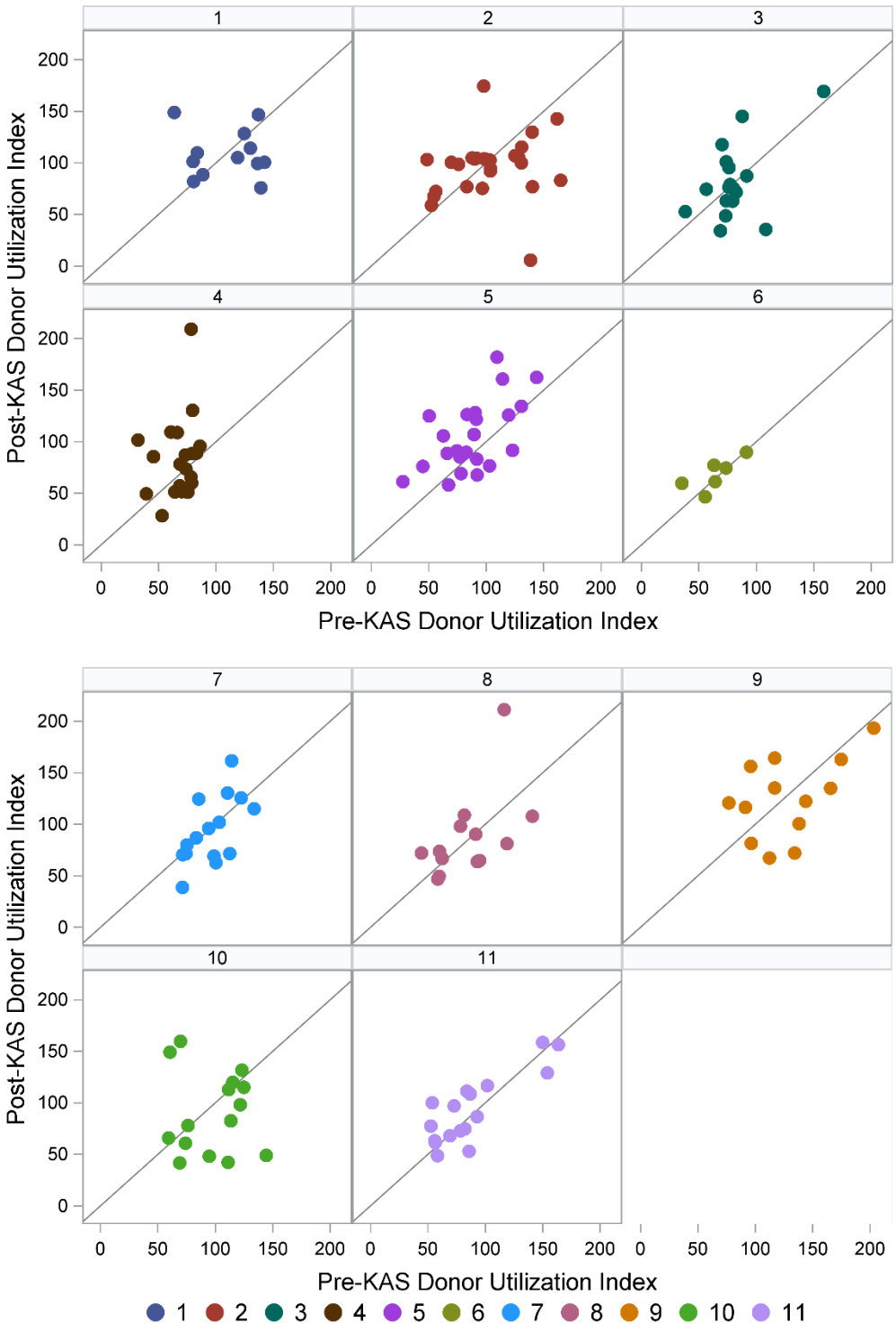
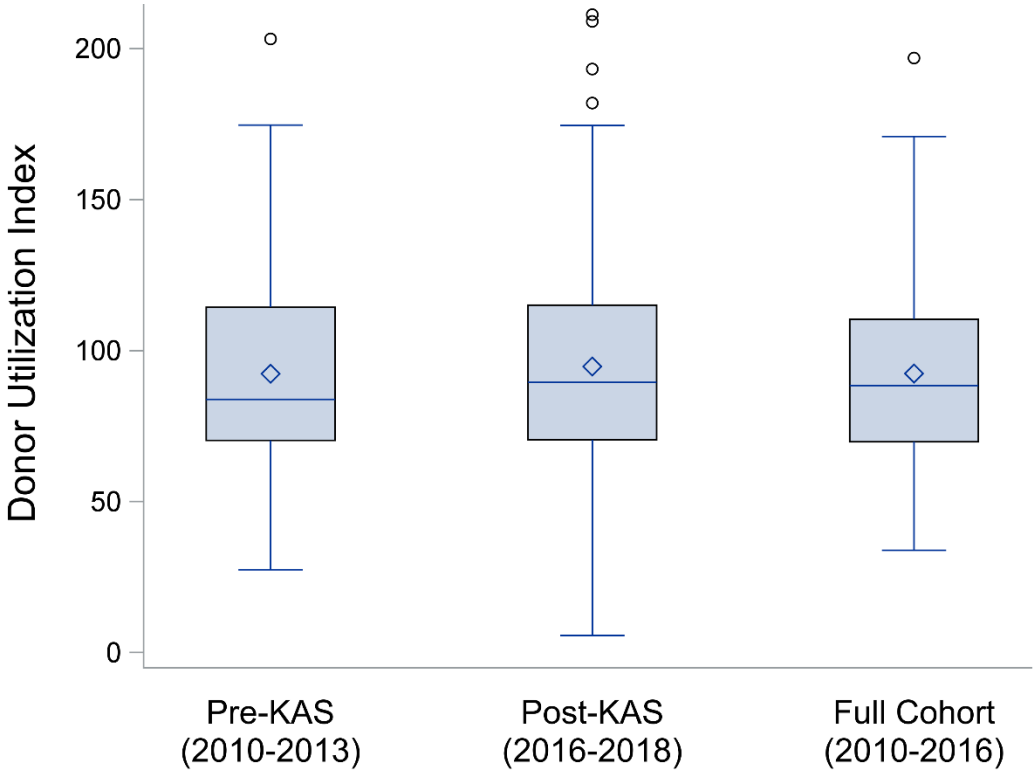


Supplemental Figure 2. Donor utilization index scores pre-KAS and post-KAS by region mean (R^2 = 0.81, p < 0.001) **(a)** and by centers within each region **(b)**. (n = 178)

(a)



(b)


1
2
3
4
5
6
7
8
9
10
11
Post-KAS Donor Utilization Index
Pre-KAS Donor Utilization Index
0
50
100
150
200

Supplemental Figure 3. Box plot of donor utilization indexes for the pre-KAS and post-KAS cohort (n = 178), and full cohort (n = 181).