

## Supplemental Material Table of Contents

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**Supplemental Table 1.** Baseline characteristics of adult patients without ADPKD 2000-2018, by race and ethnicity

	All (N=1836245)	White (n=1040718)	Black (n=523318)	Hispanic (n=272209)
Age at kidney failure onset, years (SD)	64 (14)	67 (13)	60 (14)	61 (14)
BMI, kg/m <sup>2</sup> (SD)	29.1 (7.9)	29.1 (7.8)	29.6 (8.3)	28.6 (7.1)
Median Household Income for zipcode area (X \$1000) (SD)	49 (20)	53 (20)	42 (18)	43 (18)
eGFR, mL/min/1.73 m <sup>2</sup> (SD)	8.8 (3.8)	9.4 (3.8)	7.6 (3.6)	8.2 (3.8)
Hemoglobin g/dL	9.8 (1.7)	10.0 (1.7)	9.5 (1.7)	9.7 (1.7)
Albumin (mg/dL)	3.1 (0.7)	3.2 (0.7)	3.1 (0.7)	3.1 (0.7)
Female sex (%)	43	41	48	42
Nephrology care before kidney failure (%)	70	73	66	64
EPO (%)	29	31	26	26
Private Insurance (%)	22	24	22	15
Employment (%)				
6 months prior to kidney failure	16	14	18	16
At onset of kidney failure	10	10	11	9
First kidney failure treatment, n (%)				
Pre-emptive transplant	2	2	0.7	1
Hemodialysis	91	90	93	92
Peritoneal Dialysis	7	8	6	7
Comorbid conditions (%)				
Diabetes	48	46	53	42
Hypertension	86	83	90	88
Congestive heart failure	33	35	30	28
Stroke	9	10	10	8
Cancer	8	10	5	3

Abbreviations: standard deviation (SD); body mass index (BMI), estimated glomerular filtration rate (eGFR), erythropoietin (EPO). All variables are presented as mean (SD) unless otherwise stated. Missing data < 1% for all variables except: hemoglobin (12%), albumin (28%), eGFR (4%), nephrology care (36%), and EPO (21%)

**Supplemental Table 2a.** Transplantation (Tx) outcomes of ADPKD patients, by race and ethnicity prior to 2014 Kidney Allocation System (N=33124)

Median follow-up time: 32 (7,63) months

	All (N=33124)	White (n=25697)	Black (n=4398)	Hispanic (n=3029)	P-value
Wait-listed, n (%)	20060 (61)	15848 (62)	2296 (52)	1916 (63)	<0.001
Wait-listed prior to kidney failure, n (%)	10562 (32)	9277 (36)	789 (18)	586 (19)	<0.001
Transplant, all n, (%)	17435 (53)	14385 (56)	1589 (36)	1461 (48)	<0.001
Pre-emptive Transplant n,(%)	5219 (16)	4718 (19)	202 (5)	236 (8)	<0.001
Living donor (LD) Transplant, n (%)	7697 (24)	7144 (28)	349 (8)	474 (16)	<0.001
Pre-emptive LD Transplant, n (%)	3919 (12)	3614 (14)	126 (3)	179 (6)	<0.001
Kidney failure to waitlist, monthsmedian (IQR)	-1 (-9, 9)	-3 (-11, 5)	4 (-7, 14)	5 (-4, 14)	<0.001
Waitlist to Transplant, months median (IQR)	18 (7, 36)	16 (6, 33)	30 (12, 51)	26 (10, 51)	<0.001
Kidney failure to Transplant, months median (IQR)	12 (0, 36)	9 (0, 30)	35 (13, 60)	33 (9, 62)	<0.001

All variables presented as median with interquartile range (IQR) unless otherwise specified.

**Supplemental Table 2b.** Transplantation (Tx) outcomes of ADPKD patients, by race and ethnicity, after the 2014 Kidney Allocation System (N=8361)

Median follow-up time: 13 (3,25) months

	All (N=8361)	White (n=6368)	Black (n=1119)	Hispanic (n=874)	P-value
Wait-listed, n (%)	4708 (56)	3755 (59)	487 (44)	466 (53)	<0.001
Wait-listed prior to kidney failure, n (%)	3519 (42)	2952 (46)	301 (27)	266 (30)	<0.001
Transplant, all n (%)	2518 (30)	2203 (35)	139 (12)	176 (20)	<0.001
Pre-emptive Transplant, n (%)	1367 (16)	1228 (19)	64 (5)	75 (9)	<0.001
Living donor (LD) Transplant, n (%)	1655 (20)	1488 (23)	53 (5)	109 (12)	<0.001
Pre-emptive LD Transplant, n (%)	1053 (13)	965 (15)	32 (3)	56 (6)	<0.001
Kidney failure to waitlist, monthsmedian (IQR)	-9 (-18, -3)	-9 (-18, 3)	-8 (-18, -3)	-7 (-18, 0)	<0.001
Waitlist to Transplant, months median (IQR)	12 (6, 25)	12 (6, 25)	12 (6, 27)	12 (6, 27)	0.6
Kidney failure to Transplant, months median (IQR)	0 (0, 9)	0 (0, 9)	1 (0, 13)	4 (0, 16)	<0.001

All variables presented as median with interquartile range (IQR) unless otherwise specified.

<b>Supplemental Table 3. Racial and Ethnic Distribution of ADPKD patients, by ESRD Network, n (%)</b>				
<b>NETWORK</b>	<b>ALL N=41485</b>	<b>Black n=5517</b>	<b>Hispanic n=3903</b>	<b>White n=32065</b>
Network 1: New England	2211	148 (7)	110 (5)	1953 (88)
Network 2: New York	2782	440 (16)	293 (10)	2049 (74)
Network 3: Trans-Atlantic	1458	208 (14)	413 (28)	837 (58)
Network 4: Pennsylvania	2120	220 (10)	68 (3)	1832 (87)
Network 5: Mid Atlantic	2348	609 (26)	68 (3)	1671 (71)
Network 6: Southeastern Kidney Council	2986	799 (27)	46 (1)	2141 (72)
Network 7: Florida	2743	465 (17)	443 (16)	1835 (67)
Network 8: Mississippi	2061	426 (21)	18 (1)	1617 (78)
Network 9: Tri-state (IN)	3311	324 (10)	42 (1)	2945 (89)
Network 10: Illinois	1485	235 (16)	122 (8)	1128 (76)
Network 11: Upper Midwest (MN)	3823	335 (9)	70 (2)	3418 (89)
Network 12: Missouri	1876	134 (7)	68 (4)	1674 (89)
Network 13: Oklahoma	1515	320 (21)	26 (2)	1169 (77)
Network 14: Texas	2839	388 (14)	708 (25)	1743 (61)
Network 15: Inter-mountain (CO)	2146	94 (4)	322 (15)	1730 (81)
Network 16: Northwest (WA)	1893	56 (3)	88 (5)	1749 (92)
Network 17: Trans-Pacific (N-CA)	1562	107 (7)	285 (18)	1170 (75)
Network 18: Southern California	2326	209 (9)	713 (31)	1404 (60)

**Supplemental Table 4.** Transplant opportunities for Black and Hispanic patients with ADPKD, compared to White patients, by ESRD Network

NETWORK	Odds ratio (95% CI) for Pre-emptive transplant		Hazard Ratio (95% CI) for Transplant post-dialysis	
	Black	Hispanic	Black	Hispanic
Network 1: New England	0.45 (0.24-0.90)	0.35 (0.15-0.81)	0.64 (0.47-0.88)	0.83 (0.61-1.14)
Network 2: New York	0.28 (0.16-0.48)	0.93 (0.61-1.41)	0.56 (0.46-0.69)	0.90 (0.73-1.12)
Network 3: Trans-Atlantic	0.17 (0.06-0.43)	0.65 (0.37-1.12)	0.58 (0.43-0.77)	0.61 (0.46-0.82)
Network 4: Pennsylvania	0.43 (0.30-0.90)	0.36 (0.11-1.22)	0.76 (0.60-0.98)	0.73 (0.49-1.11)
Network 5: Mid Atlantic	0.26 (0.18-0.37)	0.29 (0.13-0.67)	0.51 (0.43-0.61)	0.65 (0.44-0.95)
Network 6: Southeastern Kidney Council	0.33 (0.22-0.50)	*	0.58 (0.49-0.68)	0.84 (0.52-1.35)
Network 7: Florida	0.45 (0.28-0.72)	0.48 (0.31-0.73)	0.62 (0.51-0.76)	0.83 (0.69-1.00)
Network 8: Mississippi	0.45 (0.26-0.79)	*	0.59 (0.47-0.74)	1.21 (0.60-2.45)
Network 9: Tri-state (IN)	0.45 (0.27-0.72)	0.94 (0.36-2.47)	0.61 (0.49-0.78)	0.81 (0.47-1.42)
Network 10: Illinois	0.30 (0.13-0.66)	0.76 (0.39-1.48)	0.60 (0.45-0.81)	0.82 (0.60-1.12)
Network 11: Upper Midwest (MN)	0.26 (0.24-0.55)	0.78 (0.41-1.46)	0.45 (0.36-0.58)	0.74 (0.49-1.10)
Network 12: Missouri	0.29 (0.11-0.75)	0.07 (0.01-0.52)	0.59 (0.43-0.82)	0.93 (0.66-1.32)
Network 13: Oklahoma	0.61 (0.33-1.14)	0.37 (0.05-2.95)	0.59 (0.43-0.78)	0.84 (0.43-1.63)
Network 14: Texas	0.31 (0.18-0.51)	0.73 (0.54-0.99)	0.75 (0.61-0.93)	0.95 (0.81-1.11)
Network 15: Inter-mountain (CO)	0.42 (0.19-0.94)	0.59 (0.39-0.90)	0.54 (0.37-0.79)	0.68 (0.54-0.84)
Network 16: Northwest (WA)	0.26 (0.06-1.10)	0.33 (0.12-0.95)	0.60 (0.37-0.96)	0.60 (0.41-0.88)
Network 17: Trans-Pacific (N-CA)	0.28 (0.11-0.70)	0.55 (0.35-0.88)	0.52 (0.35-0.77)	0.70 (0.56-0.88)
Network 18: Southern California	0.34 (0.16-0.71)	0.39 (0.26-0.59)	0.48 (0.35-0.66)	0.63 (0.53-0.76)

\*No pre-emptive transplants in network