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Supplemental Material 1. Discharge diagnoses and medical procedures indicative of pregnancy

Fetal Outcomes

Live Birth

ICD-9 diagnoses: 641.01, 641.11, 641.21, 641.31, 641.81, 641.91, 642.01, 642.02, 642.11, 642.12, 642.21, 642.22, 642.31, 642.32, 642.41, 642.42, 642.51, 642.52, 642.61, 642.62, 642.71, 642.72, 642.91, 642.92, 643.01, 643.11, 643.21, 643.81, 643.91, 644.2, 645.01, 645.11, 645.21, 646.11, 646.12, 646.21, 646.22, 646.31, 646.41, 646.42, 646.51, 646.52, 646.61, 646.62, 646.71, 646.81, 646.82, 646.91, 647.01, 647.02, 647.11, 647.12, 647.21, 647.22, 647.31, 647.32, 647.41, 647.42, 647.51, 647.52, 647.61, 647.62, 647.81, 647.82, 647.91, 647.92, 648.01, 648.02, 648.11, 648.12, 648.21, 648.22, 648.31, 648.32, 648.41, 648.42, 648.51, 648.52, 648.61, 648.62, 648.71, 648.72, 648.82, 648.91, 648.92, 650, 651.01, 651.11, 651.21, 651.31, 651.41, 651.51, 651.61, 651.81, 651.91, 652.01, 652.11, 652.21, 652.31, 652.41, 652.51, 652.61, 652.71, 652.81, 652.91, 653.01, 653.11, 653.21, 653.31, 653.41, 653.51, 653.61, 653.71, 653.81, 653.91, 654.01, 654.02, 654.11, 654.12, 654.21, 654.31, 654.32, 654.41, 654.42, 654.51, 654.52, 654.61, 654.62, 654.71, 654.72, 654.81, 654.82, 654.91, 654.92, 655.01, 655.11, 655.21, 655.31, 655.41, 655.51, 655.61, 655.71, 655.81, 655.91, 656.01, 656.11, 656.21, 656.31, 656.51, 656.61, 656.71, 656.81, 656.91, 657.01, 658.01, 658.11, 658.21, 658.3, 658.30, 658.31, 658.33, 658.41, 658.81, 658.91, 659.0, 659.00, 659.01, 659.03, 659.1, 659.10, 659.11, 659.13, 659.2, 659.20, 659.21, 659.23, 659.3, 659.30, 659.31, 659.33, 659.41, 659.51, 659.61, 659.71, 659.8, 659.80, 659.81, 659.83, 659.9, 659.90, 659.91, 659.93, 660, 660.0, 660.00, 660.01, 660.03, 660.1, 660.10, 660.11, 660.13, 660.2, 660.20, 660.21, 660.23, 660.3, 660.30, 660.31, 660.33, 660.4, 660.40, 660.41, 660.43, 660.5, 660.50, 660.51, 660.53, 660.6, 660.60, 660.61, 660.63, 660.7, 660.70, 660.71, 660.73, 660.8, 660.80, 660.81, 660.83, 660.9, 660.90, 660.91, 660.93, 661, 661.0, 661.00, 661.01, 661.03, 661.1, 661.10, 661.11, 661.13, 661.2, 661.20, 661.21, 661.23, 661.3, 661.30, 661.31, 661.33, 661.4, 661.40, 661.41, 661.43, 661.9, 661.90, 661.91, 661.93, 662, 662.0, 662.00, 662.01, 662.03, 662.1, 662.10, 662.11, 662.13, 662.2, 662.20, 662.21, 662.23, 662.3, 662.30, 662.31, 662.33, 663, 663.0, 663.00, 663.01, 663.03, 663.1, 663.10, 663.11, 663.13, 663.2, 663.20, 663.21, 663.23, 663.3, 663.30, 663.31, 663.33, 663.4, 663.40, 663.41, 663.43, 663.5, 663.50, 663.51, 663.53, 663.6, 663.60, 663.61, 663.63, 663.8, 663.80, 663.81, 663.83, 663.9, 663.90, 663.91, 663.93, 664, 664.0, 664.00, 664.01, 664.1, 664.10, 664.11, 664.2, 664.20, 664.21, 664.3, 664.30, 664.31, 664.4, 664.40, 664.41, 664.5, 664.50, 664.51, 664.8, 664.80, 664.81, 664.9, 664.90, 664.91, 665, 665.0, 665.00, 665.01, 665.03, 665.1, 665.10, 665.11, 665.2, 665.20, 665.22, 665.3, 665.30, 665.31, 665.4, 665.40, 665.41, 665.5, 665.50, 665.51, 665.6, 665.60, 665.61, 665.7, 665.70, 665.71, 665.72, 665.8, 665.80, 665.81, 665.82, 665.83, 665.9, 665.90, 665.91, 665.92, 665.93, 666, 666.0, 666.00, 666.02, 666.1, 666.10, 666.12, 667, 667.0, 667.00, 667.02, 667.1, 667.10, 667.12, 668, 668.0, 668.00, 668.01, 668.02, 668.03, 668.1, 668.10, 668.11, 668.12, 668.13, 668.2, 668.20, 668.21, 668.22, 668.23, 668.8, 668.80, 668.81, 668.82, 668.83, 668.9, 668.90, 668.91, 668.92, 668.93, 669, 669.0, 669.00, 669.01, 669.02, 669.03, 669.1, 669.10, 669.11, 669.12, 669.13, 669.2, 669.20, 669.21, 669.22, 669.23, 669.3, 669.30, 669.32, 669.4, 669.40, 669.41, 669.42, 669.43, 669.5, 669.50, 669.51, 669.6, 669.60,

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ICD-9 procedures: 72, 72.0, 72.1, 72.2, 72.2x, 72.3, 72.3x, 72.4, 72.5, 72.5x, 72.6, 72.7, 72.7x, 72.8, 72.9, 73.0, 73.0x, 73.1, 73.22, 73.3, 73.4, 73.5, 73.5x, 73.6, 73.8, 73.9, 73.9x, 74, 74.0-2, 74.4, 74.9, 74.99, 75.4, 75.5, 75.5x, 75.6, 75.6x, 75.8

CPT codes: 00850, 00857, 00946, 00955, 01960-3, 01967-9, 59414, 59510, 59514, 59610, 59612, 59618, 59620

DRG codes, v. 24*: 370-377

DRG codes, v. 25*: 765-9, 774-6

Still Birth

ICD-9 diagnoses: 646.01, 656.41, V27.1, V27.4, V27.7

Ectopic Pregnancies/ Trophoblastic Disease

ICD-9 procedures: 66.62, 69.11, 74.3

CPT codes: 59120-1, 59130, 59135-6, 59140, 59150-1, 59870

DRG codes, v. 24*: 378

DRG codes, v. 25*: 777

Spontaneous Abortions

ICD-9 diagnoses: 631, 632, 634, 634.0, 634.00, 634.01, 634.02, 634.1, 634.10, 634.11, 634.12, 634.2, 634.20, 634.21, 634.22, 634.3, 634.30, 634.31, 634.32, 634.4, 634.40, 634.41, 634.42, 634.5, 634.50, 634.51, 634.52, 634.6, 634.60, 634.61, 634.62, 634.7, 634.70, 634.71, 634.72, 634.8, 634.80, 634.81, 634.82, 634.9, 634.90, 634.91, 634.92, 637, 637.0, 637.00, 637.01, 637.02, 637.1, 637.10, 637.11, 637.12, 637.2, 637.20, 637.21, 637.22, 637.3, 637.30, 637.31, 637.32, 637.4, 637.40, 637.41, 637.42, 637.5, 637.50, 637.51, 637.52, 637.6, 637.60, 637.61, 637.62, 637.7, 637.70, 637.71, 637.72, 637.8, 637.80, 637.81, 637.82, 637.9, 637.90, 637.91, 637.92, 640.81, 640.91

CPT codes: 59812, 59820-1, 59830, 59840-1, 59850-2, 59855-7, 01964, 59100

DRG codes, v. 24* : 378, 380, 381

DRG codes, v. 25* : 777, 770, 779

Therapeutic Abortions

ICD-9 diagnoses: 635, 635.0, 635.00, 635.01, 635.02, 635.1, 635.10, 635.11, 635.12, 635.2, 635.20, 635.21, 635.22, 635.3, 635.30, 635.31, 635.32, 635.4, 635.40, 635.41, 635.42, 635.5, 635.50, 635.51, 635.52, 635.6, 635.60, 635.61, 635.62, 635.7, 635.70, 635.71, 635.72, 635.8, 635.80, 635.81, 635.82, 635.9, 635.90, 635.91, 635.92, 636, 636.0, 636.00, 636.01, 636.02, 636.1, 636.10, 636.11, 636.12, 636.2, 636.20, 636.21, 636.22, 636.3, 636.30, 636.31, 636.32, 636.4, 636.40, 636.41, 636.42, 636.5, 636.50, 636.51, 636.52, 636.6, 636.60, 636.61, 636.62, 636.7, 636.70, 636.71, 636.72, 636.8, 636.80, 636.81, 636.82, 636.9, 636.90, 636.91, 636.92

ICD-9 procedures: 69.01, 69.51, 74.91, 75.0

CPT codes: 59840-1, 59850-2, 59855-7

Unknown Outcome

ICD-9 diagnoses: 630, 633, 633.0, 633.1, 633.2, 633.8, 633.9, 638, 638.0, 638.1, 638.2, 638.3, 638.4, 638.5, 638.6, 638.7, 638.8, 638.9, 640, 640.0, 640.00, 640.01, 640.03, 640.8, 640.80, 640.83, 640.9, 640.90, 640.93, 641, 641.0, 641.00, 641.03, 641.1, 641.10, 641.13, 641.2, 641.20, 641.23, 641.3, 641.30, 641.33, 641.8, 641.80, 641.83, 641.9, 641.90, 641.93, 642, 642.0, 642.00, 642.03, 642.1, 642.10, 642.13, 642.2, 642.20, 642.23, 642.3, 642.30, 642.33, 642.4, 642.40, 642.43, 642.5, 642.50, 642.53, 642.6, 642.60, 642.63, 642.7, 642.70, 642.73, 642.9, 642.90, 642.93, 643, 643.0, 643.00, 643.03, 643.1, 643.10, 643.13, 643.2, 643.20, 643.23, 643.8, 643.80, 643.83, 643.9, 643.90, 643.93, 644, 644.0, 644.00, 644.03, 644.1, 644.10, 644.13, 644.20, 644.21, 645, 645.00, 645.03, 645.10, 645.13, 645.20, 645.23, 646, 646.0, 646.00, 646.03, 646.1, 646.10, 646.13, 646.2, 646.20, 646.23, 646.3, 646.30, 646.33, 646.4, 646.40, 646.43, 646.5, 646.50, 646.53, 646.6, 646.60, 646.63, 646.7, 646.70, 646.73, 646.8, 646.80, 646.83, 646.9, 646.90, 646.93, 647, 647.0, 647.00, 647.03, 647.1, 647.10, 647.13, 647.2, 647.20, 647.23, 647.3, 647.30, 647.33, 647.4, 647.40, 647.43, 647.5, 647.50, 647.53, 647.6, 647.60, 647.63, 647.8, 647.80, 647.83, 647.9, 647.90, 647.93, 648, 648.0, 648.00, 648.03, 648.1, 648.10, 648.13, 648.2, 648.20, 648.23, 648.3, 648.30, 648.33, 648.4, 648.40, 648.43, 648.44, 648.5, 648.50, 648.53, 648.6, 648.60, 648.63, 648.7, 648.70, 648.73, 648.8, 648.80, 648.81, 648.83, 648.9, 648.90, 648.93, 648.94, 651, 651.0, 651.00, 651.03, 651.1, 651.10, 651.13, 651.2, 651.20, 651.23, 651.3, 651.30, 651.33, 651.4, 651.40, 651.43, 651.5, 651.50, 651.53, 651.6, 651.60, 651.63, 651.8, 651.80, 651.83, 651.9, 651.90, 651.93, 652, 652.0, 652.00, 652.03, 652.1, 652.10, 652.13, 652.2, 652.20, 652.23, 652.3, 652.30, 652.33, 652.4, 652.40, 652.43, 652.5, 652.50, 652.53, 652.6, 652.60, 652.63, 652.7, 652.70, 652.73, 652.8, 652.80, 652.83, 652.9, 652.90, 652.93, 653, 653.0, 653.00, 653.03, 653.1, 653.10, 653.13, 653.2, 653.20, 653.23, 653.3, 653.30, 653.33, 653.4,

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Maternal Outcomes

Cesarean Section

ICD-9 procedures: 74.0, 74.1, 74.2, 74.4, 74.9, 74.99

ICD-9 diagnoses: 669.7, 669.70, 669.71

CPT codes: 595.10, 595.14, 595.15

DRG codes, v. 24*: 370, 371

DRG codes, v. 25*: 765, 766

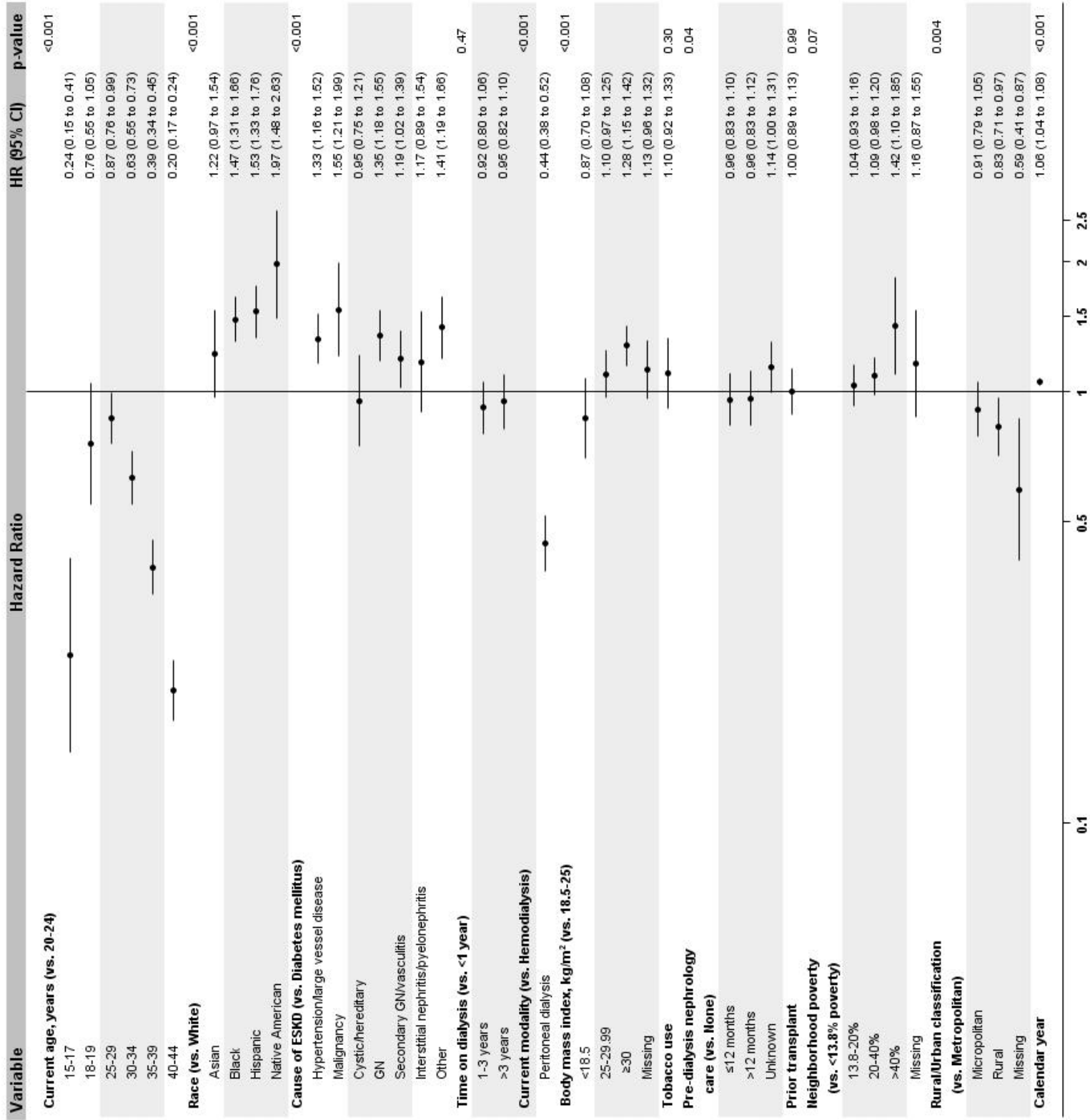
* DRG version 24 was in use from the beginning of the study through 9/30/2007. DRG version 25 was in use from 10/1/2007 through the end of the study.

Supplemental Table 1. Pregnancy rates in women with ESKD on dialysis

	Rate	Lower CI	Upper CI	N of Pregnancies	N of 1000PY
Overall	17.8	17.0	18.5	2352	132.5
Race					
Asian	15.8	12.7	19.5	88	5.6
Black	19.2	18.1	20.3	1275	66.5
Hispanic	22.2	20.2	24.3	451	20.3
Native American	23.2	17.5	30.2	55	2.4
White	12.8	11.7	14.0	483	37.7
Age (years)					
15-17	12.6	7.0	20.8	15	1.2
18-19	31.2	22.6	42.0	43	1.4
20-24	40.9	36.6	45.5	338	8.3
25-29	34.7	31.9	37.7	558	16.1
30-34	24.1	22.2	26.2	589	24.4
35-39	14.2	12.9	15.5	485	34.2
40-44	6.9	6.2	7.7	324	46.9
Cause of ESKD					
Diabetes mellitus	13.0	11.8	14.3	407	31.3
Hypertension/large vessel disease	17.9	16.4	19.6	487	27.2
Malignancy	20.2	16.3	24.7	92	4.6
Cystic/hereditary	13.3	10.7	16.4	91	6.8
Glomerulonephritis	21.0	19.3	22.7	605	28.8
Secondary GN/vasculitis	20.4	18.3	22.6	353	17.3
Interstitial nephritis/pyelonephritis	15.2	11.9	19.1	73	4.8
Others	20.9	18.4	23.7	244	11.7
Incident modality					
Hemodialysis	18.8	18.1	19.7	2104	111.7
Peritoneal dialysis	11.9	10.4	13.6	215	18.0
Other/missing	11.8	8.1	16.6	33	2.8
Current modality					
Hemodialysis	19.3	18.5	20.2	2160	111.8
Peritoneal dialysis	9.3	8.0	10.7	192	20.6
Time on dialysis (years)					
<1	23.7	21.6	26.1	436	18.4
1-3	19.4	18.0	20.9	708	36.5
>3	15.6	14.7	16.5	1208	77.6
Neighborhood poverty					

I (<13.8%)	16.3	15.3	17.4	1012	62.0
II (13.8-20%)	17.6	16.1	19.2	495	28.1
III (20-40%)	19.9	18.5	21.4	728	36.5
IV (>40%)	23.0	17.8	29.2	67	2.9
Unknown	17.5	13.0	23.0	50	2.9
Neighborhood rurality					
Metropolitan	18.6	17.8	19.5	1924	103.4
Micropolitan	15.6	13.6	17.9	216	13.8
Rural	14.1	12.1	16.3	182	12.9
Unknown	12.6	8.5	18.0	30	2.4
Prevalent year					
2005	17.8	15.6	20.2	243	13.7
2006	17.5	15.3	19.8	242	13.9
2007	18.9	16.7	21.3	267	14.1
2008	18.5	16.4	20.9	268	14.5
2009	20.5	18.3	23.0	300	14.6
2010	19.5	17.3	21.8	293	15.0
2011	16.4	14.5	18.6	252	15.4
2012	15.4	13.5	17.5	240	15.6
2013	15.7	13.8	17.8	247	15.7

*Rate reported per thousand person years



Supplemental Table 3. Rates by race of prior transplants and those censored due to transplant

Race	Prior transplant (%)	Censored due to transplant (%)
Asian	11.2	4.8
Black	10.7	2.1
Hispanic	12.7	4.0
Native American	9.6	2.0
White	24.8	5.2

Supplemental Table 4. Fetal and maternal outcomes by race and age

	Fetal Outcomes							Maternal Outcome
	Overall	Live Birth N (%)	Stillbirth N (%)	Spontaneous Abortion N (%)	Therapeutic Abortion N (%)	Ectopic N (%)	Unknown N (%)	Cesarean Sections N (% of deliveries)
Overall	2352	637 (27.1)	60 (2.6)	691 (29.4)	178 (7.6)	63 (2.7)	730 (31.0)	244 (35.4)
Race								
Asian	88	26 (29.5)	** (2.3)	23 (26.1)	12 (13.6)	** (3.4)	23 (26.1)	** (25.9)
Black	1275	326 (25.6)	32 (2.5)	392 (30.7)	93 (7.3)	46 (3.6)	389 (30.5)	123 (34.6)
Hispanic	451	137 (30.4)	15 (3.3)	123 (27.3)	39 (8.6)	** (1.8)	131 (29.0)	55 (36.7)
Native American	55	18 (32.7)	** (1.8)	17 (30.9)	** (5.5)	** (<1.0)	17 (30.9)	** (55.6)
White	483	130 (26.9)	** (2.1)	136 (28.2)	31 (6.4)	** (1.2)	170 (35.2)	49 (35.0)
Age (years)								
15-17	15	** (46.7)	** (<1.0)	** (33.3)	** (6.7)	** (<1.0)	** (13.3)	** (<1.0)
18-19	43	12 (27.9)	** (4.7)	** (23.3)	** (4.7)	** (2.3)	16 (37.2)	** (35.7)
20-24	338	96 (28.4)	** (2.4)	85 (25.1)	27 (8.0)	** (2.1)	116 (34.3)	41 (39.8)
25-29	558	140 (25.1)	22 (3.9)	166 (29.7)	50 (9.0)	11 (2.0)	171 (30.6)	70 (43.8)
30-34	589	179 (30.4)	20 (3.4)	176 (29.9)	51 (8.7)	22 (3.7)	142 (24.1)	82 (41.4)
35-39	485	126 (26.0)	** (1.4)	163 (33.6)	32 (6.6)	17 (3.5)	142 (29.3)	37 (28.2)
40-44	324	77 (23.8)	** (<1.0)	86 (26.5)	15 (4.6)	** (1.5)	141 (43.5)	** (11.7)

* for n ≤10

Supplemental Table 5. Adjusted logistic regression model showing factors associated with live births in patients with ESKD

Variable	Odds ratio (95% CI)	P Value
Age (years)		0.49
15-17	1.40 (0.48-4.07)	
18-19	0.79 (0.31-2.01)	
20-24	Reference	
25-29	0.73 (0.51-1.04)	
30-34	0.82 (0.58-1.16)	
35-39	0.71 (0.50-1.03)	
40-44	0.87 (0.57-1.34)	
Race		0.42
Asian	0.93 (0.52-1.66)	
Black	0.85 (0.63-1.14)	
Hispanic	1.08 (0.76-1.54)	
Native American	1.24 (0.60-2.57)	
White	Reference	
Cause of ESKD		0.75
Diabetes mellitus	Reference	
Hypertension/LVD	1.16 (0.82-1.64)	
Malignancy	0.85 (0.46-1.58)	
Cystic/hereditary	1.26 (0.72-2.21)	
GN/vasculitis	0.93 (0.66-1.31)	
Secondary GN	0.89 (0.61-1.28)	
Interstitial nephritis/pyelonephritis	1.21 (0.60-2.24)	
Other	0.98 (0.64-1.49)	
Dialysis modality		0.34
Hemodialysis	Reference	
Peritoneal dialysis	1.22 (0.82-1.81)	
Time on dialysis		0.97
<1 year	Reference	
1-3 years	1.02 (0.79-1.32)	
>3 years	1.03 (0.81-1.33)	
Neighborhood poverty		0.46
<13.8%	Reference	
13.8-20%	0.80 (0.60-1.07)	
20-40%	0.95 (0.73-1.22)	
>40%	0.66 (0.36-1.23)	
Missing	0.94 (0.49-1.80)	
Neighborhood rurality		0.04
Metropolitan	Reference	
Micropolitan	0.85 (0.63-1.14)	
Rural	1.08 (0.76-1.54)	
Missing	0.93 (0.52-1.66)	