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Supplemental Tables

Supplemental Table 1. Comparison of measures of nephron size in three cortical depths.

	Cortical Depths			P value
	Superficial	Middle	Deep	
Glomerular volume, mm ³	0.0025 (0.0011)	0.0032 (0.0012)	0.0029 (0.0011)	<0.0001
Proximal tubular diameter, μ m	54.2 (6.4)	58.1 (6.6)	56.6 (6.5)	<0.0001
Distal tubular diameter, μ m	43.1 (4.4)	46.9 (4.7)	47.2 (5.0)	<0.0001

Data are presented as Mean (SD).

Supplemental Table 2. Spearman correlations of diameters of proximal and distal tubules and glomerular volume by cortex depth.

	Mean Proximal Tubular Diameter						Mean Distal Tubular Diameter					
	Superficial Cortex		Middle Cortex		Deep Cortex		Superficial Cortex		Middle Cortex		Deep Cortex	
	R_s	P Value	R_s	P Value	R_s	P Value	R_s	P Value	R_s	P Value	R_s	P Value
Glomerular volume												
Superficial Cortex	0.49	<0.0001	0.44	<0.0001	0.38	<0.0001	0.43	<0.0001	0.37	<0.0001	0.33	<0.0001
Middle Cortex	0.49	<0.0001	0.53	<0.0001	0.47	<0.0001	0.43	<0.0001	0.43	<0.0001	0.39	<0.0001
Deep Cortex	0.40	<0.0001	0.44	<0.0001	0.48	<0.0001	0.33	<0.0001	0.36	<0.0001	0.40	<0.0001

Supplemental Table 3. Measures of nephron size (using glomerular diameter rather than volume) as predictors of progressive CKD from 4 months following a radical nephrectomy. There were 62 events.

Predictor (per SD)	Unadjusted		Glomerular diameter and proximal tubular diameter (Model 2)		Glomerular diameter and distal tubular diameter (Model 3)		Model 3 further adjusted for clinical characteristics*	
	HR (95% CI)	P value	HR (95% CI)	P value	HR (95% CI)	P value	HR (95% CI)	P value
Superficial depth								
Glomerular diameter	2.00 (1.63, 2.46)	<0.0001	1.87 (1.44, 2.42)	<0.0001	1.46 (1.14, 1.87)	0.002	1.31 (1.00, 1.72)	0.047
Proximal tubular diameter	1.63 (1.30, 2.04)	<0.0001	1.13 (0.85, 1.50)	0.39	---	---	---	---
Distal tubular diameter	2.25 (1.83, 2.78)	<0.0001	---	---	1.87 (1.46, 2.39)	<0.0001	1.78 (1.36, 2.32)	<0.0001
Middle depth								
Glomerular diameter	2.07 (1.67, 2.57)	<0.0001	2.36 (1.78, 3.13)	<0.0001	1.75 (1.36, 2.25)	<0.0001	1.65 (1.23, 2.21)	0.0008
Proximal tubular diameter	1.31 (1.04, 1.66)	0.02	0.80 (0.59, 1.08)	0.14	---	---	---	---
Distal tubular diameter	1.82 (1.48, 2.24)	<0.0001	---	---	1.41 (1.10, 1.82)	0.007	1.31 (1.01, 1.71)	0.04
Deep depth								
Glomerular diameter	2.01 (1.64, 2.47)	<0.0001	1.93 (1.51, 2.48)	<0.0001	1.88 (1.49, 2.37)	<0.0001	1.67 (1.32, 2.13)	<0.0001
Proximal tubular diameter	1.54 (1.23, 1.94)	0.0002	1.09 (0.82, 1.44)	0.56	---	---	---	---
Distal tubular diameter	1.60 (1.25, 2.04)	0.0002	---	---	1.19 (0.91, 1.57)	0.20	1.13 (0.85, 1.50)	0.41

*Adjusted for age, sex, BMI, hypertension, diabetes, postnephrectomy baseline eGFR and proteinuria.