SUPPLEMENTAL MATERIAL

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Supplemental Table 1: Correlation coefficients between immunosuppressive medication use, UPCR, eGFR at biopsy and electron microscopy (EM) descriptors. Correlation coefficients with p-values < 0.05 are bolded.

	On Immunosuppressive Medications at Biopsy	UPCR at Biopsy	eGFR at Biopsy
Clinical measures			
On Immunosuppressive Medications at Biopsy	1.00		
UPCR at Biopsy	**0.20**	1.00	
eGFR at Biopsy	**0.37**	0.09	1.00
EM descriptors			
Foot Process Effacement	0.05	**0.30**	-0.01
Loss of Primary Processes	-0.07	0.08	**-0.18**
Condensation of Cytoskeleton	-0.03	**0.19**	-0.03
Podocyte Detachment	-0.10	-0.02	**-0.16**
Microvillous Transformation	**0.25**	**0.30**	0.05
Increased Thickening of GBM	**-0.14**	-0.06	**-0.26**
Increased Thinning of GBM	**-0.13**	0.04	-0.06
Tubuloreticular Inclusions	-0.05	0.02	-0.12
GBM Abnormal Texture	-0.11	-0.04	-0.05
Loss of Endothelial Cell Fenestration	-0.01	0.06	-0.02
Absence of Endothelial Cell Honeycombing	-0.10	-0.06	-0.06
Electron Densities/Hyaline Material	-0.12	-0.05	**-0.17**

UPCR, urinary protein/creatinine ratio; eGFR, estimated glomerular filtration rate

Supplemental Table 2: Associations between clusters and clinical outcomes (>=40% decline in eGFR with eGFR < 60 or ESRD and complete proteinuria remission) from Cox models

	Composite (>=40% decline in eGFR with eGFR<60 or ESRD)		Complete Proteinuria Remission			
	Model 1 (unadjusted)		Model 1 (unadjusted)		Model 2 (adjusted)	
	HR (95% CI)	p-value	HR (95% CI)	p-value	HR (95% CI)	p-value
Clusters		0.0807		<.0001		0.1917
1: fewer changes (reference)						
2: thin GBM	1.39 (0.36, 5.39)	0.6307	1.43 (0.58, 3.51)	0.4334	1.11 (0.39, 3.15)	0.8514
3: classic MCD	0.16 (0.03, 0.76)	0.0215	2.87 (1.62, 5.09)	0.0003	1.99 (1.00, 3.93)	0.0491
4: abnormal GBM texture	0.51 (0.11, 2.46)	0.4015	1.42 (0.66, 3.03)	0.3683	1.45 (0.63, 3.34)	0.3869
5: thick GBM	1.25 (0.44, 3.56)	0.6787	1.26 (0.64, 2.47)	0.5102	1.21 (0.58, 2.55)	0.6092
6: endothelial cell changes	1.83 (0.53, 6.26)	0.3363	0.63 (0.23, 1.74)	0.3714	0.66 (0.23, 1.88)	0.4332

Model 2 adjusted for disease cohort (FSGS vs. MCD/MCD-Like), patient age, sex, black race, Hispanic ethnicity, eGFR and UPCR at biopsy, and immunosuppressant use at biopsy.
eGFR, estimated glomerular filtration rate; ESRD, end-stage renal disease; UPCR, urinary protein/creatinine ratio; GBM, glomerular basement membrane; MCD, minimal change disease