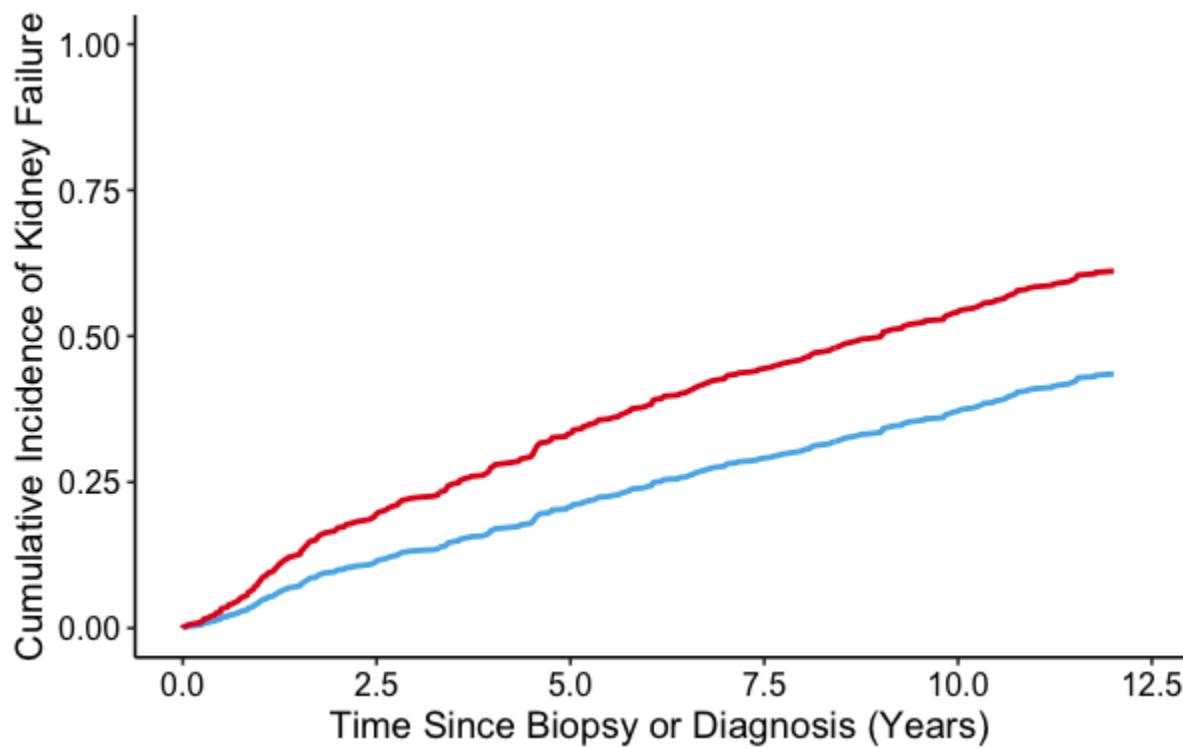
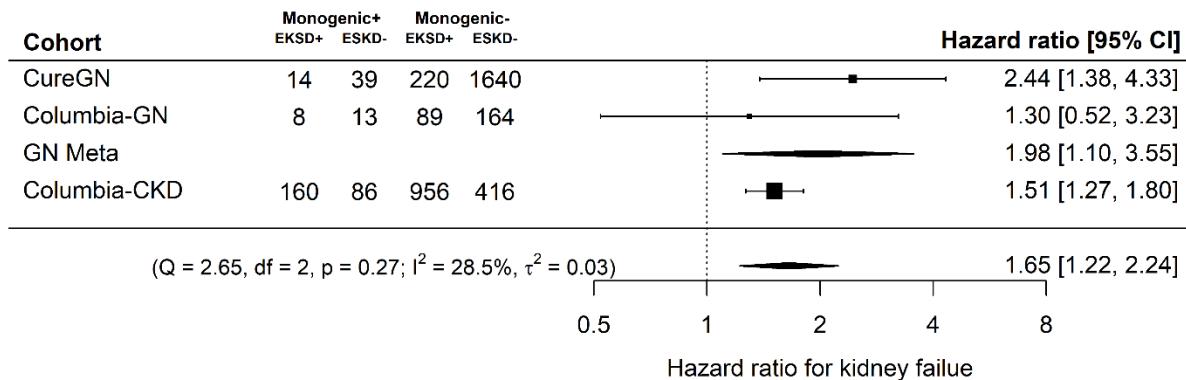


Supplementary Files:

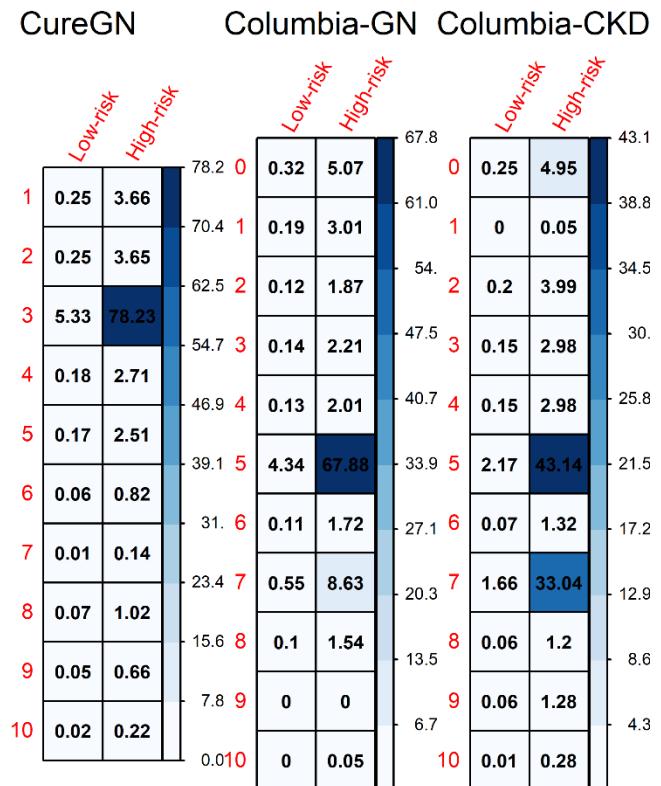
Supplementary Figure 1. Conditionally adjusted event curves showing kidney failure rates based on monogenic kidney disorders in the Columbia-GN cohort presented at the same time scale as the CureGN cohort.



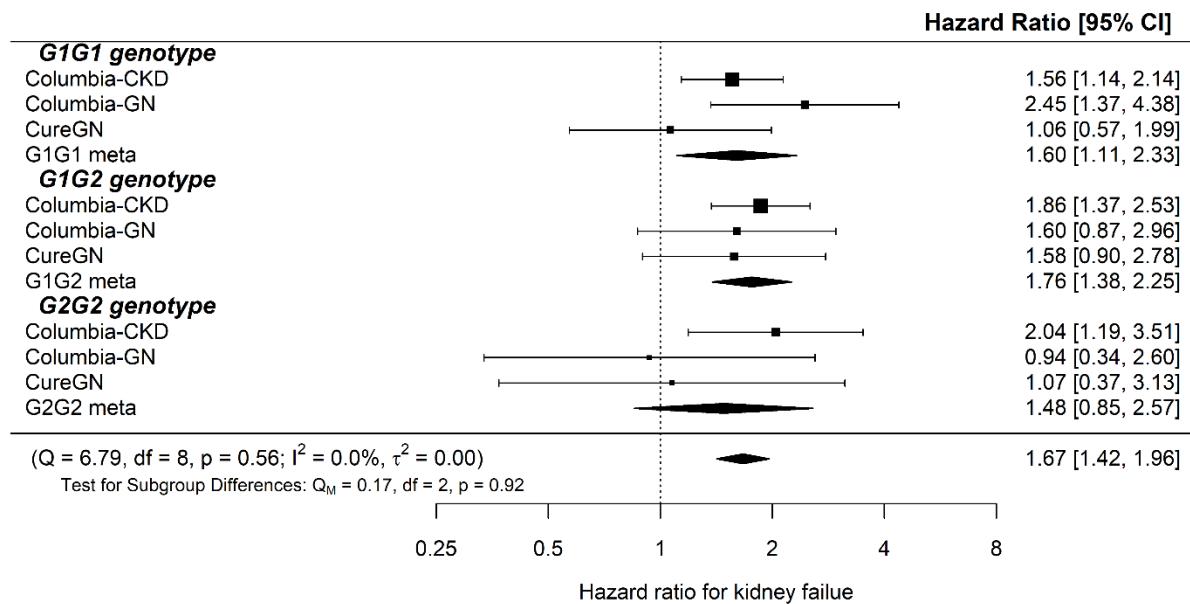
Supplementary Figure 2. Sensitivity analysis: restricted maximum likelihood random-effects meta-analysis of kidney failure risk across all three cohorts evaluating the effect of monogenic glomerular disorders using the fully adjusted Cox models and the use of the complete case analyses of Columbia-GN and Columbia-CKD that include eGFR and UACR values. Sub-analysis of genetic glomerular disorders within CureGN and Columbia-GN is also included.



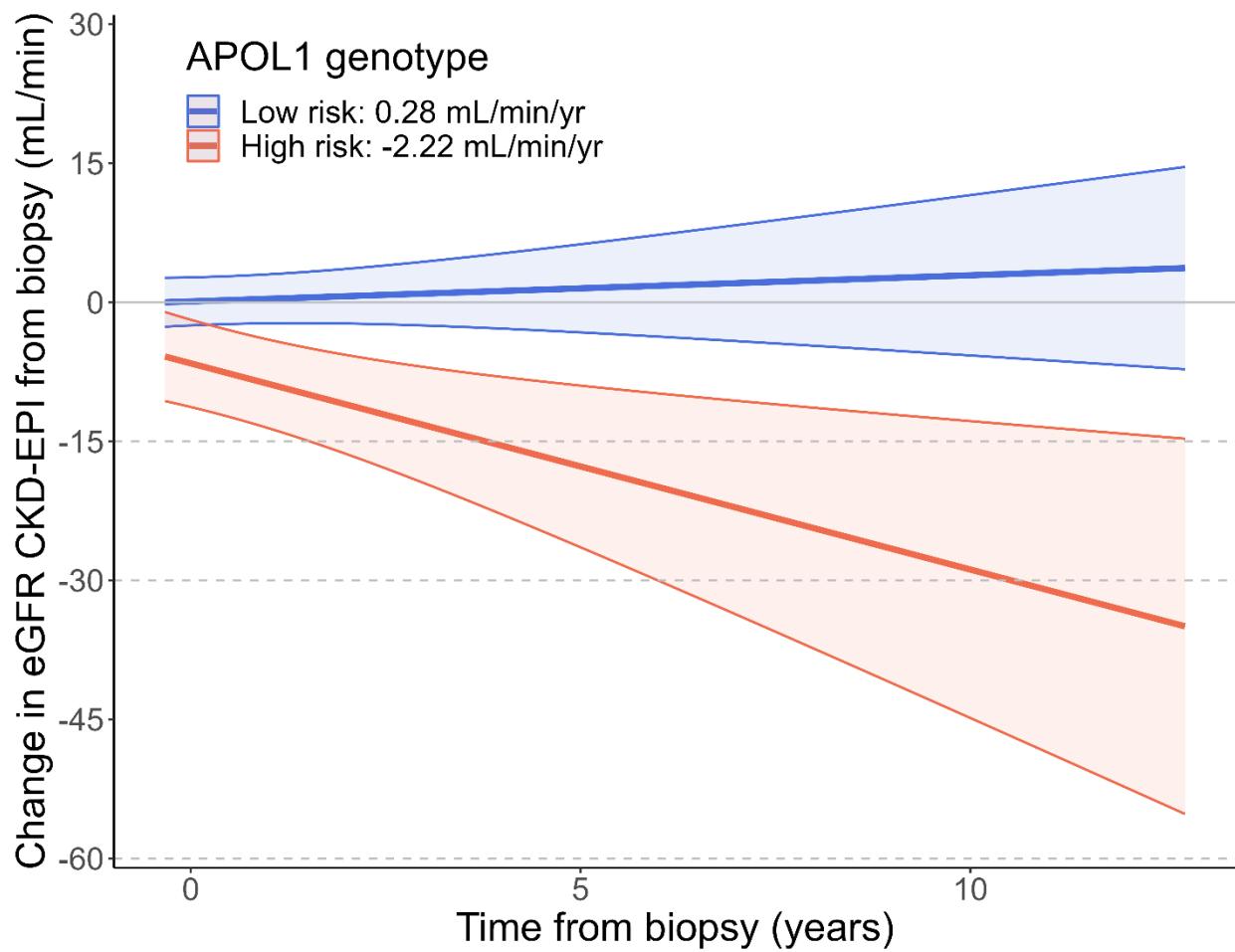
Supplementary Figure 3. Correlation plots between *APOL1* kidney risk genotype (x-axis) and genetic ancestry clusters (y-axis) using chi-squared tests across the 3 studies. Higher values show higher correlation strength.



Supplementary Figure 4. Restricted maximum likelihood random-effects meta-analysis of kidney failure risk in the CureGN, Columbia-GN and Columbia-CKD cohorts based on specific *APOL1* kidney risk genotypes using the fully adjusted Cox models.



Supplementary Figure 5. Rate of eGFR decline in CureGN based on *APOL1* kidney risk genotype from time of kidney biopsy.



Supplementary Table 5. Predictors of monogenic kidney disorders and high-risk *APOL1* genotypes across all three cohorts.

	Adjusted OR Monogenic HR (95% CI), P	Adjusted OR APOL1 HR (95% CI), P
CureGN (n = 1913)		
Family History	2.80 (1.57 - 4.98), 4.61×10^{-4}	1.51 (0.91 - 2.49), 0.11
Age at biopsy	1.00 (0.999 - 1.00), 0.79	1.00 (0.999 - 1.001), 0.86
Pathology Diagnosis		
MCD	Ref	Ref
FSGS	2.78 (1.35 - 5.74), 5.61×10^{-3}	8.86 (4.29 - 18.29), 4.19×10^{-9}
MN	0.18 (0.04 - 0.84), 0.029	0.88 (0.33 - 2.30), 0.79
IgAN	0.45 (0.17 - 1.18), 0.10	1.67 (0.59 - 4.73), 0.33
Race		
White	Ref	Ref
Asian	0.42 (0.10 - 1.80), 0.24	-
Black/African American	0.28 (0.10 - 0.81), 0.019	167 (64 - 432), 3.49×10^{-25}
Native American	1.46 (0.17 - 12.81), 0.73	11.9 (1.18 - 119), 0.036
Pacific Islander	4.80 (0.46 - 50.57), 0.19	364 (46 - 2892), 2.70×10^{-8}
Multiracial	0.51 (0.07 - 3.89), 0.51	28.5 (7.50 - 109), 9.62×10^{-7}
Unknown	2.37 (0.74 - 7.60), 0.15	3.37 (0.56 - 20.3), 0.18
Ethnicity		
Not Hispanic/Latinx	Ref	Ref
Hispanic/Latinx	1.10 (0.46 - 2.62), 0.83	2.46 (1.01 - 5.95), 0.047
Columbia-GN (n = 1098)		
Family History	1.69 (0.85 - 3.37), 0.14	0.91 (0.46 - 1.79), 0.78
Age at biopsy	1.00 (1.00 - 1.00), 0.84	1.00 (1.00 - 1.00), 0.98
Pathology Diagnosis		
MCD	Ref	Ref
FSGS	-	5.27 (1.15 - 24.23), 0.033
MN	-	0.56 (0.09 - 3.54), 0.54
IgAN	-	0.42 (0.07 - 2.34), 0.32
Race		
White	Ref	Ref
Asian	1.32 (0.41 - 4.25), 0.64	-
Black/African American	0.67 (0.21 - 2.10), 0.49	28.88 (13.31 - 62.66), $<2 \times 10^{-16}$
Multiracial	0 (0 - 0), 1.00	-
Unknown	0.34 (0.04 - 2.73), 0.31	1.36 (0.40 - 4.64), 0.62
Ethnicity		
Not Hispanic/Latinx	Ref	Ref
Hispanic/Latinx	1.31 (0.56 - 3.07), 0.53	6.03 (2.66 - 13.69), 1.70×10^{-5}
Columbia-CKD (n = 2716)		
Family History	3.59 (2.73 - 4.71), $<2 \times 10^{-16}$	1.28 (0.86 - 1.90), 0.23
Kidney Diagnosis		
Diabetic kidney disease	Ref	Ref
Congenital or Mendelian	6.97 (3.34 - 14.58), 2.43×10^{-7}	0.45 (0.20 - 1.01), 0.052
Glomerular	3.81 (1.80 - 8.09), 4.89×10^{-4}	0.80 (0.41 - 1.58), 0.53
Hypertension	1.02 (0.34 - 2.99), 0.98	2.14 (1.11 - 4.14), 0.024
Tubulointerstitial	3.91 (1.43 - 10.68), 7.77×10^{-3}	0.72 (0.15 - 3.40), 0.68
CKD of unknown cause	3.64 (1.67 - 7.93), 1.17×10^{-3}	1.99 (1.04 - 3.80), 0.038
Other	1.52 (0.57 - 4.05), 0.40	1.21 (0.53 - 2.77), 0.66
Race		
White	Ref	Ref
Asian	0.69 (0.40 - 1.20), 0.19	0.32 (0.04 - 2.40), 0.27
Black/African American	0.75 (0.48 - 1.17)	16.92 (10.57 - 27.09), $<2 \times 10^{-16}$
Multiracial	-	-
Native American	-	-
Unknown	0.75 (0.46 - 1.24), 0.26	1.26 (0.55 - 2.86), 0.58
Ethnicity		
Not Hispanic/Latinx	Ref	Ref
Hispanic/Latinx	0.72 (0.50 - 1.04), 0.08	1.83 (1.13 - 2.96), 0.014

Supplementary Table 6. Matching adjusted and complete case including UACR and eGFR cox proportional hazard models of kidney failure risk in the Columbia cohorts.

Columbia-GN	HR for Kidney Failure			HR for Kidney Failure		
	Matching Adjusted (n = 1098)			Fully Adjusted, Complete Case (n=274)		
	HR	(95%CI)	P	HR	(95%CI)	P
Monogenic Glomerular Disorder	1.84	(1.05 to 3.23)	3.32E-01	1.30	(0.52 to 3.23)	5.75E-01
<i>APOL1</i> high-risk genotype	1.72	(1.10 to 2.70)	1.80E-02	1.00	(0.41 to 2.46)	9.98E-01
Pathology Diagnosis:						
FSGS	8.21	(3.29 to 20.49)	6.39E-06	7.60	(0.96 to 59.93)	5.43E-01
MIN	3.84	(1.49 to 9.90)	5.43E-03	2.55	(0.31 to 21.06)	3.85E-01
IgAN	10.00	(4.06 to 24.62)	5.43E-07	3.97	(0.50 to 31.78)	1.94E-01
Female Sex	0.98	(0.79 to 1.21)	8.30E-01	0.82	(0.52 to 1.28)	3.86E-01
Hypertension at biopsy	1.23	(0.99 to 1.52)	5.90E-02	1.55	(0.94 to 2.55)	8.91E-02
Diabetes at biopsy	0.90	(0.60 to 1.33)	5.90E-02	1.19	(0.55 to 2.58)	6.65E-01
RAAS inhibitor use at enrollment	0.75	(0.56 to 1.00)	5.20E-02	0.87	(0.48 to 1.59)	6.60E-01
Age at biopsy (Day)	1.00003	(1.00 to 1.00)	5.66E-04	0.9999	(0.9999 to 1.00)	1.24E-05
Immunosuppressive use at biopsy	3.33	(2.50 to 4.44)	<2E-16	0.87	(0.93 to 3.24)	8.15E-02
eGFR at biopsy	NA	NA	NA	0.95	(0.94 to 0.96)	<2E-16
UPCR at biopsy	NA	NA	NA	1	(0.9999 to 1.0002)	6.12E-01
Genetic Ancestry Cluster						
cluster1	1.34	(0.95 to 1.87)	9.28E-02	1.34	(0.63 to 2.85)	4.53E-01
cluster2	1.12	(0.75 to 1.68)	5.72E-01	1.11	(0.41 to 3.03)	8.41E-01
cluster3	1.28	(0.86 to 1.89)	2.17E-01	2.66	(1.07 to 6.64)	3.58E-02
cluster4	1.15	(0.76 to 1.75)	5.13E-01	0.69	(0.25 to 1.87)	4.67E-01
cluster5	1.89	(1.16 to 3.09)	1.06E-02	2.04	(0.70 to 5.97)	1.91E-01
cluster6	0.98	(0.65 to 1.48)	9.28E-01	1.67	(0.70 to 3.95)	2.46E-01
cluster7	1.41	(0.80 to 2.49)	2.38E-01	1.3	(0.38 to 4.42)	6.72E-01
cluster8	1.69	(1.10 to 2.61)	1.75E-02	4.15	(1.55 to 11.10)	4.55E-03
cluster9	2.06	(1.26 to 3.36)	4.00E-03	1.04	(0.37 to 2.96)	9.42E-01
cluster10	-	-	-	-	-	-
Columbia-CKD	HR for Kidney Failure			HR for Kidney Failure		
	Matching Adjusted (n = 2716)			Fully Adjusted, Complete Case (n=1618)		
	HR	(95%CI)	P	HR	(95%CI)	P
Monogenic Glomerular Disorder	1.59	(1.35 to 1.87)	2.06E-08	1.51	(1.27 to 1.80)	4.10E-06
<i>APOL1</i> high-risk genotype	1.74	(1.39 to 2.18)	1.01E-06	1.48	(1.15 to 1.91)	2.51E-03
Female Sex	0.87	(0.79 to 0.97)	1.30E-02	1.07	(0.95 to 1.21)	2.65E-01
Hypertension at biopsy	0.88	(0.78 to 0.98)	2.10E-02	0.81	(0.71 to 0.93)	2.27E-03
Diabetes at biopsy	0.75	(0.65 to 0.87)	1.52E-04	0.85	(0.71 to 1.01)	7.14E-02
RAAS inhibitor use at enrollment	0.45	(0.28 to 0.74)	1.56E-03	0.32	(0.15 to 0.68)	2.84E-03
Immunosuppressive use	0.91	(0.56 to 1.49)	7.20E-01	1.45	(0.77 to 2.71)	2.49E-01
eGFR at biopsy	NA	NA	NA	0.99	(0.99 to 0.99)	<2E-16
UPCR at biopsy	NA	NA	NA	1.0001	(1.00 to 1.00)	1.55E-05
Genetic Ancestry Cluster						
cluster1	1.33	(1.12 to 1.57)	1.04E-03	1.22	(1.00 to 1.49)	4.58E-02
cluster2	0.6	(0.49 to 0.73)	6.14E-07	0.59	(0.46 to 0.75)	1.35E-05
cluster3	1.07	(0.87 to 1.32)	5.00E-01	0.93	(0.73 to 1.19)	5.54E-01
cluster4	0.87	(0.71 to 1.08)	2.07E-01	0.81	(0.63 to 1.04)	9.75E-02
cluster5	1.32	(1.07 to 1.62)	9.93E-03	1.01	(0.79 to 1.28)	9.52E-01
cluster6	1.12	(0.86 to 1.47)	3.93E-01	1.03	(0.77 to 1.39)	8.35E-01
cluster7	1.28	(1.01 to 1.62)	4.51E-02	1.05	(0.79 to 1.34)	7.56E-01
cluster8	1.24	(0.92 to 1.68)	1.61E-01	1.01	(0.70 to 1.46)	9.57E-01
cluster9	1.88	(1.41 to 2.51)	1.96E-05	1.69	(1.21 to 2.37)	2.25E-03
cluster10	0.97	(0.48 to 1.98)	9.40E-01	0.999	(0.49 to 2.04)	9.97E-01

Supplementary Table 7. Risk of kidney failure within specific glomerular subgroups of CureGN and Columbia-GN, including unadjusted, and fully adjusted Cox proportional hazard models based on monogenic glomerular disorders and *APOL1* kidney risk genotype.

	Unadjusted HR HR (95% CI), P	Full Adjusted HR HR (95% CI), P
CureGN (n = 1913)		
MCD (n = 421)		
Monogenic Disorder	3.54 (0.76 - 16.56), 0.10	4.47 (0.76 - 26.37), 0.08
<i>APOL1</i> high-risk genotype	2.94 (0.63 - 13.79), 0.16	1.29 (0.12 - 13.91), 0.81
FSGS (n = 490)		
Monogenic Disorder	1.23 (0.59 - 2.56), 0.57	1.81 (0.83 - 3.94), 0.13
<i>APOL1</i> high-risk genotype	2.12 (1.39 - 3.25), 6.72×10^{-4}	1.32 (0.69 - 2.55), 0.40
MN (n = 462)		
Monogenic Disorder	NA	NA
<i>APOL1</i> high-risk genotype	11.20 (4.46 - 28.15), 7.79×10^{-6}	12.78 (2.51 - 65.18), 6.22×10^{-4}
IgAN (n = 542)		
Monogenic Disorder	5.96 (2.13 - 16.67), 9.36×10^{-4}	4.84 (1.27 - 18.56), 0.022
<i>APOL1</i> high-risk genotype	2.25 (0.54 - 9.41), 0.26	0.51 (0.09 - 2.91), 0.44
Columbia-GN (n = 1098)		
MCD (n = 84)		
Monogenic Disorder	NA	NA
<i>APOL1</i> high-risk genotype	5.98 (0.66 - 54.17), 0.11	NA
FSGS (n = 289)		
Monogenic Disorder	1.45 (0.84 - 2.49), 0.18	1.89 (1.02 - 3.49), 0.043
<i>APOL1</i> high-risk genotype	1.57 (1.04 - 2.36), 0.032	1.38 (0.77 - 2.49), 0.28
MN (n = 176)		
Monogenic Disorder	NA	NA
<i>APOL1</i> high-risk genotype	3.52 (0.83 - 14.82), 0.087	2.23 (0.26 - 19.27), 0.40
IgAN (n = 549)		
Monogenic Disorder	NA	NA
<i>APOL1</i> high-risk genotype	8.35 (3.39 - 20.58), 4.01×10^{-6}	7.31 (2.53 - 21.15), 2.42×10^{-4}

Supplementary Table 8. Risk of not achieving complete remission within the CureGN cohort based on monogenic kidney disorder and *APOL1* kidney risk genotype. Adjusted for age at biopsy, sex, primary diagnosis, *APOL1* kidney risk genotype, hypertension, diabetes, eGFR, UPCR, use of immunosuppression at time of biopsy, genetic ancestry cluster, and use of RAAS inhibitor at enrollment.

	Unadjusted OR OR (95%CI) P	Adjusted OR OR (95%CI) P
Monogenic Glomerular Disorder	4.72 (2.49 - 8.92), 1.89×10^{-6}	5.25 (2.56 - 10.77), 6.31×10^{-6}
High-risk <i>APOL1</i> Genotypes	2.76 (1.85 - 4.11), 6.41×10^{-7}	1.36 (0.79 - 2.31), 0.27

Supplementary Table 10. Personal and family histories of ACMG V3.1 Secondary Findings associated conditions in CureGN subjects with ACMG secondary findings. Associations evaluated using logistic regression. American College of Medical Genetics (ACMG)

ACGM SF Category	Personal History of Complication			Family History of Complication		
	n (%)	P	n (%)	P		
Cancer	0/21	0%	0.99	7/21	33%	0.98
<i>BRCA1/2</i> in females	0/5	0%	0.99	2/5	40%	0.75
Cardiovascular						
Aortopathy	0/6	0%	0.99	NA	NA	NA
Arrhythmia	3/18	17%	0.100	NA	NA	NA
Cardiomyopathy	0/23	0%	0.98	NA	NA	NA
Hypercholesterolemia	0/20	0%	0.98	9/20	45%	0.15
<i>HNF1A</i> and DM	0/5	0%	0.98	1/5	20%	0.60

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