

Supplemental Table 1. Histology Diagnoses, proposed histology categories, HIV status, number of risk alleles and *APOL1* genotypes

	Study IDs.	Diagnosis	HIV status	Proposed categories	rs71785313	rs60910145	rs73885319	No. of risk alleles	Genotypes
1	HIVAN	HIVAN	Positive	HIVAN	DI	GT	AG	2	G1/G2
2	HIVAN	HIVAN	Positive	HIVAN	II	GG	GG	2	G1/G1
3	HIVAN	HIVAN	Positive	HIVAN	DI	GT	AG	2	G1/G2
4	HIVAN	HIVAN	Positive	HIVAN	II	TT	AG	1	G0/G1a
5	HIVAN	HIVAN	Positive	HIVAN	II	GG	GG	2	G1/G1
6	HIVAN	HIVAN	Positive	HIVAN	DI	GT	AG	2	G1/G2
7	HIVAN	HIVAN	Positive	HIVAN	II	GG	GG	2	G1/G1
8	HIVAN	HIVAN	Positive	HIVAN	II	GT	AG	1	G0/G1
9	HIVAN	HIVAN	Positive	HIVAN	DI	GT	AG	2	G1/G2
10	HIVAN	HIVAN	Positive	HIVAN	DI	GT	AG	2	G1/G2
11	HIVAN	HIVAN	Positive	HIVAN	DI	GT	AG	2	G1/G2
12	HIVAN	HIVAN	Positive	HIVAN	II	GG	GG	2	G1/G1
13	HIVAN	HIVAN	Positive	HIVAN	DI	TT	AA	1	G0/G2
14	HIVAN	HIVAN	Positive	HIVAN	II	GT	AG	1	G0/G1
15	HIVAN	HIVAN	Positive	HIVAN	DD	TT	AA	2	G2/G2
16	HIVAN	HIVAN	Positive	HIVAN	II	GG	GG	2	G1/G1
17	HIVAN	HIVAN	Positive	HIVAN	DI	GT	AG	2	G1/G2
18	HIVAN	HIVAN	Positive	HIVAN	DI	GT	AG	2	G1/G2
19	HIVAN	HIVAN	Positive	HIVAN	DI	GT	AG	2	G1/G2
20	HIVAN	HIVAN	Positive	HIVAN	DI	GT	AG	2	G1/G2

21	HIVAN	HIVAN	Positive	HIVAN	DI	GT	AG	2	G1/G2
22	HIVAN	HIVAN	Positive	HIVAN	II	GG	GG	2	G1/G1
23	HIVAN	HIVAN	Positive	HIVAN	II	TT	AA	0	G0/G0
24	HIVAN	HIVAN	Positive	HIVAN	II	GT	AG	1	G0/G1
25	HIVAN	HIVAN	Positive	HIVAN	DI	GT	AG	2	G1/G2
26	HIVAN	HIVAN	Positive	HIVAN	DI	GT	AG	2	G1/G2
27	HIVAN	HIVAN	Positive	HIVAN	II	GG	GG	2	G1/G1
28	HIVAN	HIVAN	Positive	HIVAN	II	GT	GG	2	G1/G1a
29	HIVAN	HIVAN	Positive	HIVAN	II	TT	AA	0	G0/G0
30	HIVAN	HIVAN	Positive	HIVAN	DD	TT	AA	2	G2/G2
31	HIVAN	HIVAN	Positive	HIVAN	II	GT	AG	1	G0/G1
32	HIVAN	HIVAN	Positive	HIVAN	DI	GT	AG	2	G1/G2
33	HIVAN	HIVAN	Positive	HIVAN	NA	GT	AG	NA	NA
34	HIVAN	HIVAN	Positive	HIVAN	DI	TT	AG	2	G1a/G2
35	HIVAN	HIVAN	Positive	HIVAN	DI	GT	AG	2	G1/G2
36	HIVAN	HIVAN	Positive	HIVAN	DI	GT	AG	2	G1/G2
37	HIVAN	HIVAN	Positive	HIVAN	DI	GT	AG	2	G1/G2
38	HIVAN	HIVAN	Positive	HIVAN	DI	GT	AG	2	G1/G2
39	HIVAN	HIVAN	Positive	HIVAN	DD	TT	AA	2	G2/G2
1	HIV (+) CKD	FSGS	Positive	FSGS	II	TT	AA	0	G0/G0
2	HIV (+) CKD	IgA Nephropathy	Positive	HIVICK	II	GG	AG	2	G1/G1b
3	HIV (+) CKD	FSGS	Positive	FSGS	DD	TT	AA	2	G2/G2

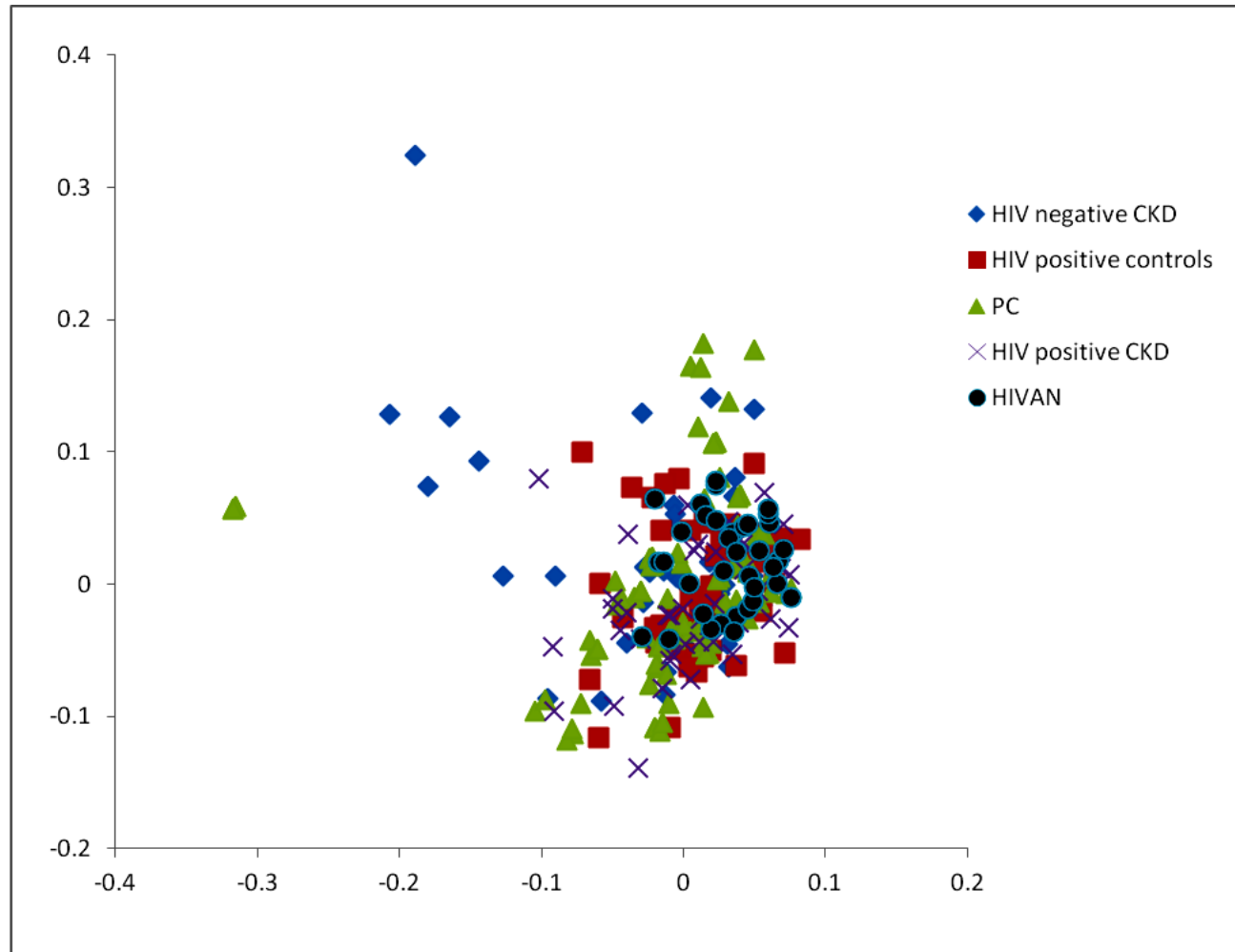
4	HIV (+) CKD	FSGS	Positive	FSGS	II	GT	AG	1	G0/G1
5	HIV (+) CKD	FSGS	Positive	FSGS	II	TT	AA	0	G0/G0
6	HIV (+) CKD	HIVICK	Positive	HIVICK	DI	GT	AG	2	G1/G2
7	HIV (+) CKD	Minimal Change disease	Positive	Other kidney dis	II	TT	AA	0	G0/G0
8	HIV (+) CKD	Membranoproliferative glomerulonephritis c/w C3 glomerulopathy	Positive	Other GN	II	TT	AA	0	G0/G0
9	HIV (+) CKD	HIVICK	Positive	HIVICK	II	TT	AA	0	G0/G0
10	HIV (+) CKD	Membranoproliferative glomerulonephritis	Positive	Other GN	II	GT	AG	1	G0/G1
11	HIV (+) CKD	HIVICK	Positive	HIVICK	DI	TT	AA	1	G0/G2
12	HIV (+) CKD	Benign nephrosclerosis	Positive	Other kidney dis	DD	TT	AA	2	G2/G2
13	HIV (+) CKD	Membranous glomerulonephritis	Positive	Other GN	II	TT	AA	0	G0/G0
14	HIV (+) CKD	Global glomerulosclerosis with ischemic changes c/w ANS	Positive	Other kidney dis	II	GG	GG	2	G1/G1
15	HIV (+) CKD	FSGS	Positive	FSGS	DI	TT	AA	1	G0/G2
16	HIV (+) CKD	FSGS	Positive	FSGS	II	TT	AA	0	G0/G0
17	HIV (+) CKD	HIVICK	Positive	HIVICK	DI	GT	AG	2	G1/G2
18	HIV (+) CKD	HIVICK	Positive	HIVICK	II	TT	AA	0	G0/G0
19	HIV (+) CKD	Membranous glomerulonephritis	Positive	Other GN	II	TT	AA	0	G0/G0
20	HIV (+) CKD	HIVICK	Positive	HIVICK	DI	TT	AA	1	G0/G2
21	HIV (+) CKD	Membranous glomerulonephritis	Positive	Other GN	II	TT	AA	0	G0/G0
22	HIV (+) CKD	Membranous glomerulonephritis	Positive	Other GN	DI	TT	AA	1	G0/G2
23	HIV (+) CKD	HIVICK	Positive	HIVICK	II	GT	AG	1	G0/G1
24	HIV (+) CKD	FSGS	Positive	FSGS	II	TT	AA	0	G0/G0
25	HIV (+) CKD	FSGS	Positive	FSGS	DI	TT	AA	1	G0/G2

26	HIV (+) CKD	FSGS	Positive	FSGS	II	TT	AA	0	G0/G0
27	HIV (+) CKD	HIVICK	Positive	HIVICK	DI	TT	NA	NA	NA
28	HIV (+) CKD	HIVICK	Positive	HIVICK	II	TT	AA	0	G0/G0
29	HIV (+) CKD	FSGS	Positive	FSGS	II	TT	AA	0	G0/G0
30	HIV (+) CKD	HIVICK	Positive	HIVICK	II	TT	AA	0	G0/G0
31	HIV (+) CKD	Membranous glomerulonephritis	Positive	Other GN	II	GT	AG	1	G0/G1
32	HIV (+) CKD	Membranous glomerulonephritis	Positive	Other GN	II	TT	AA	0	G0/G0
33	HIV (+) CKD	FSGS	Positive	FSGS	II	TT	AA	0	G0/G0
34	HIV (+) CKD	FSGS	Positive	FSGS	II	TT	AA	0	G0/G0
35	HIV (+) CKD	Membranous glomerulonephritis	Positive	Other GN	II	TT	AA	0	G0/G0
36	HIV (+) CKD	FSGS	Positive	FSGS	II	TT	AA	0	G0/G0
37	HIV (+) CKD	Thrombotic microangiopathy	Positive	Other kidney dis	II	TT	AA	0	G0/G0
38	HIV (+) CKD	Membranous glomerulonephritis	Positive	Other GN	II	TT	AA	0	G0/G0
39	HIV (+) CKD	Global glomerulosclerosis-low grade IgAN	Positive	HIVICK	DI	TT	AA	1	G0/G2
40	HIV (+) CKD	HIVICK	Positive	HIVICK	DI	TT	AA	1	G0/G2
1	HIV (-) CKD	IgA Nephropathy	Neg	Other GN	II	TT	AA	0	G0/G0
2	HIV (-) CKD	Membranous glomerulonephritis	Neg	Other GN	DI	TT	AA	1	G0/G2
3	HIV (-) CKD	FSGS	Neg	FSGS	DI	TT	AA	1	G0/G2
4	HIV (-) CKD	Nodular Glomerulosclerosis	Neg	Other kidney dis	II	TT	AA	0	G0/G0
5	HIV (-) CKD	Lupus nephritis	Neg	Other GN	II	TT	AA	0	G0/G0
6	HIV (-) CKD	Global glomerulosclerosis	Neg	Other kidney dis	II	TT	AA	0	G0/G0
7	HIV (-) CKD	Lupus nephritis	Neg	Other GN	II	TT	AA	0	G0/G0

8	HIV (-) CKD	FSGS	Neg	FSGS	DI	TT	AG	2	G1a/G2
9	HIV (-) CKD	Membranous glomerulonephritis	Neg	Other GN	II	TT	AA	0	G0/G0
10	HIV (-) CKD	Membranoproliferative glomerulonephritis	Neg	Other GN	DI	TT	AA	1	G0/G2
11	HIV (-) CKD	Membranous glomerulonephritis	Neg	Other GN	II	TT	AA	0	G0/G0
12	HIV (-) CKD	Membranous glomerulonephritis	Neg	Other GN	II	GT	AG	1	G0/G1
13	HIV (-) CKD	Lupus nephritis	Neg	Other GN	II	GT	AG	1	G0/G1
14	HIV (-) CKD	Benign nephrosclerosis	Neg	Other kidney dis	II	TT	AA	0	G0/G0
15	HIV (-) CKD	Minimal change disease	Neg	Other kidney dis	II	TT	AA	0	G0/G0
16	HIV (-) CKD	Proliferative glomerulonephropathy	Neg	Other GN	II	TT	NA	NA	NA
17	HIV (-) CKD	FSGS	Neg	FSGS	II	TT	AA	0	G0/G0
18	HIV (-) CKD	Membranous glomerulonephritis	Neg	Other GN	NA	NA	NA	NA	NA
19	HIV (-) CKD	Minimal change disease	Neg	Other kidney dis	II	TT	AA	0	G0/G0
20	HIV (-) CKD	Global glomerulosclerosis	Neg	Other kidney dis	II	GT	AG	1	G0/G1
21	HIV (-) CKD	Membranous glomerulonephritis	Neg	Other GN	II	GT	AG	1	G0/G1
22	HIV (-) CKD	FSGS	Neg	FSGS	II	TT	AA	0	G0/G0
23	HIV (-) CKD	Thrombotic microangiopathy	Neg	Other kidney dis	II	TT	AA	0	G0/G0
24	HIV (-) CKD	FSGS	Neg	FSGS	DI	TT	AA	1	G0/G2
25	HIV (-) CKD	Minimal change disease	Neg	Other kidney dis	DI	TT	AA	1	G0/G2
26	HIV (-) CKD	Membranous glomerulonephritis	Neg	Other GN	II	TT	AA	0	G0/G0
27	HIV (-) CKD	Severe ANS with secondary FSGS	Neg	Other kidney dis	II	TT	AA	0	G0/G0
28	HIV (-) CKD	Extensive GS, hilar SS could be Oxalate (Oxalosis)	Neg	Other kidney dis	II	TT	AA	0	G0/G0
29	HIV (-) CKD	Minimal change disease	Neg	Other kidney dis	II	TT	AA	0	G0/G0

30	HIV (-) CKD	FSGS	Neg	FSGS	II	TT	AA	0	G0/G0
31	HIV (-) CKD	Membranous glomerulonephritis	Neg	Other GN	DI	TT	AA	1	G0/G2
32	HIV (-) CKD	Membranous glomerulonephritis	Neg	Other GN	II	TT	AA	0	G0/G0
33	HIV (-) CKD	FSGS	Neg	FSGS	II	TT	AG	1	G0/G1a
34	HIV (-) CKD	Minimal change disease	Neg	Other kidney dis	II	TT	AA	0	G0/G0
35	HIV (-) CKD	Membranous glomerulonephritis	Neg	Other GN	II	TT	AA	0	G0/G0
36	HIV (-) CKD	Thrombotic microangiopathy	Neg	Other kidney dis	DI	TT	AA	1	G0/G2
37	HIV (-) CKD	Membranous glomerulonephritis	Neg	Other GN	II	GT	AG	1	G0/G1
38	HIV (-) CKD	FSGS	Neg	FSGS	II	TT	AA	0	G0/G0
39	HIV (-) CKD	Membranoproliferative glomerulonephritis	Neg	Other GN	II	TT	AA	0	G0/G0
40	HIV (-) CKD	FSGS	Neg	FSGS	II	TT	AA	0	G0/G0
41	HIV (-) CKD	Membranous glomerulonephritis	Neg	Other GN	II	TT	AA	0	G0/G0

Other kidney dis: Other kidney disease; Other GN: Other glomerulonephritis; Neg: Negative; c/w: consistent with. Those highlighted in yellow failed genotyping and are not included in Tables 2 and 3.



Supplemental Figure 1. Principal component analysis of all study participants along the top two eigen values. The distribution of HIVAN cases and HIV (+) control groups was not significantly different along the top two eigen axes ($P > 0.05$) suggesting that the high association observed is not due to an undetected population substructure. PC (Population Controls). HIVAN (HIV-associated Nephropathy). CKD (Chronic kidney Disease).