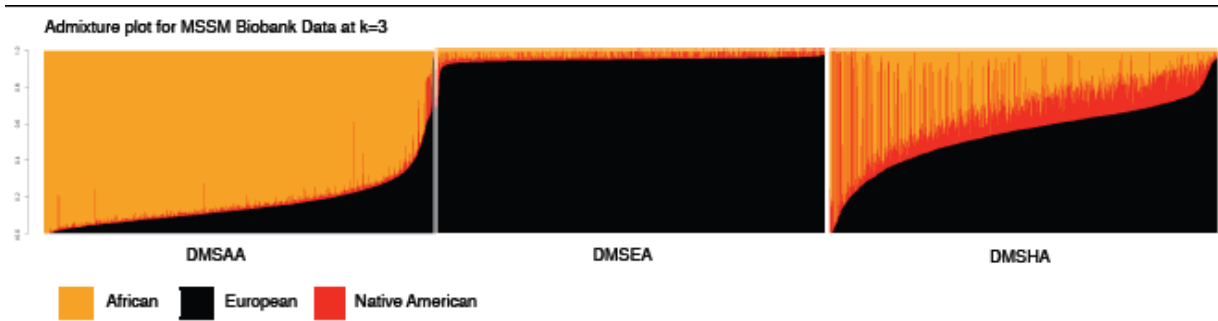


Supplemental Figure 1: Admixture in BioBank populations



Supplemental Table 1: Imputation concordance

A) in AAs

Overall 99.9%

Het: 99.8% imputed

Het: 100% clinical genotyping

Imputed rs73885319	Clinical Genotyping			
	0	1	2	Total
0	2300	0	0	2302
1	0	1241	0	1241
2	0	0	220	220
Total	2300	1243	220	3763

Overall 99.9%

Het: imputed: 99.8%

Het: 99.9%

Imputed rs60910145	Clinical Genotyping			
	0	1	2	Total
0	2328	2	0	2330
1	1	1219	0	1220
2	0	0	213	214
Total	2329	1222	213	3764

Overall: 99.3%

Het imputed: 98.2%

Het clin genotyping: 98.7%

Imputed rs71785313	Clinical Genotyping			
	0	1	2	Total
0	2739	14	0	2753
1	9	807	1	817
2	0	1	70	71
Total	2748	822	71	3641

B) In H/LAs

Overall: 100%

Het imputed: 100%

Het clin genotyping: 100%

Imputed rs73885319	Clinical Genotyping			
	0	1	2	Total
0	228	0	0	228
1	0	84	0	84
2	0	0	11	11
Total	228	84	11	323

Overall: 100%

Het imputed: 100%

Het clin genotyping: 100%

Imputed rs60910145	Clinical Genotyping			
	0	1	2	Total
0	230	0	0	230
1	0	82	0	82
2	0	0	11	11
Total	230	82	11	323

Overall: 100%

Het imputed: 100%

Het clin genotyping: 100%

Imputed rs71785313	Clinical Genotyping			
	0	1	2	Total
0	254	3	0	257
1	1	55	0	56
2	0	0	2	2
Total	255	58	2	315

Supplemental Table 2: Associations by diabetes status in all study participants**

	Non-diabetics (N=5713)						Diabetics (N=2338)					
	African Ancestry (per 10%)			APOL1 risk haplotype (N=321)			African Ancestry (per 10%)			APOL1 risk haplotype (N=144)		
	Beta	95% CI	P	Beta	95% CI	P	Beta	95% CI	P	Beta	95% CI	P
Log Crt [‡]	0.01	0.008-0.2	3x10⁻⁷	0.11	0.08-0.15	1x10⁻¹⁰	0.02	0.005-0.03	0.003	0.10	0.02-0.17	0.01
Log Crt [‡] restricted ^a	0.008	0.005-0.01	2x10⁻⁸	0.009	-0.01-0.03	0.38	0.01	0.009-0.2	2x10⁻⁷	-0.02	-0.06-0.02	0.32
eGFR	-1.12	-1.42-0.81	7x10⁻¹³	-4.93	-7.12- -2.74	1x10⁻⁵	-1.35	-1.91- -0.80	2x10⁻⁶	-2.54	-6.61-1.53	0.22
eGFR >90	-0.61	-0.88- -0.34	8x10⁻⁶	-1.42	-3.33- 0.48	0.14	-0.76	-1.2- -0.31	0.001	-0.55	-3.49- 2.39	0.71
	OR		P	OR		P	OR		P	OR		P
Elevated creatinine ^b	1.14	1.08-1.20	7x10⁻⁶	1.67	1.22-2.29	0.001	1.10	1.03-1.16	0.002	1.26	0.86-1.86	0.23
CKD	1.11	1.05-1.18	4x10⁻⁴	1.69	1.15-2.49	0.008	1.05	1.00-1.11	0.07	1.48	1.01-2.18	0.05
eGFR < 45	1.11	1.02-1.21	0.02	2.59	1.59-4.21	1x10⁻⁴	1.05	0.98-1.13	0.16	1.62	1.00-2.61	0.05
ESRD (eGFR<15)	1.00	0.87-1.15	1.00	4.81	2.57-8.98	9x10⁻⁷	0.98	0.88-1.09	0.68	2.81	1.54-5.10	0.001

* Adjusted for age, sex, SBP, DBP, BMI, smoking

[‡]Natural log of creatinine used in model

‡Stratified by self-reported race

^aCreatinine < 1.3 mg/dl in men, <1.1 mg/dl in women;

^bCreatinine ≥1.3 mg/dl in men, ≥1.1 mg/dl in women

Bolded are P≤0.001

Supplemental Table 3: Yearly median electrolyte values by CKD stage

CKD Stage	N	HCO ₃ ^{‡*}	95% CI	N	Potassium ^{‡*}	95% CI
<i>All individuals</i>						
1	2839	26.4	26.3-26.5	2845	4.1	4.1-4.2
2	3610	26.7	26.6-26.8	3628	4.2	4.2-4.2
3	1145	26.1	25.9-26.3*	1178	4.3	4.3-4.3*
4	118	23.8	23.1-24.4*	128	4.5	4.4-4.5*
5	67	23.0	22.0-24.0*	127	4.5	4.4-4.6*
total	7779			7906		
<i>HL/As</i>						
1	1368	26.4	26.2-26.5	1368	4.1	4.1-4.2
2	1630	26.7	26.5-26.8	1630	4.2	4.1-4.2
3	518	26.2	25.9-26.4*	518	4.3	4.3-4.4*
4	57	23.8	22.8-24.8*	57	4.4	4.3-4.6*
5	32	23.1	21.6-24.7*	32	4.8	4.5-5.0*
total	3605			3605		
<i>HL/As with stage reclassified based on genetic ancestry</i>						
3→2	52	26.9	26.2-27.6 ^{a,b}	52	4.11	4.0-4.2 ^{a,b}

[‡]Median value during year of corresponding eGFR measurement

^{*}Ptrend <10⁻¹⁵ unadjusted and adjusted (potassium values log-transformed for regression)

* P≤0.001 for average value compared to that in stage 1

^aPvalue < 0.05 compared to other H/LAs in stage 2

^bPvalue>0.05 compared to stage 3