
African-ancestry-specific variant IKK β p. Glu502Lys confers high lupus risk

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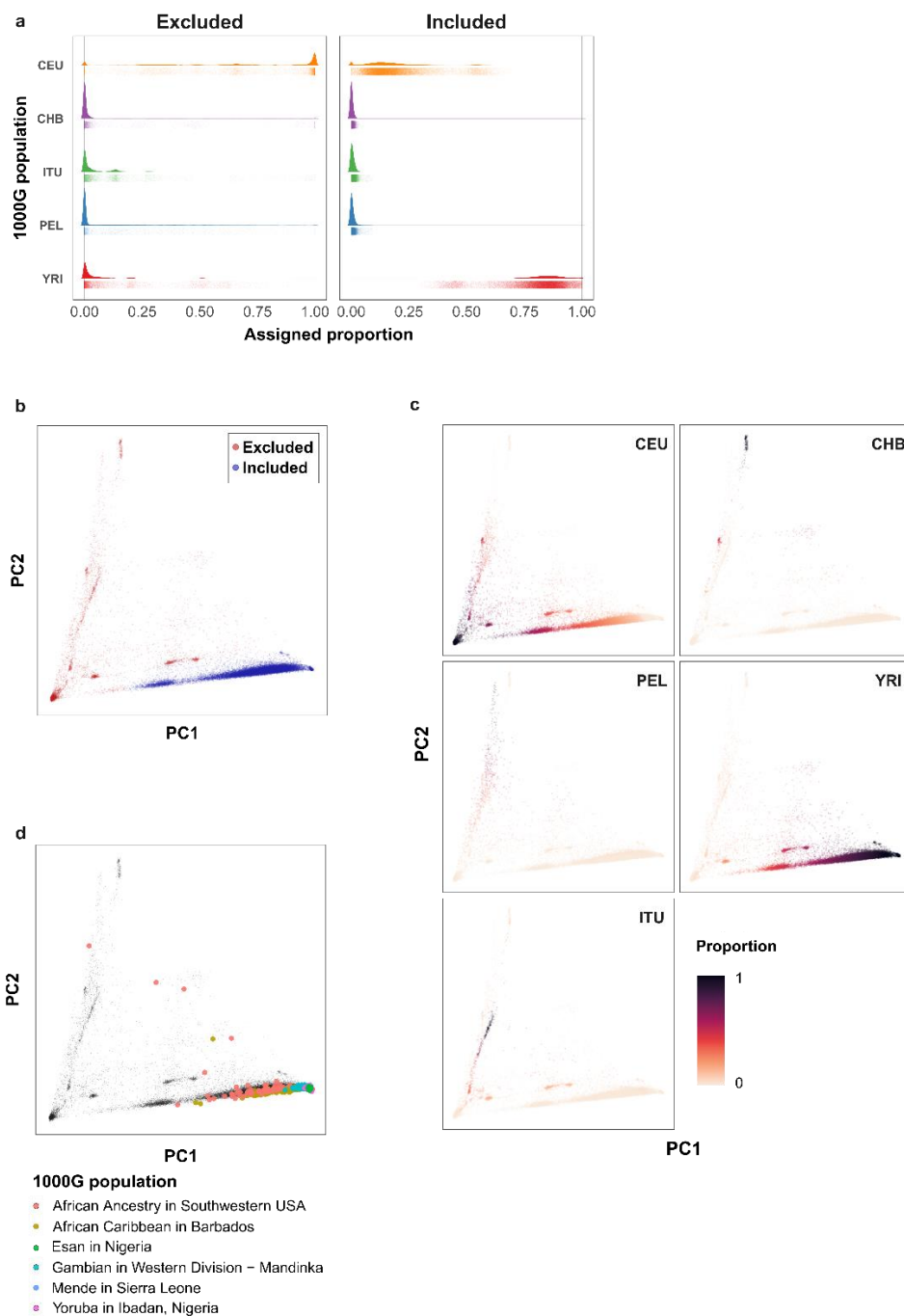
Supplementary Appendix for:

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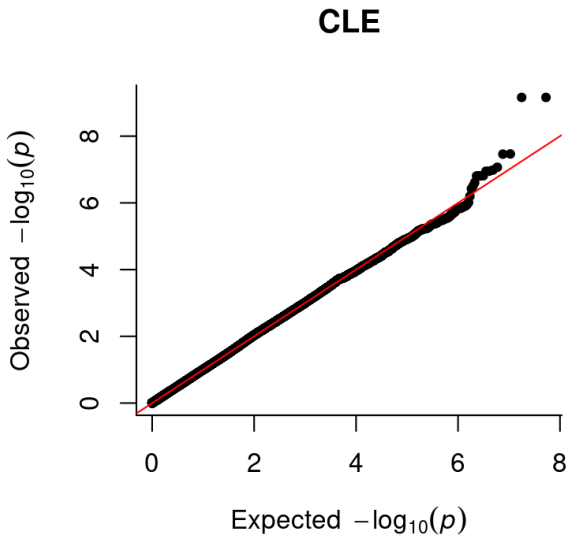
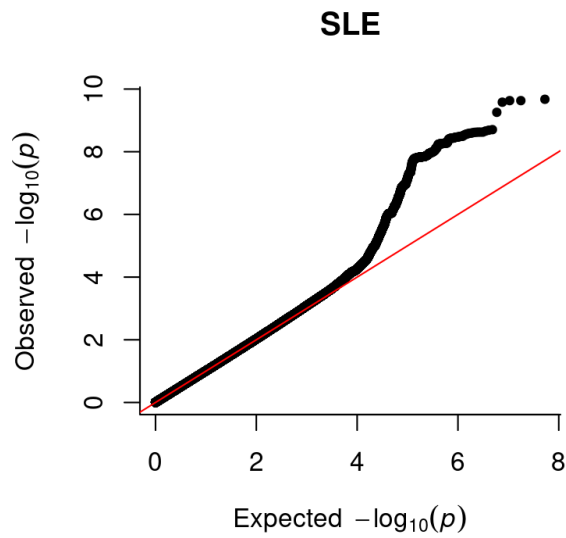
Supplementary Figures



Supplementary Figure 1.

Filtering by genomic ancestry. a) Raincloud plots of ancestry proportions assigned by ADMIXTURE to DAC samples (n=35,080), split by sample inclusion status in the subset of

Americans with African ancestry. Y-axis labels indicate the training population that the ancestry component was maximized in. b) PC (principal component) coordinates of DAC samples colored by inclusion status in the subset of Americans with African ancestry. c) PC coordinates of DAC samples colored by proportion of ancestry assigned by ADMIXTURE. Panel headings indicate the training population that the ancestry component was maximized in. d) Selected 1000G groups with African ancestry projected onto the PCs calculated from DAC samples.

a**b**

Supplementary Figure 2:

QQ plots for the genome-wide association results for cutaneous lupus erythematosus (CLE, top) and systemic lupus erythematosus (SLE, bottom) from the Diverse Ancestry Cohort (DAC). A logistic regression was used to test for the association of variants with CLE/SLE and the two-sided P values were obtained from a likelihood ratio test.

Supplementary Tables

Supplementary Table 1.

Variants at the *IKBKB* locus associated with cutaneous lupus erythematosus (CLE) with P-value < 1×10^{-6} before and after adjusting for *IKKB*^{E502K}.

Position on chr 8	MAF (%)	OR unadjusted	P-value unadjusted	OR adjusted	P-value adjusted
42213699	0.55	7.30	2.4E-10	3.05	0.023
42272088	1.28	3.86	1.6E-07	0.49	0.43
42304539	0.87	5.43	6.9E-10	1	1
42315497	1.25	3.98	8.6E-08	0.55	0.51
42319711	1.29	4.06	3.5E-08	1.02	0.98
42330219	1.29	4.06	3.4E-08	1.02	0.97
42359791	0.52	6.84	1.8E-09	2.21	0.11
42382273	0.50	7.38	7.0E-10	2.67	0.038
42386101	0.51	7.28	8.5E-10	2.61	0.043

Supplementary Table 2.

Variant associated with cutaneous lupus erythematosus (CLE) or systemic lupus erythematosus (SLE) at $p < 5 \times 10^{-8}$ in Americans with African ancestry.

OR	P	chr:pos	rs Name	EAF ¹	EAF _{EUR} ²	EA	OA	Nearest gene	Coding effect
CLE									
5.4	6.9×10^{-9}	chr8:42319409	rs115698972	0.10	0.006	A	G	<i>IKBKB</i>	missense
SLE									
0.6	2.6×10^{-10}	chr6:32664993	rs281862065	24.82	27.3	G	A	<i>HLA-DQB1</i>	missense
3.3	5.3×10^{-9}	chr8:42319409	rs115698972	0.10	0.006	A	G	<i>IKBKB</i>	missense
0.4	2.0×10^{-8}	chr8:28948391	rs17524918	6.46	14.9	A	G	<i>HMBOX1</i>	intron
0.5	5.0×10^{-8}	chr7:122268343	rs284378	9.28	0.091	T	C	<i>FEZF1</i>	regulatory region
90.5	4.7×10^{-8}	chr15:81952399	rs894768694	0.013	0	C	T	<i>LOC102724001</i>	intergenic

EAF=Effect Allele Frequency, EA=Effect Allele, OA=Other Allele

¹Effect allele frequency in the current study of individuals with African genomic ancestry

²Effect allele frequency in individuals of European genomic ancestry

Supplementary Table 3.

Association of IKKB^{E502K} with different manifestations of CLE/SLE as captured by 3-4 digit ICD-10 codes (when available).

ICD10 Code	Description	OR	P-value	N cases ¹
L93.0	Discoid lupus erythematosus	5.2	6.9×10^{-8}	210
L93.2	Other local lupus erythematosus	5.1	1.6×10^{-7}	165
M32.0	Drug-induced SLE	0.9	0.78	18
M32.10	SLE, organ or system involvement unspecified	4.9	2.1×10^{-7}	183
M32.11	Endocarditis in SLE	1.2	0.30	5
M32.12	Pericarditis in SLE	0.9	0.81	15
M32.13	Lung involvement in SLE	6.0	2.5×10^{-3}	42
M32.14	Glomerular disease in SLE	5.5	1.0×10^{-7}	151
M32.15	Tubulo-interstitial nephropathy in SLE	1.1	0.57	16
M32.19	Other organ or system involvement in SLE	4.3	5.0×10^{-6}	192
M32.8	Other forms of SLE	3.4	5.3×10^{-3}	123
M32.9	SLE, unspecified	3.5	6.9×10^{-8}	420
¹ Controls: N=25,360 throughout				

Supplementary Table 4.

Association of IKKB^{E502K} with different combinations of Cutaneous Lupus Erythematosus (CLE) and Systemic Lupus Erythematosus (SLE).

Phenotype	N cases	N controls	OR (95% CI)	P-value
CLE ¹ or SLE ²	610	25,360	3.5 (2.4-5.1)	1.4×10 ⁻¹⁰
CLE and SLE	175	25,360	5.4 (3.0-9.7)	1.8×10 ⁻⁸
CLE only	36	25,360	6.1 (1.7-22.2)	0.0060
SLE only	399	25,360	2.4 (1.4-4.1)	0.0011

¹CLE was captured using ICD10 L93/ICD9 695.4

²SLE was captured using ICD10 M32/ICD9 710.0.

Supplementary Table 5Association of IKKB^{E502K} with available quantitative traits.

Quantitative trait	N	P-value	Effect (SD)
Lymphocyte_count	20324	3.1E-05	-0.21
Albumin	19955	1.2E-03	-0.16
Alpha_2_globulin	2513	3.1E-03	0.40
Platelet_count	23551	3.4E-03	-0.14
Iron_binding_capacity	4961	5.1E-03	-0.29
Leukocyte_count	23527	8.2E-03	-0.14
Eosinophill_count	18980	8.9E-03	-0.13
Ferritin	7949	1.0E-02	0.20
Basophill_count	20288	1.1E-02	-0.13
Mean_corpuscular_volume	23538	1.5E-02	0.11
Gamma_glutamyl_transferase	1594	2.3E-02	-0.37
Mean_corpuscular_haemoglobin	23538	2.8E-02	0.10
Carbon_dioxide_total_in_serum_plasma	22657	3.1E-02	-0.10
Urea_nitrogen	22692	3.2E-02	0.10
Erythrocyte_count	23526	4.0E-02	-0.10
Reticulocytes_100_erythrocytes	3436	4.7E-02	-0.22
Basophils_100_leukocytes	18865	5.1E-02	-0.10
Thyroxine_T4_free	9340	5.3E-02	-0.15
Prostate_specific_antigen	2791	5.7E-02	-0.26
Lymphocytes_100_leukocytes	18838	5.9E-02	-0.11
Monocytes_100_leukocytes	18871	6.4E-02	0.10
IgA	1569	6.9E-02	-0.36
Follitropin	1663	7.0E-02	0.31
Potassium	17856	8.0E-02	0.09
Sodium	17855	8.4E-02	-0.09
Eosinophils_100_leukocytes	16087	1.0E-01	-0.09
Lipase	5378	1.1E-01	0.16
Glomerular_filtration_rate	22929	1.1E-01	-0.08
Neutrophils_100_leukocytes	18859	1.1E-01	0.09
Creatinine	16935	1.2E-01	0.09
Protein_creatinine_ratio_in_urine	3502	1.3E-01	0.16
Aspartate_aminotransferase	16428	1.5E-01	0.08
IgG	1372	1.5E-01	0.31
Protein_in_24_hour_urine	3214	1.8E-01	0.15

Platelet_mean_volume	20111	2.0E-01	0.07
Albumin_in_urine	3642	2.0E-01	-0.16
Gamma_globulin	2494	2.2E-01	-0.17
Oxygen_saturation_arterial	15031	2.4E-01	0.07
Chloride	17851	2.4E-01	0.06
Nucleated_erythrocytes_100_leukocytes	15520	2.4E-01	-0.07
Creatinine_in_blood	17358	2.5E-01	0.06
Protein_in_urine	7510	2.8E-01	0.08
Diastolic_blood_pressure	24130	2.9E-01	-0.05
Cobalamin_Vitamin_B12	7509	3.0E-01	0.09
Microalbumin_creatinine_ratio_in_urine	2837	3.0E-01	-0.15
Neutrophill_count	20293	3.2E-01	-0.06
Hemoglobin_concentration	23553	3.2E-01	-0.05
Hemoglobin_A1C_HbA1C	6712	3.2E-01	-0.10
Erythrocyte_sedimentation_rate	5337	3.4E-01	0.09
Calcium	22630	3.5E-01	-0.04
Carbon_dioxide_venous	3475	3.5E-01	-0.11
Ketones_in_urine	2345	3.7E-01	-0.13
Alpha_1_globulin	2514	3.8E-01	-0.12
Urate	5349	3.9E-01	-0.08
Testosterone	1285	4.3E-01	-0.15
Magnesium	7262	4.3E-01	-0.07
Cortisol	1823	4.4E-01	-0.12
Bilirubin	20636	4.4E-01	-0.04
Iron	7774	4.5E-01	0.06
Carbon_dioxide_arterial	4095	5.0E-01	-0.08
Hematocrit_percentage	23905	5.1E-01	-0.03
Lactate_blood	3329	5.1E-01	-0.08
Systolic_blood_pressure	24130	5.4E-01	0.03
Phosphate	6668	5.5E-01	0.05
Glucose	22737	5.6E-01	-0.03
Alanine_aminotransferase	16358	6.0E-01	-0.03
Body_mass_index	23211	7.1E-01	-0.02
Oxygen_venous	3465	7.2E-01	-0.04
Immature_granulocytes_100_leukocytes	15127	7.2E-01	0.02
Troponin_I	4632	7.5E-01	-0.03
Folate	3867	7.7E-01	0.03
Immature_granulocytes_in_blood	15118	8.0E-01	0.02
Monocyte_count	19055	8.0E-01	-0.01
Alkaline_phosphatase	16331	8.0E-01	0.01

Amylase	2617	8.0E-01	-0.03
Creatinine_in_urine	6026	8.1E-01	-0.02
Body_height	23178	8.1E-01	-0.01
Body_weight	23983	8.1E-01	-0.01
Oxygen_arterial	4091	8.2E-01	0.03
C_reactive_protein	6653	8.5E-01	-0.02
Cholesterol	13563	8.6E-01	-0.01
Body_temperature	22380	8.7E-01	-0.01
Triiodothyronine_T3_free	364	9.2E-01	-0.04
Parathyrin_intact	3204	9.2E-01	-0.01
Lipoprotein_a	217	9.3E-01	-0.04
Lactate	4995	9.4E-01	0.01
Mean_corpuscular_haemoglobin_concentration	23525	9.5E-01	0.00
Natriuretic_peptide_B	4979	9.5E-01	-0.01
Protein	15967	9.6E-01	0.00
Creatine_kinase	3550	9.6E-01	-0.01
Erythrocyte_distribution_width	23537	9.8E-01	0.00
Beta_globulin	2497	9.9E-01	0.00

Supplementary Table 6.

Associations of *IKBKB* sequence variant $IKKB^{E502K}$ with other diseases in the DAC subset of Americans of African ancestry.

Phenotype	P-value*	OR
(ICD10:L93) Cutaneous Lupus Erythematosus	6.9E-10	5.4
(ICD10:M32) Systemic Lupus Erythematosus	5.3E-09	3.3
(ICD10:M35) Other systemic involvement of connective tissue	2.5E-4	2.2
(ICD10:S89) Other and unspecified injuries of lower leg	7.1E-4	0.52
(ICD10:N08) Glomerular disorders in diseases classified elsewhere	7.5E-4	2.3
(ICD10:G57) Mononeuropathies of lower limb	0.0013	0.19
(ICD10:L82.1) Other seborrheic keratosis	0.0016	0.01
(ICD10:L68.9 Hypertrichosis unspecified	0.0016	0.01
(ICD10:E27.8) Other specified disorders of adrenal gland	0.0019	2.5
(ICD10:N04) Nephrotic syndrome	0.0019	2.5

Supplementary Table 7.

Association of *IKKB* sequence variant *IKKB*^{E502K} with Cutaneous Lupus Erythematosus (CLE) and Systemic Lupus Erythematosus (SLE) in males and females separately.

Phenotype	Sex	N cases	N controls	OR (95% CI)	P-value	P-het*
CLE ¹	Males	22	9.430	5.2 (0.9-31.5)	0.073	
CLE	Females	189	15.152	5.5 (3.1-9.7)	3.3×10 ⁻⁹	0.95
SLE ²	Males	56	9.430	3.7 (1.1-12.5)	0.036	
SLE	Females	518	15.217	3.2 (2.1-5.0)	4.9×10 ⁻⁸	0.83

¹CLE was captured using ICD10 L93/ICD9 695.4

²SLE was captured using ICD10 M32/ICD9 710.0.

*P-value for heterogeneity between men and women

Supplementary Table 8.

Association of IKKB^{E502K} with age of diagnosis of Cutaneous Lupus Erythematosus (CLE) and Systemic Lupus Erythematosus (SLE).

Group	Carriers		Non-carriers		Effect	P-value	P-het*
	N	Mean AOD	N	Mean AOD			
CLE	22	31.6	189	38.0	-6.5	0.087	
CLE men	2	20.0	20	37.1	-17.0	0.21	
CLE women	20	32.7	169	38.2	-5.5	0.17	0.42
SLE	37	30.7	537	39.5	-8.9	0.00093	
SLE men	4	19.3	33	44.3	-25.0	0.0036	
SLE women	33	32.0	485	39.0	-7.0	0.013	0.046

SLE=Systemic lupus erythematosus, CLE=Cutaneous lupus erythematosus, AOD=Age of diagnosis

*P-value for heterogeneity between men and women

Supplementary Table 9.

Association of IKKB^{E502K} with other manifestations of SLE and hematological traits among the 574 individuals with Systemic Lupus Erythematosus (SLE) diagnosis.

Traits (ICD10 code)	OR	P-value	N cases/ controls	N cases/controls among carriers
Cutaneous Lupus Erythematosus (L93)	2.30	0.017	175/399	18/19
Endocarditis in SLE (M32.11)	3.76	0.31	5/569	1/36
Pericarditis in SLE (M32.12)	0.00	0.15	15/559	0/37
Lung involvement in SLE (M32.13)	2.17	0.16	41/533	5/32
Glomerular disease in SLE (M32.14)	2.34	0.017	148/426	16/21
Tubulo-interstitial nephropathy in SLE (M32.15)	0.97	0.98	16/558	1/36
Antiphospholipid syndrome (D68.61-62)	1.27	0.67	51/523	4/33
Thrombocytopenia (D69.3-6)	1.56	0.28	101/473	9/28

Hematological traits	Effect (SD)	P-value	N	N carriers
Reticulocytes 100 erythrocytes	−0.87	0.0066	166	13
Lymphocyte count	−0.51	0.0073	530	34
Protein in urine	0.45	0.036	314	22
Leukocyte count	−0.38	0.036	552	35
Neutrophil count	−0.26	0.14	529	34
Protein in 24 hour urine	0.30	0.21	267	19
Erythrocyte sedimentation rate	0.21	0.29	372	25
C reactive protein	0.14	0.43	413	27
Platelet count	−0.14	0.47	553	35
Protein creatinine ratio in urine	0.15	0.51	315	23
Glomerular filtration rate	−0.12	0.54	554	35
Albumin in urine	−0.20	0.74	100	3
Creatinine in blood	0.05	0.81	443	26
Erythrocyte count	0.02	0.92	552	35
Hemoglobin concentration	0.01	0.96	553	35
Creatinine	0.00	0.98	471	30

Supplementary Table 10.

Association of IKKB^{E502K} with available reported infectious phenotypes (n>50 cases).

P	Effect	Phenotype	n
0.710	0.89	ICD-10: A04 Other bacterial intestinal infections	585
0.301	0.65	ICD-10: A047 Enterocolitis due to Clostridium difficile	368
0.609	1.27	ICD-10: A048 Other specified bacterial intestinal infections	190
0.762	0.93	ICD-10: A08 Viral and other specified intestinal infections	1003
0.501	1.31	ICD-10: A084 Viral intestinal infection unspecified	256
0.992	1.00	ICD-10: A088 Other specified intestinal infections	467
0.155	0.53	ICD-10: A09 Diarrhea and gastro enteritis of presumed infectious origin	366
0.750	1.27	ICD-10: A15 Respiratory tuberculosis bacteriologically and histologically confirmed	80
0.562	1.32	ICD-10: A40 Streptococcal septicaemia	181
0.811	0.85	ICD-10: A409 Streptococcal sepsis unspecified	113
0.187	1.22	ICD-10: A41 Other septicaemia	2186
0.285	1.70	ICD-10: A411 Sepsis due to other specified staphylococcus	141
0.117	1.27	ICD-10: A419 Sepsis unspecified organism	1986
0.772	1.11	ICD-10: A49 Bacterial infection of unspecified site	395
0.595	0.70	ICD-10: A498 Other bacterial infections of unspecified site	139
0.582	0.60	ICD-10: A499 Bacterial infection unspecified	81
0.744	0.80	ICD-10: A52 Late syphilis	122
0.184	1.46	ICD-10: A53 Other and unspecified syphilis	494
0.525	1.22	ICD-10: A539 Syphilis unspecified	471
0.080	1.60	ICD-10: A54 Gonococcal infection	490
0.023	2.06	ICD-10: A549 Gonococcal infection unspecified	303
0.267	1.54	ICD-10: A56 Other sexually transmitted chlamydial diseases	230
0.298	0.76	ICD-10: A59 Trichomoniasis	812
0.427	1.31	ICD-10: A599 Trichomoniasis unspecified	336
0.235	1.45	ICD-10: A609 Anogenital herpesviral infection unspecified	393
0.547	1.21	ICD-10: A630 Anogenital venereal warts	428
0.303	1.49	ICD-10: A64 Unspecified sexually transmitted disease	248
0.992	1.00	ICD-10: A74 Other diseases caused by chlamydiae	574
0.883	0.96	ICD-10: A749 Chlamydial infection unspecified	554
0.883	0.96	ICD-10: A749 Chlamydial infection unspecified	554
0.565	0.59	ICD-10: A87 Viral meningitis	83
0.913	0.98	ICD-10: B00 Herpesviral herpes simplex infections	975
0.354	0.44	ICD-10: B001 Herpesviral vesicular dermatitis	109
0.304	1.77	ICD-10: B002 Herpesviral gingivostomatitis and pharyngotonsillitis	109
0.984	1.00	ICD-10: B009 Herpesviral infection unspecified	764

0.479	0.81	ICD-10: B02 Zoster herpes zoster	671
0.473	0.79	ICD-10: B029 Zoster without complications	564
0.682	0.88	ICD-10: B07 Viral warts	550
0.658	0.66	ICD-10: B070 Plantar wart	74
0.958	0.97	ICD-10: B078 Other viral warts	149
0.667	0.85	ICD-10: B079 Viral wart unspecified	399
0.034	0.29	ICD-10: B08 Other viral infections characterized by skin and mucous membrane lesions not elsewhere classified	315
0.216	0.35	ICD-10: B081 Molluscum contagiosum	129
0.046	0.01	ICD-10: B084 Enteroviral vesicular stomatitis with exanthem	109
0.683	0.67	ICD-10: B085 Enteroviral vesicular pharyngitis	71
0.531	0.66	ICD-10: B09 Unspecified viral infection characterized by skin and mucous membrane lesions	146
0.564	1.37	ICD-10: B16 Acute hepatitis B	143
0.168	0.32	ICD-10: B17 Other acute viral hepatitis	155
0.536	1.17	ICD-10: B18 Chronic viral hepatitis	789
0.459	1.23	ICD-10: B182 Chronic viral hepatitis C	638
0.413	0.68	ICD-10: B25 Cytomegaloviral disease	274
0.459	0.70	ICD-10: B30 Viral conjunctivitis	274
0.555	0.67	ICD-10: B309 Viral conjunctivitis unspecified	148
0.802	0.87	ICD-10: B33 Other viral diseases not elsewhere classified	174
1.000	1.00	ICD-10: B338 Other specified viral diseases	154
0.080	1.37	ICD-10: B34 Viral infection of unspecified site	1414
0.867	1.11	ICD-10: B341 Enterovirus infection unspecified	142
0.358	1.57	ICD-10: B342 Coronavirus infection unspecified	156
0.885	0.90	ICD-10: B344 Papovavirus infection unspecified	107
0.724	1.14	ICD-10: B348 Other viral infections of unspecified site	348
0.165	1.33	ICD-10: B349 Viral infection unspecified	1073
0.387	0.88	ICD-10: B35 Dermatophytosis	2823
0.534	0.80	ICD-10: B350 Tinea barbae and tinea capitis	424
0.085	0.70	ICD-10: B351 Tinea unguium	1515
0.484	0.79	ICD-10: B353 Tinea pedis	554
0.193	1.38	ICD-10: B354 Tinea corporis	669
0.222	1.41	ICD-10: B355 Tinea imbricata	501
0.256	0.38	ICD-10: B356 Tinea cruris	130
0.967	0.97	ICD-10: B359 Dermatophytosis unspecified	96
0.992	1.00	ICD-10: B36 Other superficial mycoses	348
0.782	0.87	ICD-10: B360 Pityriasis versicolor	225
0.262	1.88	ICD-10: B369 Superficial mycosis unspecified	107
0.832	1.03	ICD-10: B37 Candidiasis	3393
0.263	0.76	ICD-10: B370 Candidal stomatitis	1038

0.370	1.32	ICD-10: B372 Candidiasis of skin and nail	451
0.484	1.14	ICD-10: B373 Candidiasis of vulva and vagina	1490
0.403	0.77	ICD-10: B379 Candidiasis unspecified	619
0.388	0.46	ICD-10: B39 Histoplasmosis	105
0.463	0.51	ICD-10: B399 Histoplasmosis unspecified	96
0.136	0.30	ICD-10: B48 Other mycoses not elsewhere classified	157
0.136	0.30	ICD-10: B488 Other specified mycoses	157
0.534	0.71	ICD-10: B49 Unspecified mycosis	203
0.472	0.52	ICD-10: B59 Pneumocystosis	93
0.470	1.32	ICD-10: B86 Scabies	271
0.734	1.17	ICD-10: B89 Unspecified parasitic disease	209
0.041	1.37	ICD-10: B95 Streptococcus and staphylococcus as the cause of diseases classified to other chapters	1903
0.466	1.59	ICD-10: B950 Streptococcus group A as the cause of diseases classified elsewhere	86
0.981	1.01	ICD-10: B951 Streptococcus group B as the cause of diseases classified elsewhere	230
0.366	1.32	ICD-10: B952 Enterococcus as the cause of diseases classified elsewhere	447
0.569	0.73	ICD-10: B954 Other streptococcus as the cause of diseases classified elsewhere	197
0.764	1.20	ICD-10: B955 Unspecified streptococcus as the cause of diseases classified elsewhere	119
0.059	1.69	ICD-10: B957 Other staphylococcus as the cause of diseases classified elsewhere	461
0.801	1.13	ICD-10: B958 Unspecified staphylococcus as the cause of diseases classified elsewhere	206
0.897	1.02	ICD-10: B96 Other bacterial agents as the cause of diseases classified to other chapters	3370
0.507	1.25	ICD-10: B961 Klebsiella pneumoniae as the cause of diseases classified elsewhere	381
0.922	1.05	ICD-10: B964 Proteus mirabilis morganii as the cause of diseases classified elsewhere	180
0.680	1.16	ICD-10: B965 Pseudomonas aeruginosa mallei pseudomallei as the cause of diseases classified elsewhere	337
0.721	0.95	ICD-10: B97 Viral agents as the cause of diseases classified to other chapters	3282
0.485	1.56	ICD-10: B974 Respiratory syncytial virus as the cause of diseases classified elsewhere	93
0.678	0.82	ICD-10: B977 Papillomavirus as the cause of diseases classified elsewhere	224
0.690	1.14	ICD-10: B99 Other and unspecified infectious diseases	430
0.891	1.05	ICD-10: B999 Unspecified infectious disease	372

Supplementary Table 11.

Sequence variants previously reported to associate with SLE in Americans with African ancestry and their association with SLE and CLE in the DAC subset of Americans with African ancestry.

Variant	Chr:pos (hg38)	MAF		Langefeld <i>et al.</i> ¹		DAC _{AA} SLE ²		DAC _{AA} CLE ³		Nearest gene
		AA	EUR	P-value	OR	P-value	OR	P-value	OR	
rs2431697	5:160452971	46.4	42.8	1.3×10 ⁻¹²	0.76	3.6×10 ⁻⁴	0.80	2.0×10 ⁻⁴	0.69	<i>PTTG1-MIR146A1</i>
rs2431098	5:160460329	37.0	49.7	1.5×10 ⁻⁸	1.25	0.098	1.11	9.1×10 ⁻³	1.30	<i>PTTG1-MIR146A</i>
rs4728142	5:128933913	30.0	44.1	1.2×10 ⁻¹²	1.35	1.1×10 ⁻⁵	1.34	5.5×10 ⁻⁴	1.44	<i>IRF5-TNPO3</i>
rs2061831	5:11482373	17.1	24.6	1.8x10 ⁻⁸	1.36	0.030	1.20	0.25	1.17	<i>BLK</i>
rs1804182	5:42176001	1.8	0.00	3.5×10 ⁻⁸	1.94	1.7x10 ⁻³	1.73	2.1x10 ⁻⁵	2.81	<i>PLAT</i>
rs34572943	16:31261032	10.5	11.3	5.4x10 ⁻¹¹	1.47	3.5x10 ⁻⁵	1.46	1.9x10 ⁻⁶	1.93	<i>ITGAM</i>

¹Case-control associations for SLE in a cohort of African Americans(22)

²SLE in the DAC subset of Americans with African ancestry was captured using the ICD-10 code M32.

³CLE in the DAC subset of Americans with African ancestry dataset was captured using the ICD-10 code L93.