

Supplementary Table 2 (S4): Case control demographics in SES Cohort

Disease	Status	Sample size	Age (sd)	Cisgender Ma	Cisgender Fem
Asthma	Case	12314	54 (16.07)	3090 (25.1%)	8924 (72.5%)
Asthma	Control	38679	56 (17.16)	15496 (40.1%)	22159 (57.3%)
Afib	Case	8220	72 (11.92)	4692 (57.1%)	3300 (40.1%)
Afib	Control	17693	63 (15.03)	6435 (36.4%)	10847 (61.3%)
BreastC	Case	5325	68 (11.53)	0 (0%)	5221 (98%)
BreastC	Control	73041	56 (16.42)	0 (0%)	70145 (96%)
CKD	Case	9260	72 (12.16)	4366 (47.1%)	4850 (52.4%)
CKD	Control	31087	48 (15.26)	10468 (33.7%)	20619 (66.3%)
CHD	Case	14868	71 (11.14)	8788 (59.1%)	5719 (38.5%)
CHD	Control	105837	57 (16.45)	36051 (34.1%)	67248 (63.5%)
HyperC	Case	26709	68 (12.02)	11560 (43.3%)	14602 (54.7%)
HyperC	Control	11018	46 (15.16)	3388 (30.7%)	7368 (66.9%)
ProstateC	Case	3585	74 (8.16)	3494 (97.5%)	0 (0%)
ProstateC	Control	6230	72 (11.14)	6053 (97.2%)	0 (0%)
t2d	Case	21209	65 (12.57)	9353 (44.1%)	11320 (53.4%)
t2d	Control	42092	55 (16.78)	14356 (34.1%)	26791 (63.6%)
t1d	Case	1289	58 (16.24)	570 (44.2%)	695 (53.9%)
t1d	Control	42092	55 (16.78)	14356 (34.1%)	26791 (63.6%)

Non-Cisgender Asian	Black	Middle Eastern or North African	Multiple
300 (2.4%)	162 (1.3%)	2313 (18.8%)	271 (2.2%)
1024 (2.6%)	1019 (2.6%)	7230 (18.7%)	641 (1.7%)
228 (2.8%)	61 (0.7%)	809 (9.8%)	68 (0.8%)
411 (2.3%)	237 (1.3%)	3553 (20.1%)	245 (1.4%)
104 (2%)	80 (1.5%)	631 (11.8%)	52 (1%)
2896 (4%)	1380 (1.9%)	13612 (18.6%)	1299 (1.8%)
44 (0.5%)	77 (0.8%)	2202 (23.8%)	89 (1%)
0 (0%)	945 (3%)	4075 (13.1%)	645 (2.1%)
361 (2.4%)	157 (1.1%)	2262 (15.2%)	159 (1.1%)
2538 (2.4%)	2245 (2.1%)	17949 (17%)	1743 (1.6%)
547 (2%)	367 (1.4%)	475 (0.4%)	309 (1.2%)
262 (2.4%)	374 (3.4%)	3785 (14.2%)	251 (2.3%)
91 (2.5%)	23 (0.6%)	102 (0.4%)	28 (0.8%)
177 (2.8%)	60 (1%)	554 (8.9%)	71 (1.1%)
536 (2.5%)	343 (1.6%)	5199 (24.5%)	281 (1.3%)
945 (2.2%)	834 (2%)	81 (0.4%)	705 (1.7%)
24 (1.9%)	<20	4619 (11%)	209 (0.5%)
945 (2.2%)	834 (2%)	209 (0.5%)	705 (1.7%)

Native Hawaiian or Other Pacific Isl:	White	Hispanic	Median Record De	Disability
<20	7822 (63.5%)	1686 (13.7%)	141	2608 (21.2%)
20 (0.1%)	24408 (63.1%)	5030 (13%)	58	6034 (15.6%)
<20	6643 (80.8%)	430 (5.2%)	189	2286 (27.8%)
<20	11151 (63%)	2239 (12.7%)	181	3751 (21.2%)
0 (0%)	4008 (75.3%)	444 (8.3%)	171	988 (18.6%)
29 (0%)	46693 (63.9%)	9376 (12.8%)	95	12713 (17.4%)
<20	5889 (63.6%)	773 (8.3%)	201	2583 (27.9%)
<20	20558 (66.1%)	4829 (15.5%)	81	4780 (15.4%)
<20	10633 (71.5%)	1261 (8.5%)	200	4107 (27.6%)
43 (0%)	70293 (66.4%)	12560 (11.9%)	88	18235 (17.2%)
<20	19206 (71.9%)	2446 (9.2%)	180	5655 (21.2%)
<20	7334 (66.6%)	1216 (11%)	86	1459 (13.2%)
0 (0%)	2829 (78.9%)	177 (4.9%)	181	817 (22.8%)
<20	4968 (79.7%)	405 (6.5%)	235	2517 (40.4%)
<20	12080 (57%)	2900 (13.7%)	165	6040 (28.5%)
<20	31373 (74.5%)	4194 (10%)	95	6336 (15.1%)
<20	872 (67.6%)	139 (10.8%)	152	359 (27.9%)
<20	31373 (74.5%)	4194 (10%)	95	6336 (15.1%)

LGBTQIA	Income <50k	Income >150k	Advanced Degr	Less than HighSchool
1626 (13.2%)	5935 (48.2%)	1711 (13.9%)	3097 (25.2%)	691 (5.6%)
4351 (11.2%)	17965 (46.4%)	5914 (15.3%)	10335 (26.7%)	2521 (6.5%)
677 (8.2%)	3409 (41.5%)	1189 (14.5%)	2499 (30.4%)	308 (3.7%)
1739 (9.8%)	8605 (48.6%)	2343 (13.2%)	4461 (25.2%)	1277 (7.2%)
337 (6.3%)	1945 (36.5%)	996 (18.7%)	1766 (33.2%)	168 (3.2%)
8876 (12.2%)	35490 (48.6%)	9833 (13.5%)	18590 (25.5%)	4320 (5.9%)
567 (6.1%)	5082 (54.9%)	815 (8.8%)	2091 (22.6%)	566 (6.1%)
3169 (10.2%)	13294 (42.8%)	5356 (17.2%)	8516 (27.4%)	1653 (5.3%)
1256 (8.4%)	7261 (48.8%)	1863 (12.5%)	3742 (25.2%)	948 (6.4%)
11671 (11%)	46948 (44.4%)	16799 (15.9%)	29049 (27.4%)	5722 (5.4%)
2172 (8.1%)	11244 (42.1%)	4169 (15.6%)	7885 (29.5%)	1293 (4.8%)
1431 (13%)	4303 (39.1%)	2172 (19.7%)	3553 (32.2%)	407 (3.7%)
282 (7.9%)	1039 (29%)	788 (22%)	1392 (38.8%)	99 (2.8%)
506 (8.1%)	2435 (39.1%)	669 (10.7%)	1550 (24.9%)	86 (1.4%)
2065 (9.7%)	12205 (57.5%)	1617 (7.6%)	3855 (18.2%)	1763 (8.3%)
4711 (11.2%)	15586 (37%)	8263 (19.6%)	13626 (32.4%)	1430 (3.4%)
143 (11.1%)	632 (49%)	149 (11.6%)	271 (21%)	49 (3.8%)
4711 (11.2%)	15586 (37%)	8263 (19.6%)	13626 (32.4%)	1430 (3.4%)