

**Supplementary file:**

**Table 1: Characteristics of the study population according to their self-reported hypertension status, UK Biobank: 2006-2010, United Kingdom (N = 486,098).**

	No hypertension (0)	Hypertension (1)	Total	p
n	374479	111619	486098	-
<b>Gender</b>				
Female	209335 (78.9 %)	55916 (21.1 %)	265251 (100 %)	< 0.001
Male	165144 (74.8 %)	55703 (25.2 %)	220847 (100 %)	
<b>Age (in years)</b>				
37-49	100926 (88.5 %)	13115 (11.5 %)	114041 (100 %)	< 0.001
50-59	127142 (78.6 %)	34681 (21.4 %)	161823 (100 %)	
60 & above	146411 (69.6 %)	63823 (30.4 %)	210234 (100 %)	
<b>Townsend Quintiles</b>				
1	77113 (78.1 %)	21631 (21.9 %)	98744 (100 %)	< 0.001
2	75874 (77.5 %)	21983 (22.5 %)	97857 (100 %)	
3	74431 (77.3 %)	21861 (22.7 %)	96292 (100 %)	
4	74876 (77 %)	22421 (23 %)	97297 (100 %)	
5	72185 (75.3 %)	23723 (24.7 %)	95908 (100 %)	
<b>Ethnic Groups</b>				
Asian or Asian British	7068 (76.3%)	2195 (23.7%)	9263 (100%)	< 0.001
Black or Black British	5118 (66.6%)	2568 (33.4%)	7686 (100%)	
Chinese	1237 (81.3%)	285 (18.7%)	1522 (100%)	
Mixed	2283 (79.9%)	573 (20.1%)	2856 (100%)	
Other	3333 (77.3%)	979 (22.7%)	4312 (100%)	
White	355440 (77.2%)	105019 (22.8%)	460459 (100%)	
<b>Smoking Status</b>				
Current	41086 (80.2 %)	10175 (19.8 %)	51261 (100 %)	< 0.001
Never	208187 (78.2 %)	58141 (21.8 %)	266328 (100 %)	
Previous	125206 (74.3 %)	43303 (25.7 %)	168509 (100 %)	

<b>Alcohol Consumption Status</b>				
Current	345462 (77.2 %)	101858 (22.8 %)	447320 (100 %)	< 0.001
Never	16054 (75.1 %)	5334 (24.9 %)	21388 (100 %)	
Previous	12963 (74.5 %)	4427 (25.5 %)	17390 (100 %)	
<b>Chronic Respiratory Disease Status</b>				
Absent	368319 (76.7 %)	111619 (23.3 %)	479938 (100 %)	<0.001
Present	6160 (100 %)	0 (0 %)	6160 (100 %)	
<b>Medication Users</b>				
Other	367112 (76.9 %)	110068 (23.1 %)	477180 (100 %)	<0.001
Adrenergic agonists	44 (89.8 %)	5 (10.2 %)	49 (100 %)	
Intranasal steroids	7323 (82.6 %)	1546 (17.4 %)	8869 (100 %)	
<b>Body Mass Index (BMI) Categories</b>				
Healthy weight	135514 (86.9 %)	20441 (13.1 %)	155955 (100 %)	<0.001
Obese	77245 (64 %)	43376 (36 %)	120621 (100 %)	
Overweight	159396 (77 %)	47542 (23 %)	206938 (100 %)	
Underweight	2324 (89.9 %)	260 (10.1 %)	2584 (100 %)	

**Table 2: Characteristics of the study population according to their systolic hypertension status, UK Biobank: 2006-2010, United Kingdom (N = 485655).**

	<b>No Systolic Hypertension (0)</b>	<b>Systolic Hypertension (1)</b>	<b>Total</b>	<b>p</b>
n	273620	212035	485655	-
<b>Gender</b>				
Female	163679 (61.8%)	101215 (38.2 %)	264894 (100 %)	< 0.001
Male	109941 (49.8 %)	110820 (50.2 %)	220761 (100 %)	
<b>Age (in years)</b>				
37-49	86576 (76%)	27343 (24%)	113919 (100%)	< 0.001
50-59	96711 (59.8%)	64976 (40.2%)	161687 (100%)	
60 & above	90333 (43%)	119716 (57%)	210049 (100%)	
<b>Townsend Quintiles</b>				
1	54302 (55%)	44376 (45%)	98678 (100%)	
2	53759 (55%)	44029 (45%)	97788 (100%)	

3	53251 (55.3%)	42970 (44.7%)	96221 (100%)	< 0.001
4	55849 (57.5%)	41355 (42.5%)	97204 (100%)	
5	56459 (59%)	39305 (41%)	95764 (100%)	
<b>Ethnic Groups</b>				
Asian or Asian British	5858 (63.3%)	3399 (36.7%)	9257 (100%)	< 0.001
Black or Black British	4387 (57.2%)	3281 (42.8%)	7668 (100%)	
Chinese	1040 (68.3%)	482 (31.7%)	1522 (100 %)	
Mixed	1930 (67.6%)	925 (32.4%)	2855 (100 %)	
Other	2791 (64.8%)	1514 (35.2%)	4305 (100 %)	
White	257614 (56 %)	202434 (44 %)	460048 (100 %)	
<b>Smoking Status</b>				
Current	31555 (61.6 %)	19657 (38.4 %)	51212 (100 %)	< 0.001
Never	153126 (57.5 %)	112959 (42.5 %)	266085 (100 %)	
Previous	88939 (52.8 %)	79419 (47.2 %)	168358 (100 %)	
<b>Alcohol Consumption Status</b>				
Current	250748 (56.1 %)	196203 (43.9 %)	446951 (100 %)	< 0.001
Never	12343 (57.8 %)	9007 (42.2 %)	21350 (100 %)	
Previous	10529 (60.7 %)	6825 (39.3 %)	17354 (100 %)	
<b>Chronic Respiratory Disease Status</b>				
Absent	269868 (56.3 %)	209633 (43.7 %)	479501 (100 %)	<0.001
Present	3752 (61 %)	2402 (39 %)	6154 (100 %)	
<b>Medication Users</b>				
Other	268574 (56.3 %)	208170 (43.7 %)	476744 (100 %)	<0.001
Adrenergic agonists	24 (49%)	25 (51%)	49 (100%)	
Intranasal steroids	5022 (56.7%)	3840 (43.3%)	8862 (100%)	
<b>Body Mass Index (BMI) Categories</b>				
Healthy weight	104509 (67%)	51374 (33%)	155883 (100%)	<0.001
Obese	56877 (47.3%)	63454 (52.7%)	120331 (100%)	
Overweight	110229 (53.3%)	96628 (46.7%)	206857 (100%)	

Underweight	2005 (77.6%)	579 (22.4%)	2584 (100%)	
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**Table 3: Characteristics of the study population according to their diastolic hypertension status, UK Biobank: 2006-2010, United Kingdom (N = 485657).**

	No Diastolic Hypertension (0)	Diastolic Hypertension (1)	Total	p
n	370140	115517	485657	-
<b>Gender</b>				
Female	213795 (80.7 %)	51101 (19.3 %)	264896 (100 %)	< 0.001
Male	156345 (70.8 %)	64416 (29.2 %)	220761 (100 %)	
<b>Age (in years)</b>				
37-49	90471 (79.4%)	23448 (20.6%)	113919 (100%)	< 0.001
50-59	119331 (73.8%)	42356 (26.2%)	161687 (100%)	
60 & above	160338 (76.3%)	49713 (23.7%)	210051 (100%)	
<b>Townsend Quintiles</b>				
1	75547 (76.6%)	23131 (23.4%)	98678 (100%)	< 0.001
2	74478 (76.2%)	23310 (23.8%)	97788 (100%)	
3	73201 (76.1%)	23021 (23.9%)	96221 (100%)	
4	74055 (76.2%)	23149 (23.8%)	97204 (100%)	
5	72859 (76.1%)	22906 (23.9%)	95764 (100%)	
<b>Ethnic Groups</b>				
Asian or Asian British	7010 (75.7%)	2247 (24.3%)	9257 (100%)	< 0.001
Black or Black British	5241 (68.3%)	2427 (31.7%)	7668 (100%)	
Chinese	1171 (76.9%)	351 (23.1%)	1522 (100 %)	
Mixed	2213 (77.5%)	642 (22.5%)	2855 (100 %)	
Other	3327 (77.3%)	978 (22.7%)	4305 (100 %)	
White	351178 (76.3%)	108872 (23.7%)	460048(100 %)	
<b>Smoking Status</b>				
Current	39840 (77.8 %)	11372 (22.2 %)	51212 (100 %)	
Never	203127 (76.3 %)	62959 (23.7 %)	266085 (100 %)	

Previous	127173 (75.5 %)	41186 (24.5 %)	168358 (100 %)	< 0.001
<b>Alcohol Consumption Status</b>				
Current	339499 (76 %)	107454 (24 %)	446953 (100 %)	< 0.001
Never	16706 (78.2 %)	4644 (21.8 %)	21350 (100 %)	
Previous	13935 (80.3 %)	3419 (19.7 %)	17354 (100 %)	
<b>Chronic Respiratory Disease Status</b>				
Absent	365153 (76.2%)	114350 (23.8%)	479503 (100%)	<0.001
Present	4987 (81%)	1167 (19%)	6154 (100%)	
<b>Medication Users</b>				
Other	363423 (76.2 %)	113323 (23.8 %)	476746 (100%)	<0.001
Adrenergic agonists	36 (73.5%)	13 (26.5%)	49 (100%)	
Intranasal steroids	6681 (75.4%)	2181 (24.6%)	8862 (100%)	
<b>Body Mass Index (BMI) Categories</b>				
Healthy weight	134005 (86%)	21878 (14%)	155883 (100%)	<0.001
Obese	78290 (65.1%)	42042 (34.9%)	120332 (100%)	
Overweight	155496 (75.2%)	51362 (24.8%)	206858 (100%)	
Underweight	2349 (90.9%)	235 (9.1%)	2584 (100%)	