

Supplementary tables

Age group	Number of CVD conditions* n (%)					
	None	1	2	3	4	5 or more
Age <50 (N = 715,078)	710,902 (99.4)	3,439 (0.5)	570 (0.1)	136 (<0.1)	29 (<0.1)	2 (<0.1)
50-59 (N = 205,486)	195,984 (95.4)	6,642 (3.2)	2,062 (1.0)	642 (0.3)	132 (0.1)	24 (<0.1)
60-69 (N = 163,378)	142,985 (87.5)	13,146 (8.0)	4,929 (3.0)	1,690 (1.0)	493 (0.3)	135 (0.1)
70-79 (N = 117,531)	87,220 (74.2)	18,245 (15.5)	7,499 (6.4)	3,079 (2.6)	1,105 (0.9)	383 (0.3)
80+ (N = 73,701)	41,292 (56.0)	17,570 (23.8)	8,852 (12.0)	3,826 (5.2)	1,514 (2.1)	647 (0.9)

Supplementary Table S1. The prevalence of multimorbidity with cardiovascular conditions (coronary artery disease, atrial fibrillation, peripheral arterial disease, stroke/TIA, and congestive cardiac failure) in the RCGP RSC adult population, by age band.

Cardiovascular disease medications	CVD adult population n (%) (N = 271,684)
ACE inhibitors	165,987 (61.1)
Alpha blockers	28,914 (10.6)
Angiotensin II receptor blockers	63,027 (23.2)
Antiplatelets (including aspirin)	117,465 (43.2)
Glycosides	9,290 (3.4)
Calcium channel blockers	148,916 (54.8)
Centrally acting antihypertensives	6,623 (2.4)
Statins	163,534 (60.2)
Fibrates	5,604 (2.1)
Other lipid lowering drugs	12,987 (4.8)
Loop diuretics	47,626 (17.5)
Nicorandil	7,510 (2.8)
Nitrates	45,994 (16.9)
Potassium sparing diuretics	11,473 (4.2)
Super ventricular antiarrhythmic	8,911 (3.3)
Thiazide and thiazide-like diuretics	98,920 (36.4)
Vasodilator antihypertensives	6,371 (2.3)
Beta-blockers	114,269 (42.1)

Supplementary Table S2. The proportion of people with CVDs (n = 271,684) prescribed medications to treat CVD

Characteristic	OR	95% CI	P value
Age	1.083	1.082 - 1.084	<0.001
Gender (Male)	2.499	2.443 - 2.556	<0.001
Ethnicity			
White		1.000 [reference]	
Asian	1.322	1.251 - 1.398	<0.001
Black	0.393	0.352 - 0.438	<0.001
Mixed	0.763	0.645 - 0.903	0.002
Not recorded	0.848	0.720 - 0.998	0.048
Other	0.881	0.857 - 0.906	<0.001
IMD Quintile			
IMD Quintile 5 (least deprived)		1.000 [reference]	
IMD Quintile4	1.041	1.011 - 1.072	0.007
IMD Quintile3	1.081	1.048 - 1.115	<0.001
IMD Quintile2	1.140	1.102 - 1.179	<0.001
IMD Quintile1 (most deprived)	1.285	1.242 - 1.330	<0.001
IMD Quintile Not available	1.028	0.814 - 1.299	0.816
Smoking status			
Never		1.000 [reference]	
Active smoker	1.680	1.621 - 1.741	<0.001
Ex-smoker	1.549	1.509 - 1.591	<0.001
Not recorded	1.479	1.379 - 1.586	<0.001
Alcohol consumption			
Safe use		1.000 [reference]	
Non drinker	1.108	1.074 - 1.143	<0.001
Hazardous use	1.269	1.238 - 1.302	<0.001
Alcoholism	1.290	1.222 - 1.361	<0.001
Not recorded	0.679	0.640 - 0.720	<0.001
BMI Category			
Normal		1.000 [reference]	
Underweight	0.875	0.797 - 0.961	0.005
Overweight	1.285	1.251 - 1.320	<0.001
Obese Class 1	1.543	1.495 - 1.592	<0.001
Obese Class 2	1.689	1.614 - 1.767	<0.001
Obese Class 3	1.688	1.585 - 1.799	<0.001
Not recorded	0.635	0.591 - 0.681	<0.001
Diabetes			
No diabetes		1.000 [reference]	
Type 1 diabetes	1.320	1.040 - 1.674	0.022
Type 2 diabetes	2.354	2.043 - 2.712	<0.001
Unknown/other diabetes type	1.747	1.703 - 1.791	<0.001
Other known risk factors			
Uncontrolled SBP (>140mmHg)	0.717	0.701 - 0.734	<0.001
Hypertension diagnosis	1.478	1.443 - 1.513	<0.001
CKD (stages 3 to 5)	1.547	1.507 - 1.587	<0.001

Supplementary Table S3. Multivariable logistic regression for **coronary artery disease**. OR = Odd ratio; CI = Confidence interval; SBP = Systolic blood pressure; CKD = Chronic kidney disease.

Characteristic	OR	95% CI	P value
Age	1.095	1.093 - 1.096	<0.001
Gender (Male)	1.850	1.805 - 1.896	<0.001
Ethnicity			
White		1.000 [reference]	
Asian	0.432	0.390 - 0.477	<0.001
Black	0.376	0.328 - 0.430	<0.001
Mixed	0.569	0.454 - 0.713	<0.001
Not recorded	0.696	0.562 - 0.863	<0.001
Other	0.938	0.912 - 0.966	<0.001
IMD Quintile			
IMD Quintile 5 (least deprived)		1.000 [reference]	
IMD Quintile4	1.028	0.997 - 1.060	0.079
IMD Quintile3	1.012	0.978 - 1.046	0.496
IMD Quintile2	1.039	1.001 - 1.079	0.042
IMD Quintile1 (most deprived)	0.904	0.867 - 0.941	<0.001
IMD Quintile Not available	1.095	0.856 - 1.401	0.468
Smoking status			
Never		1.000 [reference]	
Active smoker	0.841	0.806 - 0.878	<0.001
Ex-smoker	1.088	1.059 - 1.119	<0.001
Not recorded	0.848	0.786 - 0.915	<0.001
Alcohol consumption			
Safe use		1.000 [reference]	
Non drinker	1.079	1.043 - 1.116	<0.001
Hazardous use	1.187	1.154 - 1.221	<0.001
Alcoholism	1.564	1.471 - 1.661	<0.001
Not recorded	0.892	0.843 - 0.945	<0.001
BMI Category			
Normal		1.000 [reference]	
Underweight	1.037	0.946 - 1.136	0.442
Overweight	1.108	1.076 - 1.141	<0.001
Obese Class 1	1.358	1.312 - 1.407	<0.001
Obese Class 2	1.842	1.753 - 1.934	<0.001
Obese Class 3	2.596	2.436 - 2.767	<0.001
Not recorded	0.939	0.881 - 1.002	0.057
Diabetes			
No diabetes		1.000 [reference]	
Type 1 diabetes	0.911	0.722 - 1.149	0.432
Type 2 diabetes	1.168	1.134 - 1.203	<0.001

Unknown/other diabetes type	1.197	0.645 - 2.222	0.569
Other known risk factors			
Uncontrolled SBP (>140mmHg)	0.680	0.662 - 0.697	<0.001
Hypertension diagnosis	1.500	1.461 - 1.540	<0.001
CKD (stages 3 to 5)	1.428	1.389 - 1.469	<0.001

Supplementary Table S4. Multivariable logistic regression for **atrial fibrillation**. OR = Odd ratio; CI = Confidence interval; SBP = Systolic blood pressure; CKD = Chronic kidney disease.