

Supplementary Table 1. Phenotype definitions

Phenotype	Type	UKB field	Code
chronic kidney disease	First report	first reported chronic nephritic syndrome(132004)	N03
		first reported isolated proteinuria with specified morphological lesion (132010)	N06
		first reported glomerular disorders in diseases classified elsewhere (132014)	N08
		first reported chronic tubulo-interstitial nephritis(132018)	N11
		first reported tubulo-interstitial nephritis, not specified as acute or chronic (132020)	N12
		first reported obstructive and reflux uropathy (132022)	N13
		first reported drug- and heavy-metal-induced tubulo-interstitial and tubular conditions (132024)	N14
		first reported other renal tubulo-interstitial diseases(132026)	N15
		first reported renal tubulo-interstitial disorders in diseases classified elsewhere (132028)	N16
		first reported chronic renal failure (132032)	N18
		first reported unspecified renal failure (132034)	N19
		first reported calculus of kidney and ureter (132036)	N20
		first reported calculus of lower urinary tract (132038)	N21
	Health outcomes	diagnoses ICD10 (41270, 41280), main ICD10 (41202,41262), secondary ICD10 (41204)	E85.3, N16.5,Q60.1, T82.4, T86.1, Y60.2,Y61.2, Y62.2, Y84.1,Z49.0,Z49.1, Z49.2, Z94.0, Z99.2
	OPCS4 (41272, 41282)		L74.1, L74.2, L74.3, L74.4, L74.5, L74.6, L74.8,L74.9, M01.2, M01.3, M01.4, M01.5, M01.8, M01.9, M02.3, M08.4, M17.2, M17.4, M17.8, M17.9, X40.1, X40.2, X40.3, X40.4, X40.5, X40.6, X40.7, X40.8,X40.9, X41.1, X41.2, X41.8, X41.9, X42.1, X42.8, X42.9, X43.1
	Blood assays	creatinine (30700, 30701)	CKD EPI (Cr - cystatin 2021) eGFR < 60
		cystatin C (30720, 30721)	
		urine albumin (30500), urine creatinine (30510)	UACR more than 30mg/gCr

hypertension	verbal interview	non-cancer illness, self-report (20002)	1065, 1072
	touchscreen	vascular/heart diagnosed by doctor (6150)	high blood pressure
	first occurrence	first reported of essential hypertension (131286, 131287)	I10.X
		first reported of hypertensive heart disease (131288, 131289)	I11.X
		first reported of hypertensive renal disease (131290, 131291)	I12.X
		first reported of hypertensive heart and renal disease (131292, 131293)	I13.X
		first reported of secondary hypertension (131294, 131295)	I15.X
	medication	medication for cholesterol, blood pressure or diabetes (6177)	blood pressure medication
	physical measures	systolic blood pressure, automated (4080)	≥ 140 mmHg
		diastolic blood pressure, automated (4079)	≥ 90 mmHg

dyslipidemia	verbal interview	non-cancer illness, self-report (20002)	high cholesterol (1473)
	first occurrence	first reported of disorders of lipoprotein metabolism and other lipidemia (130814, 130815)	E78.X

	medication	medication for cholesterol, blood pressure or diabetes (6177)	cholesterol lowering medication
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diabetes mellitus	verbal interview	non-cancer illness, self-report (20002)	diabetes (1220)
			type1 diabetes (1222)
			type 2 diabetes (1223)
	touchscreen	diabetes diagnosed by doctor (2443, 2976)	yes
	first occurrence	first reported of non-insulin-dependent diabetes mellitus (130708, 130709)	E11.X
		first reported of unspecified diabetes mellitus (130714, 130715)	E14.X
		first reported insulin-dependent diabetes mellitus (130706, 130707)	E10.X
	medication	treatment/medication code (20003)	insulin (1140884066)
			metformin (1140884600, 1141189090)
			sulfonylurea (1141152590, 1140874744, 1140874718, 1141156984)
			acarbose (1140868902)
			thiazolidinedione (1141171646)
			meglitinide (1141168660, 1141173882)
	samples assay	glycated hemoglobin (HbA1c) (30750)	≥ 6.5% (48 mmol/mol or over)
		glucose (30740)	≥ 11.1 mmol/L

coronary heart disease	verbal interview	non-cancer illness, self-report (20002)	angina (1074)
			heart attack/myocardial infarction (1075)
		operation code (20004)	coronary angioplasty (1070)
			coronary artery bypass graftes (1095)
	touchscreen	vascular/heart diagnosed by doctor (6150, 3627, 3894)	heart attack, angina
	first occurrence	first reported of angina pectoris (131296, 131297)	I20
		first reported of acute myocardial infarction (131298, 131299)	I21.X
		first reported of subsequent myocardial infarction (131300, 131301)	I22.X
		first reported of certain current complications following acute myocardial infarction (131302, 131303)	I23.X
		first reported of other acute ischemic heart disease (131304, 131305)	I24.X
		first reported of chronic ischemic heart disease (131306, 131307)	I25.X
	health outcomes	diagnoses ICD9 (41271, 41281)	4109, 4119, 4129, 4140, 4148, 4149
		diagnoses ICD10 (41270, 41280)	I20-25, I46, Z95.1
		OPCS4 (41272, 41282)	CABG (K40-48)
		OPCS3 (41273, 41283)	CABG (304.1, 304.2, 304.3)

ischemic stroke/hemorrhage	verbal interview	non-cancer illness, self-report (20002)	stroke (1081, 1082, 1583)
	first occurrence	first reported of other nontraumatic intracranial hemorrhage (131364, 131365)	I62.X

	before enrollment		
		first reported of cerebral infarction (I31362, I31363)	I63.X
		first reported of stroke, non specified as haemorrhage or infarction (I31368)	I64
	health outcomes	diagnoses ICD9 (41271, 41281)	4309, 4319, 4321, 4320, 4331, 4339, 4349, 4359, 4369, 4370, 4371, 4378, 4379, 4389
		diagnoses ICD10 (41270, 41280)	I60-69

Supplementary Table 2. Test the proportional hazards assumption in a Cox proportional hazards regression model using coxph

	chisq	df	p
Salt intake	2.96e+00	3	0.398
PRS risk	2.46e+00	3	0.4818
TDI	2.29e+00	1	0.1306
BMI	5.65e-03	1	0.94
age	4.12E+00	2	0.1311
Ischemic stroke	5.27e-02	1	0.8184
Smoking	8.38e+00	2	0.0152
Alcohol	1.89e+00	2	0.3888
Physical activity	1.97e+00	2	0.3736
eGFR	3.83e+00	1	0.0505
Diabetes	1.37e+00	1	0.2419
Coronary heart disease	1.66e+00	1	0.1973
Dyslipidemia	7.73e-05	1	0.993
Hypertension	2.92e+00	1	0.0873

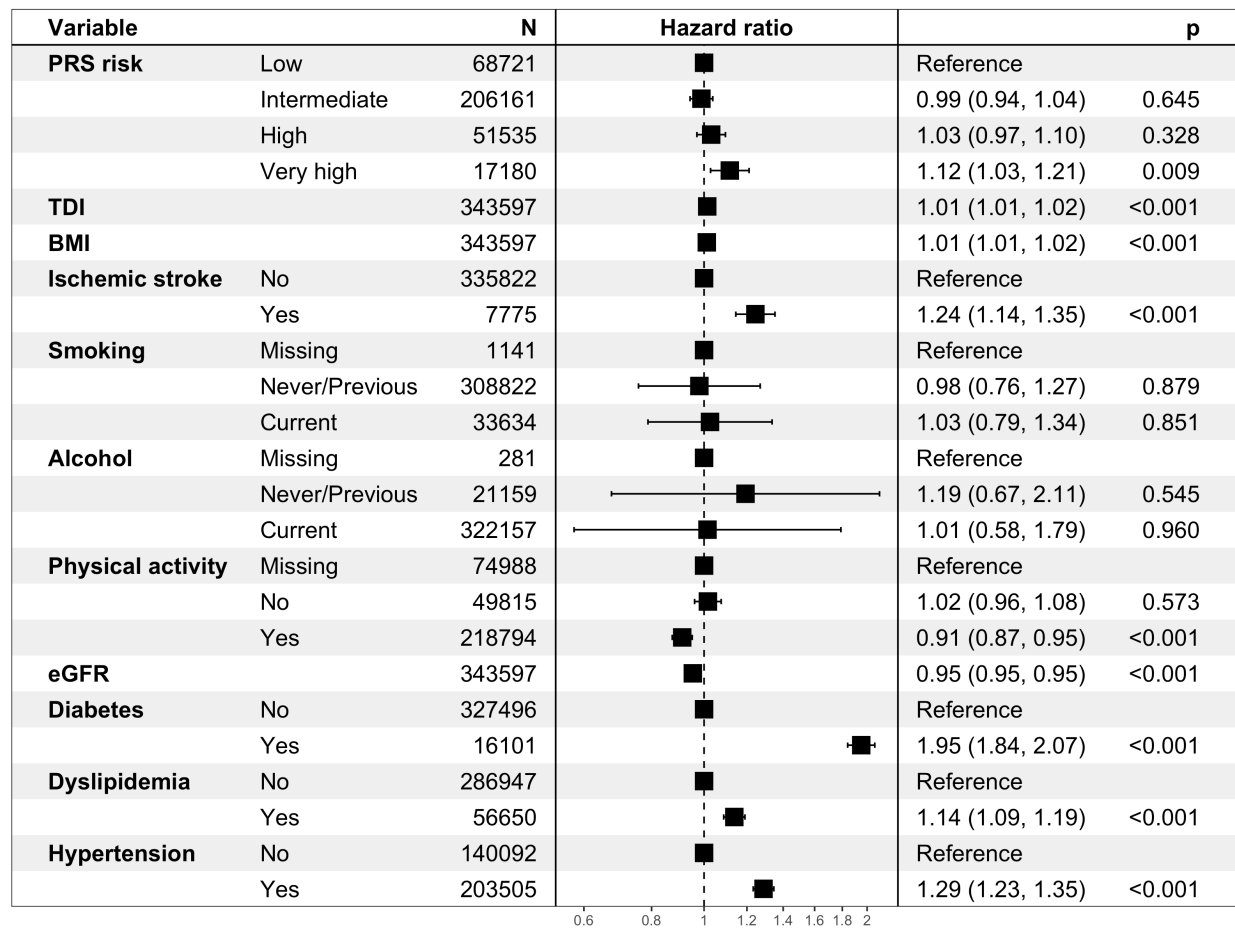
Supplementary Figure 1: Hazard ratios for PRS risk groups in model 1

Variable		N	Hazard ratio		p
PRS risk	Low	68721	■	Reference	
	Intermediate	206161	■	1.13 (1.07, 1.18)	<0.001
	High	51535	■	1.32 (1.24, 1.40)	<0.001
	Very high	17180	■	1.52 (1.41, 1.65)	<0.001
age_assessment		343597	■	1.08 (1.08, 1.08)	<0.001

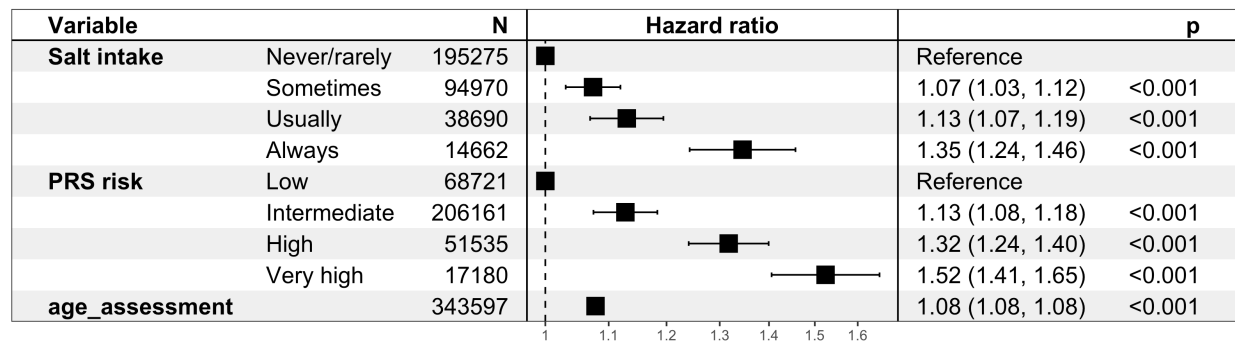
Supplementary Figure 2: Hazard ratios for PRS risk groups in model 2

Variable		N	Hazard ratio		p
PRS risk	Low	68721	■	Reference	
	Intermediate	206161	■	0.99 (0.94, 1.04)	0.66
	High	51535	■	1.03 (0.97, 1.09)	0.39
	Very high	17180	■	1.11 (1.03, 1.21)	0.01
TDI		343597	■	1.02 (1.02, 1.03)	<0.001
BMI		343597	■	1.03 (1.03, 1.03)	<0.001
Smoking	Missing	1141	■	Reference	
	Never/Previous	308822	■	0.95 (0.74, 1.23)	0.71
	Current	33634	■	1.01 (0.78, 1.32)	0.93
Alcohol	Missing	281	■	Reference	
	Never/Previous	21159	■	1.22 (0.69, 2.16)	0.49
	Current	322157	■	0.98 (0.56, 1.74)	0.96
Physical activity	Missing	74988	■	Reference	
	No	49815	■	1.03 (0.97, 1.09)	0.29
	Yes	218794	■	0.89 (0.86, 0.93)	<0.001
eGFR		343597	■	0.95 (0.95, 0.95)	<0.001

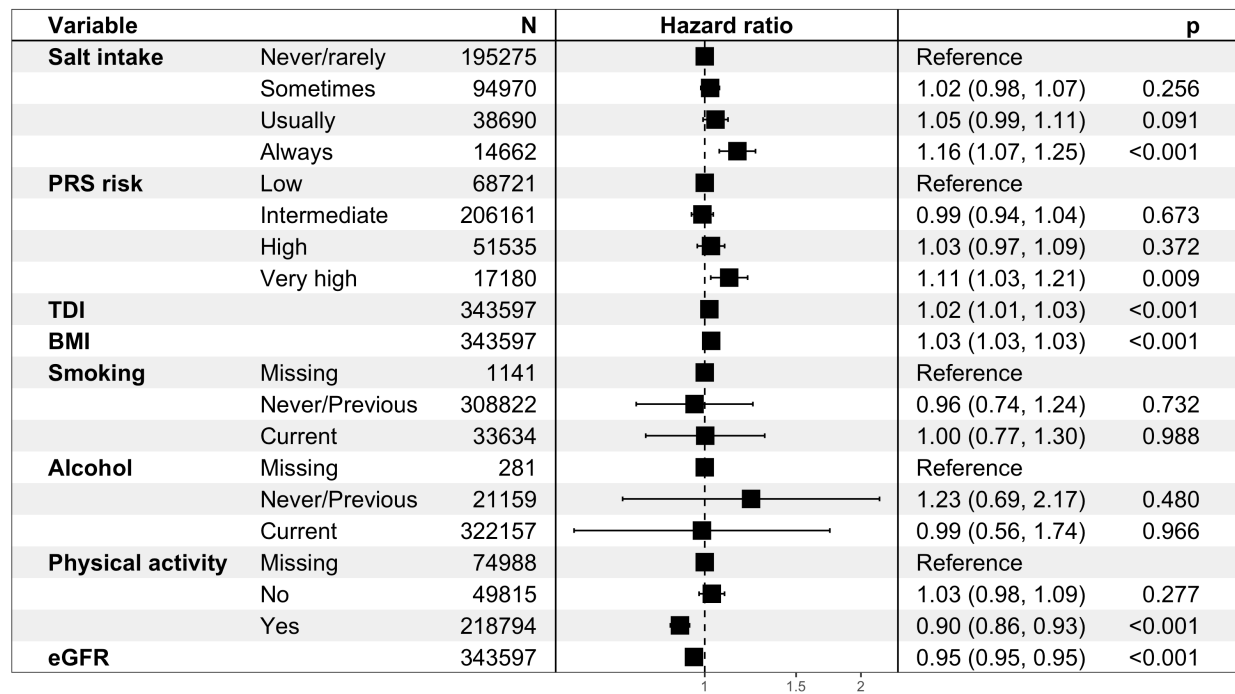
Supplementary Figure 3: Hazard ratios for PRS risk groups in model 3



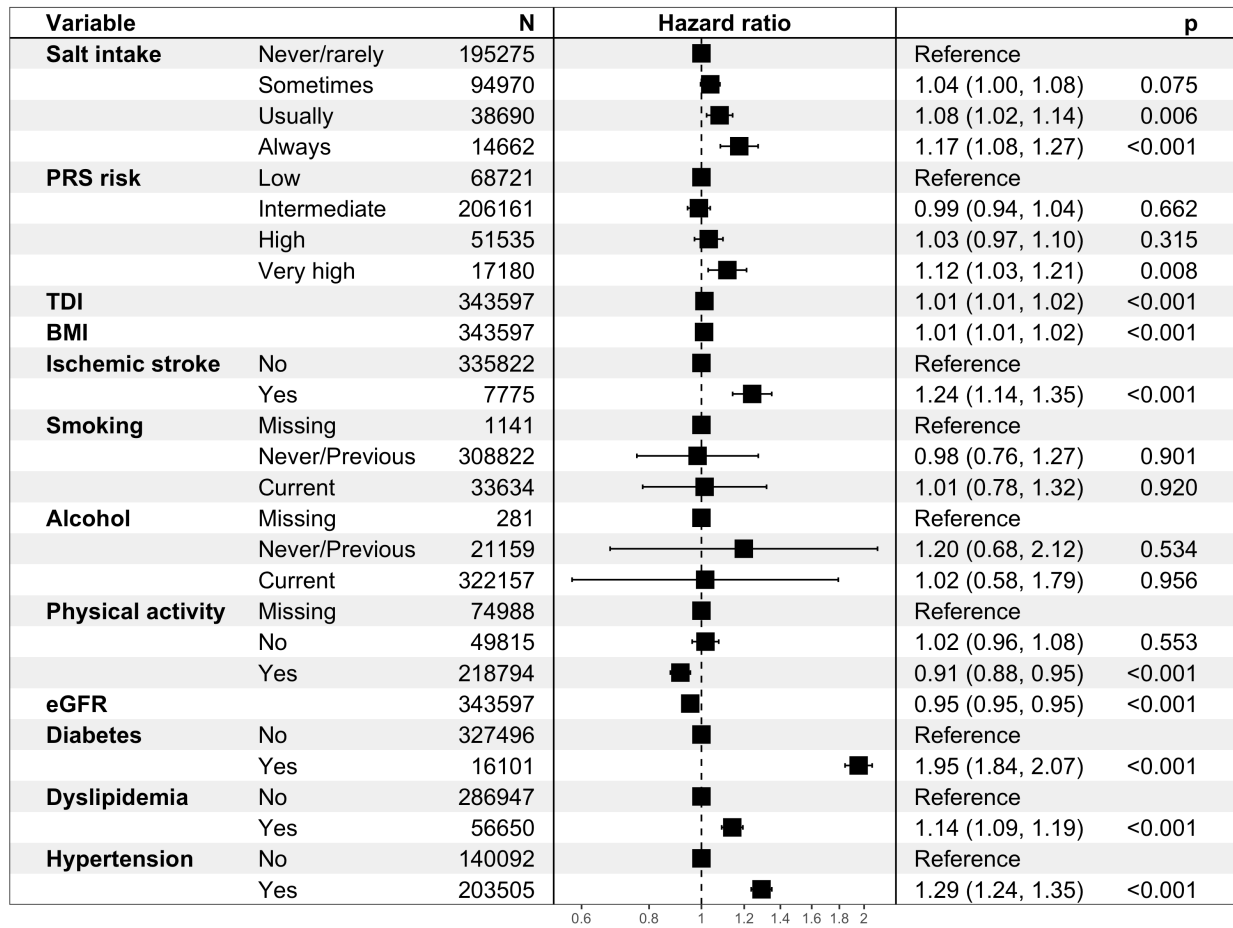
Supplementary Figure 4: Hazard ratios for Salt intake in model 1



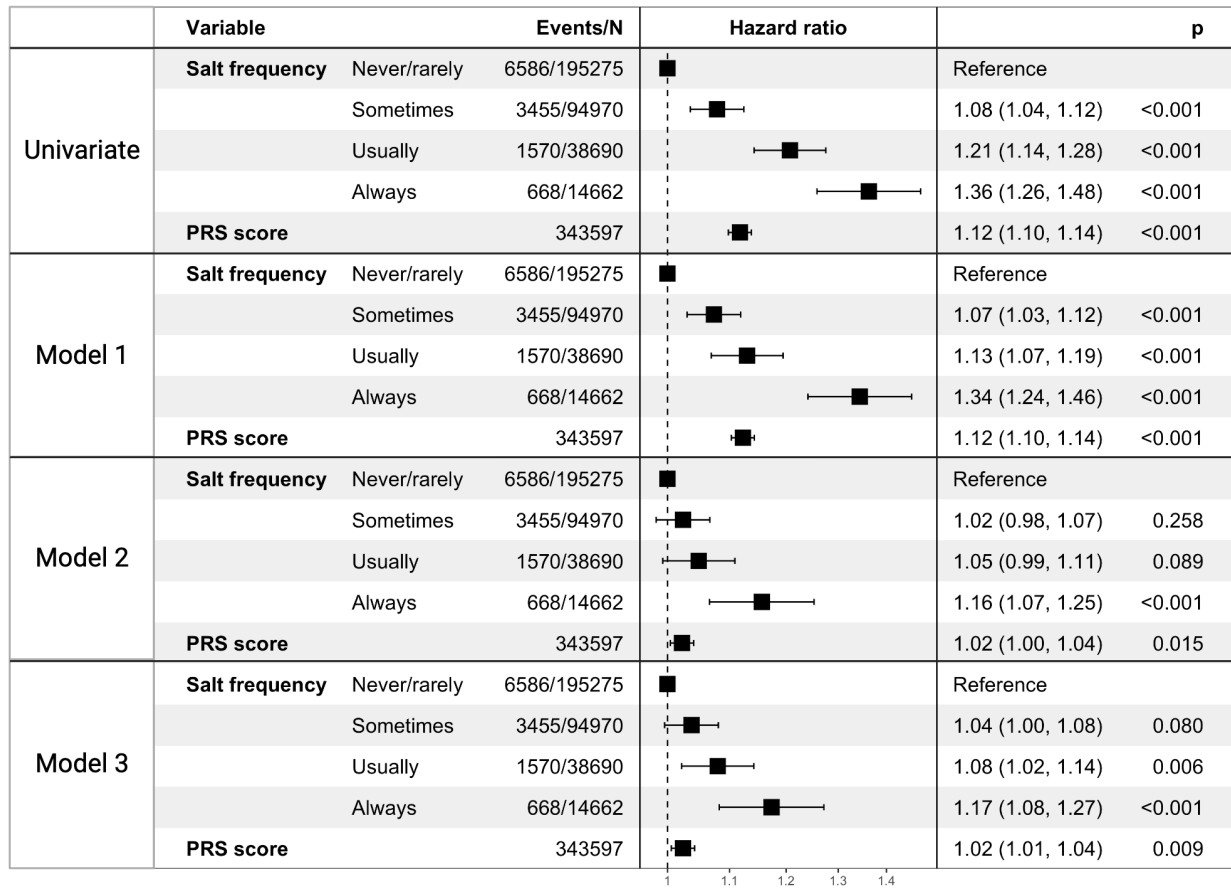
Supplementary Figure 5: Hazard ratios for Salt intake in model 2



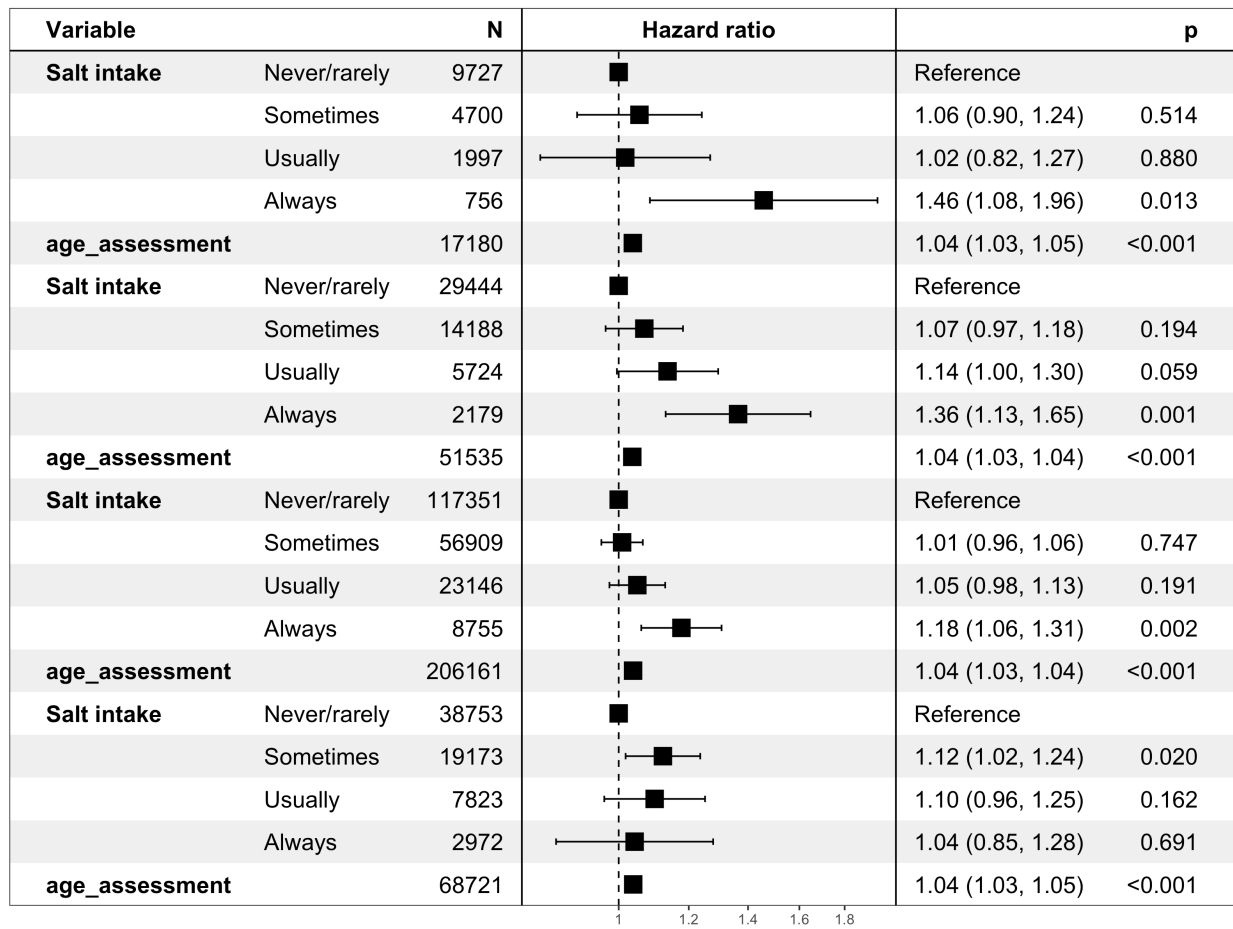
Supplementary Figure 6: Hazard ratios for Salt intake in model 3



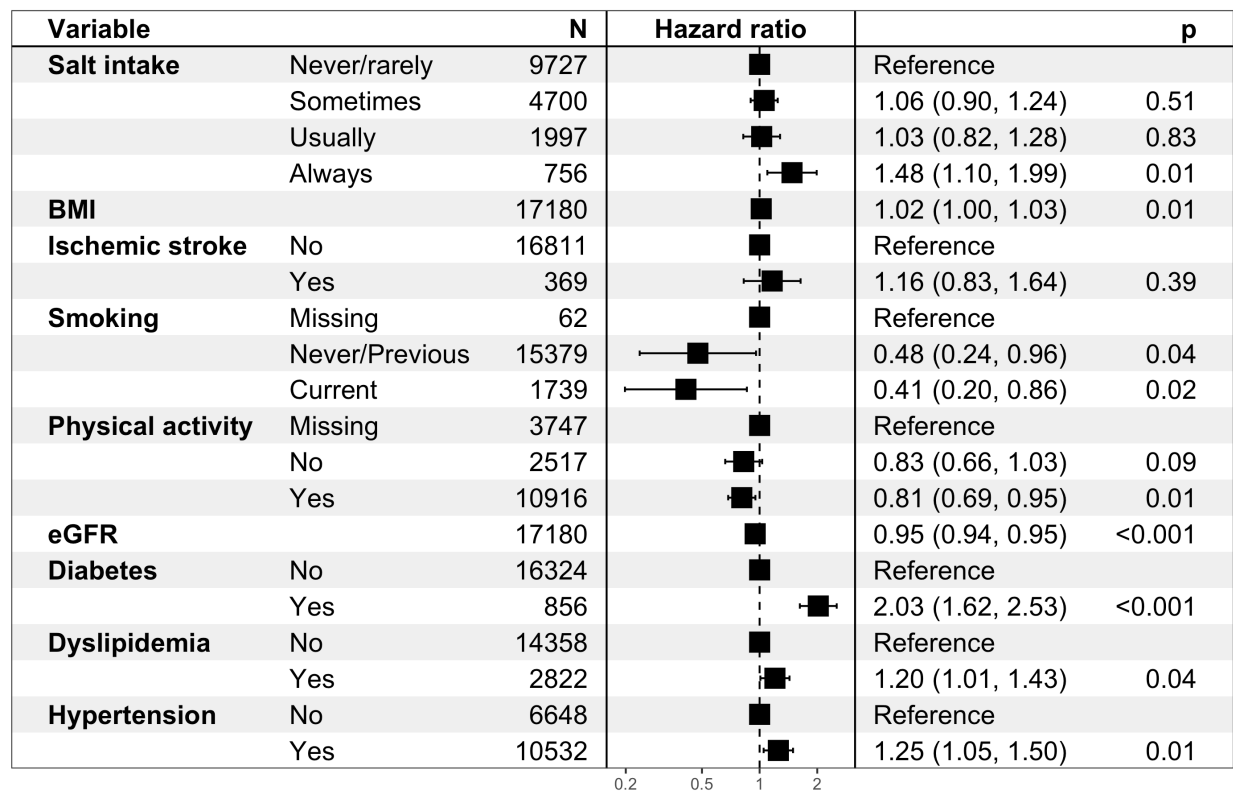
Supplementary Figure 7 Hazard ratios for PRS score (continuous) and salt intake for all models.



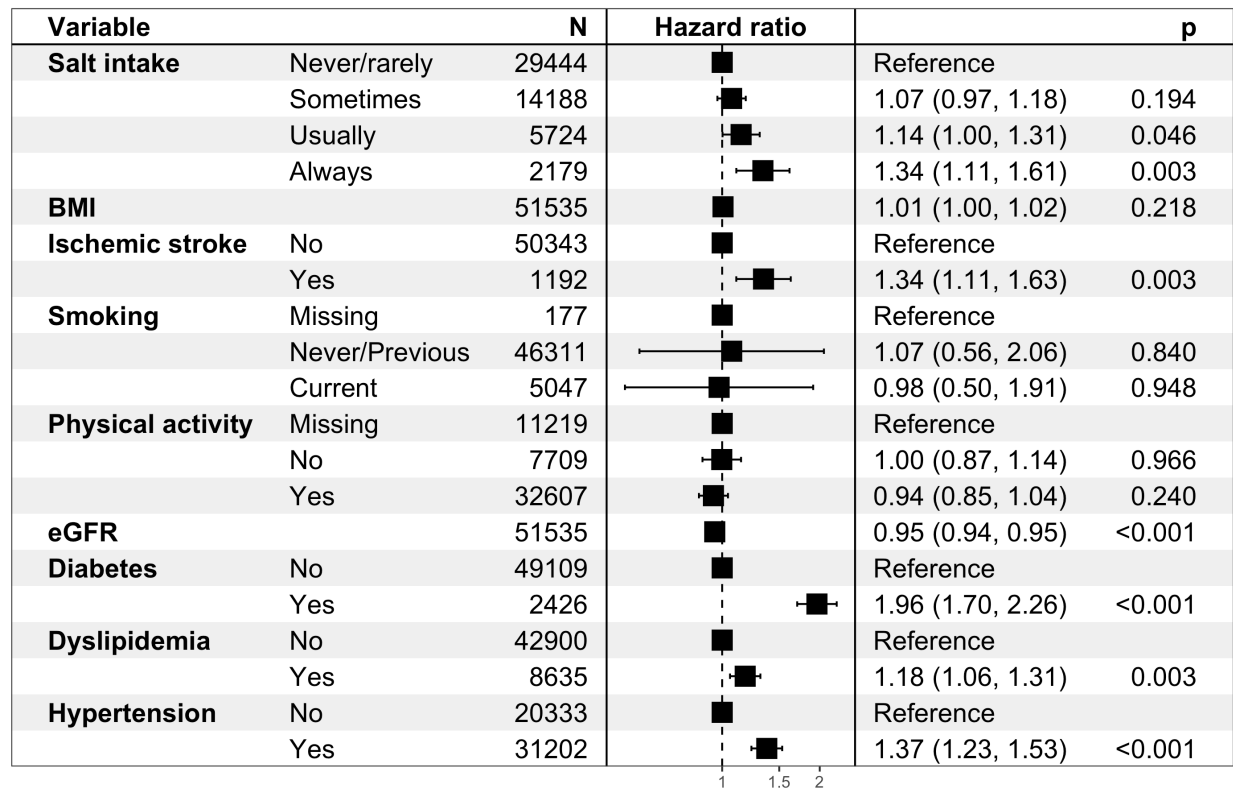
Supplementary Figure 8 Hazard ratios from model 1 for salt intake and covariates stratified for PRS risk groups



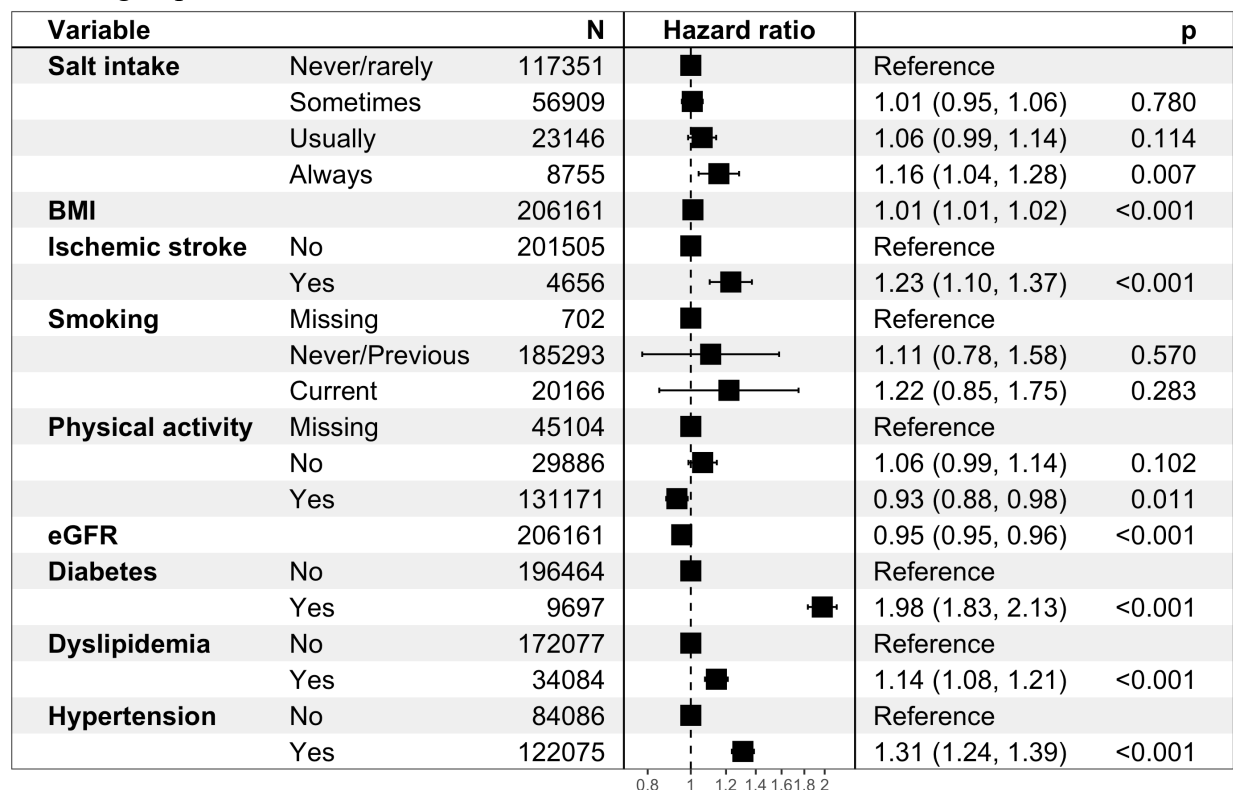
Supplementary Figure 9: Hazard ratios from model 3 for salt intake and covariates stratified for PRS risk group - very high



Supplementary Figure 10: Hazard ratios from model 3 for salt intake and covariates stratified for PRS risk group - high



Supplementary Figure 11: Hazard ratios from model 3 for salt intake and covariates stratified for PRS risk group – intermediate



Supplementary Figure 12: Hazard ratios from model 3 for salt intake and covariates stratified for PRS risk group – low

