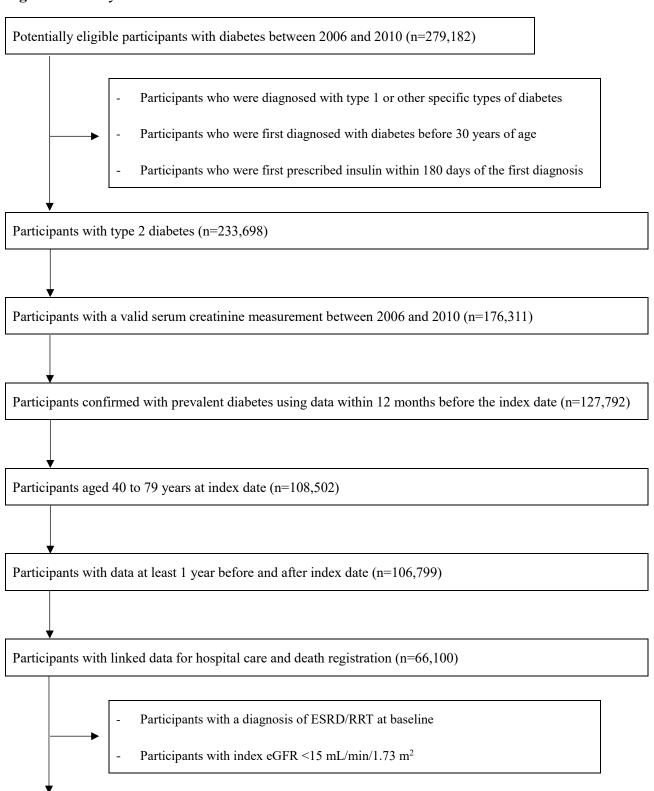
## SUPPLEMENTARY MATERIAL

Figure S1. Study cohort selection



## Participants with type 2 diabetes with non-ESRD at index date (n=65,861)

- Participants with missing data for smoking status, BMI, HbA1c, blood pressure and/or total cholesterol at baseline
- Participants with low or high BMI <18.5 or ≥45 kg/m², and HbA1c <42 mmol/mol</li>
  (<6.0%), systolic blood pressure <120 mmHg, diastolic blood pressure <60 mmHg,</li>
  and/or total cholesterol <3 mmol/L</li>

Study cohort for mortality evaluation (Overall N=47,860; CKD N=11,431; non-CKD N=36,429)

- Participants with a history of CVD at baseline
- Participants who developed CHD or stroke in the first year of follow-up

Study cohort for CVD evaluation

- CHD (Overall N=35,196; CKD N=7,048; non-CKD N=28,148)
- Stroke (Overall N=35,621; CKD N=7,159; non-CKD N=28,462)

BMI, body mass index; CKD, chronic kidney disease; CHD, coronary heart disease; CVD, Cardiovascular diseases; eGFR, estimated glomerular filtration rate; ESRD, end-stage renal disease; RRT, renal replacement therapy

Table S1. Breakdown of risk factors controlled according to chronic kidney disease and a history of cardiovascular diseases

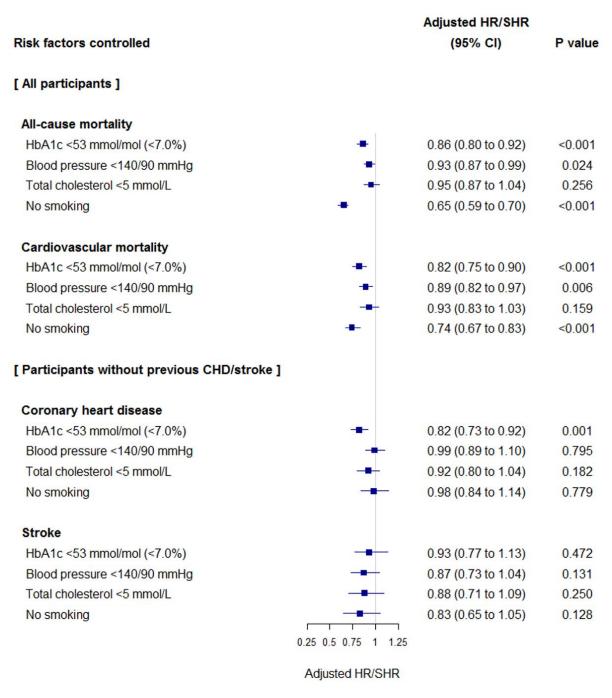
Number of	HbA1c <53 mmol/mol (<7.0%)	Blood pressure <140/90 mmHg	Total cholesterol <5 mmol/L	No smoking	CKD Non-CKD					
risk factors					Overall	No CVD	CVD	Overall	No CVD	CVD
controlled					(N=11,431)	(N=7,216)	(N=4,215)	(N=36,429)	(N=28,569)	(N=7,860)
0	_	_	_	_	138 (1)	87 (1)	51 (1)	806 (2)	678 (2)	128 (2)
1	Y	_	_	_	69 (0.6)	46 (0.6)	23 (0.6)	312 (1)	260 (0.9)	52 (0.7)
	_	Y	_	_	89 (0.8)	64 (0.9)	25 (0.6)	759 (2)	624 (2)	135 (2)
	_	_	Y	_	438 (4)	264 (4)	174 (4)	1,742 (5)	1,350 (5)	392 (5)
	_	_	_	Y	831 (7)	597 (8)	234 (6)	2,559 (7)	2,187 (8)	372 (5)
2	Y	Y	_	_	62 (0.5)	43 (0.6)	19 (0.5)	304 (0.8)	268 (0.9)	36 (0.5)
	Y	_	Y	_	245 (2)	152 (2)	93 (2)	794 (2)	590 (2)	204 (3)
	Y	_	_	Y	407 (4)	289 (4)	118 (3)	1,070 (3)	911 (3)	159 (2)
	_	Y	Y	_	390 (3)	215 (3)	175 (4)	1,911 (5)	1,446 (5)	465 (6)
	_	Y	_	Y	531 (5)	379 (5)	152 (4)	2,205 (6)	1,910 (7)	295 (4)
	_	_	Y	Y	2,527 (22)	1,615 (22)	912 (22)	7,004 (19)	5,477 (19)	1,527 (19)
3	Y	Y	Y	_	247 (2)	152 (2)	95 (2)	1,073 (3)	788 (3)	285 (4)
	Y	Y	_	Y	302 (3)	199 (3)	103 (2)	1,067 (3)	905 (3)	162 (2)
	Y	_	Y	Y	1,552 (14)	1,019 (14)	533 (13)	3,487 (10)	2,678 (9)	809 (10)
	_	Y	Y	Y	2,139 (19)	1,228 (17)	911 (22)	7,030 (19)	5,294 (19)	1,736 (22)
4	Y	Y	Y	Y	1,464 (13)	867 (12)	597 (14)	4,306 (12)	3,203 (11)	1,103 (14)

Y, meeting the criterion; –, not meeting the criterion

CKD, chronic kidney disease; CVD, (a history of) cardiovascular diseases

**Figure S2.** Relative hazards of individual risk factors controlled for mortality and cardiovascular events in (a) participants with chronic kidney disease (CKD) and (b) participants with non-CKD. Hazard ratios (HRs) for all-cause mortality and subdistribution hazard ratios (SHRs) for cardiovascular mortality, coronary heart disease, and stroke were adjusted for age, gender, CKD stage (for CKD cohort), body mass index, deprivation level, duration of diabetes, proteinuria status, a history of cardiovascular diseases (for mortality evaluation), prescribing of antidiabetic, antihypertensive, statins and antiplatelet drugs, and index year.

## (a) CKD



## (b) Non-CKD

		Adjusted HR/SHR	
Risk factors controlled		(95% CI)	P value
[ All participants ]			
All-cause mortality			
HbA1c <53 mmol/mol (<7.0%)	-	0.97 (0.91 to 1.03)	0.299
Blood pressure <140/90 mmHg	_	0.96 (0.91 to 1.02)	0.181
Total cholesterol <5 mmol/L	-	0.93 (0.87 to 1.00)	0.055
No smoking	•	0.55 (0.52 to 0.59)	<0.001
No smoking		0.00 (0.02 to 0.00)	30.001
Cardiovascular mortality			
HbA1c <53 mmol/mol (<7.0%)	-	0.93 (0.85 to 1.01)	0.076
Blood pressure <140/90 mmHg	-	0.94 (0.87 to 1.02)	0.119
Total cholesterol <5 mmol/L	-	0.85 (0.77 to 0.93)	0.001
No smoking	-	0.58 (0.53 to 0.64)	< 0.001
[ Participants without previous CHD/stroke ]			
Coronary heart disease			
HbA1c <53 mmol/mol (<7.0%)	+	0.83 (0.77 to 0.90)	< 0.001
Blood pressure <140/90 mmHg	-	0.90 (0.84 to 0.96)	0.001
Total cholesterol <5 mmol/L	-	0.80 (0.74 to 0.86)	< 0.001
No smoking	-	0.77 (0.71 to 0.83)	< 0.001
Stroke			
HbA1c <53 mmol/mol (<7.0%)		0.92 (0.80 to 1.05)	0.207
Blood pressure <140/90 mmHg	-	0.77 (0.68 to 0.88)	<0.001
Total cholesterol <5 mmol/L	-	0.76 (0.66 to 0.88)	< 0.001
No smoking	-	0.66 (0.57 to 0.76)	<0.001
	0.25 0.5 0.75 1 1.25		