

Supplemental Table 1. Baseline characteristics among UK adults with type 2 diabetes mellitus from 01 Jan 2005 to 31 Dec 2015 by cardiovascular disease.

Baseline characteristics in UK Diabetics		Total T2DM Subjects	Incident Heart Failure		Incident Myocardial Infarction		Incident Ischemic Stroke		Incident MACE+	
			No	Yes	No	Yes	No	Yes	No	Yes
N (%*)		110 836	104 696	6 140 (5.5)	108 116	2 720 (2.5)	109 630	1 206 (1.1)	101 608	9 228 (8.3)
Age (years)	Mean (SD)	63.4 (14.8)	62.93 (14.9)	71.43 (10.3)	63.26 (14.8)	68.97 (12.0)	63.33 (14.8)	69.55 (11.2)	62.76 (14.9)	70.48 (11.0)
Gender Male	n (%)	57 777 (52)	54 258 (52)	3 519 (57)	56 093 (52)	1 684 (62)	57 105 (52)	672 (56)	52 393 (52)	5 384 (58)
Smoker (Yes)	n (%)	16 589 (15)	15 697 (15)	892 (15)	16 083 (15)	506 (19)	16 386 (15)	203 (17)	15 136 (15)	1 453 (16)
SBP(mm Hg)	Mean (SD)	140.05 (15.9)	139.9 (15.8)	142.44 (16.8)	139.97 (15.8)	142.74 (16.8)	140 (15.9)	144.1 (16.8)	139.8 (15.8)	142.64 (16.8)
DBP(mm Hg)	Mean (SD)	78.99 (8.8)	79.12 (8.8)	76.91 (8.8)	79.02 (8.8)	77.89 (9.2)	78.99 (8.8)	78.65 (9.2)	79.14 (8.8)	77.42 (9.0)
LDL (mmol/L)	Mean (SD)	101.55 (33.8)	101.93 (33.8)	95.49 (32.5)	101.53 (33.7)	102.34 (35.3)	101.57 (33.8)	99.61 (33.6)	101.92 (33.8)	97.62 (33.4)
TG(mmol/L)	Mean (SD)	173.49 (99.2)	173.57 (99.4)	172.18 (96.5)	173.36 (99.1)	178.53 (103.4)	173.51 (99.2)	171.55 (96)	173.43 (99.2)	174.14 (98.9)
BMI (kg/m2)	Mean (SD)	30.47 (6.2)	30.45 (6.2)	30.74 (6.1)	30.49 (6.2)	29.8 (5.7)	30.48 (6.2)	29.74 (5.8)	30.47 (6.2)	30.41 (6)
Follow-up years	Mean (SD)	7.07 (3.7)	7.06 (3.7)	7.19 (3.4)	7.08 (3.7)	6.58 (3.6)	7.06 (3.7)	8.02 (3)	7.07 (3.7)	7.13 (3.4)
	Median	8.04	8.06	7.87	8.07	6.84	8.04	8.77	8.06	7.87
Diabetes Mellitus II Duration (yrs)	Mean (SD)	4.22 (3)	4.19 (3.0)	4.87 (3.1)	4.21 (3.0)	4.85 (3.1)	4.22 (3)	4.53 (3)	4.17 (3.0)	4.8 (3.1)
	Median	3.58	3.53	4.42	3.56	4.38	3.57	3.97	3.51	4.32
T2DM >= 5 yrs	n (%)	39 682 (35.8)	36 933 (35.3)	2 749 (44.8)	38 477 (35.6)	1 205 (44.3)	39 187 (35.7)	495 (41)	35 638 (35.1)	4 044 (43.8)

Supplemental Table 2. Proportional hazards regression models in 30 222 adults with T2DM and CKD estimating time to CVD outcomes by eGFR measures

Adjusted Cardiovascular Outcomes [HR and 95% CI]

eGFR Variable	Heart Failure (n=1185)	Myocardial Infarction (n=311)	Ischaemic Stroke (n=195)	MACE + (n=1588)
Updated Mean Categorical*				
Mean eGFR ≥ 30 to 60	1.71 (1.43 - 2.05)	1.71 (1.43 - 2.05)	1.61 (1.04 - 2.49)	1.63 (1.40 - 1.91)
Mean eGFR < 30	2.34 (1.86 - 2.94)	2.34 (1.86 - 2.94)	2.72 (1.58 - 4.68)	2.33 (1.92 - 2.84)
eGFR Updated Slope Continuous	0.99 (0.99 - 1.00)	0.99 (0.99 - 1.00)	0.99 (0.98 - 1.01)	0.99 (0.99 - 1.00)
Updated eGFR Slope Categorical\square				
Latest Updated Slope 0 to 3	1.02 (0.85 - 1.23)	1.10 (0.78 - 1.57)	1.19 (0.76 - 1.85)	1.06 (0.90 - 1.24)
Latest Updated Slope -3 to < 0	1.23 (1.03 - 1.47)	1.16 (0.83 - 1.63)	1.32 (0.86 - 2.01)	1.22 (1.05 - 1.42)
Latest Updated Slope < -3	1.48 (1.27 - 1.76)	1.39 (1.01 - 1.91)	1.33 (0.88 - 2.01)	1.45 (1.26 - 1.67)
Updated Mean and Slope**				
Updated Mean eGFR ≥ 30 to 60	1.67 (1.39 - 2.00)	1.41 (1.01 - 1.96)	1.57 (1.02 - 2.44)	1.59 (1.37 - 1.86)
Updated Mean eGFR < 30	2.24 (1.78 - 2.83)	2.25 (1.47 - 3.45)	2.62 (1.51 - 4.53)	2.24 (1.84 - 2.74)
Updated eGFR Slope 0 to 3	0.95 (0.79 - 1.15)	1.03 (0.72 - 1.47)	1.09 (0.70 - 1.71)	0.98 (0.84 - 1.15)
Updated eGFR Slope -3 to < 0	1.12 (0.94 - 1.34)	1.05 (0.75 - 1.49)	1.18 (0.77 - 1.81)	1.11 (0.95 - 1.29)
Updated eGFR Slope < -3	1.38 (1.17 - 1.63)	1.28 (0.93 - 1.76)	1.22 (0.80 - 1.85)	1.34 (1.16 - 1.54)

HR estimates for CKD variables and 95% confidence intervals are based on the linear effect model per mean or slope and categorized eGFR slope variables. Fully adjusted models include the following baseline variables: age, sex, BMI, SBP, DBP, smoking, LDL, Triglycerides, Diabetes duration, RAAS, MRA, and Hyperkalemia. Reference categories include: *eGFR updated mean category ≥ 60 ml/L and \square Updated latest slope ≥ 3 are the reference categories. **Both updated mean and updated slope were assessed in the same model; interaction effects were non-significant for all events analyzed, results not shown.