ONLINE SUPPLEMENTAL MATERIAL

Supplemental Table 1 Association of fiber intake with estimated glomerular filtration rate using the CKD-EPI equation (mL/min/1.73m^2).

Linear regression models	Cut point	**Unadjusted**		**Model 1**		**Model 2**	
		Difference (95% CI)	***P***	**Difference (95% CI)**	***P***	**Difference (95% CI)**	***P***
Entire cohort (n=1110)							
Dietary fiber	Per 10g/day higher	3.68 (1.53, 5.82)	0.001	3.06 (0.81, 5.30)	0.01	2.58 (0.30, 4.87)	0.03

Covariates in model 1 include protein intake (energy adjusted), age, BMI, smoking, physical activity, and education.

Covariates in model 2 include protein intake (energy adjusted), age, BMI, smoking, physical activity, education, cardiovascular disease, diabetes, hyperlipidemia, hypertension, and urinary albumin excretion rate.

Abbreviations: CI, confidence interval.

Supplemental Table 2 Associations of dietary fiber with serum IL-6 (per Log_2 increase, ng/L) (n=1110).

Linear regression models	Cut point/limits	**Unadjusted**		**Model 1**		**Model 2**	
		Difference (95% CI)	***P***	**Difference (95% CI)**	***P***	**Difference (95% CI)**	***P***
Continuous Model	10g/day higher						
All participants		-0.30 (-0.49, -0.12)	0.001	-0.14 (-0.34, 0.05)	0.14	-0.11 (-0.30, 0.09)	0.27
eGFR≥60mL/min/1.73m^2		-0.27 (-0.52,-0.02)	0.03	-0.09 (-0.34,0.17)	0.50	-0.10 (-0.36,0.16)	0.45
eGFR<60mL/min/1.73m^2		-0.29 (-0.57,-0.01)	0.04	-0.20 (-0.49,0.09)	0.19	-0.14 (-0.44,0.15)	0.34
P for interaction		0.92		0.61		0.74	
Multi-category Model							
Quartile 1	≤14.5 g/day	Reference		Reference		Reference	
Quartile 2	>4.5-16.8 g/day	-0.17 (-0.37, 0.03)	0.09	-0.11 (-0.32, 0.10)	0.31	-0.11 (-0.32, 0.10)	0.31
Quartile 3	>16.8-19.2 g/day	-0.30 (-0.50, -0.10)	0.01	-0.23 (-0.44, -0.02)	0.03	-0.20 (-0.41, 0.00)	0.05
Quartile 4	> 19.2 g/day	-0.41 (-0.61, -0.21)	<0.001	-0.25 (-0.46, -0.05)	0.02	-0.23 (-0.44, -0.02)	0.03
P for trend		<0.001		0.05		0.13	

Total participants, n=1110: eGFR≥60mL/min/1.73m^2, n= 604; eGFR<60mL/min/1.73m^2, n= 506

Covariates in model 1 includes protein intake (energy adjusted), age, BMI, smoking status, physical activity, and education.

Covariates in model 2 includes protein intake (energy adjusted), age, BMI, smoking status, physical activity, education, cardiovascular disease, diabetes, hyperlipidemia, hypertension, urinary albumin excretion rate and estimated glomerular filtration rate.

Abbreviations: OR, odd ratio; CI, confidence interval.

Supplemental Table 3 Associations of dietary fiber with elevated serum CRP (>3 mg/L) stratified by CKD-EPI equation (n=1110).

Fiber intake		**Unadjusted**		**Model 1**		**Model 2**	
	Cut point	**OR (95% CI)**	***P***	**OR (95% CI)**	***P***	**OR (95% CI)**	***P***
Continuous Model	10g/day higher						
All participants		0.57 (0.40, 0.81)	0.002	0.68 (0.46, 0.99)	0.04	0.73 (0.50, 1.08)	0.12
eGFR≥60mL/min/1.73m^2		0.56 (0.32,0.99)	0.05	0.61(0.33,1.13)	0.12	0.68 (0.31,1.11)	0.10
eGFR<60mL/min/1.73m^2		0.62 (0.39,0.97)	0.04	0.74(0.46,1.21)	0.24	0.84 (0.50,1.40)	0.49
P for interaction		0.80		0.57		0.39	

Total participants, n=1110: eGFR≥60mL/min/1.73m^2, n= 490; eGFR<60mL/min/1.73m^2, n= 620

Covariates in model 1 includes protein intake (energy adjusted), age, BMI, smoking status, physical activity, and education.

Covariates in model 2 includes protein intake (energy adjusted), age, BMI, smoking status, physical activity, education, cardiovascular disease, diabetes, hyperlipidemia, hypertension, urinary albumin excretion rate and estimated glomerular filtration rate.

Abbreviations: OR, odd ratio; CI, confidence interval.

Supplemental Table 4 Associations of dietary fiber (per 10g/day higher) with risk of mortality excluding deaths that occurred within 2 years from baseline (n=1090).

	No of events	**Unadjusted**		**Adjusted**	
Outcomes	**/No.at risk**	HR (95% CI)	*P* value	HR (95% CI)	*P* value
All-cause mortality					
All participants	280/1090	0.67 (0.48, 0.94)	0.02	0.83 (0.57, 1.20)	0.32
eGFR≥60mL/min/1.73m2	124/596	1.03 (0.64, 1.65)	0.89	1.29 (0.75, 2.22)	0.36
eGFR<60mL/min/1.73m2	156/494	0.49 (0.31, 0.79)	0.01	0.59 (0.36, 0.99)	0.04
P for interaction		0.03		0.04	
CVD-mortality					
All participants	127/1090	0.91 (0.57, 1.46)	0.70	1.20 (0.71, 2.02)	0.49
eGFR≥60mL/min/1.73m2	46/596	1.30 (0.62, 2.77)	0.48	1.56 (0.66, 3.68)	0.31
eGFR<60mL/min/1.73m2	81/494	0.81 (0.44, 1.49)	0.50	1.06 (0.55, 2.06)	0.85
P for interaction		0.34		0.78	
Cancer-mortality					
All participants	103/1090	0.59 (0.34, 1.00)	0.05	0.62 (0.33, 1.15)	0.13
eGFR≥60mL/min/1.73m2	51/596	1.10 (0.53, 2.28)	0.79	1.51 (0.64, 3.59)	0.35
eGFR<60mL/min/1.73m2	52/494	0.30 (0.13, 0.70)	0.01	0.31 (0.12, 0.81)	0.02
P for interaction		0.02		0.01	

Covariates in adjusted model includes protein intake (energy adjusted), age, BMI, smoking status, physical activity, education, cardiovascular disease, diabetes, hyperlipidemia, hypertension, and estimated glomerular filtration rate, urinary albumin excretion rate and CRP (additionally cancer at baseline was included in the cancer related mortality analysis).

Abbreviations: CVD, cardiovascular disease; HR, hazard ration; CI, confidence interval

Supplemental Table 5 Associations of dietary fiber (per 10g/day higher) with risk of mortality stratified by CKD-EPI equation (n=1110).

	No. of events/	**Unadjusted**		**Adjusted Model**	
Outcomes	No.at risk	HR (95% CI)	*P* value	HR (95% CI)	*P* value
All-cause mortality					
All participants	300/1110	0.66 (0.48, 0.91)	0.01	0.80 (0.56, 1.15)	0.23
eGFR≥60mL/min/1.73m^2	107/490	1.17 (0.70, 1.95)	0.54	1.47 (0.84, 2.58)	0.18
eGFR<60mL/min/1.73m^2	193/620	0.50 (0.33, 0.75)	0.001	0.59 (0.37, 0.96)	0.03
P for interaction		0.01		0.02	
CVD-mortality					
All participants	127/1110	0.87 (0.55, 1.38)	0.56	1.13 (0.68, 1.89)	0.64
eGFR≥60mL/min/1.73m^2	43/490	1.26 (0.57, 2.78)	0.57	2.00 (0.83, 4.82)	0.12
eGFR<60mL/min/1.73m^2	95/620	0.80 (0.46, 1.39)	0.42	0.90 (0.48, 1.70)	0.74
P for interaction		0.35		0.36	
Cancer-mortality					
All participants	111/1110	0.57 (0.33, 0.97)	0.04	0.60 (0.32, 1.10)	0.09
eGFR≥60mL/min/1.73m^2	44/490	1.56 (0.73, 3.37)	0.25	1.61 (0.68, 3.85)	0.28
eGFR<60mL/min/1.73m^2	67/620	0.28 (0.14, 0.58)	0.001	0.35 (0.15, 0.84)	0.02
P for interaction		0.001		0.01	

Covariates in adjusted model includes protein intake (energy adjusted), age, BMI, smoking status, physical activity, education, cardiovascular disease, diabetes, hyperlipidemia, hypertension, and estimated glomerular filtration rate, urinary albumin excretion rate and CRP (additionally cancer at baseline was included in the cancer related mortality analysis).

Abbreviations: CVD, cardiovascular disease; HR, hazard ration; CI, confidence interval