

**Table S1. Univariate logistic analysis of risk factors of cognitive impairment.**

	OR	95%CI	P
Education	0.69	0.55-0.86	0.001
Smoking	6.05	2.60-14.85	<0.001
Log <sub>2</sub> KIM-1	1.31	1.05-1.68	0.020
Log <sub>2</sub> NGAL	1.43	1.24-1.86	0.005
Log <sub>2</sub> β2M	1.51	1.17-2.02	0.002

**Table S2. Data range of basic variables of study population**

Variables	Control group (Val min-Val maximum)	Cognitive impairment group (Val min-Val maximum)
Age(years)	60-94	62-90
BMI (kg/m <sup>2</sup> )	21.58-29.44	19.79-29.92
Education (years)	2-15	1-10
LDL (mmol/L)	2.38-3.90	2.28-4.25
eGFR (mL/min/1.73m <sup>2</sup> )	22.80-59.81	20.31-59.14
MoCA (points)	26-30	9-25