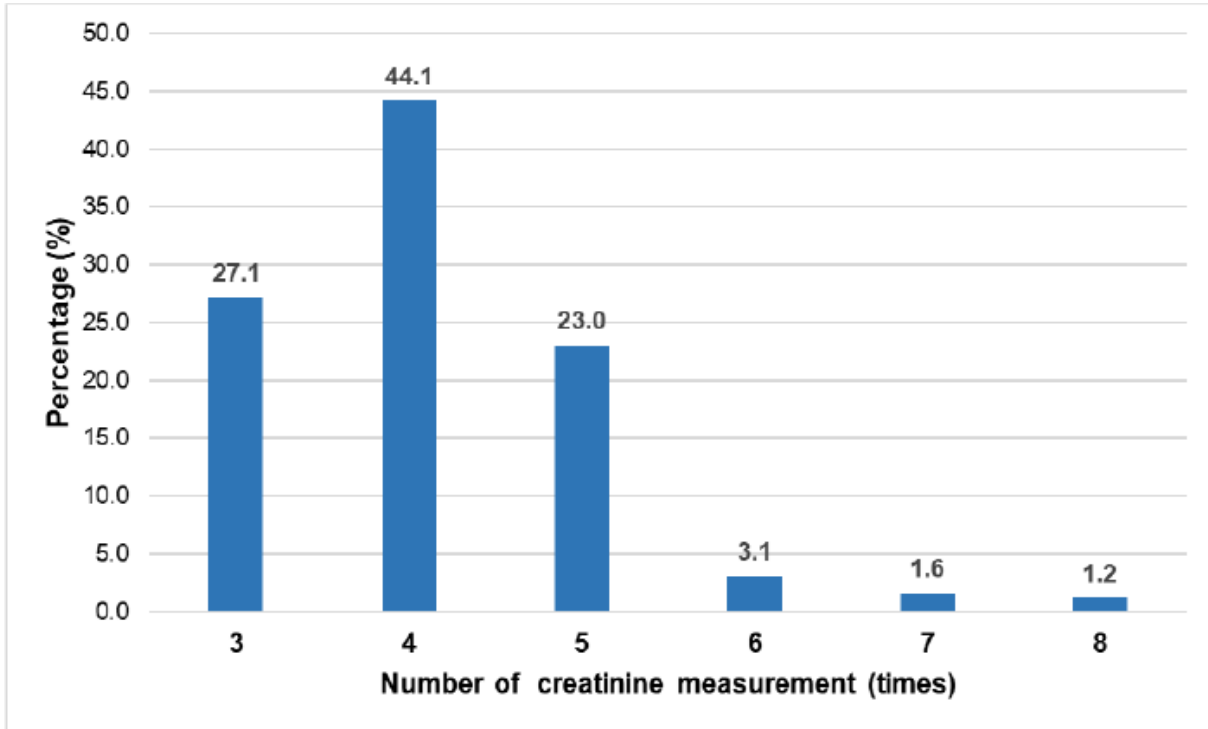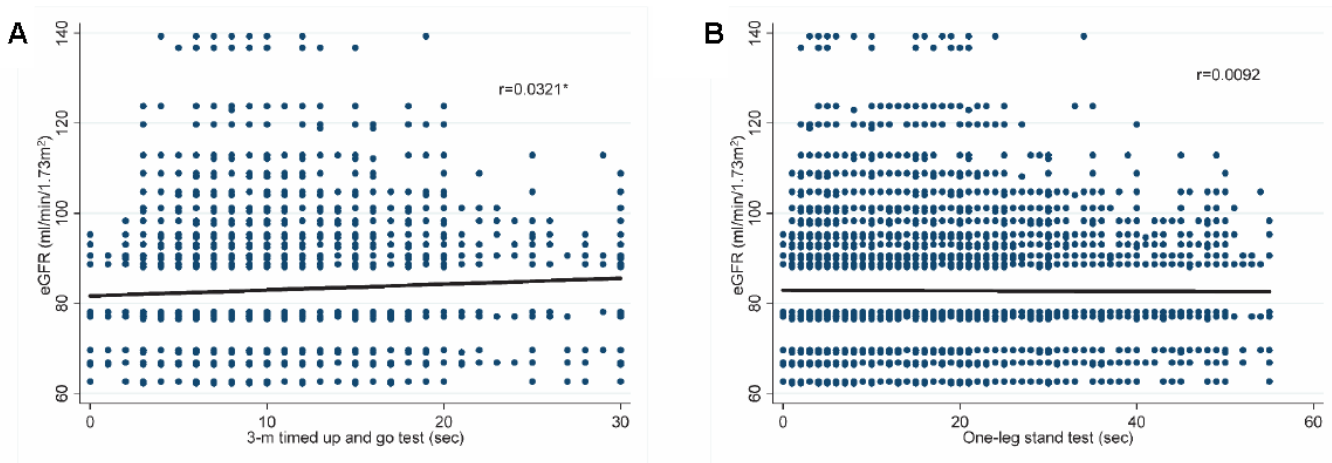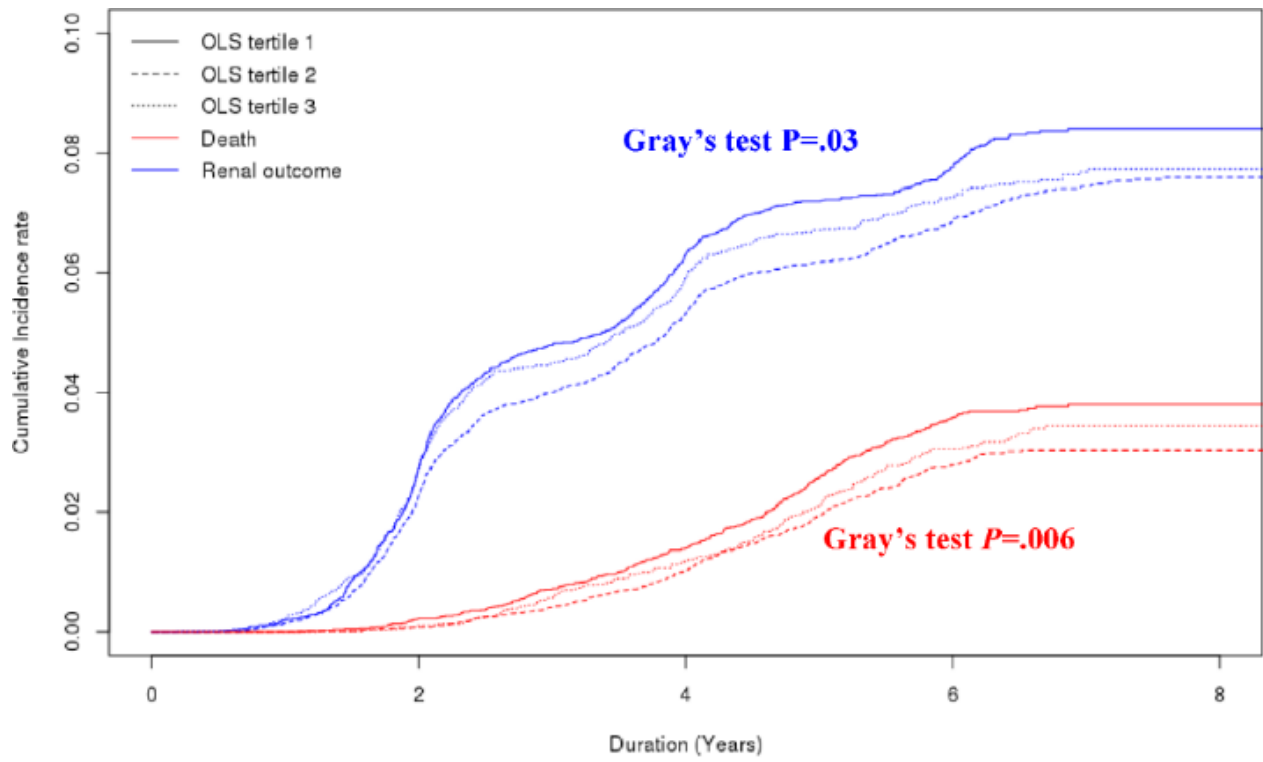# SUPPLEMENTARY FIGURES

Supplementary Figure 1. The frequency of creatinine measurement during the study period.

Supplemental Figure 2. Correlation between baseline estimated glomerular filtration rate and physical performance tests for (**A**) 3-m timed up and go test and (**B**) One-leg stand test. *Note:* Pearson correlation coefficient (*P*-value) of 3-timed up and go test and one-leg stand test were 0.0321 (<.001) and 0.0092 (.71), respectively. *P<.05.

Supplementary Figure 3. Cumulative incidence curves for mortality and chronic kidney disease development according to one-leg stand test tertile group. *Abbreviations:* OLS, one-leg stand test.
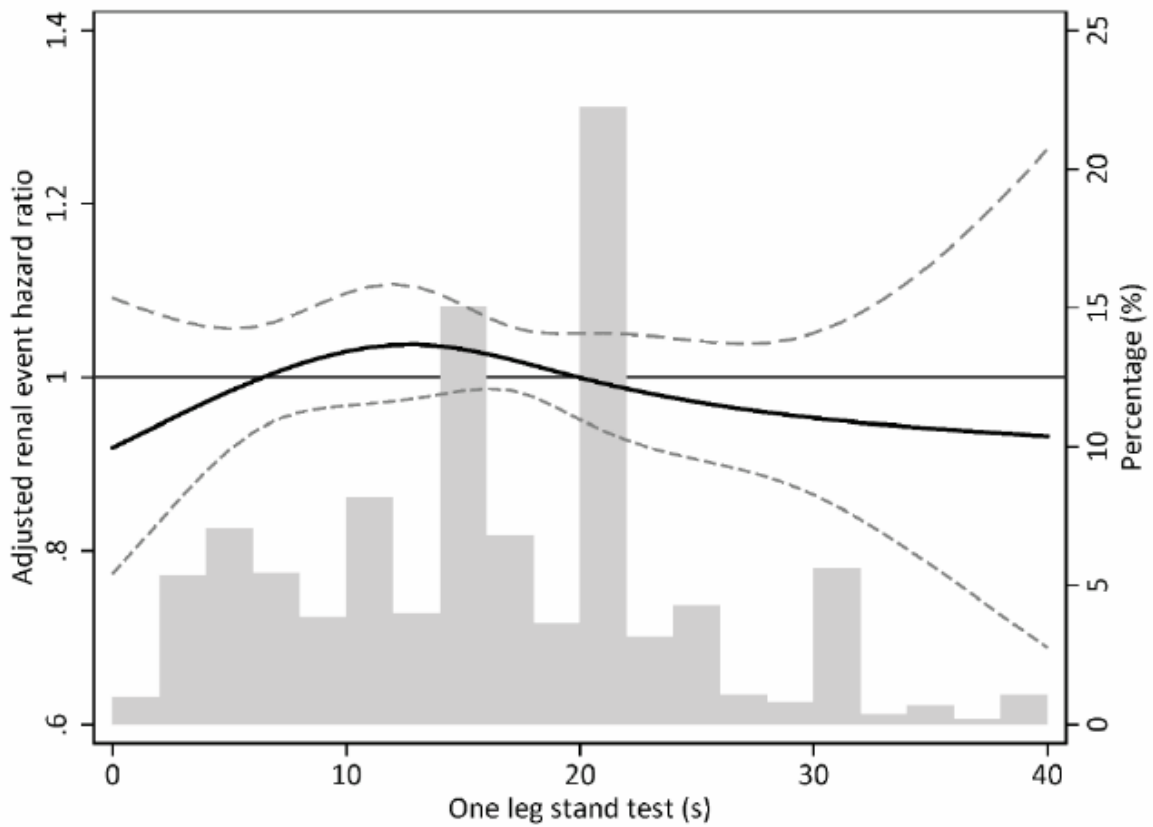
Supplementary Figure 4. Restricted cubic spline plot for incident chronic kidney disease according to one-leg stand test. *Note:* Adjusted for sex, estimated glomerular filtration rate, body mass index, systolic blood pressure, chronic obstructive pulmonary disease history, dementia history, diabetes mellitus history, cardiovascular disease, smoking habit, alcohol consumption, and high-density lipoprotein cholesterol.

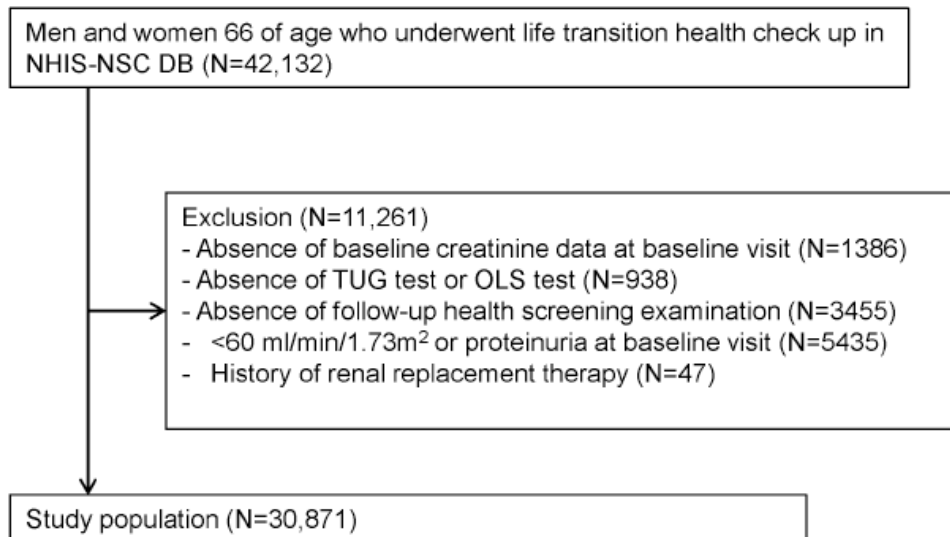| Subgroups	N (Outcome)	Adjusted hazard ratio (⊢⊣ 95% CI)	P for interaction
Male	15070 (995)		0.10
Female	15801 (1201)		
BMI < 25.0 kg/m²	19392 (1216)		0.71
BMI ≥ 25.0 kg/m²	11479 (980)		
DM (-)	23920 (1478)		0.65
DM (+)	6951 (718)		
HTN (-)	15269 (937)		0.44
HTN (+)	15602 (1259)		
CVD (-)	25595 (1707)		0.33
CVD (+)	5276 (489)		
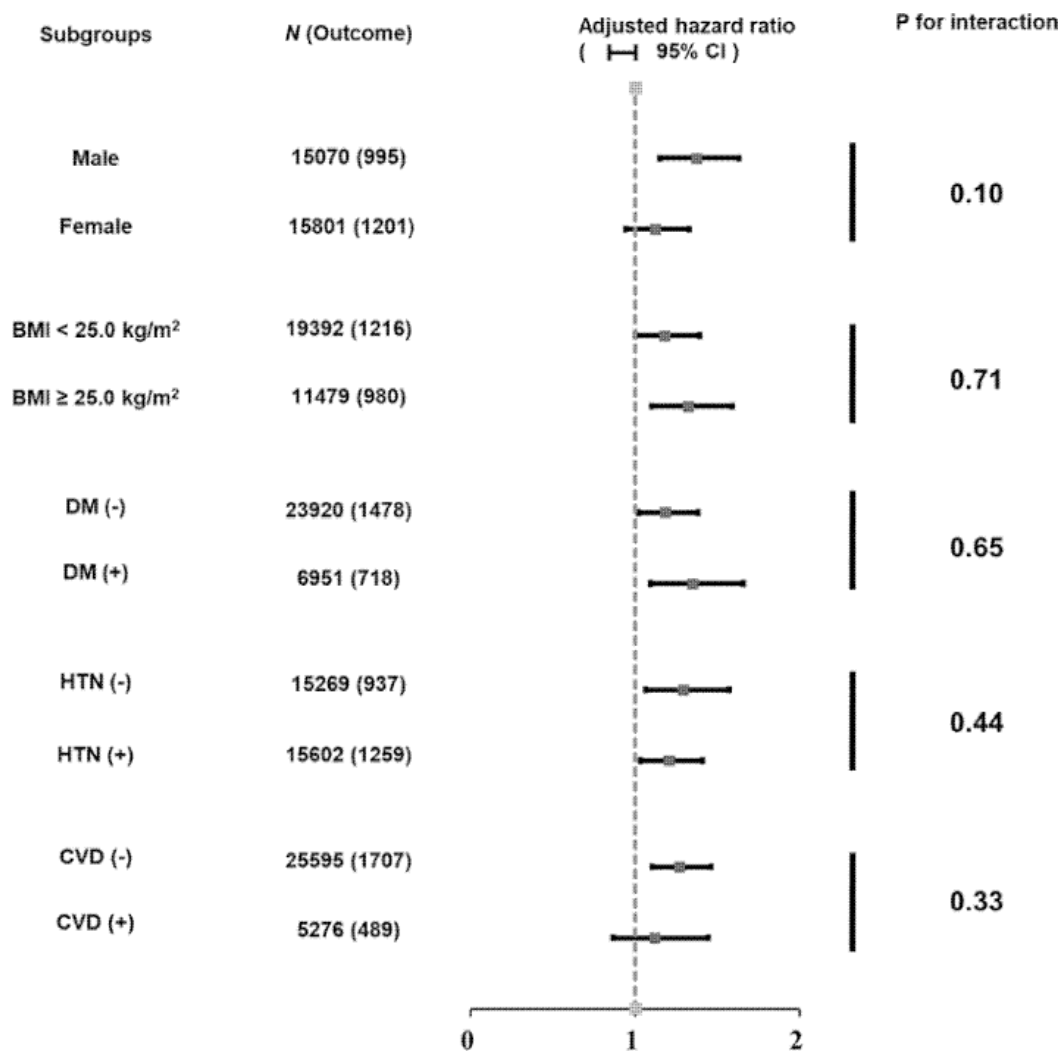
Supplementary Figure 5. Subgroup analysis of the 3-m timed up and go test for incident chronic kidney disease. *Note:* The 3-m timed up and go test score was log-transformed due to skewed distribution. Adjusted for sex, estimated glomerular filtration rate, body mass index, systolic blood pressure, chronic obstructive pulmonary disease history, dementia history, diabetes mellitus history, cardiovascular disease, smoking habit, alcohol consumption, and high-density lipoprotein cholesterol. *Abbreviations:* CI, confidence interval; BMI, body mass index; DM, diabetes mellitus; HTN, hypertension, CVD; cardiovascular disease.

Subgroups	N (incident CKD)	Adjusted hazard ratio (⊢⊣ 95% CI)	P for interaction
Male	15070 (963)		0.05
Female	15801 (1179)		
BMI < 25.0 kg/m^2	19469 (1190)		0.20
BMI ≥ 25.0 kg/m^2	11402 (952)		
DM (-)	23920 (1445)		0.13
DM (+)	6011 (697)		
HTN (-)	15269 (914)		0.06
HTN (+)	15602 (1228)		
CVD (-)	25595 (1667)		0.90
CVD (+)	5276 (475)		
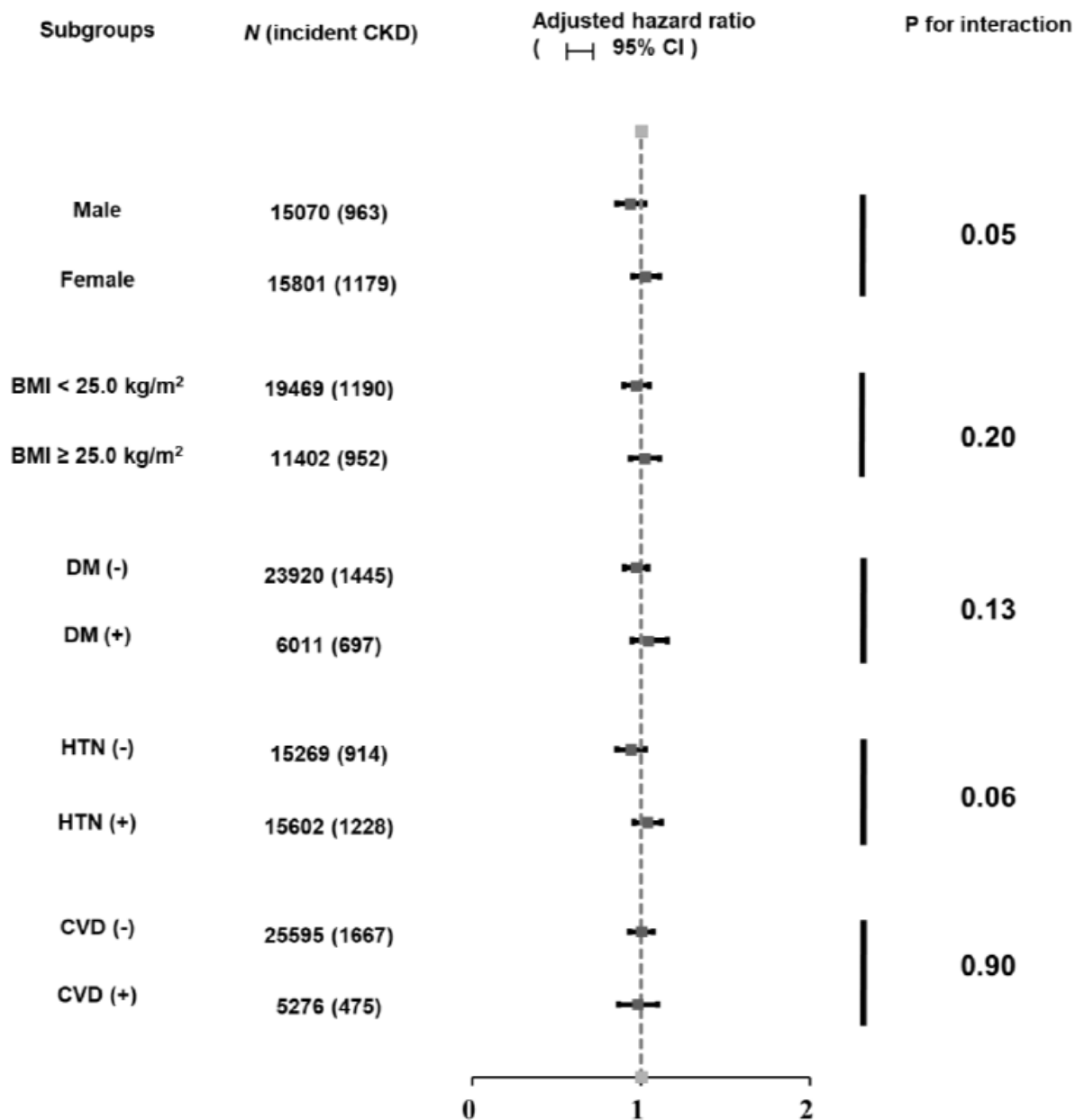
Supplementary Figure 6. Subgroup analysis of one-leg stand test for incident chronic kidney disease. *Note:* one-leg stand test score was log-transformed due to skewed distribution. Adjusted for sex, estimated glomerular filtration rate, body mass index, systolic blood pressure, chronic obstructive pulmonary disease history, dementia history, diabetes mellitus history, and cardiovascular disease history, smoking habit, alcohol consumption, and high density lipoprotein cholesterol. *Abbreviations:* CKD, chronic renal disease; CI, Confidence interval.

Men and women 66 of age who underwent life transition health check up in NHIS-NSC DB (N=42,132)

Exclusion (N=11,261)
- Absence of baseline creatinine data at baseline visit (N=1386)
- Absence of TUG test or OLS test (N=938)
- Absence of follow-up health screening examination (N=3455)
- <60 ml/min/$1.73m^2$ or proteinuria at baseline visit (N=5435)
- History of renal replacement therapy (N=47)

Study population (N=30,871)

Supplementary Figure 7. Flowchart of subject selection. *Abbreviations:* NHIS-NSC DB, National Health Insurance Service-National Sample Cohort Database; TUG, 3-m timed up and go; OLS, one-leg stand.