

Additional file 1: Table S1. Cox proportional hazard regression analyses of those receiving LTC (n=523) (70 years old)

Variables	Model 1 ^a		Model 2 ^b		Model 3 ^c	
	HR	95% CI	HR	95% CI	HR	95% CI
Weak grip strength ref. normal	0.96	0.31-3.01	0.81	0.25-2.67	0.76	0.23-2.54
Slow walking speed ref. normal	1.25	0.44-3.52	1.13	0.38-3.34	1.12	0.38-3.30
MoCA-J score	-	-	-	-	0.89	0.76-1.06
Sex (ref. = male)	-	-	1.38	0.44-4.31	1.48	0.47-4.66
HT	-	-	0.97	0.31-3.11	0.92	0.29-2.93
DM	-	-	1.76	0.54-5.79	1.82	0.56-5.92
Stroke	-	-	1.81	0.23-14.56	2.04	0.26-16.34
Joint diseases	-	-	2.24	0.74-6.79	1.97	0.64-6.07
Living alone	-	-	1.96	0.60-6.44	2.09	0.63-6.92
BMI	-	-	1.11	0.95-1.30	1.10	0.95-1.29
Serum albumin	-	-	0.49	0.07-3.63	0.57	0.08-4.20

Abbreviations: BMI, Body mass index; CI, Confidence interval; DM, Diabetes mellitus; HR, Hazard ratio; HT, Hypertension; LTC, Long-term care; MoCA-J, The Japanese version of the Montreal Cognitive Assessment; ref., reference.

^a **Model 1** was unadjusted for physical function (weak grip strength and slow walking speed).

^b **Model 2** was adjusted for physical function by age, sex, HT, DM, stroke, joint diseases, living alone, BMI, and serum albumin.

^c **Model 3** was adjusted for physical function by MoCA-J score, age, sex, HT, DM, stroke, joint diseases, living alone, BMI, and serum albumin.