Supplementary Table S1. Model fits (R²) of regression models for cognitive abilities.

	The	young-e	lderly gro	oup (belo	ow 80	Т	he old-old	l group (8	80-99.5 ye	ears)		The	e oldest-	old grou years)	_	e 100
Model	General cognition	Orientation	Calculation	Recall	Language	General cognition	Orientation	Calculation	Recall	Language		General cognition	Orientation	Calculation	Recall	Language
M0	.043	.011	.021	.007	.017	.057	.015	.027	.015	.027	.0	148	.010	.015	.013	.015
M1	.089	.0.32	.064	.032	.029	.091	.046	.075	.028	.034	.0	53	.038	.048	.041	.030
M2	.102	.033	.068	.033	.034	.110	.048	.081	.032	.038	.0	186	.041	.053	.045	.034
МЗ	.102	.039	.073	.033	.035	.111	.049	.082	.033	.039	.0	87	.042	.055	.046	.038

Supplementary Table S2. Regression models of general cognition among the young-old group.

W : 11		M0			M	I 1		M	2		N	13
Variable	β	SE	95% CI	β	SE	95% CI	β	SE	95% CI	β	SE	95% CI
Age	-	_	_	-0.07***	0.01	[-0.09,-0.06]	-0.07***	0.01	[-0.09,-0.05]	-0.07***	0.01	[-0.09,-0.05]
Male	_	_	_	0.29***	0.07	[0.15,0.43]	0.30***	0.07	[0.16,0.45]	0.11	0.34	[-0.56,0.78]
Living alone	_	_	_	-0.15	0.10	[-0.35,0.04]	-0.17+	0.10	[-0.36,0.02]	-0.18^{\dagger}	0.10	[-0.37,0.02]
Urban residence	-	-	_	0.07	0.09	[-0.10,0.24]	-0.02	0.09	[-0.20,0.17]	-0.02	0.09	[-0.20,0.16]
Years of education	_	_	_	0.08***	0.01	[0.06,0.10]	0.07***	0.01	[0.05,0.09]	0.07***	0.01	[0.05,0.09]
Professional/administration occupation	_	_	_	0.02	0.12	[-0.22,0.27]	-0.01	0.12	[-0.25,0.23]	0.00	0.13	[-0.25,0.24]
ADL-related disability	_	_	_	-0.23***	0.05	[-0.33,-0.14]	-0.11*	0.05	[-0.21,0]	-0.11*	0.05	[-0.21,-0.01]
Subjective health	_	_	_	0.29***	0.04	[0.22,0.36]	0.25***	0.04	[0.18,0.32]	0.25***	0.04	[0.18,0.33]
C2	1.56***	0.18	[1.21,1.91]	_	_	_	1.24***	0.19	[0.87,1.60]	1.10***	0.28	[0.56,1.64]
C3	2.26***	0.18	[1.90,2.61]	-	_	_	1.50***	0.20	[1.12,1.89]	1.42***	0.29	[0.85,1.99]
C4	1.56***	0.19	[1.19,1.94]	_	_	_	1.18***	0.20	[0.78,1.57]	1.12***	0.30	[0.54,1.70]
C5	1.61***	0.23	[1.17,2.05]	_	_	_	1.15***	0.23	[0.71,1.6]	0.97*	0.42	[0.14,1.79]
C2×Male	_	_	_	_	_	_	_	_	_	0.26	0.35	[-0.44,0.95]
C3×Male	_	_	_	_	_	_	_	_	_	0.15	0.36	[-0.56,0.86]
C4×Male	_	_	_	_	_	_	_	_	_	0.09	0.38	[-0.66,0.84]
C5×Male	_	_	_	_	_	_	_	_	_	0.29	0.50	[-0.69,1.26]

Note. $^{\dagger}p$ < .10, $^{\ast}p$ < .05, $^{\ast \ast}p$ < .01, $^{\ast \ast \ast}p$ < .001. The regression coefficients in Tables 2–16 are unstandardized betas.

Supplementary Table S3. Regression models of orientation ability among the young-old group.

Westell.		M)		M	1		M2	2		M	3
Variable	β	SE	95% CI	β	SE	95% CI	β	SE	95% CI	β	SE	95% CI
Age	_	_	_	0.00***	0.00	[0,0]	0.00***	0.00	[0,0]	0.00***	0.00	[0,0]
Male	_	_	_	0.01***	0.00	[0,0.01]	0.01*	0.00	[0,0.01]	-0.04***	0.01	[-0.06,-0.02]
Living alone	_	_	_	0.00	0.00	[-0.01,0.01]	0.00	0.00	[-0.01,0.01]	0.00	0.00	[-0.01,0.01]
Urban residence	_	_	_	0.00	0.00	[0,0.01]	0.00	0.00	[-0.01,0.01]	0.00	0.00	[-0.01,0.01]
Years of education	_	_	_	0.00*	0.00	[0,0]	0.00^{*}	0.00	[0,0]	0.00^{*}	0.00	[0,0]
Professional/administration occupation	_	_	_	0.00	0.00	[-0.01,0.01]	0.00	0.00	[-0.01,0.01]	0.00	0.00	[-0.01,0.01]
ADL-related disability	_	_	_	-0.01***	0.00	[-0.01,-0.01]	-0.01***	0.00	[-0.01,-0.01]	-0.01***	0.00	[-0.01,-0.01]
Subjective health	_	_	_	0.00***	0.00	[0,0.01]	0.00***	0.00	[0,0.01]	0.00***	0.00	[0,0.01]
C2	0.02***	0.01	[0.01,0.03]	_	_	_	0.01+	0.01	[0,0.02]	-0.02*	0.01	[-0.04,0]
C3	0.03***	0.01	[0.02,0.04]	_	_	_	0.01*	0.01	[0,0.03]	-0.01	0.01	[-0.03,0.01]
C4	0.03***	0.01	[0.02,0.04]	_	_	_	0.01*	0.01	[0,0.02]	-0.02+	0.01	[-0.03,0]
C5	0.03**	0.01	[0.01,0.04]	_	_	_	0.01	0.01	[0,0.02]	-0.03*	0.01	[-0.06,-0.01]
C2×Male	_	_	_	_	_	_	_	_	_	0.05***	0.01	[0.03,0.07]
C3×Male	_	_	_	_	_	_	_	_	_	0.04***	0.01	[0.02,0.07]
C4×Male	_	_	_	_	_	_	_	_	_	0.05***	0.01	[0.03,0.07]
C5×Male	_	_	_	_	_	_	_	_	_	0.07***	0.02	[0.04,0.10]

Supplementary Table S4. Regression models of calculation ability among the young-old group.

Variable		M)		M	1		M2	2		M	3
variable	β	SE	95% CI	β	SE	95% CI	β	SE	95% CI	β	SE	95% CI
Age	_	_	_	-0.01***	0.00	[-0.01,0]	0.00***	0.00	[-0.01,0]	0.00***	0.00	[-0.01,0]
Male	_	_	_	0.04***	0.01	[0.03,0.06]	0.04***	0.01	[0.03,0.06]	0.12***	0.03	[0.06,0.18]
Living alone	_	_	_	0.00	0.01	[-0.02,0.02]	0.00	0.01	[-0.02,0.02]	0.00	0.01	[-0.02,0.02]
Urban residence	_	_	_	0.02**	0.01	[0.01,0.04]	0.02*	0.01	[0,0.04]	0.02*	0.01	[0,0.03]
Years of education	_	_	_	0.01***	0.00	[0,0.01]	0.01***	0.00	[0,0.01]	0.01***	0.00	[0,0.01]
Professional/administration occupation	_	_	_	0.00	0.01	[-0.02,0.02]	-0.01	0.01	[-0.03,0.02]	0.00	0.01	[-0.02,0.02]
ADL-related disability	_	_	_	-0.01*	0.00	[-0.02,0]	-0.01	0.01	[-0.01,0]	0.00	0.01	[-0.01,0.01]
Subjective health	_	_	_	0.02***	0.00	[0.01,0.02]	0.01***	0.00	[0.01,0.02]	0.01***	0.00	[0.01,0.02]
C2	0.07***	0.02	[0.03,0.10]	_	_	_	0.06**	0.02	[0.02,0.09]	0.10***	0.03	[0.05,0.15]
C3	0.12***	0.02	[0.08,0.15]	_	_	_	0.07***	0.02	[0.03,0.10]	0.13***	0.03	[0.08, 0.18]
C4	0.06***	0.02	[0.03,0.09]	_	_	_	0.04°	0.02	[0,0.07]	0.09**	0.03	[0.04, 0.14]
C5	0.08***	0.02	[0.04,0.12]	_	_	_	0.05*	0.02	[0.01,0.09]	0.04	0.04	[-0.04,0.11]
C2×Male	_	_	_	_	_	_	_	_	_	-0.07*	0.03	[-0.13,-0.01]
C3×Male	_	_	_	_	_	_	_	_	_	-0.11**	0.03	[-0.17,-0.05]
C4×Male	_	_	_	_	_	_	_	_	_	-0.08*	0.03	[-0.15,-0.01]
C5×Male	_	_	_	_	_	_	_	_	_	0.00	0.04	[-0.09,0.08]

Supplementary Table S5. Regression models of recall ability among the young-old group.

37 - 11		M	0		M	1		M2			МЗ	<u> </u>
Variable	β	SE	95% CI	β	SE	95% CI	β	SE	95% CI	β	SE	95% CI
Age	_	_	_	-0.01***	0.00	[-0.01,0.01]	-0.01***	0.00	[-0.01,0]	-0.01***	0.00	[-0.01,0]
Male	_	_	_	0.00	0.01	[-0.02,0.02]	0.00	0.01	[-0.02,0.02]	-0.04	0.05	[-0.12,0.06]
Living alone	_	_	_	0.00	0.01	[-0.03,0.02]	0.00	0.01	[-0.03,0.02]	0.00	0.01	[-0.03,0.02]
Urban residence	_	_	_	-0.01	0.01	[-0.03,0.02]	-0.01	0.01	[-0.03,0.02]	-0.01	0.01	[-0.03,0.02]
Years of education	_	_	_	0.01***	0.00	[0,0.01]	0.01***	0.00	[0,0.01]	0.01***	0.00	[0,0.01]
Professional/administration occupation	_	_	_	0.00	0.02	[-0.03,0.04]	0.00	0.02	[-0.03,0.03]	0.00	0.02	[-0.03,0.03]
ADL-related disability	_	_	_	-0.01	0.01	[-0.02,0.01]	0.00	0.01	[-0.02,0.01]	0.00	0.01	[-0.02,0.01]
Subjective health	_	_	_	0.03***	0.01	[0.02,0.04]	0.02***	0.01***	[0.02,0.03]	0.02***	0.01	[0.02,0.03]
C2	0.04^{+}	0.02	[0,0.09]	_	_	_	0.02	0.03	[-0.03,0.07]	0.00	0.04	[-0.08,0.07]
C3	0.09***	0.02	[0.04,0.13]	-	_	_	0.03	0.03	[-0.02,0.08]	0.01	0.04	[-0.07,0.08]
C4	0.03	0.03	[-0.02,0.08]	_	_	_	0.00	0.03	[-0.06,0.05]	-0.02	0.04	[-0.10,0.06]
C5	0.05+	0.03	[0,0.11]	_	_	_	0.02	0.03	[-0.04,0.08]	-0.02	0.06	[-0.13,0.09]
C2×Male	_	_	_	_	_	_	_	_	_	0.04	0.05	[-0.05,0.13]
C3×Male	_	_	_	_	_	_	_	_	_	0.04	0.05	[-0.06,0.13]
C4×Male	_	_	_	_	_	_	_	_	_	0.03	0.05	[-0.07,0.13]
C5×Male	_	_	_	_	_	_	_	_	_	0.06	0.07	[-0.07,0.19]

Supplementary Table S6. Regression models of language ability among the young-old group.

V:-11-		M	0		M1			M2			МЗ	3
Variable	β	SE	95% CI	β	SE	95% CI	β	SE	95% CI	β	SE	95% CI
Age	_	_	_	0.00***	0.00	[0,0]	0.00**	0.00	[0,0]	0.00**	0.00	[0,0]
Male	_	_	_	0.00+	0.00	[0,0.01]	0.01+	0.00	[0,0.01]	-0.02	0.01	[-0.04,0.01]
Living alone	_	_	_	0.00	0.00	[-0.01,0]	0.00	0.00	[-0.01,0]	0.00	0.00	[-0.01,0]
Urban residence	_	_	_	0.01**	0.00	[0,0.02]	0.01**	0.00	[0,0.01]	0.01^{*}	0.00	[0,0.01]
Years of education	-	_	_	0.00**	0.00	[0,0]	0.00**	0.00	[0,0]	0.00**	0.00	[0,0]
Professional/administration occupation	_	_	_	0.00	0.00	[-0.01,0.01]	0.00	0.00	[-0.01,0.01]	0.00	0.00	[-0.01,0.01]
ADL-related disability	_	_	_	-0.01***	0.00	[-0.01,0]	-0.01**	0.00	[-0.01,0]	-0.01**	0.00	[-0.01,0]
Subjective health	_	_	_	0.01***	0.00	[0,0.01]	0.01**	0.00	[0,0.01]	0.01**	0.00	[0,0.01]
C2	0.03***	0.01	[0.02,0.04]	_	_	_	0.02*	0.01	[0,0.03]	0.00	0.01	[-0.02,0.02]
C3	0.04***	0.01	[0.03,0.06]	_	-	_	0.02**	0.01	[0.01,0.04]	0.02	0.01	[-0.01,0.04]
C4	0.04***	0.01	[0.02,0.05]	_	_	_	0.02**	0.01	[0.01,0.04]	0.01	0.01	[-0.01,0.03]
C5	0.02**	0.01	[0.01,0.04]	_	_	_	0.01	0.01	[-0.01,0.03]	-0.01	0.02	[-0.04,0.02]
C2×Male	_	_	_	_	_	_	_	_	_	0.02+	0.01	[0,0.05]
C3×Male	_	_	_	_	_	_	_	_	_	0.02	0.01	[-0.01,0.04]
C4×Male	_	_	_	_	_	_	_	_	_	0.02	0.01	[-0.01,0.05]
C5×Male	_	_	_	_	_	_	_	_	_	0.03 ⁺	0.02	[0,0.07]

Supplementary Table S7. Regression models of general cognition among the old-old group.

V - 11		M	0		M	1		M2			M	13
Variable	β	SE	95% CI	β	SE	95% CI	β	SE	95% CI	β	SE	95% CI
Age	_	_	_	-0.10***	0.01	[-0.11,-0.08]	-0.08***	0.01	[-0.09,-0.06]	-0.08***	0.01	[-0.09,-0.06]
Male	_	_	_	0.49***	0.08	[0.33,0.65]	0.44***	0.08	[0.28,0.6]	0.54**	0.16	[0.22,0.86]
Living alone	_	_	_	-0.06	0.10	[-0.25,0.13]	-0.07	0.10	[-0.26,0.11]	-0.07	0.10	[-0.26,0.11]
Urban residence	_	_	_	0.06	0.10	[-0.14,0.25]	-0.13	0.10	[-0.33,0.07]	-0.14	0.10	[-0.33,0.06]
Years of education	_	_	_	0.12***	0.02	[0.09,0.15]	0.10***	0.02	[0.07,0.13]	0.10***	0.02	[0.07,0.13]
Professional/administration occupation	_	_	_	0.46**	0.17	[0.13,0.79]	0.34*	0.17	[0.01,0.67]	0.35*	0.17	[0.03,0.68]
ADL-related disability	_	_	_	-0.20***	0.03	[-0.26,-0.15]	-0.12***	0.03	[-0.18,-0.07]	-0.12***	0.03	[-0.18,-0.07]
Subjective health	_	_	_	0.35***	0.04	[0.27,0.43]	0.29***	0.04	[0.21,0.37]	0.29***	0.04	[0.21,0.37]
C2	1.26***	0.10	[1.06,1.46]	_	_	_	0.85***	0.11	[0.63,1.06]	0.85***	0.14	[0.58,1.11]
C3	2.67***	0.14	[2.39,2.95]	-	-	_	1.68***	0.15	[1.38,1.98]	2.09***	0.24	[1.62,2.55]
C4	1.65***	0.13	[1.41,1.9]	_	_	_	1.06***	0.13	[0.81,1.32]	1.09***	0.18	[0.73,1.45]
C5	1.11***	0.13	[0.85,1.37]	_	_	_	0.65***	0.13	[0.39,0.91]	0.76***	0.20	[0.38,1.14]
C2×Male	_	_	_	_	_	_	_	_	_	-0.01	0.20	[-0.41,0.4]
C3×Male	_	_	_	_	_	_	_	_	_	-0.64*	0.30	[-1.22,-0.07]
C4×Male	_	_	_	_	_	_	_	_	_	-0.07	0.25	[-0.57,0.42]
C5×Male	_	_	_	_	_	_	_	_	_	-0.22	0.27	[-0.74,0.3]

Supplementary Table S8. Regression models of orientation ability among the old-old group.

W - 11		M	0		M	[1		M2	2		МЗ	<u> </u>
Variable	β	SE	95% CI	β	SE	95% CI	β	SE	95% CI	β	SE	95% CI
Age	_	_	_	0.00***	0.00	[0,0]	0.00***	0.00	[0,0]	0.00***	0.00	[0,0]
Male	_	_	_	0.01***	0.00	[0.01,0.02]	0.01***	0.00	[0.01,0.02]	0.01	0.01	[0,0.02]
Living alone	_	_	_	0.01^{*}	0.00	[0,0.01]	0.01*	0.00	[0,0.02]	0.01^{*}	0.00	[0,0.02]
Urban residence	_	_	_	-0.01**	0.00	[-0.02,0]	-0.01***	0.00	[-0.02,-0.01]	-0.01***	0.00	[-0.02,-0.01]
Years of education	_	_	_	0.00***	0.00	[0,0]	0.00 ***	0.00	[0,0]	0.00***	0.00	[0,0]
Professional/administration occupation	_	_	_	0.00	0.01	[-0.01,0.01]	0.00	0.01	[-0.01,0.01]	0.00	0.01	[-0.01,0.01]
ADL-related disability	_	_	_	-0.01***	0.00	[-0.01,-0.01]	-0.01***	0.00	[-0.01,-0.01]	-0.01***	0.00	[-0.01,-0.01]
Subjective health	_	_	_	0.01***	0.00	[0.01,0.01]	0.01***	0.00	[0.01,0.01]	0.01***	0.00	[0.01,0.01]
C2	0.02***	0.00	[0.02,0.03]	_	_	_	0.01+	0.00	[0,0.01]	0.01	0.01	[-0.01,0.02]
C3	0.05***	0.01	[0.04,0.06]	_	_	_	0.02**	0.01	[0.01,0.03]	0.02*	0.01	[0,0.04]
C4	0.03***	0.01	[0.03,0.04]	_	_	_	0.02***	0.01	[0.01,0.03]	0.01*	0.01	[0,0.03]
C5	0.02***	0.00	[0.02,0.03]	_	_	_	0.01*	0.01	[0,0.02]	0.01+	0.01	[0,0.03]
C2×Male	_	_	_	_	_	_	_	_	_	0.00	0.01	[-0.01,0.02]
C3×Male	_	_	_	_	_	_	_	_	_	0.00	0.01	[-0.02,0.02]
C4×Male	_	_	_	_	_	_	_	_	_	0.01	0.01	[-0.01,0.02]
C5×Male	_	_	_	_	_	_	_	_	_	0.00	0.01	[-0.02,0.02]

Supplementary Table S9. Regression models of calculation ability among the old-old group.

V - 11		M	0		M	1		M2	2		N	13
Variable	β	SE	95% CI	β	SE	95% CI	β	SE	95% CI	β	SE	95% CI
Age	_	_	_	-0.01***	0.00	[-0.01,0]	0.00***	0.00	[-0.01,0]	0.00***	0.00	[-0.01,0]
Male	_	_	_	0.10***	0.01	[0.09,0.12]	0.10***	0.01	[0.08,0.11]	0.11***	0.02	[0.08,0.14]
Living alone	_	_	_	0.02^{+}	0.01	[0,0.03]	0.02+	0.01	[0,0.03]	0.02+	0.01	[0,0.04]
Urban residence	_	_	_	0.02	0.01	[0,0.03]	0.01	0.01	[-0.01,0.03]	0.01	0.01	[-0.01,0.02]
Years of education	_	_	_	0.01***	0.00	[0.01,0.01]	0.01***	0.00	[0,0.01]	0.01***	0.00	[0,0.01]
Professional/administration occupation	_	_	_	0.01	0.02	[-0.02,0.04]	0.00	0.02	[-0.03,0.03]	0.00	0.02	[-0.03,0.04]
ADL-related disability	_	_	_	-0.01***	0.00	[-0.02,-0.01]	-0.01**	0.00	[-0.01,0]	-0.01**	0.00	[-0.01,0]
Subjective health	_	_	_	0.02***	0.00	[0.01,0.03]	0.02***	0.00	[0.01,0.02]	0.02***	0.00	[0.01,0.02]
C2	0.07***	0.01	[0.05,0.09]	_	_	_	0.04***	0.01	[0.02,0.07]	0.05**	0.01	[0.02,0.07]
C3	0.17***	0.01	[0.14,0.19]	_	_	_	0.09***	0.01	[0.06,0.11]	0.13***	0.02	[0.08,0.17]
C4	0.10***	0.01	[0.07,0.12]	_	_	_	0.05***	0.01	[0.02,0.07]	0.05**	0.02	[0.02,0.09]
C5	0.10***	0.01	[0.08, 0.13]	_	_	_	0.06***	0.01	[0.04,0.09]	0.08***	0.02	[0.04,0.12]
C2×Male	_	_	_	_	_	_	_	_	_	0.00	0.02	[-0.04,0.04]
C3×Male	_	_	_	_	_	_	_	_	_	-0.06*	0.03	[-0.12,-0.01]
C4×Male	_	_	_	_	_	_	_	_	_	-0.01	0.02	[-0.05,0.04]
C5×Male	_	_	_	_	_	_	_	_	_	-0.04	0.03	[-0.09,0.01]

Supplementary Table S10. Regression models of recall ability among the old-old group.

xz · 11		M	[0		M	1		M2			N	13
Variable	β	SE	95% CI	β	SE	95% CI	β	SE	95% CI	β	SE	95% CI
Age	_	_	-	0.00***	0.00	[-0.01,0]	0.00**	0.00	[0,0]	0.00**	0.00	[0,0]
Male	_	_	_	0.03**	0.01	[0.01,0.05]	0.03**	0.01	[0.01,0.05]	0.04^{+}	0.02	[0,0.08]
Living alone	_	_	_	0.01	0.01	[-0.01,0.04]	0.01	0.01	[-0.01,0.04]	0.01	0.01	[-0.01,0.04]
Urban residence	_	_	_	-0.01	0.01	[-0.04,0.01]	-0.02 ⁺	0.01	[-0.04,0]	-0.02 ⁺	0.01	[-0.05,0]
Years of education	_	_	_	0.01***	0.00	[0.01,0.01]	0.01***	0.00	[0,0.01]	0.01***	0.00	[0,0.01]
Professional/administration occupation	_	_	_	0.04*	0.02	[0,0.08]	0.03 ⁺	0.02	[-0.01,0.07]	0.03 ⁺	0.02	[-0.01,0.07]
ADL-related disability	_	_	_	-0.01**	0.00	[-0.02,0]	-0.01*	0.00	[-0.01,0]	-0.01*	0.00	[-0.01,0]
Subjective health	_	_	_	0.03***	0.01	[0.02,0.04]	0.03***	0.01	[0.02,0.04]	0.03***	0.01	[0.02,0.04]
C2	0.05***	0.01	[0.03,0.08]	_	_	_	0.03*	0.01	[0,0.05]	0.03*	0.02	[0,0.07]
C3	0.16***	0.02	[0.13,0.19]	_	_	_	0.10***	0.02	[0.06,0.13]	0.12***	0.03	[0.07,0.17]
C4	0.06***	0.02	[0.03,0.09]	_	_	_	0.02	0.02	[-0.01,0.05]	0.03	0.02	[-0.01,0.07]
C5	0.05**	0.02	[0.02,0.08]	_	_	_	0.02	0.02	[-0.02,0.05]	0.01	0.02	[-0.04,0.06]
C2×Male	_	_	_	_	_	_	_	_	_	-0.02	0.03	[-0.07,0.03]
C3×Male	_	_	_	_	_	_	_	_	_	-0.04	0.04	[-0.11,0.03]
C4×Male	_	_	-	_	_	_	_	_	_	-0.02	0.03	[-0.08,0.04]
C5×Male	_	_	_	_	_	_	_	_	_	0.01	0.03	[-0.05,0.07]

Supplementary Table S11. Regression models of language ability among the old-old group.

Variable	M	10			M.	1		M	2			МЗ
variable	β	SE	95% CI	β	SE	95% CI	β	SE	95% CI	β	SE	95% CI
Age	_	_	_	0.00***	0.00	[0,0]	0.00***	0.00	[0,0]	0.00***	0.00	[0,0]
Male	_	_	_	0.01^{*}	0.00	[0,0.02]	0.01	0.00	[0,0.01]	0.00	0.01	[-0.02,0.01]
Living alone	_	_	_	0.01**	0.00	[0.01,0.02]	0.01**	0.00	[0.01,0.02]	0.01**	0.00	[0.01,0.02]
Urban residence	_	_	_	0.01**	0.01	[0.01,0.02]	0.01+	0.01	[0,0.02]	0.01+	0.01	[0,0.02]
Years of education	-	_	_	0.00***	0.00	[0,0]	0.00***	0.00	[0,0]	0.00***	0.00	[0,0]
Professional/administration occupation	_	_	_	0.02 ⁺	0.01	[0,0.03]	0.01	0.01	[0,0.03]	0.01+	0.01	[0,0.03]
ADL-related disability	_	_	_	-0.01***	0.00	[-0.01,0]	-0.01***	0.00	[-0.01,0]	-0.01***	0.00	[-0.01,0]
Subjective health	_	_	_	0.01***	0.00	[0.01,0.02]	0.01***	0.00	[0.01,0.02]	0.01***	0.00	[0.01,0.02]
C2	0.01**	0.00	[0.01,0.02]	_	_	_	0.00	0.01	[-0.01,0.01]	-0.01	0.01	[-0.02,0.01]
C3	0.05***	0.01	[0.04,0.06]	_	_	_	0.02*	0.01	[0,0.03]	0.03*	0.01	[0.01,0.05]
C4	0.05***	0.01	[0.04,0.06]	_	-	_	0.03***	0.01	[0.01,0.04]	0.02*	0.01	[0,0.04]
C5	0.02**	0.01	[0.01,0.03]	_	_	_	0.01	0.01	[-0.01,0.02]	0.00	0.01	[-0.02,0.02]
C2×Male	_	_	_	_	_	_	_	_	_	0.01	0.01	[-0.01,0.03]
C3×Male	_	_	_	_	_	_	_	_	_	-0.01	0.01	[-0.04,0.02]
C4×Male	_	_	_	_	_	_	_	_	_	0.01	0.01	[-0.01,0.03]
C5×Male	_	_	_	_	_	_	_	_	_	0.01	0.01	[-0.02,0.03]

Supplementary Table S12. Regression models of general cognition among the oldest-old group.

W - 11		M0			M	1		Ν	12		M	3
Variable	β	SE	95% CI	β	SE	95% CI	β	SE	95% CI	β	SE	95% CI
Age	_	_	_	-0.06	0.04	[-0.15,0.02]	-0.06	0.04	[-0.14,0.03]	-0.06	0.04	[-0.14,0.03]
Male	_	_	_	0.80**	0.25	[0.32,1.28]	0.80^{**}	0.25	[0.31,1.28]	1.06**	0.38	[0.31,1.81]
Living alone	_	_	_	0.08	0.31	[-0.54,0.69]	-0.13	0.31	[-0.74,0.48]	-0.12	0.31	[-0.73,0.49]
Urban residence	_	_	_	0.42^{+}	0.23	[-0.03,0.88]	0.35	0.23	[-0.11,0.81]	0.37	0.24	[-0.09,0.83]
Years of education	_	_	_	-0.02	0.05	[-0.12,0.08]	-0.03	0.05	[-0.12,0.07]	-0.03	0.05	[-0.12,0.07]
Professional/administration occupation	_	_	_	1.18+	0.61	[-0.01,2.37]	1.04+	0.60	[-0.13,2.21]	1.11+	0.60	[-0.07,2.28]
ADL-related disability	_	_	_	-0.17***	0.04	[-0.26,-0.09]	-0.07	0.05	[-0.16,0.02]	-0.07	0.05	[-0.16,0.02]
Subjective health	_	_	_	0.53***	0.12	[0.30,0.75]	0.48^{***}	0.12	[0.26,0.71]	0.48***	0.12	[0.25,0.70]
C2	1.52***	0.24	[1.06,1.98]	_	_	_	1.50***	0.25	[1.01,1.99]	1.51***	0.27	[0.98,2.04]
C3	3.06***	0.50	[2.07,4.05]	_	_	_	2.35***	0.52	[1.33,3.37]	2.41**	0.70	[1.04,3.79]
C4	1.31***	0.30	[0.73,1.90]	_	_	_	0.83**	0.31	[0.22,1.44]	1.03**	0.38	[0.28,1.78]
C5	0.77**	0.28	[0.22,1.32]	_	_	_	0.45	0.29	[-0.12,1.02]	0.66^{+}	0.35	[-0.03,1.34]
C2×Male	_	_	_	_	_	_	_	_	_	0.04	0.65	[-1.23,1.30]
C3×Male	_	_	_	_	_	_	_	_	_	-0.31	1.02	[-2.32,1.70]
C4×Male	_	_	_	_	_	_	_	_	-	-0.62	0.64	[-1.88,0.64]
C5×Male	_	_	_	_	_	_	_	_	_	-0.71	0.63	[-1.94,0.52]

Note. †p< .10, *p< .05, *p< .01, **p< .001. The regression coefficients in Tables 1–10 are unstandardized betas.

Commented [KW1]: Please confirm consistency with the footer of Table 2.

Supplementary Table S13. Regression models of orientation ability among the oldest-old group.

Variable		M	0		M1			M2		M3		
	β	SE	95% CI	β	SE	95% CI	β	SE	95% CI	β	SE	95% CI
Age	_	_	_	0.00	0.00	[-0.01,0]	0.00	0.00	[-0.01,0]	0.00	0.00	[-0.01,0]
Male	_	_	_	0.02*	0.01	[0,0.04]	0.02*	0.01	[0,0.04]	0.02	0.02	[-0.01,0.05]
Living alone	_	_	_	0.01	0.01	[-0.01,0.04]	0.01	0.01	[-0.01,0.04]	0.01	0.01	[-0.01,0.04]
Urban residence	_	_	_	-0.02**	0.01	[-0.04,-0.01]	-0.03**	0.01	[-0.04,-0.01]	-0.03**	0.01	[-0.04,-0.01]
Years of education	_	_	_	0.00	0.00	[0,0]	0.00	0.00	[0,0]	0.00	0.00	[0,0]
Professional/administration occupation	_	_	_	0.02	0.02	[-0.02,0.07]	0.02	0.02	[-0.03,0.07]	0.02	0.02	[-0.03,0.07]
ADL-related disability	_	_	_	-0.01***	0.00	[-0.01,0]	-0.01**	0.00	[-0.01,0]	-0.01**	0.00	[-0.01,0]
Subjective health	_	_	_	0.02***	0.00	[0.01,0.02]	0.02**	0.00	[0.01,0.02]	0.02**	0.01	[0.01,0.02]
C2	0.03**	0.01	[0.01,0.05]	_	_	_	0.01	0.01	[0,0.02]	0.02	0.01	[-0.01,0.04]
C3	0.05^{*}	0.02	[0.01,0.09]	_	_	_	0.03	0.02	[-0.01,0.07]	0.04	0.03	[-0.02,0.09]
C4	0.02+	0.01	[0,0.04]	_	_	_	0.00	0.01	[-0.02,0.03]	0.00	0.02	[-0.03,0.03]
C5	0.01	0.01	[-0.01,0.03]	_	_	_	0.01	0.01	[-0.02,0.03]	0.00	0.01	[-0.03,0.03]
C2×Male	_	_	_	_	_	_	_	_	_	-0.01	0.03	[-0.06,0.04]
C3×Male	_	_	_	_	_	_	_	_	_	-0.01	0.04	[-0.09,0.07]
C4×Male	_	_	_	_	_	_	_	-	_	0.00	0.03	[-0.05,0.05]
C5×Male	_	_	_	_	_	_	_	_	_	0.01	0.03	[-0.03,0.06]

Supplementary Table S14. Regression models of calculation ability among the oldest-old group.

Variable		M	0	M1			M2			M3		
	β	SE	95% CI	β	SE	95% CI	β	SE	95% CI	β	SE	95% CI
Age	_	_	_	0.00	0.00	[-0.01,0.01]	0.00	0.00	[-0.01,0.01]	0.00	0.00	[-0.01,0.01]
Male	_	_	_	0.10***	0.03	[0.05,0.15]	0.10***	0.03	[0.05,0.15]	0.08^{+}	0.04	[0,0.15]
Living alone	_	_	_	0.04	0.03	[-0.02,0.10]	0.03	0.03	[-0.03,0.10]	0.04	0.03	[-0.03,0.10]
Urban residence	_	_	_	0.00	0.02	[-0.05,0.04]	0.00	0.02	[-0.05,0.05]	0.00	0.02	[-0.05,0.05]
Years of education	_	_	_	0.00	0.01	[-0.01,0.01]	0.00	0.01	[-0.01,0.01]	0.00	0.01	[-0.01,0.01]
Professional/administration occupation	_	_	_	0.10+	0.06	[-0.01,0.22]	0.10+	0.06	[-0.01,0.22]	0.10+	0.06	[-0.01,0.22]
ADL-related disability	_	_	_	-0.02***	0.01	[-0.03,-0.01]	-0.02**	0.01	[-0.03,-0.01]	-0.02**	0.01	[-0.03,-0.01]
Subjective health	_	_	_	0.02	0.01	[-0.01,0.04]	0.01	0.01	[-0.01,0.04]	0.01	0.01	[-0.01,0.04]
C2	0.07**	0.02	[0.03,0.12]	_	_	_	0.05^{*}	0.03	[0,0.10]	0.04	0.03	[-0.02,0.10]
C3	0.09+	0.05	[0,0.19]	_	_	_	0.02	0.05	[-0.08,0.12]	-0.02	0.07	[-0.16,0.11]
C4	0.11**	0.03	[0.05,0.17]	_	_	_	0.05	0.03	[-0.01,0.12]	0.06	0.04	[-0.02,0.14]
C5	0.04	0.03	[-0.02,0.10]	_	_	_	0.00	0.03	[-0.06,0.06]	0.00	0.04	[-0.07,0.07]
C2×Male	_	_	_	_	_	_	_	_	_	0.08	0.07	[-0.05,0.21]
C3×Male	_	_	_	_	_	_	_	_	_	0.10	0.10	[-0.10,0.30]
C4×Male	_	_	_	_	_	_	_	_	_	0.01	0.07	[-0.13,0.14]
C5×Male	_	_	_	_	_	_	_	_	_	0.01	0.07	[-0.12,0.14]

Supplementary Table S15. Regression models of recall ability among the oldest-old group.

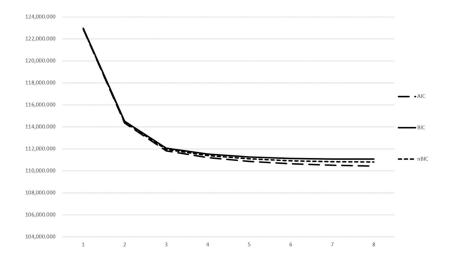
Variable		M	0		M	1		M2	2	M3		
	β	SE	95% CI	β	SE	95% CI	β	SE	95% CI	β	SE	95% CI
Age	_	_	_	-0.02**	0.01	[-0.03,-0.01]	-0.02**	0.01	[-0.03,-0.01]	-0.02**	0.01	[-0.03,-0.01]
Male	_	_	_	0.01	0.03	[-0.05,0.06]	0.01	0.03	[-0.05,0.06]	0.02	0.05	[-0.07,0.10]
Living alone	_	_	_	0.03	0.04	[-0.04,0.10]	0.03	0.04	[-0.04,0.10]	0.03	0.04	[-0.04,0.10]
Urban residence	_	_	_	0.01	0.03	[-0.04,0.06]	0.01	0.03	[-0.05,0.06]	0.00	0.03	[-0.05,0.06]
Years of education	_	_	_	-0.01	0.01	[-0.02,0]	-0.01	0.01	[-0.02,0]	-0.01	0.01	[-0.02,0]
Professional/administration occupation	_	_	_	0.13 ⁺	0.07	[0,0.25]	0.12 ⁺	0.07	[-0.01,0.25]	0.12+	0.07	[-0.01,0.25]
ADL-related disability	_	_	_	-0.02***	0.01	[-0.03,-0.01]	-0.02***	0.01	[-0.03,-0.01]	-0.02***	0.01	[-0.03,-0.01]
Subjective health	_	_	_	0.03*	0.01	[0,0.06]	0.03*	0.01	[0,0.06]	0.03*	0.01	[0,0.06]
C2	0.09**	0.03	[0.04,0.14]	_	_	_	0.05	0.03	[-0.01,0.10]	0.05^{+}	0.03	[-0.01,0.11]
C3	0.15**	0.05	[0.04,0.25]	_	_	_	0.09	0.06	[-0.02,0.20]	0.11	0.08	[-0.04,0.26]
C4	0.06 ⁺	0.03	[0,0.13]	_	_	_	0.01	0.04	[-0.06,0.08]	0.00	0.04	[-0.09,0.08]
C5	0.06+	0.03	[-0.01,0.12]	_	_	_	0.04	0.03	[-0.03,0.10]	0.05	0.04	[-0.03,0.12]
C2×Male	_	_	_	_	_	_	_	_	_	-0.03	0.07	[-0.17,0.11]
C3×Male	_	_	_	_	_	_	_	_	_	-0.05	0.11	[-0.26,0.17]
C4×Male	_	_	_	_	_	_	_	_	_	0.03	0.07	[-0.11,0.18]
C5×Male	_	_	_	_	_	_	_	_	_	-0.03	0.07	[-0.17,0.11]

Note. †*p*< .10, **p*< .05, ***p*< .01, ****p*< .001.

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Supplementary Table S16. Regression models of language ability among the oldest-old group.

Variable		M	10		M	1		M2		M3			
	β	SE	95% CI	β	SE	95% CI	β	SE	95% CI	β	SE	95% CI	
Age	_	-	_	0.00+	0.00	[-0.01,0]	0.00+	0.00	[-0.01,0]	0.00+	0.00	[-0.01,0]	
Male	_	_	_	0.02	0.01	[-0.01,0.04]	0.02	0.01	[-0.01,0.04]	0.01	0.02	[-0.03,0.05]	
Living alone	_	_	_	0.04**	0.02	[0.01,0.07]	0.04**	0.02	[0.01,0.07]	0.04**	0.02	[0.01,0.07]	
Urban residence	_	_	_	0.01	0.01	[-0.01,0.03]	0.01	0.01	[-0.01,0.03]	0.01	0.01	[-0.01,0.03]	
Years of education	_	_	_	0.00	0.00	[0,0.01]	0.00	0.00	[0,0.01]	0.00	0.00	[0,0.01]	
Professional/administration occupation	_	_	_	0.03	0.03	[-0.02,0.09]	0.04	0.03	[-0.02,0.09]	0.04	0.03	[-0.02,0.10]	
ADL-related disability	_	_	_	-0.01**	0.00	[-0.01,0]	-0.01**	0.00	[-0.01,0]	-0.01**	0.00	[-0.01,0]	
Subjective health	_	_	_	0.02**	0.01	[0,0.03]	0.02**	0.01	[0.01,0.03]	0.02**	0.01	[0,0.03]	
C2	0.02	0.01	[-0.01,0.04]	_	_	_	0.00	0.01	[-0.03,0.02]	0.00	0.01	[-0.03,0.02]	
C3	-0.02	0.02	[-0.07,0.03]	_	_	_	-0.06*	0.03	[-0.11,-0.01]	-0.10**	0.03	[-0.17,-0.04]	
C4	0.03+	0.01	[0,0.05]	_	_	_	0.00	0.02	[-0.03,0.03]	0.00	0.02	[-0.04,0.04]	
C5	0.01	0.01	[-0.02,0.03]	_	_	_	-0.01	0.01	[-0.04,0.02]	0.00	0.02	[-0.03,0.03]	
C2×Male	_	_	_	_	_	_	_	_	_	0.02	0.03	[-0.05,0.08]	
C3×Male	_	_	_	_	_	_	_	_	_	0.10^{+}	0.05	[0,0.19]	
C4×Male	_	_	_	_	_	_	_	_	_	0.00	0.03	[-0.06,0.06]	
C5×Male	_	_	_	_	_	_	_	_	_	-0.02	0.03	[-0.08,0.04]	



Supplementary Figure S1. Information criteria for 1–8 class model.