HbA1c (%)	Below normal	Male: <4.97; Female: <5.11		
	Normal	Male: 4.97-6.03; Female: 5.11-6.20		
	Above normal	Male: >6.03; Female: >6.20		
HDL (mg/dL)	Below normal	Male: <38; Female: < 48		
	Normal	Male: 38-90; Female: 48-103		
	Above normal	Male: >90; Female: >103		
LDL (mg/dL) ^a	Below normal	<65		
	Normal	65-163		
	Above normal	>163		
Triglyceride (mg/dL)	Below normal	Male: < 39; Female: <32		
	Normal	Male: 39-198; Female: 32-134		
	Above normal	Male: >198; Female: >134		
Haemoglobin (g/dL)	Below normal	Male: < 13.7; Female: <11.9		
	Normal	Male: 13.7-16.4; Female: 11.9-14.6		
	Above normal	Male: >16.4; Female: >14.6		
Serum albumin (g/dL)	Lower abnormal	Male: <3.9; Female: <4.0		
	Normal	Male: 3.9-4.7; Female:4.0-4.8		
	Above normal	Male: >4.7; Female: >4.8		
Creatinine (mg/dL)	Below normal	Male: <0.66; Female: <0.47		
	Normal	Male: 0.66-1.08; Female: 0.47-0.82		
	Above normal	Male: >1.08; Female: >0.82		
Uric acid (mg/dL)	Below normal	Male: <3.6; Female: <2.6		
	Normal	Male: 3.6-7.9; Female: 2.6-5.9		
	Above normal	Male: >7.9; Female: >5.9		
Urine	Protein: Negative	(-)		
	Protein: Trace or	(±,+, 2+, 3+, 4+)		
	Positive			
eGFR	Below normal	<60		
$(ml/min/1.73m^2)^{b}$	N 1	> (0		
^a No sex-specific clini	Normal	≥60		

Supplementary Table 1. Clinical normal range utilised to group clinical biomarkers obtained from the Japanese study participants.

^a No sex-specific clinical normal range. ^b Derived using the sex-specific formula: Male = 194 x Creatinine^{-1.09} x Age^{-0.28}; Female = 194 x Creatinine^{-1.09} x Age^{-0.28} -0.739

Supplement Table 2: Validation of the score obtained from the Study of Osteoporotic Fractures (SOF) Frailty Index by testing an association with the previous experiences of fall among the study participants of JAGES 2010 who were not living in the municipalities with the health screening data (N= 66,609).

	Robust		Intermediate		Frail	
	(n=28,198)		(n=27,380)		(n=11,031)	
	%	RRR (95%CI)	%	RRR (95%CI)	%	RRR (95%CI)
Fall						
None	77.1	Reference	69.2	Reference	54.3	Reference
Once	19.1	Reference	24.0	1.38 (1.32- 1.42) ***	30.0	2.05 (1.96-2.14)***
More than once	3.9	Reference	6.9	1.93 (1.78- 2.10) ***	15.7	5.19 (4.65- 5.79) ***
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Notes: Estimates are adjusted for age, sex and residential clustering. RRR: relative risk ratio

*p-value <0.05; **p-value < 0.01; ***p-value <0.001