

Supplemental Table 1. Studies included in analysis, and participant characteristics

Study	Eligibility		N	Age, years	BMI, kg/m <sup>2</sup>	Walking speed, m/s	Mobility limitation (N, %)
Osteoporotic Fractures in Men (MrOS) Study <sup>1,2</sup>	Ambulatory community dwelling men, age ≥ 65 yrs	Men	5827	73.6 ± 5.8	27.4 ± 3.8	1.25 ± 0.24	788 (13.5)
		Women	0	N/A	N/A	N/A	N/A
Study of osteoporotic fractures (SOF) <sup>3,4</sup>	Ambulatory community dwelling women, age ≥ 65 yrs	Men	0	N/A	N/A	N/A	N/A
		Women	1243	77.5 ± 4.9	28.3 ± 5.7	0.88 ± 0.21	432 (34.8)
Health, Aging and Body Composition Study (Health ABC) <sup>5</sup>	Non-disabled black and white men and women aged 70-80	Men	644	80.5 ± 2.9	26.9 ± 4.0	1.10 ± 0.20	128 (19.9)
		Women	719	80.2 ± 2.8	27.3 ± 5.2	1.02 ± 0.20	234 (32.5)
MrOS Sweden <sup>6</sup>	Men age ≥ 70 years in three Swedish communities	Men	2847	75.4 ± 3.2	26.3 ± 3.5	1.27 ± 0.24	336 (11.8)
		Women	0	N/A	N/A	N/A	N/A
Mr&MsOS Hong Kong <sup>7,8</sup>		Men	2000	72.4 ± 5.0	23.4 ± 3.1	1.07 ± 0.23	141 (7.1)

	Men and women age $\geq 65$ years residing in Hong Kong	Women	2000	$72.6 \pm 5.4$	$23.9 \pm 3.4$	$0.96 \pm 0.21$	292 (14.6)
Concord Health and Aging in Men Project (CHAMP) <sup>9</sup>	Men age $\geq 70$ years living near Concord, Australia	Men	1506	$76.6 \pm 5.3$	$27.8 \pm 3.9$	$0.93 \pm 0.21$	130 (8.6)
		Women	0	N/A	N/A	N/A	N/A
Cardiovascular Health Study (CHS) <sup>10,11</sup>	Age $\geq 65$ years at original study enrollment	Men	633	$76.8 \pm 5.0$	$26.6 \pm 3.6$	$0.92 \pm 0.22$	145 (22.9)
		Women	858	$75.9 \pm 4.6$	$27.1 \pm 5.0$	$0.87 \pm 0.23$	258 (30.1)
Johnston County Osteoarthritis Project <sup>12</sup>	Rural white and black residents of Johnston County, North Carolina*	Men	132	$72.2 \pm 5.9$	$28.9 \pm 3.9$	$1.28 \pm 0.34$	45 (34.1)
		Women	223	$73.1 \pm 6.5$	$29.3 \pm 6.3$	$1.15 \pm 0.36$	113 (50.7)
Overall		Men	13589	$74.6 \pm 5.4$	$26.6 \pm 3.9$	$1.17 \pm 0.26$	1713 (12.6)
		Women	5043	$75.5 \pm 5.6$	$26.2 \pm 5.1$	$0.94 \pm 0.23$	1329 (26.4)

\*Johnston County Osteoarthritis Project enrolled participants aged  $\geq 45$  years, but these analyses limited men and women aged  $\geq 65$  years

## Supplemental References

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