

Additional File 7

Supplementary Table 9. Independent associations of three types of impaired blood pressure regulation with demographic, clinical, and geriatric outcomes after adjustments for age, sex, body mass index, and polypharmacy (Model B)

Variable	Orthostatic hypotension		Supine hypertension		Seated hypertension	
	Coefficient (95%CI)	p-value	Coefficient (95%CI)	p-value	Coefficient (95%CI)	p-value
<i>Demographic outcomes</i>						
Age*	B = -0.33 (-3.37, 2.72)	0.832	B = 4.20 (0.61, 7.79)	0.022	B = -2.09 (-5.64, 1.46)	0.246
Age of 65 to 74 years	OR = 1.00 (0.38, 2.65)	0.999	OR = 0.34 (0.11, 1.05)	0.060	OR = 1.26 (0.41, 3.91)	0.686
Female	OR = 0.48 (0.18, 1.30)	0.149	OR = 0.52 (0.14, 1.94)	0.333	OR = 3.75 (1.00, 14.00)	0.049
Height*	B = 0.02 (0.00, 0.05)	0.071	B = 0.03 (0.00, 0.06)	0.072	B = 0.00 (-0.03, 0.03)	0.990
Weight*	B = -0.46 (-4.42, 3.50)	0.818	B = 1.94 (-2.90, 6.78)	0.428	B = 0.16 (-4.53, 4.84)	0.947
Body mass index*	B = -0.86 (-2.39, 0.68)	0.271	B = 0.08 (-1.79, 1.96)	0.931	B = -0.04 (-1.86, 1.77)	0.962
Body mass index of < 18.5 kg/m ²	OR = 0.58 (0.07, 5.01)	0.621	OR = 4.84 (0.33, 71.40)	0.250	OR = 0.11 (0.01, 2.10)	0.142
Body mass index of ≥ 25.0 kg/m ²	OR = 0.56 (0.18, 1.70)	0.306	OR = 1.90 (0.53, 6.76)	0.324	OR = 0.84 (0.24, 2.94)	0.780
<i>Clinical outcomes</i>						
Polypharmacy	OR = 1.70 (0.55, 5.26)	0.355	OR = 1.79 (0.48, 6.72)	0.391	OR = 1.66 (0.44, 6.28)	0.454
Falls	OR = 1.92 (0.60, 6.12)	0.268	OR = 2.23 (0.50, 10.00)	0.295	OR = 0.94 (0.21, 4.15)	0.937
At least one comorbidity	OR = 5.10 (1.82, 15.30)	0.002	OR = 1.22 (0.35, 4.24)	0.750	OR = 0.98 (0.29, 3.33)	0.979
Articular diseases	OR = 7.04	0.012	OR = 0.96	0.966	OR = 1.07	0.943

	(1.54, 32.30)		(0.15, 6.08)		(0.17, 6.96)	
Cancer	NA	NA	NA	NA	NA	NA
Cardiac diseases	OR = 1.60 (0.39, 6.57)	0.517	OR = 1.04 (0.20, 5.31)	0.965	OR = 3.78 (0.71, 20.30)	0.121
Diabetes mellitus	OR = 1.77 (0.39, 8.00)	0.460	OR = 1.43 (0.20, 10.10)	0.723	OR = 0.41 (0.05, 3.13)	0.390
Respiratory diseases	NA	NA	NA	NA	NA	NA
Stroke	NA	NA	NA	NA	NA	NA
<i>Geriatric outcomes</i>						
Non-robust	OR = 2.84 (0.93, 8.69)	0.068	OR = 0.45 (0.12, 1.69)	0.239	OR = 2.78 (0.80, 9.65)	0.108
Shrinking	OR = 4.58 (1.10, 19.00)	0.036	OR = 1.27 (0.21, 7.61)	0.796	OR = 0.32 (0.04, 2.39)	0.268
Exhaustion	OR = 0.83 (0.27, 2.53)	0.745	OR = 1.38 (0.38, 4.99)	0.622	OR = 1.62 (0.45, 5.83)	0.462
Low activity	OR = 1.48 (0.48, 4.62)	0.496	OR = 0.88 (0.21, 3.63)	0.855	OR = 0.65 (0.15, 2.78)	0.565
Slow gait speed	OR = 1.75 (0.38, 8.14)	0.477	OR = 0.67 (0.11, 4.08)	0.659	OR = 0.73 (0.11, 4.76)	0.740
Gait speed*	B = -0.10 (-0.23, 0.04)	0.169	B = 0.26 (0.09, 0.43)	0.003	B = 0.01 (-0.15, 0.17)	0.885
Weak handgrip strength	OR = 7.46 (1.26, 44.00)	0.027	OR = 0.25 (0.04, 1.73)	0.159	OR = 2.18 (0.30, 15.70)	0.439
Handgrip strength*	B = -1.42 (-3.27, 0.44)	0.133	B = 2.04 (-0.22, 4.29)	0.076	B = -0.07 (-2.24, 2.11)	0.952
Skin autofluorescence*	B = 0.11 (-0.07, 0.30)	0.218	B = 0.01 (-0.21, 0.24)	0.900	B = -0.06 (-0.28, 0.15)	0.559

All models were adjusted for age, sex, body mass index, and polypharmacy in addition to the three types of impaired blood pressure regulation. Adjustment variables were excluded from models when they corresponded to the dependent variable being analyzed. Body mass index was also excluded when height or weight were served as dependent variables. The asterisks in the variable column indicate that multiple regression analysis was employed as a multivariate analysis owing to the continuous nature of the dependent variable. Participants with missing values were excluded listwise. P-values marked in bold indicate significance.

B, partial regression coefficient; CI, confidence interval; NA, not applicable; OR, odds ratio.