

**Supplementary Table 7.** Association between fat mass and obesity-related transcript gene variants and fracture risk

rs1421085	CC	CT	TT
Any fracture	1.00 (0.78–1.28)	1.03 (0.85–1.24)	-
Hip fracture	1.42 (0.90–2.24)	0.84 (0.57–1.25)	-
rs1558902	AA	AT	TT
Any fracture	1.02 (0.80–1.31)	1.06 (0.88–1.27)	-
Hip fracture	1.51 (0.96–2.36)	0.97 (0.67–1.42)	-
rs1121980	AA	AG	GG
Any fracture	0.99 (0.78–1.27)	1.05 (0.87–1.27)	-
Hip fracture	<b>1.74 (1.10–2.76)</b>	1.02 (0.67–1.54)	-
rs17817449	GG	GT	TT
Any fracture	0.99 (0.77–1.27)	1.06 (0.88–1.28)	-
Hip fracture	1.55 (0.97–2.50)	0.96 (0.64–1.44)	-
rs9939609	AA	AT	TT
Any fracture	1.00 (0.77–1.30)	1.12 (0.92–1.37)	-
Hip fracture	1.17 (0.70–1.97)	1.01 (0.66–1.54)	-
rs9930506	GG	GA	AA
Any fracture	1.04 (0.81–1.34)	1.12 (0.92–1.36)	-
Hip fracture	<b>1.90 (1.14–3.16)</b>	1.39 (0.89–2.15)	-

Values are hazard ratio derived from the Cox's proportional hazards model with adjustment for age, femoral neck bone mineral density, body mass index, and diabetes mellitus.  $P < 0.05$  is statically significant. Bold values indicate statistical significance.