

Supplementary Table 6. Association between fat mass and obesity-related transcript genotypes of rs9939609 and bone mineral density, bone loss and fracture

I. BMD ^{a)}						
	AA (N=183)	TA (N=480)	TT ^{b)} (N=373)	TA vs. TT	AA vs. TT	TA vs. AA
FN BMD (g/cm ²)	0.79±0.13	0.81±0.13	0.80±0.13	9.76 (-5.70, 25.23)	-6.71 (-26.94, 13.53)	-16.47 (-35.91, 2.96)
LS BMD (g/cm ²)	1.05±0.20	1.05±0.20	1.06±0.19	-14.74 (-39.67, 10.19)	-6.73 (-39.35, 25.89)	8.01 (-23.33, 39.35)
II. Rate of BMD change ^{a)}						
	AA	TA	TT ^{b)}	TA vs. TT	AA vs. TT	TA vs. AA
FN BMD (g/cm ² /year)	-0.004 (0.003)	-0.004 (0.003)	-0.004 (0.004)	<-0.001 (-0.001, 0.001)	<0.001 (-0.001, 0.001)	<0.001 (-0.001, 0.001)
LS BMD (g/cm ² /year)	0.002 (0.008)	0.002 (0.007)	0.002 (0.006)	<0.001 (-0.001, 0.001)	<0.001 (-0.001, 0.002)	<0.001 (-0.001, 0.002)
III. Fractures						
	Variables	Number ^{c)}	Age adjusted		Multivariable adjusted ^{d)}	
			HR (95% CI)	P-value	HR (95% CI)	P-value
Any fracture	AA (N=187)	88 (47.1)	1.02 (0.79–1.33)	0.83	1.01 (0.78–1.31)	0.94
	TA (N=487)	232 (47.6)	1.10 (0.91–1.35)	0.33	1.13 (0.92–1.38)	0.24
	TT (N=381)	171 (44.9)	Reference	-	Reference	-
Hip fracture	AA (N=187)	23 (12.3)	1.19 (0.71–1.99)	0.51	1.20 (0.71–2.00)	0.05
	TA (N=487)	51 (10.5)	1.02 (0.68–1.55)	0.91	1.03 (0.68–1.57)	0.88
	TT (N=381)	40 (10.5)	Reference	-	Reference	-

^{a)}Values for BMD and rate of bone change are presented as mean ± standard deviation. The association between fat mass and obesity-related transcript genotype and bone mineral density (BMD) and bone loss are presented as mean difference (95% confidence interval [CI]) derived from a multivariable linear regression (I. BMD) or mixed-effects regression (II. bone loss), adjusted for age and body mass index (BMI).

^{b)}Reference genotype: TT.

^{c)}The data is presented as N (%) and indicates the number of patients with a fracture.

^{d)}Adjusted for age, femoral neck BMD and BMI.

FN, femoral neck; LS, lumbar spine; HR, hazard ratio.