

Supplemental Table 1. Association between BMD and incident fractures stratified by individual serum biomarkers for low bone turnover versus non-low bone turnover in Health ABC

Incident Fractures per SD Lower Hip BMD				
	Unadjusted	Age, gender, race, and site adjusted	Fully adjusted**	P-interaction
	HR (95% CI)	HR (95% CI)	HR (95% CI)	
FGF-23				0.083
<55	2.42 (1.84, 3.19)	2.46 (1.78, 3.38)	3.91 (2.51, 6.07)	
≥55	1.74 (1.34, 2.26)	1.75 (1.29, 2.36)	2.27 (1.55, 3.33)	
α-klotho				0.776
<588	2.04 (1.54, 2.71)	1.93 (1.39, 2.68)	2.24 (1.51, 3.31)	
≥588	1.94 (1.51, 2.50)	2.03 (1.51, 2.73)	3.09 (2.13, 4.46)	
PTH				0.267
<39	2.20 (1.71, 2.89)	2.23 (1.66, 3.00)	3.09 (2.11, 4.52)	
≥39	1.75 (1.34, 2.29)	1.66 (1.21, 2.28)	1.98 (1.33, 2.95)	
Incident Fractures per SD Lower Spine BMD				
	Unadjusted	Age, gender, race, and site adjusted	Fully adjusted**	P-interaction
	HR (95% CI)	HR (95% CI)	HR (95% CI)	
FGF-23				0.458
<55	1.82 (1.35, 2.45)	1.67 (1.20, 2.34)	1.78 (1.23, 2.59)	
≥55	1.57 (1.24, 2.00)	1.40 (1.07, 1.84)	1.50 (1.11, 2.02)	
α-klotho				0.586
<588	1.73 (1.31, 2.28)	1.51 (1.11, 2.05)	1.54 (1.10, 2.15)	
≥588	1.57 (1.21, 2.02)	1.50 (1.12, 2.01)	1.77 (1.27, 2.46)	
PTH				0.230
<39	1.84 (1.41, 2.41)	1.74 (1.31, 2.32)	1.94 (1.42, 2.65)	
≥39	1.46 (1.12, 1.91)	1.19 (0.88, 1.62)	1.19 (0.83, 1.71)	

**Fully adjusted for age, gender, race, site, BMI, SBP, HTN meds, eGFR, UACR, vitD25(OH)2, smoking status, alcohol use, diabetes, physical activity, osteoporosis meds, and diuretics