

Online Resource 2. Covariate Analyses of Non-adherence in Each Year

Covariate	n	Covariate Effect (Odds Ratio)			Odds Ratio*		
		Point Estimate	(95% CI)	p-Value	Point Estimate	(95% CI)	p-Value
First Year							
Primary analysis model	250				0.44	(0.22, 0.87)	0.019
Age	250	0.96	(0.92, 1.01)	0.123	0.43	(0.22, 0.86)	0.017
Age group					0.43	(0.22, 0.85)	0.015
< 65 years	137	1	-	-			
≥ 65 years	113	0.60	(0.31, 1.20)	0.149			
Race					0.42	(0.21, 0.84)	0.014
Caucasian	234	0.49	(0.15, 1.67)	0.256			
Non-Caucasian	16	1	-	-			
Total hip BMD at baseline	250	0.02	(<0.01, 0.64)	0.028	0.43	(0.22, 0.86)	0.017
Prior bone loss therapy					0.43	(0.22, 0.86)	0.017
Yes	36	0.67	(0.24, 1.86)	0.442			
No	214	1	-	-			
Parental hip fracture					0.40	(0.20, 0.82)	0.012
Yes	49	1.54	(0.70, 3.41)	0.284			
No	191	1	-	-			
Smoking history					0.43	(0.22, 0.85)	0.016
Yes	120	0.54	(0.27, 1.07)	0.078			
No	130	1	-	-			
Alcohol intake					0.42	(0.21, 0.83)	0.013
Yes	149	0.63	(0.32, 1.23)	0.174			
No	101	1	-	-			
Time since menopause, years	250	0.98	(0.95, 1.01)	0.218	0.44	(0.22, 0.88)	0.020
BMQ score at baseline							
Necessity	244	1.35	(0.69, 2.68)	0.382	0.38	(0.18, 0.77)	0.007
Concern	244	1.43	(0.69, 3.00)	0.339	0.36	(0.17, 0.73)	0.005
Preference	244	1.34	(0.59, 3.03)	0.483	0.32	(0.14, 0.74)	0.008
Second Year							
Primary analysis model	221				0.13	(0.06, 0.30)	<0.0001
Age	221	1.02	(0.97, 1.06)	0.525	0.13	(0.06, 0.30)	<0.0001
Age group					0.13	(0.05, 0.29)	<0.0001
< 65 years	121	1	-	-			

≥ 65 years	100	1.39	(0.70, 2.79)	0.350			
Race					0.13	(0.06, 0.30)	<0.0001
Caucasian	209	0.53	(0.14, 2.04)	0.352			
Non-Caucasian	12	1	-	-			
Total hip BMD at baseline	220	1.08	(0.02, 47.97)	0.968	0.13	(0.06, 0.30)	<0.0001
Prior bone loss therapy					0.13	(0.06, 0.30)	<0.0001
Yes	32	1.01	(0.37, 2.76)	0.990			
No	189	1	-	-			
Parental hip fracture					0.14	(0.06, 0.33)	<0.0001
Yes	42	0.62	(0.25, 1.58)	0.320			
No	172	1	-	-			
Smoking history					0.13	(0.06, 0.30)	<0.0001
Yes	107	1.15	(0.58, 2.30)	0.687			
No	114	1	-	-			
Alcohol intake					0.13	(0.06, 0.30)	<0.0001
Yes	133	1.19	(0.59, 2.41)	0.622			
No	88	1	-	-			
Time since menopause, years	221	1.01	(0.98, 1.04)	0.646	0.13	(0.06, 0.30)	<0.0001
BMQ score at baseline							
Necessity	215	0.33	(0.15, 0.72)	0.006	0.12	(0.05, 0.28)	<0.0001
Concern	215	2.40	(1.12, 5.14)	0.025	0.12	(0.05, 0.29)	<0.0001
Preference	215	2.32	(1.12, 4.83)	0.024	0.06	(0.02, 0.18)	<0.0001

* Odds ratios <1 favor denosumab.