

SUPPLEMENTAL FIGURE S1

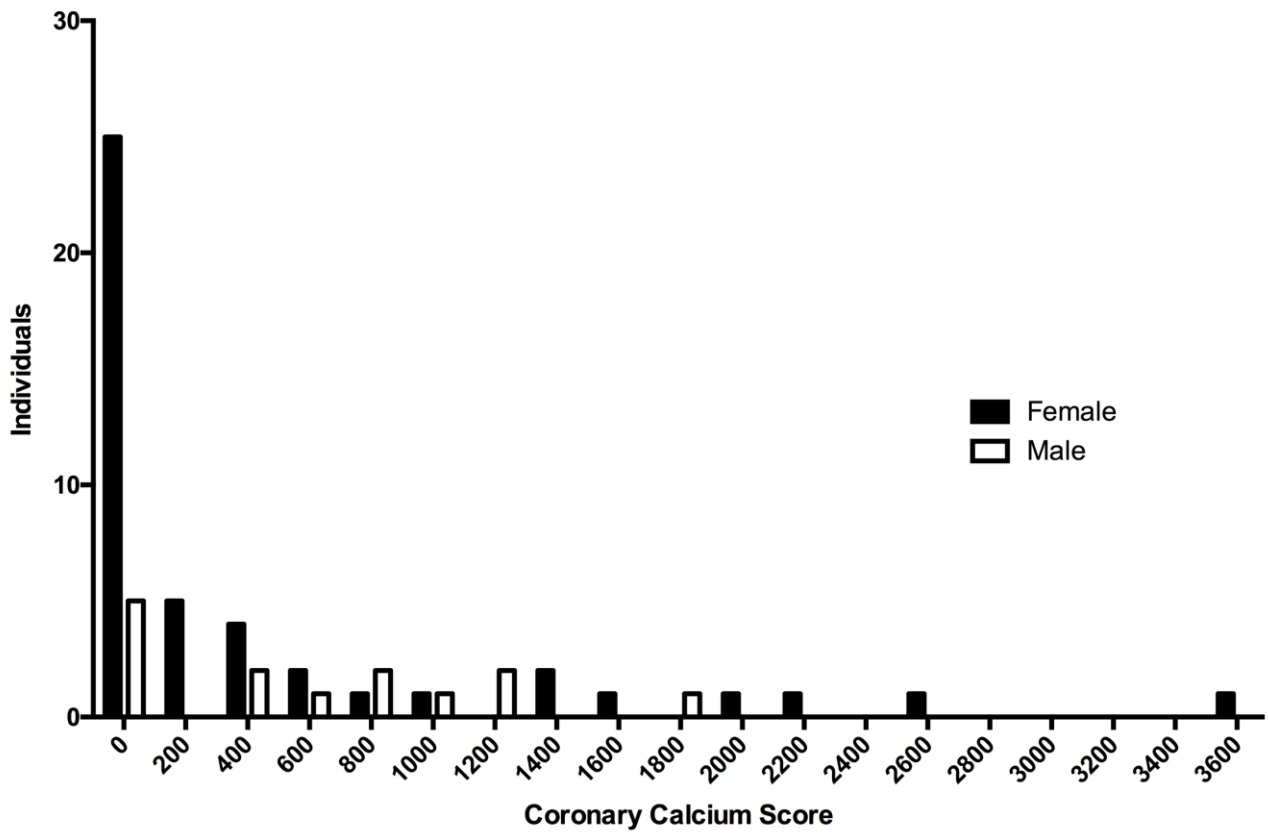


Fig. S1. Histograms of CAC values in female (dark bars) and male (white bars) subjects, created by nonlinear regression of the frequency distribution.

SUPPLEMENTAL FIGURE S2

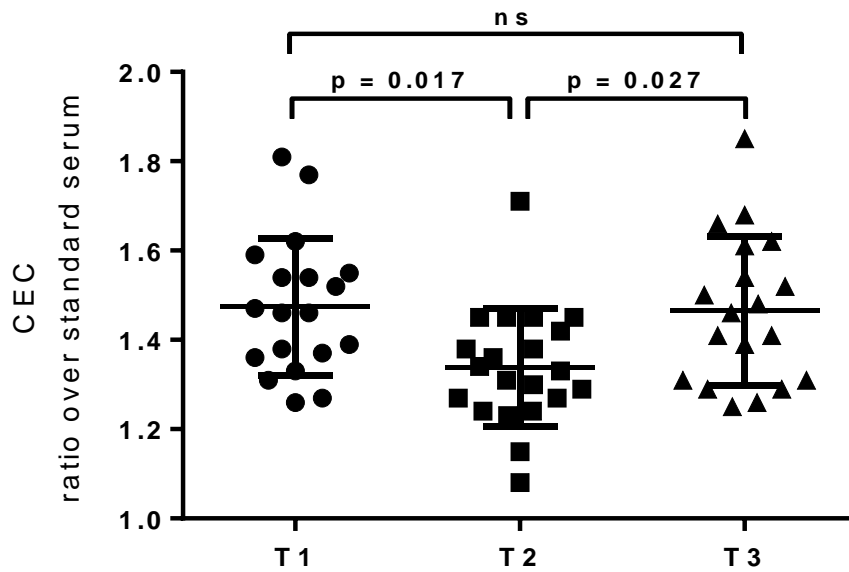


Fig. S2. Stratification of CEC values according to tertiles (T) of CAC in elderly subjects.

Each point represents the mean of CEC values obtained from an evaluation in triplicate of a serum sample.

CEC values are expressed as a ratio over a standard serum as described in Methods section. Statistical significance was calculated by one-way ANOVA with the Tukey's multiple comparisons test.

T1: n = 19; T2: n = 21; T3: n = 19.

SUPPLEMENTAL FIGURE S3

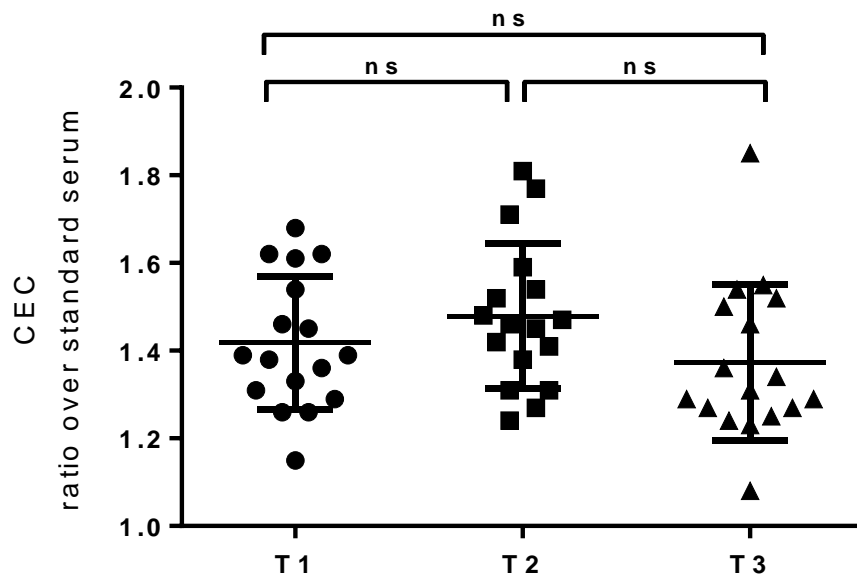


Fig. S3. Stratification of CEC values according to tertiles (T) of telomere length (TL) in elderly subjects.

Each point represents the mean of the values obtained from an evaluation in triplicate of a serum sample.

CEC values are expressed as a ratio over a standard serum as described in Methods section. Statistical significance was calculated by one-way ANOVA with the Tukey's multiple comparisons test.

T1: n = 17; T2: n = 17; T3: n = 17.

SUPPLEMENTAL TABLE S1. Clinical characteristics and laboratory parameters of elderly subjects taking calcium supplements and bisphosphonate.

Subject ID	7	9	10	32	63	80	84	87	113	146	221
Age	90	80	82	85	84	88	91	89	80	82	80
Gender	F	M	F	F	F	F	F	F	F	F	F
BMI (Kg/m²)	22,5	28,3	19,4	24,5	26,3	18,8	22,1	35,3	30,0	18,9	24,7
SBP Mean (mmHg)	135	143	163	142	154	124	127	145	159	125	133
DBP Mean (mmHg)	70	69	79	75	90	81	67	74	93	66	55
Type II diabetes	yes	yes	no	no	no	no	no	no	yes	no	no
Bisphosphonate treatment	A +C1000	I +C500	R +C500	R +C500	I +C500	A +C1000	R +C500	R +C500	I	A +C500	R +C500
Lipid lowering treatment	yes	yes	no	no	no	no	no	yes	no	no	yes
CAC - AGATSTON Score	6	648	77	0	72	14	0	164	0	2573	0
Positive remodeling plaques	no	no	no	no	no	no	yes	yes	no	no	no
Hypodense plaques	no	no	no	no	yes	no	no	yes	no	no	no
Spotty calcified plaques	no	no	no	no	yes	no	no	yes	no	no	no
Napkin-Ring sign	no	no	no	no	no	no	no	yes	no	no	no
Total cholesterol (mg/dL)	164	133	179	227	238	206	206	160	218	248	164
VLDL-C (mg/dL)	23	11	17	41	32	24	30	29	30	11	25
LDL-C (mg/dL)	73	56	97	119	135	106	115	64	142	151	55
Apo B (mg/dL)	56	41	69	86	87	63	86	53	93	96	50
HDL-C (mg/dL)	68	66	65	67	71	76	61	67	46	86	84
Apo AI (mg/dL)	174	163	160	199	173	162	168	173	142	183	173

Triglycerides (mg/dL)	133	71	108	119	127	88	114	108	182	104	44
Glucose (mg/dL)	112	87	84	98	108	102	72	90	128	83	102
Cholesterol efflux (ratio over standards)	1.55	1.29	1.45	1.52	1.30	1.36	1.46	1.33	1.54	1.46	1.27
Telomer lenght	131	110		222		174	67		65	108	91

A: Alendronate sodium 70mg/week; I: Ibandronate sodium 150mg/month; R: Risedronate sodium 35mg/month; C: calcium 500 or 1000mg/die.