

Supplementary

Table S1. Results of ANOVA and Kruskal-Wallis-Tests. Significant p-values are bold.

Modality		Df	Sum Sq	Mean Sq	F-value	p-value
Calcium	Treatments	3	1.52E+09	507252940	1.095	0.38
	Residuals	16	7.41E+09	463286721		
Phosphorus	Treatments	3	9.07E+07	30215264	0.232	0.873
	Residuals	16	2.08E+09	130244910		
Young's modulus	Treatments	3	0.3691	0.123	0.798	0.529
	Residuals	8	1.2326	0.1541		
BV/TV	Treatments	3	27.1	9.033	0.782	0.518
	Residuals	20	231.1	11.555		
Bone-to-enamel distances	Treatments	3	1175380	391793	10.86	0.00341
	Residuals	8	288605	36076		
		Df	Kruskal-Wallis chi-squared		p-value	
Zinc		3	3.3469			0.3412
Ø Microfracture size		3	1.8901			0.5955
Microfracture density		3	3.4286			0.3301
Pore thickness		3	10.329			0.01597

Table S2. Correlation coefficients corresponding to Figure 9.

	BV/TV	Pore thickness	Bone-to-enamel distances	Calcium	Phosphor	Zinc	Ø Microfracture size	Microfracture density	Young's modulus
BV/TV	1.000	0.699	-0.291	0.011	-0.134	0.197	-0.349	0.009	-0.484
Pore thickness	-0.699	1.000	0.528	-0.218	0.026	-0.424	0.423	0.024	0.511
Bone-to-enamel distances	-0.291	0.528	1.000	0.044	0.292	0.157	0.874	-0.375	-0.146
Calcium	0.011	0.218	0.044	1.000	0.851	0.847	-0.219	-0.200	-0.344
Phosphorus	-0.134	0.026	0.292	0.851	1.000	0.584	-0.135	-0.240	-0.196
Zinc	0.197	0.424	0.157	0.847	0.584	1.000	-0.201	-0.213	-0.453
Ø Microfracture size	-0.349	0.423	0.874	-0.219	-0.135	-0.201	1.000	-0.310	0.703
Microfracture density	0.009	0.024	-0.375	-0.200	-0.240	-0.213	-0.310	1.000	-0.302
Young's modulus	-0.484	0.511	-0.146	-0.344	-0.196	-0.453	0.703	-0.302	1.000