

Table S1. Regression equation parameters for the crown diameter (dependent variable) versus the alveolar diameter (independent variable).

Measurement	Arch	Tooth	Model	Coefficients	Estimator	SE	t	Sig.	R	R ²
Mesiodistal	Maxilla	I ¹	Quadratic	b ₀	13.789	5.515	2.501	0.020	0.610	0.372
				b ₁	-2.009	1.710	-1.175	0.251		
				b ₂	0.179	0.132	1.361	0.186		
		I ²	Quadratic	b ₀	4.394	4.706	0.934	0.355	0.635	0.403
				b ₁	0.146	1.964	0.074	0.941		
				b ₂	0.063	0.203	0.308	0.759		
		C'	Quadratic	b ₀	6.683	3.414	1.958	0.056	0.660	0.435
				b ₁	-0.161	1.182	-0.136	0.892		
				b ₂	0.056	0.101	0.548	0.586		
		P ¹	Quadratic	b ₀	15.497	4.844	3.199	0.005	0.513	0.263
				b ₁	-4.037	2.141	-1.886	0.074		
				b ₂	0.471	0.235	2.008	0.058		
		P ²	Quadratic	b ₀	10.954	7.448	1.471	0.159	0.695	0.484
				b ₁	-2.412	3.121	-0.773	0.450		
				b ₂	0.320	0.326	0.983	0.338		
	Mandible	I ₁	Quadratic	b ₀	6.355	5.502	1.155	0.254	0.331	0.109
				b ₁	-1.169	3.151	-0.371	0.712		
				b ₂	0.246	0.449	0.547	0.587		
		I ₂	Quadratic	b ₀	16.510	6.517	2.533	0.015	0.379	0.144
				b ₁	-5.973	3.383	-1.766	0.084		
				b ₂	0.833	0.437	1.905	0.063		
		C ₁	Power	b ₀	3.575	0.440	8.117	0.000	0.615	0.478
				b ₁	0.391	0.074	5.285	0.000		
		P ₁	Quadratic	b ₀	6.180	9.579	0.645	0.521	0.188	0.036
				b ₁	0.094	3.979	0.024	0.981		
				b ₂	0.016	0.412	0.038	0.970		
		P ₂	Quadratic	b ₀	13.737	8.410	1.633	0.111	0.193	0.037
				b ₁	-2.741	3.359	-0.816	0.420		
				b ₂	0.287	0.335	0.858	0.396		
Buccolingual	Maxilla	I ¹	Exponential	b ₀	4.088	0.254	16.063	0.000	0.854	0.729
				b ₁	0.090	0.010	9.282	0.000		
		I ²	Logarithmic	b ₀	-0.202	1.001	-0.202	0.841	0.716	0.513
				b ₁	3.697	0.570	6.492	0.000		
		C'	Quadratic	b ₀	1.914	3.337	0.574	0.570	0.944	0.891
				b ₁	0.886	0.818	1.083	0.287		
				b ₂	-0.010	0.050	-0.200	0.843		
		P ¹	Quadratic	b ₀	12.088	7.165	1.687	0.110	0.909	0.825
				b ₁	-1.699	1.800	-0.944	0.358		
				b ₂	0.162	0.113	1.443	0.167		
		P ²	Quadratic	b ₀	0.614	10.586	0.058	0.954	0.691	0.478
				b ₁	1.537	2.655	0.579	0.569		
				b ₂	-0.062	0.166	-0.376	0.711		
	Mandible	I ₁	Quadratic	b ₀	12.432	18.242	0.681	0.508	0.893	0.798
				b ₁	-3.057	6.161	-0.496	0.628		
				b ₂	0.333	0.518	0.643	0.532		
		I ₂	Inverse	b ₀	10.245	0.652	15.715	0.000	0.833	0.693
				b ₁	-23.116	3.972	-5.820	0.000		
		C ₁	Quadratic	b ₀	1.857	8.655	0.215	0.834	0.878	0.770
				b ₁	0.724	2.177	0.332	0.746		
				b ₂	0.002	0.136	0.016	0.987		
		P ₁	Quadratic	b ₀	17.039	8.866	1.992	0.069	0.852	0.725
				b ₁	-3.349	2.585	-1.296	0.210		
				b ₂	0.289	0.187	1.544	0.138		
		P ₂	Exponential	b ₀	4.843	0.355	13.640	0.000	0.771	0.595
				b ₁	0.074	0.010	7.069	0.000		
Area	Maxilla	I ¹	Quadratic	b ₀	4.843	0.355	13.640	0.000	0.874	0.765
				b ₁	0.074	0.010	7.069	0.000		

Mandible	I ²	Quadratic	b ₀	97.475	26.366	3.697	0.002	0.770	0.592
			b ₁	-2.496	1.229	-2.031	0.060		
			b ₂	0.038	0.014	2.656	0.018		
	C'	Quadratic	b ₀	30.915	22.922	1.349	0.187	0.872	0.761
			b ₁	-0.228	1.635	-0.140	0.890		
			b ₂	0.021	0.028	0.724	0.474		
	P ¹	Quadratic	b ₀	22.294	20.806	1.071	0.293	0.823	0.677
			b ₁	0.970	0.865	1.122	0.271		
			b ₂	-0.002	0.009	-0.201	0.842		
	P ²	Power	b ₀	86.154	47.167	1.827	0.093	0.689	0.475
			b ₁	-2.240	2.560	-0.875	0.399		
			b ₂	0.042	0.034	1.243	0.238		
	I ₁	Power	b ₀	13.006	4.994	2.604	0.018	0.790	0.624
			b ₁	0.423	0.105	4.037	0.001		
			b ₂	1.105	0.880	1.256	0.235		
	I ₂	Quadratic	b ₀	1.096	0.256	4.277	0.001	0.581	0.338
			b ₁	-1.556	85.099	-0.018	0.986		
			b ₂	2.291	6.931	0.331	0.749		
	C ₁	Quadratic	b ₀	-0.026	0.141	-0.184	0.859	0.962	0.925
			b ₁	31.016	21.784	1.424	0.185		
			b ₂	0.058	1.079	0.053	0.959		
	P ₁	Quadratic	b ₀	0.011	0.013	0.858	0.411	0.752	0.565
			b ₁	10.602	70.721	0.150	0.882		
			b ₂	1.542	4.272	0.361	0.722		
	P ₂	Quadratic	b ₀	-0.006	0.063	-0.098	0.923	0.710	0.504
			b ₁	92.981	44.807	2.075	0.047		
			b ₂	-2.844	2.500	-1.137	0.265		
			b ₀	0.053	0.035	1.522	0.139		
			b ₁						
			b ₂						

n, sample size for comparison; SE, standard error; *t*, Student's *t*-test; Sig., significance; R, coefficient of regression; R², coefficient of determination.

Regression models:

Linear: $Y = b_0 + (b_1 \times X)$

Logarithmic: $Y = b_0 + (b_1 \times \ln(X))$

Inverse: $Y = b_0 + (b_1/X)$

Quadratic: $Y = b_0 + (b_1 \times X) + (b_2 \times X^2)$

Power: $Y = b_0 \times X^{b_1}$

Exponential: $Y = b_0 \times e^{(b_1 \times X)}$

where *Y* is the dependent variable (crown diameter of the corresponding tooth)

X is the independent variable (alveolar diameter of the corresponding tooth)