

Supplementary table 1, HR-pQCT measurements, unadjusted

	Radius		Tibia	
	Type 1 diabetes	Controls	Type 1 diabetes	Controls
Geometry				
Total bone area, mm^2				
Mean (SD)	178.2 ± 50.5	169.4 ± 52.8	558.2 ± 142.3	536.1 ± 149.6
Median (Range)	175.0 (94.9;314.3)	164.3 (79.2;298.9)	543.7 (280.1;1058.4)	524.3 (262.8;914.6)
Cortical area, mm^2				
Mean (SD)	49.1 ± 16.5	45.2 ± 20.6	102.4 ± 31.4	95.9 ± 36.9
Median (Range)	44.8 (22.7;92.2)	38.7 (25.2;138.1)	100.9 (46.4;191.5)	88.4 (43.1;215.3)
Tb area, mm^2				
Mean (SD)	129.2 ± 43.3	124.4 ± 42.1	454.8 ± 123.8	439.8 ± 130.6
Median (Range)	131.9 (61.9;262.8)	120.5 (52.9;217.6)	436.0 (233.4;864.1)	436.8 (207.6;817.7)
Volumetric density				
Total vBMD (mg/cm^3)				
Mean (SD)	326.3 ± 74.3	317.7 ± 82.4	288.9 ± 52.8	288.3 ± 64.9
Median (Range)	311.9 (191.4;546.7)	300.03 (206.2;594)	276.8 (199.4;412)	278.8 (197.5;504.4)
Cortical vBMD, (mg/cm^3)				
Mean (SD)	756.5 ± 86.4	731.0 ± 66.0	780.7 ± 86.8	755.1 ± 76.8
Median (Range)	729.4 (558.0;986.3)	715.6 (657.4;920.9)	750.5 (642.7;942.2)	735.5 (646.1;935)
Tb vBMD (mg/cm^3)				
Mean (SD)	150.4 ± 35.6	162.6 ± 36.6	174.6 ± 29.3	183.7 ± 34.7
Median (Range)	148.1 (89.1;280.2)	156.0 (101.4;267.2)	174.5 (111.8;267.7)	182.7 (121.5;269.6)
Microarchitecture				
Tb bone volume fraction				
Mean (SD)	0.125 ± 0.030	0.135 ± 0.030	0.145 ± 0.024	0.153 ± 0.029
Median (Range)	0.123 (0.074;0.234)	0.130 (0.085;0.223)	0.145 (0.093;0.223)	0.152 (0.101;0.225)
Tb numbers (Tb.N), $1/mm$				

Mean (SD)	1.83 ± 0.030	1.99 ± 0.24	1.84 ± 0.28	1.87 ± 0.29
Median (Range)	1.83 (1.11;2.5)	1.99 (1.39;2.55)	1.87 (1.15;2.49)	1.88 (1.3;2.46)
Tb thickness, <i>mm</i>				
Mean (SD)	0.069 ± 0.012	0.069 ± 0.013	0.080 ± 0.012	0.083 ± 0.017
Median (Range)	0.067 (0.046;0.115)	0.064 (0.049;0.104)	0.078 (0.056;0.116)	0.082 (0.051;0.144)
Tb inhomogeneity (SD.1/Tb.N)				
Mean (SD)	0.210 ± 0.067	0.177 ± 0.035	0.213 ± 0.056	0.203 ± 0.045
Median (Range)	0.199 (0.112;0.531)	0.175 (0.115;0.264)	0.202 (0.134;0.479)	0.191 (0.129;0.300)
Cortical thickness, <i>mm</i>				
Mean (SD)	1.038 ± 0.284	0.978 ± 0.349	1.211 ± 0.308	1.155 ± 0.378
Median (Range)	0.966 (0.482;1.689)	0.886 (0.665;2.348)	1.176 (0.694;2.031)	1.057 (0.592;2.467)
Cortical porosity, %				
Mean (SD)	0.037 ± 0.021	0.036 ± 0.014	0.056 ± 0.028	0.058 ± 0.022
Median (Range)	0.036 (0.001;0.104)	0.037 (0.006;0.072)	0.057 (0.008;0.118)	0.059 (0.015;0.107)
Failure load, <i>N</i>				
Mean (SD)	3310.5 ± 1093.1	3098.3 ± 1447.5	9073.1 ± 2685.2	8743.2 ± 3220.1
Median (Range)	3214.6 (1578.9;5753.8)	2616.0 (1250.4;9093)	9255.5 (3780.4;17604.8)	8279.1 (3660.5;18520.6)