

Table S1 Ultimate load (kN) of monocortical and bicortical specimens upon quasi-static compression testing

	Ultimate Load (kN)	
	Monocortical	Bicortical
Specimen 1	2.60	2.26
Specimen 2	2.56	2.98
Specimen 3	2.35	2.20
Specimen 4	2.76	2.64
Specimen 5	2.68	2.73
Mean (Standard deviation)	2.59 ± 0.15	2.56 ± 0.33
Median (Interquartile range)	2.60 ± 0.12	2.64 ± 0.46

Table S2 Maximal load (kN) attained by monocortical and bicortical specimens upon dynamic fatigue testing

	Maximal Load (kN)	
	Monocortical	Bicortical
Specimen 1	1.52	1.28
Specimen 2	1.20	1.28
Specimen 3	1.36	1.20
Specimen 4	1.28	1.36
Specimen 5	1.28	1.28
Mean (Standard deviation)	1.33 ± 0.12	1.28 ± 0.06
Median (Interquartile range)	1.28 ± 0.08	1.28 ± 0.00

Table S3 Number of cycles tolerated by monocortical and bicortical specimens upon dynamic fatigue testing

	Number of cycles tolerated	
	Monocortical	Bicortical
Specimen 1	181,697	121,155
Specimen 2	155,091	120,936
Specimen 3	115,141	114,072
Specimen 4	141,218	155,181
Specimen 5	155,181	121,953
Mean (Standard deviation)	149,666 ± 24234	126,659 ± 16257
Median (Interquartile range)	155,091 ± 13963	121,155 ± 1017