

Table S-3: Output of the statistical linear mixed models (difference, 95% confidence interval and p-value) of the absolute effects of changes in Slice thickness, FOV and Reconstruction kernel, for HU and BMD in the cortical and trabecular ROI, and simulated failure load (N). *The interaction between CT scanner and slice thickness or FOV was not significant and therefore, the effects of slice thickness and FOV hold for all of the CT scanners.

Cortical HU				
		Effect	95% CI	p-value
Slice thickness*		11.5	8.5 – 14.5	<0.001
FOV*		-10.8	-13.8 – -7.8	<0.001
Kernel	P1	102.9	96.9 – 108.9	<0.001
	P2	-39.7	-45.6 – -33.7	<0.001
GE		15.6	9.6 – 21.6	<0.001
To		133.2	127.2 – 139.2	<0.001
Cortical BMD (mg/cm³)				
		Effect	95% CI	p-value
Slice thickness*		11.8	8.5 – 15	<0.001
FOV*		-11.0	-14.3 – -7.7	<0.001
Kernel	P1	25.2	18.6 – 31.7	<0.001
	P2	183.2	176.6 – 189.8	<0.001
GE		1.2	-5.4 – 7.7	0.7
To		27.0	20.5 – 33.6	<0.001
Trabecular HU				
		Effect	95% CI	p-value
Slice thickness*		-1.2	-2.3 – -0.1	0.04
FOV*		-1.1	-2.2 – 0	0.05
Kernel	P1	2.5	0.2 – 4.7	0.03
	P2	-14.9	-17.1 – -12.6	<0.001
GE		1.7	-0.6 – 3.9	0.1
To		29.9	27.7 – 32.1	<0.001
Trabecular BMD (mg/cm³)				
		Effect	95% CI	p-value
Slice thickness*		-1.0	-3.3 – 1.3	0.4
FOV*		-0.7	-3 – 1.7	0.6
Kernel	P1	-14.5	-19.1 – -9.9	<0.001
	P2	14.6	10 – 19.2	<0.001
GE		-2.5	-7.1 – 2.1	0.3
To		-12.1	-16.7 – -7.5	<0.001
Failure load (N)				
		Effect	95% CI	p-value
Slice thickness*		100.5	8.9 – 192.2	0.03
FOV*		-61.8	-153.5 – 29.8	0.2
Kernel	P1	-312.0	-495.3 – -128.6	0.001
	P2	582.5	399.2 – 765.8	<0.001
GE		-73.0	-256.4 – 110.3	0.4
To		-179.8	-363.2 – 3.5	0.06