Supplementary Information

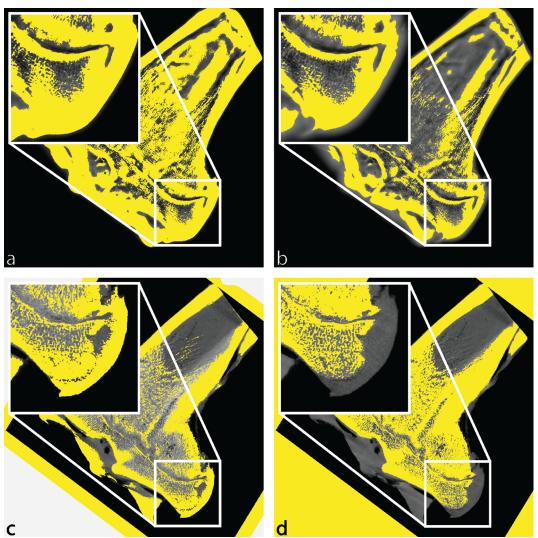


Figure S1: Initial thresholding attempts for FCG using a) adaptive binarization and b) global binarization; μ CT using c) adaptive binarization and d) global binarization.

BA/TA						FD					
	μCT - Adaptive	FCG - Global	FCG - Adaptive	downsampled FCG - Global	downsampled FCG - Adaptive	A STATE OF THE STA	μCT - Adaptive	FCG - Global	FCG - Adaptive	downsampled FCG - Global	downsampled FCG - Adaptive
µCT - Global	1 2 3 1 1 2 3 4 5 6	1 2 3 4 5 6	1 2 3 1 1 2 3 4 5 6	1 2 3 1 1 1 4 5 6	1 2 3	µCT - Global		1 2 3 4 5 6	1 2 3 4 5 6	1 2 3 4 5 6	
иСТ - Adaptive		1 2 3	1 2 3	1 2 3	1 2 3	µСТ - Adaptive		1 2 3 4 5 6	1 2 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 2 3 1 2 3 4 5 6	1 2 3
FCG - Global			1 2 3 4 5 6	1 2 3	1 2 3	FCG - Global			1 2 3 4 5 6	1 2 3	1 2 3
FCG - Adaptive				1 2 3	1 2 3	FCG - Adaptive				1 2 3	1 2 3
downsampled FCG - Global					1 2 3	downsampled FCG - Global					1 2 3
		,				_			4 ,	4	
TbTh Mean						TbSp Mean					
	μCT - Adaptive	FCG - Global	FCG - Adaptive	downsampled FCG - Global	downsampled FCG - Adaptive		μCT - Adaptive	FCG - Global	FCG - Adaptive	downsampled FCG - Global	downsampled FCG - Adaptive
	μCT - Adaptive 1 2 3 1 2 3 4 5 6	FCG - Global 1 2 3 1 2 3 4 5 6	FCG - Adaptive 1 2 3				μCT - Adaptive	FCG - Global 1 2 3	FCG - Adaptive 1 2 3 1 2 3 4 5 6		
TbTh Mean	1 2 3	1 2 3	1 2 3	FCG - Global	FCG - Adaptive	TbSp Mean	μCT - Adaptive 1 2 3 4 5 6	1 2 3	1 2 3	FCG - Global	FCG - Adaptive
LPCG - Global LCT - Adaptive LCT - Global	1 2 3	1 2 3	1 2 3	FCG - Global 1 2 3 4 5 6 1 2 3	FCG - Adaptive 1 2 3 4 5 6 1 2 3	TbSp Mean FCG - Global FCG - Global	μCT - Adaptive 1 2 3 4 5 6	1 2 3 4 5 6 1 2 3	1 2 3 4 5 6	FCG - Global 1 2 3 4 5 6 1 2 3	FCG - Adaptive 1 2 3
LCT - Adaptive LCT - Global	1 2 3	1 2 3	1 2 3 4 5 6 1 2 3 4 5 6 1 2 3 1 1 2 3 1 1 1 1 1 1 1 1 1 1 1 1 1	FCG - Global 1	FCG - Adaptive 1 2 3 4 5 6 1 2 3 4 5 6 1 2 3 1 2 3 1 2 3 1 3 3 3 5 6	TbSp Mean TbSp Mean Tc - Goppi	μCT - Adaptive 1 2 3 4 5 6	1 2 3 4 5 6 1 2 3	1 2 3 4 5 6 1 2 3 4 5 6 1 2 3	FCG - Global 1 2 3 4 5 6 1 2 3 4 5 6	FCG - Adaptive 1 2 3 4 5 6 1 2 3 4 5 6 1 2 3

Figure S2: Results of statistical tests between each region of interest (ROI) for each image type, e.g. ROI 1 in the adaptively binarized μ CT image was compared to ROI 1 in the globally binarized μ CT image, ROI 2 in the adaptively binarized μ CT image was compared to ROI 2 in the globally binarized μ CT image and so on. Solid outlined boxes indicate where a two-sample T-test was performed, assuming unequal variance. Dashed outlined boxes indicate where a Wilcoxon rank sum test was performed (where one or more of the datasets were determined non-normal). A filled box represents where a significant difference (p < 0.05) was observed.