

Preparation of artificial vascularised tissue and the indirect determination of its void volume using μ CT

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Electronic Supplementary Material (ESM)

Table S1. Dependence of the CT number of the fields on the contrast agent

Table S2. Results of the correlation and regression analysis between the CT numbers and the proportion of void volume (PVV) at different contrast agent concentrations (CAC)

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Table S1. Dependence of the CT number of the fields on the contrast agent

All fields (26)	CAC0	CAC3	CAC6	CAC9	CAC12	CAC15
Mean CT number ¹ (HU)	51.3	56.9	58.3	65.5	65.9	66.6
STD (HU)	5.4	6.0	5.1	4.5	7.0	8.0
<i>P</i> -value ²	< 0.000 1	0.003	< 0.000 1	0.74	0.27	
Small proportion of void volume (13)	CAC0	CAC3	CAC6	CAC9	CAC12	CAC15
Mean CT number ¹ (HU)	49.5	53.7	54.8	62.7	62.3	61.4
STD (HU)	6.3	6.0	4.6	2.3	6.6	6.2
<i>P</i> -value ²	< 0.000 1	0.06	< 0.001	0.85	0.33	
High proportion of void volume (13)	CAC0	CAC3	CAC6	CAC9	CAC12	CAC15
Mean CT number ¹ (HU)	53.0	60.1	61.7	68.2	69.6	71.8
STD (HU)	3.7	4.1	3.0	4.5	5.6	6.1
<i>P</i> -value ²	< 0.000 1	0.02	< 0.000 1	0.47	< 0.01	

¹The CT numbers were averaged over all 26 fields and the 13 fields with the smallest and largest PVV, respectively.

²A paired *t*-test was used to test for an increase in the CT numbers of the fields compared to the CT number at the next lowest contrast agent concentration (CAC)

STD = standard deviation

Table S2. Results of the correlation and regression analysis between the CT numbers and the proportion of void volume (PVV) at different contrast agent concentrations (CAC)

	CAC0	CAC3	CAC6	CAC9	CAC12	CAC15
Pearson's correlation coefficient	0.41	0.59	0.74	0.57	0.60	0.69
<i>P</i> -value (correlation)	0.036	0.001	< 0.001	0.002	0.001	< 0.001
Regression	48x + 44	77x + 46	82x + 47	56x + 58	91x + 53	119x + 50
Coefficient of determination <i>R</i> ²	0.17	0.35	0.55	0.33	0.36	0.47