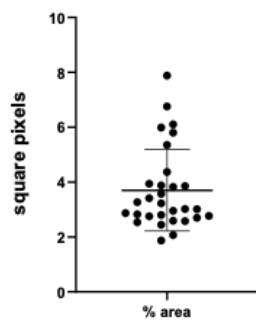


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Online Supplemental Materials 1: Quantitative data on vascularization degree in BTM-islet transplants in porcine skin. Data represent analysis of CD31 staining area (ImageJ with FIJI plugins; National Institutes of Health, Bethesda, Maryland, USA) within islets placed into pre-implanted BTM ('neo-dermal' intracutaneous space) from two individual pig recipients at 64 days post implantation. Tissue blocks were randomly selected from BTM-islet site biopsies, sectioned and 6 representative images from each section (n = 30) were analyzed. Particle count (green channel = CD31 staining) was then analysed using the "analyse particles" option, which resulted in the total area for the white pixels per section. Vascular density was then calculated as a % of total tissue area. Methods are derived from: Schindelin J et al. "Fiji: an open-source platform for biological-image analysis", Nature Methods, pp. 676–82, 2012.



Number of values	30
Minimum	1.871
25% Percentile	2.741
Median	3.121
75% Percentile	4.045
Maximum	7.879
Range	6.008
10% Percentile	2.453
90% Percentile	6.092
95% CI of median	
Actual confidence level	95.72%
Lower confidence limit	2.803
Upper confidence limit	3.852
Mean	3.700
Std. Deviation	1.486
Std. Error of Mean	0.2713
Lower 95% CI of mean	3.145
Upper 95% CI of mean	4.255
Coefficient of variation	40.16%
Geometric mean	3.463
Geometric SD factor	1.429
Lower 95% CI of geo. mean	3.031
Upper 95% CI of geo. mean	3.957
Harmonic mean	3.272
Lower 95% CI of harm. mean	2.922
Upper 95% CI of harm. mean	3.718
Quadratic mean	3.978
Lower 95% CI of quad. mean	3.258
Upper 95% CI of quad. mean	4.586
Skewness	1.339
Kurtosis	1.113
Sum	111.0