

Supplementary Table S4. Associations between first-trimester trajectories of vascular density (number of uPVS points per cm³ uPVV) and first-trimester trajectories of embryonic growth and development (n = 214).

Morphologic characteristics	Crown rump length (mm)		Embryonic volume (cm ³)		Carnegie stage (N = 23)	
	N = 200		N = 192		N = 152	
	β [95% CI]		β [95% CI]		β [95% CI]	
	Crude	Adjusted	Crude	Adjusted	Crude	Adjusted
ln Density of endpoints (n/cm ³)	-0.121 [-0.205; -0.037]**	-0.114 [-0.203; -0.026]*	-0.044 [-0.086; -0.003]*	-0.038 [-0.081; 0.005]	0.474 [0.088; 2.556]	0.695 [0.118; 4.079]
ln Density of bifurcation points (n/cm ³)	-0.123 [-0.285; 0.039]	-0.112 [-0.292; 0.047]	-0.045 [-0.123; 0.032]	-0.031 [-0.112; 0.049]	0.996 [0.046; 21.617]	1.368 [0.051; 36.683]
ln Density of crossing points (n/cm ³)	0.004 [-0.186; 0.194]	-0.003 [-0.202; 0.195]	0.001 [-0.092; 0.094]	-0.008 [-0.088; 0.104]	1.969 [0.057; 67.464]	1.917 [0.080; 46.025]

Depicted are the crude and adjusted estimates: adjusted for maternal age, parity, conception mode, BMI, smoking, folic acid supplement use, and fetal sex. Carnegie stages (n = 23). uPVS, utero-placental vascular skeleton; uPVV, utero-placental vascular volume. Bold text indicates statistically significant a association. Significance at * P ≤ 0.05, ** P ≤ 0.01.