

TABLE E1 Bivariate Correlation Matrix*

	Fixation Strength	Interface Stiffness	Energy to Failure	Bone Ingrowth	Gap BV/TV	Gap Tb.N	Gap Tb.Th	Gap Tb.Sp	Gap BS/BV	Adjacent BV/TV	Adjacent Tb.N	Adjacent Tb.Th	Adjacent Tb.Sp
Fixation Strength													
Interface Stiffness	0.887†												
Energy to Failure	0.634†	0.317											
Bone Ingrowth	−0.029	−0.105	0.034										
Gap BV/TV	0.677†	0.587†	0.316	−0.332									
Gap Tb.N	0.614†	0.578†	0.301	−0.411‡	0.900†								
Gap Tb.Th	0.466‡	0.314	0.267	0.117	0.656†	0.317							
Gap Tb.Sp	−0.420‡	−0.364	−0.367	0.542†	−0.693†	−0.805†	−0.086						
Gap BS/BV	−0.443‡	−0.323	−0.285	0.093	−0.617†	−0.278	−0.933†	0.191					
Adjacent BV/TV	0.622†	0.578†	0.412‡	−0.156	0.399‡	0.574†	−0.091	−0.540†	0.070				
Adjacent Tb.N	0.515†	0.564†	0.140	−0.090	0.348	0.535†	−0.112	−0.385‡	0.157	0.835†			
Adjacent Tb.Th	−0.070	−0.232	0.375‡	−0.178	−0.088	−0.120	−0.099	−0.212	−0.053	−0.041	−0.518†		
Adjacent Tb.Sp	−0.576†	−0.607†	−0.269	0.157	−0.376‡	−0.516†	0.005	0.359	−0.031	−0.808†	−0.889†	0.412‡	
Adjacent BS/BV	0.134	0.283	−0.285	0.057	0.107	0.167	0.008	0.077	0.099	0.158	0.659†	−0.931†	−0.532†

*The correlations are based on a sample size of twenty-eight (with use of the seven treated sites from each of the four groups in the study). BV/TV= bone volume/total volume, Tb.N = trabecular number, Tb.Th = trabecular plate thickness, Tb.Sp = intertrabecular separation, BS/BV = trabecular bone-specific surface. †Correlation significant at the 0.01 level (2-tailed). ‡Correlation significant at the 0.05 level (2-tailed).