

Supplementary Table S3—Results of comparisons for pitting potential and metal ion release of representative plates from each of the 3 groups of SS TPLO plates in Supplementary Table S2.

A—Descriptive statistics and tests of normality for results of 9 repeated surface measurements per group.

		Cast with OSA ¹	Cast without OSA ²	Forged without OSA ³	
Pitting Potential [mV]	Average	157.3	202.8	991.7	
	Standard deviation	45.9	107.5	8.3	
	95% Confidence Interval	Lower Bound	51.4	-45.1	972.4
		Upper Bound	263.2	450.7	1010.9
	Tests of Normality (Shapiro-Wilk, p-value)	0.834	0.006	<0.001	
		0.001			
Metal ions (Charge [nC])	Average	576.4	201.1	27.3	
	Standard deviation	136.0	101.0	6.7	
	95% Confidence Interval	Lower Bound	262.7	-31.7	11.8
		Upper Bound	890.0	433.9	42.7
	Tests of Normality (Shapiro-Wilk, p-value)	0.117	<0.001	0.001	
		0.005			

¹ Cast SS plates from dogs with osteosarcoma

² Cast SS plates from dogs without osteosarcoma

³ Forged SS plates from dogs without osteosarcoma

B—Statistical analysis of the pitting potential and metal ion release results of 9 repeated surface measurements per group.

		Cast with OSA ¹	Cast without OSA ²	Forged without OSA ³	
Pitting Potential [mV]	Independent Kuskal-Wallis Test (Omnibus test)	<0.001			
	Independent Samples Mann-Whitney U Test with Bonferroni correction for significant values (p-value)	Cast with OSA ¹	–	0.666	<0.003
		Cast without OSA ²	–	–	0.003
Metal ions (Charge [nC])	Independent Kuskal-Wallis Test (Omnibus test)	<0.001			
	Independent Samples Mann-Whitney U Test with Bonferroni correction for significant values (p-value)	Cast with OSA ¹	–	0.024	<0.003
		Cast without OSA ²	–	–	0.033

¹ Cast SS plates from dogs with osteosarcoma

² Cast SS plates from dogs without osteosarcoma

³ Forged SS plates from dogs without osteosarcoma