

**Supplementary Table S1**—Summary data on dogs from which cast or forged SS TPLO plates were retrieved.

Signalment and retrieval information

Breed	Sex <sup>1</sup>	Implant <sup>2</sup>	Side <sup>3</sup>	Magnetic <sup>4</sup>	Time <i>in situ</i> [yr] <sup>5</sup>	Age at implant [yr] <sup>6</sup>	Age at explant [yr] <sup>7</sup>	Histological Findings
Rottweiler	FS	Cast SS	L	yes	5.8	4.2	10.0	Osteosarcoma
Rottweiler	FS	Cast SS	R	yes	6.6	3.4	10.0	Osteosarcoma
Rottweiler	FS	Cast SS	R	yes	7.8	3.3	11.0	Osteosarcoma
Rottweiler	MC	Cast SS	R	yes	5.3	4.8	10.0	Osteosarcoma
Rottweiler	FS	Cast SS	R	yes	8.0	0.8	8.8	Osteosarcoma
Rottweiler	MC	Cast SS	L	yes	4.0	3.0	7.0	Osteosarcoma
Rottweiler	MC	Cast SS	R	yes	6.5	2.0	8.5	Osteosarcoma
Labrador Retriever	FS	Cast SS	R	yes	4.0	4.0	8.0	Osteosarcoma
Labrador Retriever	MC	Cast SS	R	yes	8.0	1.0	9.0	Osteosarcoma
Labrador Retriever	MC	Cast SS	L	yes	7.0	2.0	9.0	Osteosarcoma
German Shepherd Dog <sup>8</sup>	FS	Cast SS	L	yes	5.7	6.1	11.8	Histiocytic Sarcoma*
German Shepherd Dog	MC	Cast SS	R	yes	6.3	3.2	9.5	Osteosarcoma
Great Pyrennes	MC	Cast SS	L	yes	4.0	3.0	7.0	Osteosarcoma
Great Pyrenees	MC	Cast SS	R	yes	6.0	1.5	7.5	Osteosarcoma
Mixed Breed	FS	Cast SS	L	yes	6.0	5.0	11.0	Osteosarcoma
Mixed Breed	MC	Cast SS	R	yes	4.0	4.0	8.0	Osteosarcoma
Bouvier des Flandres	MC	Cast SS	L	yes	5.2	2.8	8.0	Osteosarcoma
Doberman Pinscher	FS	Cast SS	R	yes	6.0	4.0	10.0	Osteosarcoma
Mastiff	MC	Cast SS	L	yes	1.8	4.3	6.0	Osteosarcoma
Newfoundland	MC	Cast SS	L	yes	6.7	1.5	8.2	Osteosarcoma
Staffordshire Terrier	FS	Cast SS	R	yes	6.3	1.7	8.0	Osteosarcoma
St. Bernard	FS	Cast SS	L	yes	6.0	2.5	8.5	Osteosarcoma
Labrador Retriever	FS	Cast SS	L	yes	3.7	4.4	8.1	No Osteosarcoma
Labrador Retriever	MC	Cast SS	R	yes	5.1	2.3	7.4	No Osteosarcoma
Labrador Retriever	MC	Cast SS	L	yes	4.2	0.9	5.1	No Osteosarcoma
Labrador Retriever	MC	Cast SS	R	yes	3.0	2.1	5.1	No Osteosarcoma

<b>Labrador Retriever</b>	MC	Cast SS	L	yes	2.0	2.7	4.7	No Osteosarcoma
<b>Labrador Retriever</b>	MC	Cast SS	R	yes	3.0	1.7	4.7	No Osteosarcoma
<b>Labrador Retriever</b>	MC	Cast SS	L	yes	4.9	2.1	7.0	No Osteosarcoma
<b>Mixed Breed</b>	FS	Cast SS	L	yes	4.0	2.7	6.7	No Osteosarcoma
<b>Mixed Breed</b>	FS	Cast SS	R	yes	3.8	2.8	6.7	No Osteosarcoma
<b>Mixed Breed</b>	MC	Cast SS	L	yes	2.0	5.5	7.5	No Osteosarcoma
<b>Mixed Breed</b>	MC	Cast SS	R	yes	3.0	4.5	7.5	No Osteosarcoma
<b>Mixed Breed</b>	M	Cast SS	L	yes	3.0	3.9	6.9	No Osteosarcoma
<b>American Bloodhound</b>	MC	Cast SS	L	yes	2.3	3.2	5.5	No Osteosarcoma
<b>American Bloodhound</b>	MC	Cast SS	R	yes	2.5	3.0	5.5	No Osteosarcoma
<b>Boxer</b>	MC	Cast SS	L	yes	5.8	3.5	9.3	No Osteosarcoma
<b>Boxer</b>	MC	Cast SS	R	yes	4.6	4.7	9.3	No Osteosarcoma
<b>German Shepherd Dog</b>	MC	Cast SS	R	yes	4.3	4.7	9.0	No Osteosarcoma
<b>German Shepherd Dog</b>	MC	Cast SS	L	yes	3.0	6.0	9.0	No Osteosarcoma
<b>Airedale</b>	MC	Cast SS	R	yes	2.2	4.1	6.3	No Osteosarcoma
<b>Mastiff</b>	MC	Cast SS	L	yes	2.4	3.9	6.3	No Osteosarcoma
<b>Newfoundland</b>	MC	Cast SS	R	yes	5.9	2.3	8.2	No Osteosarcoma
<b>Rottweiler</b>	MC	Cast SS	R	yes	2.4	4.6	7.0	No Osteosarcoma
<b>German Shepherd Dog</b>	MC	Forged SS	L	no	2.5	2.5	5.0	No Osteosarcoma
<b>Labrador Retriever</b>	MC	Forged SS	L	no	3.0	7.1	10.1	No Osteosarcoma
<b>Golden Retriever</b>	FS	Forged SS	L	no	3.3	2.2	5.5	No Osteosarcoma

<sup>1</sup> Sex: M = male, MC = male castrated; FS = female spayed

<sup>2</sup> Cast SS = Slocum cast stainless steel TPLO plate; Forged SS = DePuy Synthes® forged stainless steel TPLO plate

<sup>3</sup> Side: L = left; R = right

<sup>4</sup> Magnetic Test with a magnet

<sup>5</sup> Time *in situ* in years

<sup>6</sup> Dog age on the day of plate implantation

<sup>7</sup> Dog age on the day of plate explantation

<sup>8</sup> Reported in the publication: Boudrieau RJ, McCarthy RJ, Sisson RD Jr. Sarcoma of the proximal portion of the tibia in a dog 5.5 years after tibial plateau leveling osteotomy. *J Am Vet Med Assoc* 2005;227: 1613–1617.

\* Not used for electrochemical analyses