

**Supplemental Table 1.** Signalment and cause of anemia of 26 recipient dogs.

Recipient #	Breed	Gender	Age (years)	Cause of anemia	
R1	Jack Russel	FS	8	Splenic hemangiosarcoma	R,
R2	Poodle	F	2	Thoracic bite wounds	
R3	Husky	M	10	Splenic hemangiosarcoma	reci
R4	Boxer	M	7	Splenic hemangiosarcoma	pie
R5	Griffon	F	0,8	Traumatic hemoabdomen	
R6	Staffordshire Terrier	FS	3	Iron deficiency anemia	nt;
R7	French Bulldog	M	10	DIC	
R8	Boxer	F	2	Traumatic hemothorax	M,
R9	Doberman	F	7	IMHA	mal
R10	Doberman	M	3	ITP	
R11	Cocker	FS	4	ACRs	e;
R12	Chihuahua	F	3	Myelodysplastic syndrome	
R13	Akita Inu	FS	1	Traumatic hemoabdomen	F,
R14	Bordeaux Mastiff	FS	4	ACRs	fem
R15	Chihuahua	M	1	IMHA	
R16	Standard Poodle	FS	4	GDV	ale;
R17	Jack Russel	M	2	Gastrointestinal hemorrhage	
R18	Bordeaux Mastiff	M	2	Retromandibular abscess	MC
R19	Beagle	F	0,7	ACRs	
R20	Dachshund	MC	10	Thoracic bite wounds	,
R21	Poodle	FS	15	Splenic hemangioma	mal
R22	Bernese Mountain Dog	FS	5	ACRs	
R23	Setter	M	5	ACRs	e
R24	Alaskan Malamute	M	1	Parvovirus infection	
R25	Beagle	MC	12	Surgical bleeding	cas
R26	Afghan Hound	M	10	Pulmonary carcinoma / hemothorax	trat

ed; FS, female spayed

ACRs: anticoagulant rodenticides

DIC: disseminated intravascular coagulation

GDV: gastric dilatation-volvulus

IMHA: immune-mediated hemolytic anemia

ITP: immune-mediated thrombocytopenia

**Supplemental Table 2.** Dog Erythrocyte Antigen (DEA) 1 and DEA 7 typing and major crossmatch results of 26 recipient dogs pre- and post-transfusion with 29 donors totaling 32 transfusion events.

#	DEA blood type				Pre- and post-transfusion major crossmatch results						
	Recipient		Donor		Pre-transfusion	1 <sup>st</sup> follow-up	2 <sup>nd</sup> follow-up				
	DEA 1	DEA 7	DEA 1	DEA 7	results	11-22 days (median 16)	26-129 days (median 39)	Day	Crossmatch results	Day	Crossmatch results
R1*	-	+	-	+	-	ND	ND	93	-		
R2	-	ND	-	-	-	ND	ND	129	-		
R3	-	ND	-	ND	-	19	-	31	-		
			-	-	-	19	-	31	-		
R4	-	+	-	+	-	ND	ND	115	-		
R5	-	ND	-	ND	-	ND	ND	115	-		
R6*	-	ND	-	-	-	ND	ND	79	+		
R7*	-	-	-	-	-	ND	ND	106	+		
R8	-	-	-	+	-	ND	ND	72	+		
R9**	-	ND	2+	-	-	ND	ND	67	+		
R10*	1+	-	3+	+	-	12	-	39	+		
R11	1+	ND	2+	-	-	ND	ND	30	-		
R12	1+	+	1+	-	-	22	-	39	-		
R13*	2+	-	1+	+	-	19	+	70	+		
			2+	+	-	16	+	67	+		
R14*	2+	+	3+	+	-	13	-	32	+		
R15	2+	-	1+	+	-	15	+	26	+		
R16	2+	-	1+	-	-	ND	ND	42	+		
R17*	2+	+	3+	-	-	ND	ND	28	+		
			2+	-	-	ND	ND	26	-		
R18	2+	-	1+	+	-	ND	ND	39	-		
			2+	-	-	ND	ND	39	-		
R19	2+	+	2+	+	-	16	-	58	-		
R20	2+	ND	3+	+	-	16	-	37	-		
R21	2+	ND	3+	-	-	ND	ND	55	-		
R22*	3+	ND	-	+	-	11	-	31	+		
			2+	+	-	11	-	31	+		
R23	3+	ND	2+	-	-	ND	ND	37	+		
R24	3+	ND	3+	-	-	ND	ND	80	-		
R25	3+	-	2+	-	-	21	-	35	-		
R26	3+	-	2+	-	-	ND	ND	33	-		
			3+	-	-	ND	ND	33	-		

DEA, Dog Erythrocyte Antigen.

DEA 1 expression was classified as negative (MFI<10), weakly positive (10≤MFI<100), moderately positive (100≤MFI<300), and strongly positive (MFI≥300)

Typing results: -, negative; +, positive; ND, not determined

1+, weakly *DEA 1+*; 2+, moderately *DEA 1+*; 3+, strongly *DEA 1+*

Crossmatch results: -, compatible; +, incompatible; ND, not determined

\* Recipients which were used for the screening of alloantibodies with the panel RBCs

\*\* Dog that had received accidentally *DEA 1* mismatched blood

**Supplemental Table 3.** *Dog Erythrocyte Antigen (DEA) 1 and DEA 7 mismatched transfused recipient dogs pre- and post-transfusion.*

Recipient	Donor	Pre- and post-transfusion major crossmatch results		
		Pre-transfusion	1 <sup>st</sup> follow-up	2 <sup>nd</sup> follow-up
#	<i>DEA 1</i> blood type	<i>DEA 1 mismatch</i>		
R9	- m+	-	ND	+
	<i>DEA 7</i> blood type	<i>DEA 7 mismatch</i>		
R8	- +	-	ND	+
R10	- +	-	-	+
R13	- +	-	+	+
	+ +	-	+	+
R15	- +	-	+	+
R18	- +	-	ND	-

*DEA, Dog Erythrocyte Antigen.*

Typing results: -, negative; +, positive; ND, not determined

m+, moderately *DEA 1*+

Crossmatch results: -, compatible; +, incompatible; ND, not determined

#R9 received accidentally *DEA 1* mismatched blood

1<sup>st</sup> follow-up 11-22 days (median 16)

2<sup>nd</sup> follow-up 26-129 days (median 39)