

Table S1. Dogs with IBD included in this study

ID	Breed	Age (months)	Sex	Body weight (kg)	Type of diarrhea	Duration of diarrhea (weeks)	Vomit	Alb	CRP	CCECAI	WSAVA total score	Diet	Anti-biotics	Sampling sites (most marked inflammation)	Therapy/Response to treatment
IBD1	Chihuahua	101	fs	1.65	Sm	34	+	3.7	3.05	3	8	Royal Canin Hypoallergenic	M	S/D (D)	Prednisolone 1 mg/kg/day; Complete remission
IBD2	Setland Sheepdog	58	m	6.5	Sm	16	+	1.7	0.5	5	11	Royal Canin Hypoallergenic	M	S/D/I/C (S/D)	Prednisolone 1.5 mg/kg/day; Complete remission
IBD3	Toy Poodle	70	f	3	Sm	6	+	1.3	1.45	10	11	Royal Canin Gastro Intestinal Low Fat	M	S/D/I (D/I)	Prednisolone 2 mg/kg/day; Complete remission
IBD4	Shiba Inu	85	fs	8.4	Sm	15	-	1.9	0.55	6	15	Hill's z/d	M	S/D/C (D)	Prednisolone 1.5 mg/kg/day; Partial response
IBD5	West Highland White Terrier	60	f	4.55	Sm	25	+	3	0.1	5	16	Royal Canin Hypoallergenic	M	S/D/I/C (D/I)	Prednisolone 1 mg/kg/day; No response, dead
IBD6	Miniature Dachshund	160	m	4.4	Sm	4	-	1.3	0.65	7	9	Royal Canin Hypoallergenic	M	S/D/I/C (D/I)	Prednisolone 1.5 mg/kg/day; Complete remission
IBD7	Shiba Inu	64	m	6.25	Sm	16	-	3.2	0	4	16	Royal Canin Hypoallergenic	M	S/D/I/C (D/I)	Prednisolone 2 mg/kg/day; Complete remission
IBD8	Yorkshire Terrier	93	fs	2.85	Sm	8	-	2.5	0.55	6	15	Royal Canin Hypoallergenic	M	S/D/I/C (D)	Prednisolone 1 mg/kg/day; Complete remission
IBD9	Chihuahua	52	mn	3.6	Sm	21	-	1.4	2.2	5	15	Royal Canin Gastro Intestinal Low Fat	M	S/D (D)	Prednisolone 1 mg/kg/day; Complete remission
IBD10	Jack Russell Terrier	67	m	6.15	Sm	7	-	2.7	1.9	5	13	Hill's d/d potato & salmon	M	S/D/I/C (D)	Prednisolone 2 mg/kg/day; No response, dead
IBD11	Toy Poodle	59	fs	4	Sm/L	23	+	2.6	3.3	3	13	Hill's i/d	M	S/D/I/C (D/I)	Prednisolone 1 mg/kg/day; Complete remission
IBD12	Pomeranian	86	f	3.45	Sm	3	-	1.2	2.9	16	13	Royal Canin Hypoallergenic	M	S/D/I (D/I)	Prednisolone 2 mg/kg/day; No response, dead
IBD13	Pug	90	f	6.2	Sm	12	-	1.8	0.4	8	14	Royal Canin Hypoallergenic	M	S/D/I/C (D)	Prednisolone 1 mg/kg/day; Complete remission
IBD14	Pug	138	m	4.6	Sm	11	-	1.5	0.6	7	10	Royal Canin Gastro Intestinal Low Fat	M	S/D/I/C (D/I)	Prednisolone 1 mg/kg/day; Complete remission
IBD15	Toy Poodle	107	fs	3.45	Sm	5	-	2.6	0.1	5	11	Royal Canin Hypoallergenic	M	S/D/I/C (D)	Prednisolone 1 mg/kg/day; Complete remission
IBD16	Cairn Terrier	170	m	5.1	Sm	9	-	2.6	0	9	9	Hill's z/d	M/T	S/D/I (D)	Prednisolone 1 mg/kg/day; Complete remission
IBD17	Cavalier King Charles Spaniel	94	m	9.95	Sm	16	-	3.5	0	8	8	Hill's z/d	M/T	S/D/I/C (D)	Prednisolone 1 mg/kg/day; Complete remission
IBD18	Setland Sheepdog	159	fs	9.95	Sm	14	+	3.1	3.55	5	11	Hill's z/d	T	S/D/C (D)	Prednisolone 1 mg/kg/day; No response, dead
IBD19	Yorkshire Terrier	96	fs	2.2	Sm/L	5	-	2.2	0	10	7	Royal Canin Hypoallergenic	M	S/D/I (D)	Prednisolone 2 mg/kg/day, cyclosporine 4 mg/kg/day; No response, dead
IBD20	Pembroke Welsh Corgi	59	m	12.6	Sm	32	-	3.1	0.1	8	8	Royal Canin Hypoallergenic	M	S/D/I/C (D)	Prednisolone 1 mg/kg/day; Complete remission
IBD21	Pembroke Welsh Corgi	140	fs	10.3	Sm	4	+	1.4	0.7	6	13	Hill's z/d	M	S/D/I (D/I)	Prednisolone 1 mg/kg/day; Complete remission
IBD22	Miniature Dachshund	52	m	4.3	Sm/L	16	+	3.3	0.1	4	11	Royal Canin Hypoallergenic	M	S/D/I/C (D)	Prednisolone 1 mg/kg/day; Complete remission
IBD23	Beagle	114	fs	10.75	Sm	4	-	1.8	0	4	12	Royal Canin Gastro Intestinal Low Fat	M	S/D/I/C (D/I)	Prednisolone 1 mg/kg/day; Complete remission
IBD24	Miniature Schnauzer	132	m	7.1	Sm	5	+	3.4	2.75	9	5	Royal Canin Hypoallergenic	M	S/D/I/C (D)	Prednisolone 1 mg/kg/day; Complete remission
IBD25	Chihuahua	87	mn	3.85	Sm	3	-	1.3	0.25	5	9	Hill's z/d	M	S/D/I/C (D)	Prednisolone 1 mg/kg/day; Complete remission
IBD26	Yorkshire Terrier	127	m	2.3	Sm	3	-	1.4	3.65	10	15	Royal Canin Hypoallergenic	M	S/D/I/C (D)	Prednisolone 1 mg/kg/day; Complete remission
IBD27	Cavalier King Charles Spaniel	38	m	6	Sm	8	-	1.7	0.55	3	6	Royal Canin Hypoallergenic	M/T	S/D/I/C (D/I)	Prednisolone 1 mg/kg/day; Complete remission
IBD28	French Bulldog	99	f	9.5	Sm/L	7	-	2	0	5	11	Select protein duck & rice	M/T	S/D/C (D)	Prednisolone 1 mg/kg/day; Partial response
IBD29	Miniature Dachshund	56	m	3.8	Sm	5	-	3.3	0.55	4	7	Hill's z/d	M	S/D/I/C (D/I)	Prednisolone 1 mg/kg/day; Complete remission
IBD30	Boston Terrier	52	m	9	Sm	14	-	1.6	0.3	5	14	Royal Canin Gastro Intestinal Low Fat	M	S/D/I/C (D/I)	Prednisolone 1 mg/kg/day; Complete remission
IBD31	Jack Russell Terrier	70	mn	7.5	Sm	5	+	1.8	0.2	5	7	Select protein duck & rice	M	S/D/I/C (D)	Prednisolone 1 mg/kg/day; Complete remission
IBD32	Shiba Inu	136	m	8.6	Sm	22	+	3	0.2	5	4	Royal Canin Hypoallergenic	M	S/D/I (D)	Prednisolone 1 mg/kg/day; Complete remission
IBD33	Cavalier King Charles Spaniel	119	fs	6.7	Sm	25	+	1.7	2.25	4	12	Hill's d/d potato & salmon	M	S/D/I/C (D/I)	Prednisolone 1 mg/kg/day; Complete remission
IBD34	Pug	81	mn	9.1	Sm	28	+	1.5	1.15	6	13	Royal Canin Gastro Intestinal Low Fat	M	S/D/I/C (D/I)	Prednisolone 1 mg/kg/day; Complete remission
IBD35	Bichon Frise	139	f	6.81	Sm	64	-	1.7	0	5	13	Hill's d/d potato & salmon	M	S/D/I/C (D/I)	Prednisolone 1 mg/kg/day; No response, dead
IBD36	Miniature Dachshund	100	mn	4.55	Sm	9	+	3	1.6	11	9	Hill's z/d	M	S/D/I (D/I)	Prednisolone 1 mg/kg/day; Complete remission
IBD37	Boston Terrier	71	m	9.45	Sm	16	-	1.5	3.45	6	12	Royal Canin Hypoallergenic	M/T	S/D/I/C (D/I)	Prednisolone 1 mg/kg/day; Complete remission
IBD38	Maltese	107	m	4	Sm	13	-	1.9	0	8	11	Hill's d/d potato & salmon	M	S/D/I (D)	Prednisolone 1 mg/kg/day; Complete remission
IBD39	Maltese	131	fs	3.4	Sm	5	+	3.6	0.3	6	7	Hill's z/d	M	S/D/I/C (D/I)	Prednisolone 1 mg/kg/day; Complete remission
IBD40	Boston Terrier	75	fs	4	Sm	14	-	1.8	0.3	12	9	Royal Canin Hypoallergenic	M/T	S/D/I (D/I)	Prednisolone 2 mg/kg/day; No response, dead

IBD, inflammatory bowel disease; m, male intact; f, female intact; mn, male neutered; fs, female spayed; Sm, small intestinal; L, large intestinal; M, metronidazole; T, tylosin; S, stomach; D, duodenum; I, ileum; C, colon; CCECAI, canine chronic enteropathy clinical activity index; WSAVA, World Small Animal Veterinary Association

Table S2. Summary of histopathologic scores based on the WSAVA standards in the duodenal mucosa of the 40 dogs with IBD

Score	Villous Stunting	Epithelial Injury	Crypt Distension	Lacteal Dilation	Mucosal Fibrosis	IELs	LPLs	Lamina Propria Neutrophils	Total WSAVA Score	
0 (normal)	7	5	8	12	0	2	7	28	≤ 4 (insignificant)	1
1 (mild)	26	12	18	16	1	16	14	9	5–9 (mild)	14
2 (moderate)	6	17	11	10	11	15	10	3	10–14 (moderate)	19
3 (marked)	1	6	3	2	28	7	9	0	15–19 (severe)	6
									≥20 (very severe)	0
Total	40	40	40	40	40	40	40	40		40

IELs, intraepithelial lymphocytes; LPLs, lamina propria lymphocytes. The numbers in each cell represent the number of dogs.