

Supplemental Table S1

Signalment and results of clinicopathological investigation of 24 dogs.

Case number	Age ^d	Breed	Sex	Duration between clinical onset and cholecystectomy	Gallbladder rupture?	Chief complaint	Ultrasonographic findings of gallbladder	CBC ^j	Blood chemistry ^k
GU^a1	103	Toy Poodle	M ^e	> 3 wks	Yes	Vomiting, lethargy	Mucocele	Leukocytosis with band neutrophils	TP ^l 4.0, Alb ^m 1.3, CRP ⁿ >7.0, TBA ^o 19.7 (pre)→33.2 (post), branched chain amino acids 187, thyroxine 16 2wk later TP 5.4 and Alb 1.8
GU2	162	Shetland Sheepdog	CM ^f	3 days	No	Anorexia, lethargy, vomiting, icterus	Distention, thickened wall	None	Elevated liver enzymes, T-Bil 6.3, ALP ^p >3500
GU3	170	Miniature Dachshund	CM	2 days	Yes	Lethargy	Gallbladder rupture	NA	Elevated liver enzymes
GU4	86	Mixed breed	SF ^g	2 wks	No	Anorexia, bilirubinuria, icterus	Material with shadowing	NA	ALP >2000, ALT ^q 869, AST ^r 163, GGT ^s 126, T-Bil ^t 5.2
GU5	157	Miniature Dachshund	SF	Same day	No	Anorexia, vomiting, diarrhea	Sludge, thickened wall	Anemia	Glu ^u 74, Alb 2.2, ALT 78, AST 421, ALP 650, CRP over
GU6	132	German Shepherd Dog	M	Same day	Yes	Vomiting, lethargy, ascites (yellowish sanguineous fluid)	NA	NA	NA
GU7	69	Mixed breed	CM	> 1 month	Yes	NA	NA	NA	NA
GU8	102	Yorkshire Terrier	F ^h	9 days	NA	Anorexia, lethargy, vomiting, icterus	Immovable contents	NA	ALT >1000, ALP >3500, Lip ^v >1000, T-Bil 1.0, elevation of T-Cho ^w , GGT, CRP
GU9	120	Mixed breed	CM	Same day	NA	Collapse, hemoabdomen	NA	Mild anemia	Elevated ALT and ALP
GU10	166	Shiba Inu	CM	17 days	No	Anorexia, vomiting	Sludge, thickened wall	None	Elevation of T-Bil, liver enzymes, CRP
GU11	112	Miniature Dachshund	SF	Same day	No	Vomiting	NA	NA	Marked elevation of liver enzymes and T-Bil
GU12	127	Pembroke Welsh Corgi	SF	6 days	No	Anorexia, lethargy, vomiting	Mucocele, dilation of	NA	Marked elevation of T-Bil
GU13	104	Chihuahua	SF	Same day	Yes	Lethargy	Gallstone	Neutrophilia with left shift and toxic neutrophils	ALT 133, AST 55, ALP 3212, T-Cho 347, GGT 18
GU14	107	Mixed breed	CM	1 day	NA	Febrile	NA	None	ALT 248, AST 128, ALP 3083, T-Bil 0.7, T-Cho 438, GGT 16
CC^b1	149	Miniature Dachshund	SF	No clinical sign	No	None	Fluid	None	No abnormality
CC2	30	French Bulldog	M	No clinical sign	No	Intermittent vomiting after meal, rare hematemesis	Sludge	NA	Elevated liver enzymes
CC3	161	Chihuahua	CM	NA ⁱ	No	NA	NA	NA	NA
CC4	146	Maltese	SF	No clinical sign	No	None	Sludge, gallstone	NA	NA
CC5	174	Miniature Dachshund	CM	3 days	No	Anorexia, icterus	Cholecystitis	Anemia	NA
GM^c1	146	Border Collie	CM	No clinical sign	No	NA	Mucocele	NA	Elevated ALT and ALP
GM2	136	Shiba Inu	M	1 day	No	Anorexia, lethargy	Mucocele	Leukocytosis	Elevation of liver enzymes and T-Bil
GM3	150	Chihuahua	CM	1 day	No	Anorexia	Mucocele	NA	NA
GM4	126	Pomeranian	M	> 2 months	No	NA	Mucocele, marked distention, thickened wall	NA	NA
GM5	144	Miniature Schnauzer	CM	No clinical sign	No	NA	Mucocele	NA	Elevated liver enzymes

^agallbladder ulcer, ^bchronic cholecystitis, ^cgallbladder mucocele, ^din months, ^emale, ^fcastrated male, ^gspayed female, ^hfemale, ⁱnot available, ^jcomplete blood count, ^j and ^kno reference interval provided, ^ltotal protein, ^malbumin, ⁿcholesterol, ^xpresent, ^ygallbladder wall total thickness in micrometer

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Other findings provided by the submitters	Ultrasonographic sludge	Histologic mucocele	Histologic gallbladder contents	Histologic erosion and/or ulcer	Severe cholecystitis	Mild cholecystitis	No cholecystitis	GWTT ^y
Small intestinal lymphatic dilation upon laparotomy, gallbladder adhesion		P	Mucocele, blood, fibrin, bile	P			P	1760
Common bile duct occlusion			Mucus, bile, blood	P	P			1450
Ascites, recent rabies vaccination		P	Mucus, blood	P	P			3800
Opaque material on X-ray, cholelith in gallbladder and bile duct on CT, dilation and tortuosity of bile duct			Mucus, blood	P	P			1650
Splenic nodular masses (ultrasound, laparotomy: histologic diagnosis extramedullary hematopoiesis)	P ^x		Mucus, bile, fibrin, blood, suppurative exudate	P	P			1430
Ascites with cocci-laden neutrophils			Mucus, bile, blood	P	P			2130
Gallbladder adhesion		P	Blood	P			P (autolysis/necrosis)	1640
None			Blood, suppurative exudate	P		P		1300
Hepatic nodular mass (histologic diagnosis hepatocellular adenoma)			Blood	P		P		840
Common bile duct partial occlusion	P		Mucus, blood	P	P			1360
Microhepatia			Mucus, blood	P	P			1180
Dilation of bile duct			Mucus, blood	P	P			1700
Gallbladder suppurative exudate			Mucus, blood, suppurative exudate	P	P			1260
Peritonitis			Bile	P	P			2090
Fragile liver			None		P			912
Scant ascites upon laparotomy, pyloric stenosis palpated	P		None		P			1780
NA			None		P			1540
Bile duct dilation	P		None		P			1360
NA			None		P			1560
Small intestinal lymphangiectasis		P	Mucocele			P		1510
NA		P	Mucocele					1470
NA	P	P	Mucocele			P		1700
NA		P	Mucocele			P		2710
Diabetes mellitus (being treated with insulin), obese, hepatomegaly		P	Mucocele			P		481

nin, ⁿC-reactive protein, ^ototal bile acids, ^palkaline phosphatase, ^qalanine aminotransferase, ^raspartate aminotransferase, ^sγ-glutamyl transpeptidase, ^ttotal bilirubin, ^uglucose, ^vlipase, ^wtotal