

Diarrhoea and vomiting in a Yorkshire Terrier- File A

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Case Presentation

An entire female Yorkshire terrier, 9 years old was presented with a history of a 2 weeks episode of vomiting and diarrhoea. The report of the referring veterinarian revealed fever (39.8°C), anorexia, loss of weight and dullness at clinical examination.

Laboratory Results

The data from haematology and biochemistry are presented in Table 1 and Table 2 respectively. There were no abnormal findings on urinalysis. Clotting times were also normal (PT: 13 seconds, N: 12-17; APTT: 89 seconds, N: 71-102).

Table 1: Haematology data for the patient

Parameter	Value	Unit	Reference range
Hct	0.45	L/L	(0.37 - 0.55)
Hgb	157	g/L	(120 - 180)
RBC	6.4	$\times 10^{12}/L$	(5.5 - 8.5)
MCHC	348	g/L	(310 - 362)
MCV	71	fL	(60 - 77)
MCH	25	pg	(19.5 - 25)
Plt	300	$\times 10^9/L$	(150 - 500)
MPV	12	fL	(7 - 11)
WBC	20	$\times 10^9/L$	(6 - 17)
Neut	13.5	$\times 10^9/L$	(3 - 11.5)
Lym	2.9	$\times 10^9/L$	(1 - 3.6)
Mono	1.55	$\times 10^9/L$	(0 - 1.35)
Eos	0.98	$\times 10^9/L$	(0 - 1.47)

Table 2: Biochemistry data for the patient

Parameter	Value	Unit	Reference range
Tot Protein	76	g/L	(54 - 71)
Albumin	30	g/L	(31 - 40)
Globulin	46	g/L	(28 - 42)
ALT	429	U/L	(0 - 50)
GLDH	94	U/L	(0 - 10)
ALP	4336	U/L	(0 - 140)
GGT	27	U/L	(0 - 8)
Bile Acids	37	umol/L	(0 - 15)
Post prandial bile	13.7	umol/L.	

acids			
Total Bili	10.6	umol/L	(0.9 - 10)
Amylase	876	U/L	(0 - 730)
LIPASE	51	U/L	(0 - 130)
CK	47	U/L	(0 - 50)
Cholesterol	5.8	mmol/L	(3.2 - 6.5)
Glucose	3.8	mmol/L	(3 - 6.5)
Urea	10	mmol/L	(3.6 - 8.6)
Creatinine	68	umol/L	(20 - 120)
Sodium	152	mmol/L	(137 - 151)
Chloride	113	mmol/L	(99 - 110)
Calcium	2.7	mmol/L	(2.3 - 3)
Phosphorus	1.8	mmol/L	(0.8 - 1.8)
Potassium	3.9	mmol/L	(3.7 - 5.8)

Ultrasonography



Figure 1: Ultrasonography of the gallbladder

Cytology

Direct smears of bile obtained by gallbladder lumen aspiration were stained with Wright's-Giemsa for cytologic examination (Figures 2 and 3).

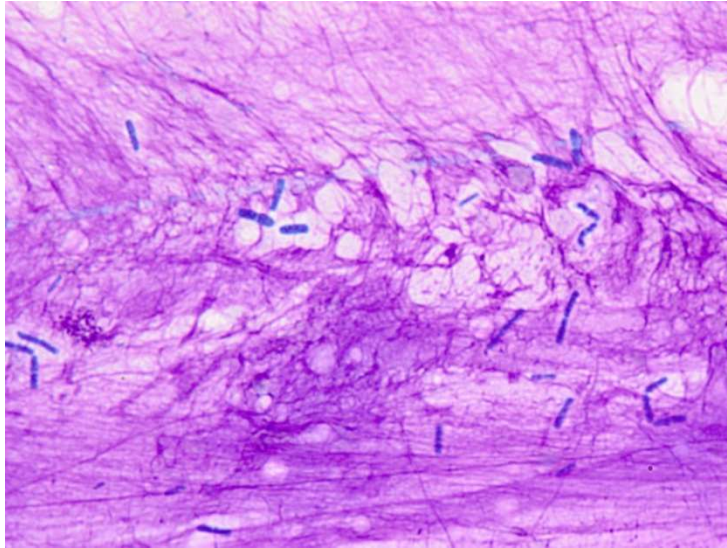


Figure 2: bile aspirate (Wright Giemsa, x1000 magnification)

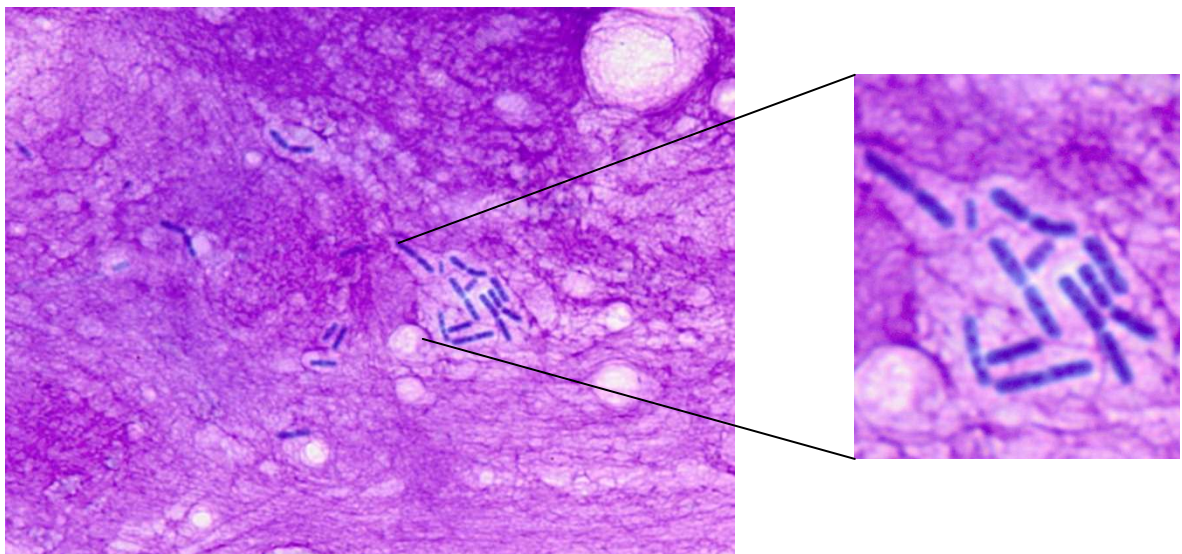


Figure 3: bile aspirate (Wright Giemsa, x1000 magnification)

Histology

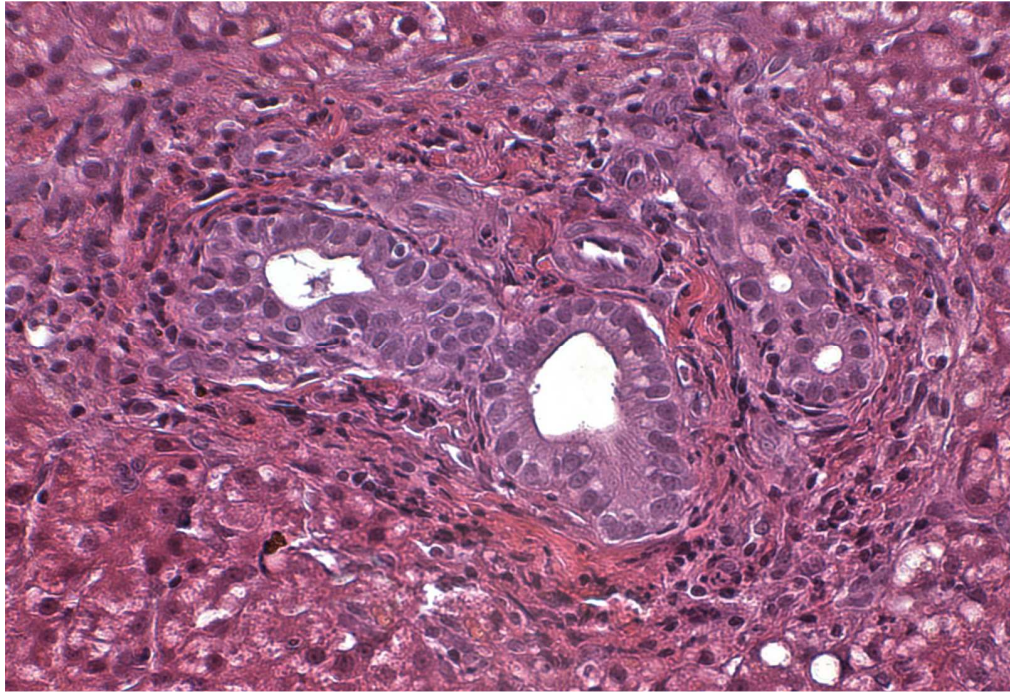


Figure 4: Liver biopsy

What is your diagnosis?