

Clinical pathology diagnostic challenge : case #32

Signalment: 15 month old female Collie dog.

History: normal appetite, weight loss, pale and greasy feces.

Physical exam observations: emaciation

CBC results

No CBC requested.

Clinical chemistry results

Glucose (3.38-6.88 mmol/L)	6.60
BUN (2.09-7.91 mmol/L)	4
Creatinine (58-127 µmol/L)	95
ALT (4-62 U/L)	50
Alkaline phosphatase (6-80 U/L)	20
Total protein (56.6-74.8 g/L)	51.2
Albumin (29.1-39.7 g/L)	27.7
Globulins (23.5-39.1 g/L)	23.5
Calcium (2.38-3.00 mmol/L)	2.6
Phosphorus (0.75-1.70 mmol/L)	1.44
Potassium (3.82-5.34 mmol/L)	4.18
Sodium (143-154 mmol/L)	144.7
Chloride (108-117 mmol/L)	117.9
Total CO ₂ (17-25 mmol/L)	20
Anion Gap (12-24 mmol/L)	11

Other tests

Pancreatic enzymes tests

Amylase (700-1700 U/L)	820 U/L
Lipase (52-305 U/L)	42.1 U/L
TLI (5 - 35 ng/ml)	0.1 ng/ml

Using the laboratory changes, submit a differential diagnosis and justify it (pathophysiology). If needed list other possible tests to confirm your diagnosis.