

SUPPORTING INFORMATION

Management of type 2 diabetes mellitus and feline infectious peritonitis in a Persian Peaknose cat†

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S1 Results of Hematology and Blood Biochemistry Test

Table S1. Hematological and biochemical findings in the cat. Hematological analysis revealed an increased MID% and mild anemia characterized by decreased hematocrit (24.4%) and mean corpuscular volume (37.0 fL), with elevated mean corpuscular hemoglobin concentration (44.6 g/dL), indicating hyperchromic microcytic anemia. Biochemical evaluation showed marked hyperglycemia (524 mg/dL) and elevated alanine aminotransferase (ALT, 238 U/L), suggesting type 2 Diabetes Mellitus with possible hepatic involvement. The albumin-to-globulin ratio (0.6) further supported the diagnosis of non-effusive Feline Infectious Peritonitis.

Table S1. Hematological and biochemical findings in the cat

Parameter	Normal	Result	Unit
Hematology Test			
White Blood Cell	5.5 – 19.5	11.9	10 ³ /μL
Lymphocyte	0.8 – 7	2.6	10 ³ /μL
Mid-Cell Count	0 – 1.9	1.4	10 ³ /μL
Granulocytes Count	2.1 – 15	7.9	10 ³ /μL
Lymph%	12 – 45	21.7	%
Mid-Cell Percentage	2 – 9	11.8 ↑	%
Granulocytes Percentage	35 – 85	66.5	%
Red Blood Cell	4.6 – 10	6.61	10 ⁶ /μL
Hemoglobin	9.3 – 15.3	10.9	g/dl
Hematocrit	28 – 49	24.4 ↓	%
Mean Corpuscular Volume	39 – 52	37.0 ↓	fL
Mean Corpuscular Hemoglobin	13 – 21	16.4	pg
Mean Corpuscular Hemoglobin Concentration	30 – 38	44.6 ↑	g/dl
Red Cell Distribution Width - Coefficient of Variation	14 – 18	17.3	%
Red Cell Distribution Width - Standard Deviation	20 – 80	20.7	fL
Platelet Count	100 – 514	298	10 ³ /μL
Mean Platelet Volume	5 – 11.8	11.3	fL
Platelet Distribution Width	5 – 20	8.6	%
Procalcitonin	0.1 – 0.5	0.336	%
Platelet Large Cell Count	-	198	10 ³ /μL
Platelet-Large Cell Ratio	10 – 70	66.5	%
Eosinophil Percentage	-	2.7	%
Blood Biochemistry Test			
Albumin	2.2 – 4.5	2.9	g/dl
Total Protein	5.4 – 8.9	7.6	g/dl
Globulin	1.5 – 5.7	4.7	g/dl
Albumin/Globulin Ratio	-	0.6	
Calcium	7.8 – 11.8	8.6	mg/dl
Glucose	74 – 159	524 ↑	mg/dl
Blood Urea Nitrogen	10 – 43	28.4	mg/dl
Phosphate	3.1 – 8.5	4.84	mg/dl
Amylase	400 – 3500	781	U/L
Cholesterol	65 – 225	158	mg/dl
Alanine Aminotransferase	8.2 – 123	238 ↑	U/L
Total Bilirubin	0.1 – 0.9	0.43	mg/dl
Alkaline Phosphatase	10 – 90	63	U/L
Creatinine	0.3 – 2.5	0.71	mg/dl
Blood Urea Nitrogen / Creatinine Ratio	-	40	
Creatine Kinase	50 – 450	77	U/L

S2 Figure of Monitoring Blood Glucose Levels

Figure S2 shows the blood glucose monitoring results, with the highest level recorded at 524 mg/dL, an average of 337.63 mg/dL, and the lowest at 214 mg/dL.

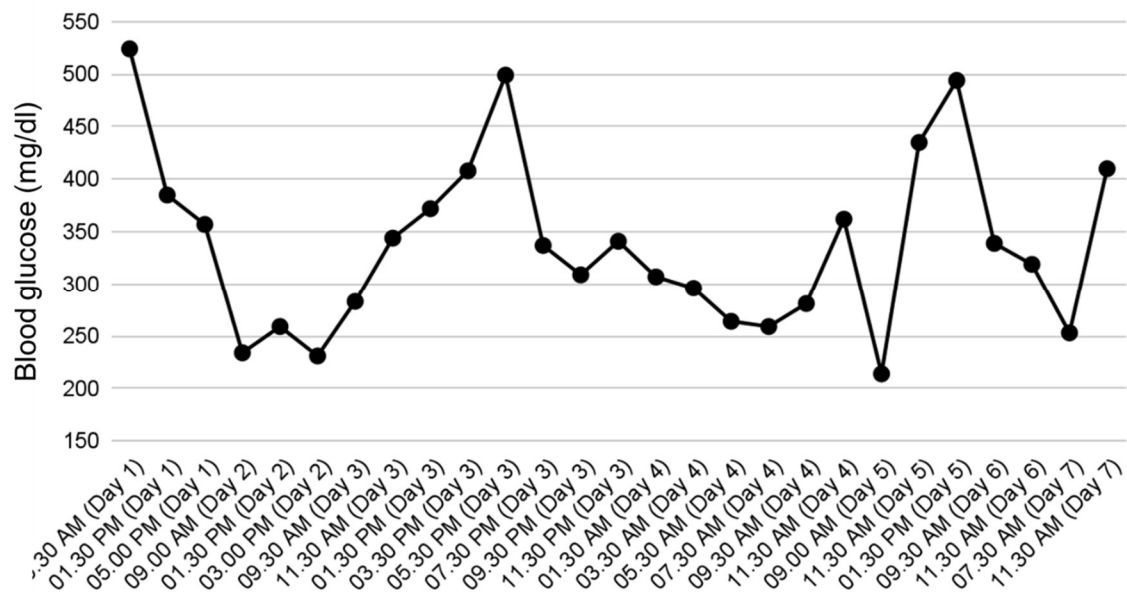


Figure S2. Blood glucose monitoring of the patient