

SUPPORTING INFORMATION

Polycystic kidneys disease in a Himalayan-Persian crossbreed cat[†]

Putri Nugraha¹, Convienna¹, Andreas Topan Dewa¹, I Putu Cahyadi Putra²,
Ni Wayan Helpina Widyasanti^{3,*}

¹ Kassiti Vetcare Clinic, Bandung, West Java, Indonesia

² Laboratory of Veterinary Parasitology, Faculty of Veterinary Medicine, Udayana University, Bali, Indonesia

³ Laboratory of Veterinary Anatomy and Embryology, Faculty of Veterinary Medicine, Udayana University, Bali, Indonesia

[†] Electronic Supplementary Information (ESI) available.

See DOI: <https://dx.doi.org/10.29244/avl.9.2.43-44>

S1 Results of haematology and blood chemistry examination of Himalayan-Persian crossbreed cat

Table S1 shows the haematology and blood chemistry examination of Himalayan-Persian crossbreed cat with Polycystic kidneys disease. Routine haematology examination showed a decrease in haemoglobin and haematocrit levels, which is an indication of anaemia. Blood chemistry examination results showed an increase in amylase and creatinine levels, both of which indicate kidney disorders and are related to a decrease in the glomerular filtration rate. Creatinine values exceeding 250 indicate that kidney damage has reached stage 3 (stage 3 of a total of four stages).

Parameters	Results	Normal Range
Haematology		
White Blood Count (WBC) ($10^3/\mu\text{L}$)	16.6	5.5 - 19.5
Lymphocyte ($10^3/\mu\text{L}$)	2.8	0.8 - 7
Mid-Size Cell ($10^3/\mu\text{L}$)	1.9	0 - 1.9
Granulocyte ($10^3/\mu\text{L}$)	11.9	2.1 - 15
Lymphocyte (%)	17	12 - 45
Mid-Size Cell (%)	11.2	2 - 9
Granulocyte (%)	71.8	35 - 85
Red Blood Cell ($10^6/\mu\text{L}$)	5.2	4.5 - 10
Haemoglobin (g/dL)	7.8	9.3 - 15.3
Haematocrit (g/dL)	26.4	28 - 49
Mean Corpuscular Volume (pg)	52.6	39 - 52
Mean Corpuscular Haemoglobin (fL)	15.5	13 - 21
Mean Corpuscular Haemoglobin Concentration (g/dL)	295	300 - 380
Red Cell Distribution Width Coefficient Variation (%)	16.3	14 - 18
Red Cell Distribution Width Standard Deviation (fL)	27.4	20 - 80
Platelet ($10^3/\mu\text{L}$)	175	100 - 514
Mean Platelet Volume (fL)	9.5	5 - 11.8
Platelet Distribution Width (%)	12.3	5 - 20
Procalcitonin (%)	0.166	0.1 - 0.5
Platelet-Large Cell Coefficient ($10^3/\mu\text{L}$)	56	
Platelet-Large Cell Ratio	32.2	10 - 70
Eosinophil (%)	2.5	
Blood chemistry		
Albumin (g/L)	27.5	22 - 44
Total Protein (g/L)	75.6	57 - 89
Globulin (g/L)	48.1	23 - 52
Albumin-Globulin Ratio A/G	0.57	
Tuberculosis ($\mu\text{mol/L}$)	0.4	0.0 - 15
Alanine Aminotransferase (U/L)	65	5 - 130
Alkaline Phosphatase (U/L)	13	14 - 111
Cholinesterase enzymes (U/L)	1,146	736 - 3,016
Amylase (U/L)	1,528	500 - 1,500
Creatinine ($\mu\text{mol/L}$)	363.1	44 - 212
Uric Acid ($\mu\text{mol/L}$)	<10.00	0.00 - 60.00
Blood Urea Nitrogen ($\mu\text{mol/L}$)	26.47	4.00 - 12.90
Blood Urea Nitrogen-Creatinine Ratio	70.152	27.00 - 182.00
Glucose ($\mu\text{mol/L}$)	9.27	4.11 - 88.83
Potassium ($\mu\text{mol/L}$)	5.72	3.50 - 5.80
Sodium ($\mu\text{mol/L}$)	147	140 - 160