

Table S1. Details of the diseases or conditions recorded in the different groups of samples.

| Group | N | Subgroup | Diseases/ conditions |
|------------------------------|----|--|---|
| Controls | 53 | Pre-elective surgery (n=18) | Neutering (n=10); Correction of osseous anomalies (n=3); Dental surgery (n=2); Lipoma (n=2); Perineal hernia (n=1) |
| | | Wellness visits/vaccination (n=15) | |
| | | Follow-up of sick animals (n=8) | Leishmaniasis after treatment and negative serology (n=3) Previous GI (n=2) or CNS (n=2); Treated Addison's disease (n=1) |
| | | Tumors after chemotherapy of surgery (n=8) | Mast cell tumor (n=4); Carcinoma (n=2); CLL (n=1) Lymphoma (n=1) |
| | | Diagnostic imaging (n=5) | No significant diseases (n=5) |
| Mild chronic disorders | 53 | Orthopedic disorders (n=13) | |
| | | Non-neoplastic non-inflammatory neuropathy (n=9) | Peripheral neuropathies (n=7) Idiopathic epilepsy (n=2) |
| | | Cardiopathy (n=6) | |
| | | Respiratory disorders (n=6) | |
| | | Hematologic disorders (n=6) | IMTP (n=5), Non-regenerative anemia (n=1) |
| | | Dermatopathy (n=5) | |
| | | Metabolic disorders (n=3) | Endocrine diseases (n=2); MGUS (n=1) |
| | | Miscellaneous (n=5) | Cystitis (n=2); Enteropathy (n=1); Otitis (n=1); Immune-mediated uveitis (n=1) |
| Severe/acute diseases | 52 | Gastrointestinal signs (n=17) | Non specific etiology (n=14); Parvovirus (n=3) |
| | | Foreign bodies (n=8) | Ingested (n=2); Subcutaneous (n=6) |
| | | Acute respiratory distress (n=7) | Non specific (n=5); Pulmonary oedema (n=1); Pneumothorax (n=1) |
| | | Acute trauma (n=5) | |
| | | Hemoabdomen (n=4) | |
| | | Neurological signs (n=4) | Seizures (n=3); Lipothymia (n=1) |
| | | Miscellaneous (n=4) | Acute abdomen (n=1); GDV (n=1); Heatstroke (n=1); Pesticide poisoning (n=1) |
| | | Hematologic disorders (n=3) | IMHA (n=3) |
| Tumors | 92 | First presentation (n=45) | Carcinoma (n=14); Lymphoma (n=11); MCT (n=6); Insulinoma (n=2); Osteosarcoma (n=2); CLL (n=1); Lipoma (n=1); Melanoma (n=1); TVT (n=1); Chemodectoma (n=1); Histiocytic sarcoma (n=1); Splenic sarcoma (n=1); Oral papilloma (n=1); Sertolioma (n=1); STS (n=1) |
| | | During treatments (n=47) | Lymphoma (n=23); Carcinoma (n=15); MCT (n=3); Insulinoma (n=2); Histiocytic sarcoma (n=1); Chemodectoma (n=1); STS (n=1); Osteosarcoma (n=1) |
| CKD | 15 | | |
| Urinary disorders | 10 | Cystitis and hematuria (n=6) | |
| | | | |
| Acute/sub-acute inflammation | 20 | Purulent inflammation (n=14) | Pyometra (n=4); Purulent inflammation on ulcerated tumors (n=4); Skin abscesses (n=3); Purulent otitis (n=2); Purulent rhinitis (n=1) |
| | | Leishmaniasis (n=3) | |
| | | Miscellaneous (n=3) | Odontolithiasis (n=1); Prostatitis (n=1); Systemic mycosis (n=1) |

GI = gastrointestinal; CNS = central nervous system; CLL = chronic lymphocytic leukemia; MGUS = monoclonal gammopathy of unknown significance; MCT = mast cell tumor; TVT = transmissible venereal tumor; STS = soft tissue sarcoma; CKD = chronic kidney disease; IMTP = immune-mediated thrombocytopenia; IMHA = immune-mediated hemolytic anemia.