# Cortisol concentration in well regulated two **dogs with Cushing’s syndrome treated with trilostane based on Isehara Animal Hospital in Japan**

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**Chittagong Veterinary and Animal Sciences University**

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**List of Abbreviations**

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| **Abbreviation Elaboration** |
| PDH Pituitary-Dependent Hyperadrenocorticism ACTH Adreno-Corticotropic HormoneHAC HyperadrenocorticismALP Alanine phosphataseALT Alanine aminotransferaseLDDS Low-Dose Dexamethasone suppression CNS Central Nervous SystemCRH Corticotropin Releasing HormoneAVP Arginine VasopressinPOMC Pre-opiomelanocortinCT Computed TomographyMRI Magnetic Resonance Imaging |

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**Abstract**

Approximately 80% to 85% of dogs with naturally occurring hyperadrenocorticism suffer pituitary-dependent hyperadrenocorticism (PDH) which is characterized by over production of ATCH. Early diagnosis and treatment of Cushing’s Syndrome is associated with a decrease in morbidity and mortality. Clinical presentation can be variable and establishing the diagnosis can often be difficult.I report a case of pituitary-dependent hyperadrenocorticism in a 9-years-old and a 10-years-old, female, two pet dogs. The animals were admitted due to polyphagia,, weight gain, polyuria, polydipsia, hair loss, exercise intolerance and panting at rest. On physical examination, abdominal distention, truncal and bilaterally symmetric alopecia, thin hypotonic skin, comedones, bruising,hyperpigmentation and calcinosis cutis on the dorsal midline were observed. Hematologic investigations showed stress leukogram, high serum alkaline phosphatase activity, mild to moderate alanine aminotransferase activity, hypercholesteromia, hypertriglyceridemia and hyperglycemia. Mild generalized intestinal lung patterns and hepatomegaly were detected in radiographs. Bilaterally symmetric normal-sized adrenal were also diagnosed in ultrasonography. Diagnosis of pituitary-dependent hyperadrenocorticism was confirmed with ACTH stimulation test. The two dogs were successfully treated with trilostane and recovered those dogs within 6 months.

**Keywords:** Cushing’sdisease, hyperadrenocorticism,canine, ACTH, polydipsia, polyphagia, polyuria, Trilostane.