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**Abstract**

Canine demodicosis is a common, non-contagious, inflammatory parasitic dermatitis characterized by excessive proliferation of the commensal mite *Demodex canis* within the hair follicles and sebaceous glands. This case study enumerates the clinical signs, lab findings as well as details diagnosis and treatment protocol. A 2 years old male dog was presented to Madras Veterinary College hospital, with the history of itching, alopecia, crust formation, haemorrhage and thickening of skin on face, neck, trunk and abdomen since last two months. The condition was laboratory diagnosed as demodicosis and treated with ivermectin along with supportive therapy. The condition of the dog was gradually improved and finally cured.

***Key words:*** Dog, Parasitic dermatitis, Demodicosis, Ivermectin.