**Table of contents**

Abstract………………………………………………………………………………………....iii

Chapter 1: Introduction……………………………………………………………………..…...1

Chapter 2: Case Presentation………………………………………………………………..…..4

2.1 Case History…………………………………………………………………………..…..4

2.2 Clinical Sign……………………………………………………………………………....4

2.3 Sample Collection………………………………………………………………………...7

2.4 Laboratory Diagnosis…………………………………………………………………..…7

2.4.1 Microscopic Work……………………………………………………………...….7

2.4.2 Blood……………………………………………………………………………....7

2.5 Treatment………………………………………………………………………………....8

2.6 Consideration before treatment…………………………………………………………...8

Chapter 3: Results……………………………………………………………………………...11

3.1 microscopic Examination………………………………………………………………..11

3.2 Blood Parameter…………………………………………………………………….…...11

3.3 Condition of Dog………………………………………………………………….……..11

Chapter 4: Discussion………………………………………………………………………....14

Conclusion…………………………………………………………………………………..…19

References……………………………………………………………………………………...20

Acknowledgements……………………………………………………………………...……..22

Biography…………………………………………………………………………………...….23

**List of Figures:**

Fig 1: Crusty lesion around eye and mouth……………………………………………………...5

Fig 2: Oozing of fluid from the lesion…………………………………………………………...5

Fig 3: Lesion on dorsal surface of the body……………………………………………………..6

Fig 4: Alopecia and redness of the skin and leg…………………………………………………6

Fig 5: Sample collection (Skin scrapping)……………………………………………………….9

Fig 6: Blood collection…………………………………………………………………………..9

Fig 7: Preparation of slide with liquid paraffin………………………………………………….10

Fig 8: Microscopic examination of skin scrapping.……………………………………………..10

Fig 9: Cigar shape *Demodex canis* detected under microscope(10X magnification)……………12

**List of Table:**

Table 1: Blood parameter of dog………………………………………………………………..13

**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.