

Name:	Canine Species (Tommy)	Ref. by:	Aleef Club
Date:	July 27th 2020	Gender:	Male

Complete Blood Picture

Parameter	Result	Reference range
R.B.Cs.	6.45	5.5 – 8.5 million/c.mm
Haemoglobin	16.7	12-18 gm
Platelets	228 000	200.000 – 500.000 /c.mm
Haematocrit	44	39 % - 55 %
W.B.Cs. (TLC)	5 300	6000 – 15000 /c.mm

Differential Leucocytes Count

Basophils	0	0 – 1 %
Esinophils	4	2 - 10 %
Staff.	2	
Segmented	15	40 -80 %
Lymphocytes	50	10 – 36 %
Monocytes	29	0 – 13%

Blood Indices

MCV	68.2	60 – 77 fl
MCH	25.8	19.1 – 26.2 pg
MCHC	35.9	32 – 36 g %
RDWc	12.8	11-14 %

Conclusion: Leukopenia with Relative Neutropenia, Lymphocytosis & Monocytosis.

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Ref. by: Aleef Club

Date: July 27th 2020

Gender: Male

Blood Chemistry Profile

Parameter	Result	Reference range
<i>GPT (ALT)</i>	131 (H)	10-109 U/L
<i>Creatinine</i>	1.07	0.5-1.7 mg/dL

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Interpretation

1-Leukopenia with relative neutropenia, lymphocytosis & monocytosis.

-Neutropenia which may be caused by:

Sequestered neutropenia (Pseudo-neutropenia) in case of :

- 1-Anaphylactic shock
- 2-Endotoxins

Neutropenia caused by decreased production (B.M hypoplasia) in case of :

- 1-Bacterial infection
- 2-Viral infection
- 3-Drugs (Sulphonamides, chloramphenicol, estrogen or chemotherapy)

Neutropenia caused by severe tissue demand for phagocytosis in case of :

-Peracute pyogenic infection

-Lymphocytosis which may be caused by:

- 1-Epinephrine release during fear and excitement in healthy animals which is called (Physiological lymphocytosis)
- 2-Antigenic stimulation in case of immune response to Ag (Infection or vaccination)
- 3-Decreased neutrophil which is associated with increased lymphocyte % (Relative Lymphocytosis)
- 4-Neoplasm of lymphoid tissue (Lymphoid neoplasia)

-Monocytosis which may be caused by:

- 1-Acute or chronic inflammation.
- 2-Corticosteroid administration.
- 3-In certain diseases in which cellular immunity is activated as (Systemic mycotic infection, Auto-immune hemolytic anaemia or Erythro-parasites)

2-Increased Liver Enzyme GPT (ALT) is seen in:

- a)Acute hepatic disorders such as (Inflammation, Intoxication or Neoplasms).
- b)Metabolic disorders associated with fatty liver.
- c)Myopathies such as (Muscle trauma, Tying-up, Azoturia or muscular dystrophy).
- d)Cardiac diseases such as myocardial infarction.

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