

Hematology Immunology

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Case #3

Chief Complaint

"Fly " is a 7 year old spayed female Old English Sheepdog with a history of anorexia, lethargy, weakness and bloody urine.







- Very weak
- Collapsed on the floor this morning
- Not eating well the past few days
- Vaccinated for DA2PVP and Rabies 30 days ago.

Physical Examination

- 8 % dehydration
- Temperature 40 degrees C
- Tachycardia HR 180 BPM
- Mucosal and cutaneous petechiael hemorrhage
- Pale mucous membranes
- Hematuria

Petechial Hemorrhages (small red hemorrhages on the gums)



Problem List

- Weakeness /Lethargy
- Anorexia
- Hematuria
- Dehydration
- Pale mucous membranes
- Petechial hemorrhages
- Febrile

- List all the Possible Diagnoses
- This list is your Rule Out list

- Immune Mediated Thromobocytopenia
- Hemorrhage Rodentocide toxicity
- Infectious disease:ehrlichiosis,leptospirosis
- Neoplasms Hemangiosarcoma
- Immune Mediated Hemolytic Anemia

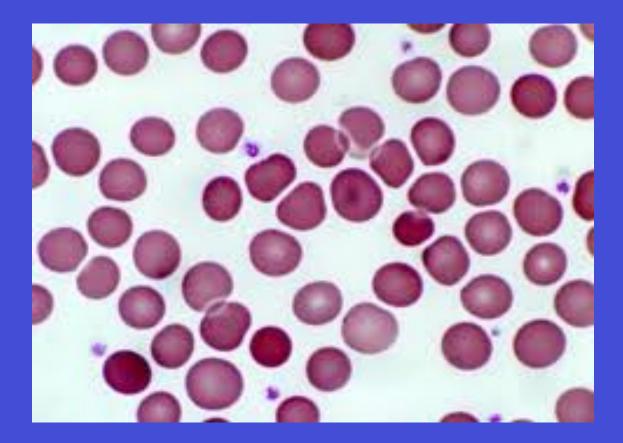
The Plan

• What is your PLAN ?

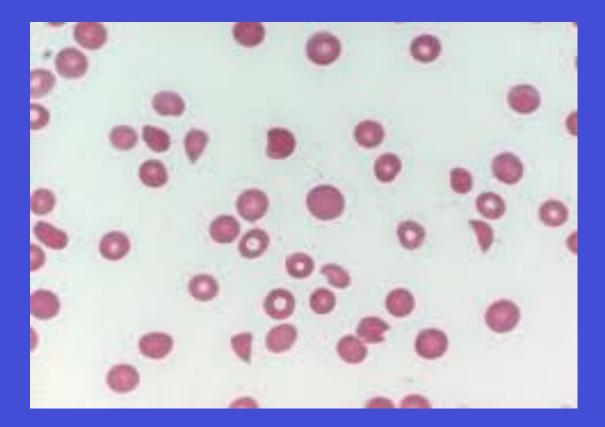


- CBC
- Serum Blood Chemistry
- Urinalysis

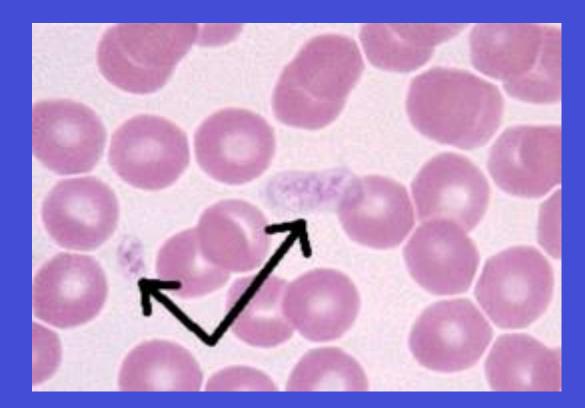
Blood Smear – Normal



Blood Smear from Fly What do you see?



Platelets – high power



CBC/Chemistry/Urinalysis

- PCV 25 (37-55)
- RBC 3.5 x 10 3 (5.5 8.5)
- WBC-22 x10 3 (6-17)
- Platelets 1 platelets per 100 x field (>7 hpf)
- Platelets 30,000 /u/L (200,000)
- Reticulocytes increased
- U/A hematuria, no WBC or bacteria

Assessment of the Lab Findings

• Assessment of the Lab Findings?

Assessment of the Lab Findings

- Low PCV and RBC anemia
- Low Platelets
- Inflammatory response increase WBC
- Increased Reticulocytes blood regeneration
- Hematuria without WBC Bleeding without inflammation or infection.

 After reviewing the clinical signs and Laboratory Findings what is the most likely diagnosis

• Give reasons for you answers

- Immune Mediated Thrombocytopenia
- Anemia: low RBC and Low PCV
- Low Platelets
- Bleeding Blood loss
- Blood in urine without an inflammation or infection

Treatment

- Aggressive IV Fluid Therapy LRS
- Blood Transfusion if PCV below 20
- Corticosteroids Prednisone
- Other Immunosuppressive drugs Cyclophosphamide , Azathioprine ??
- Romiphostim increases platelet production
- Vincristine

Prognosis?

• What is the prognosis in IMT?



- Fair
- 50% of dogs only experience one episode
- Mortality rate in approx. 30%



The End







