

## Clinical pathology diagnostic challenge : case #34

**Signalment:** 8 year old neutered female Rottweiler.

**History:** weakness of week`s duration.

**Physical exam observations:** pale mucous membranes, subdermal ecchymoses, dyspnea, melena.

### CBC results

Hematocrit (0.37-0.55 L/L)	0.14
Hemoglobin (120-180 g/L)	46.7
Erythrocytes ( $5.5-8.5 \times 10^{12}$ /L)	1.89
MCV (60-77 fL)	74.5
MCHC (320-360 g/L)	332
Reticulocytes (<1 %)	3.4
Reticulocytes (<60 000 $\times 10^6$ /L)	64 260
Platelets (200-900 $\times 10^9$ /L)	adequate
Plasma protein (60-80 g/L)	43
Leukocytes (6.0-17.0 $\times 10^9$ /L)	19.2
Neutrophils (mature) (3.0-11.5 $\times 10^9$ /L)	14.4
Neutrophils (band) (0-0.3 $\times 10^9$ /L)	0.38
Lymphocytes (1.0-4.8 $\times 10^9$ /L)	2.3
Monocytes (<1.4 $\times 10^9$ /L)	1.92
Eosinophils (0.1-1.3 $\times 10^9$ /L)	0.19
Basophils (0 - rare $\times 10^9$ /L)	0

### Other tests

#### Clinical chemistry results

No clinical chemistry was requested in this case.

#### Coagulation times

	Control*	Patient
OSPT (sec.)	5.8	>100
APTT (sec.)	14.4	>100

\* Sample taken from a healthy dog.

Using the laboratory changes, submit a differential diagnosis and justify it (pathophysiology). If needed list other possible tests to confirm your diagnosis.