

Clinical pathology diagnostic challenge : case #11

Signalment: mixed breed, 8 year old female horse.

History: colics since yesterday evening.

Physical exam observations: T 39 C, P 60 b/min, R 90 /min, cyanosis.

CBC results

Hematocrit (0.32-0.52 L/L)	0.60
Hemoglobin (111-190 g/L)	195
Erythrocytes ($6.5-12.5 \times 10^{12} /L$)	13.5
MCV (34-58 fL)	50
MCHC (310-370 g/L)	330
Platelets ($100-600 \times 10^9/L$)	100
Plasma protein (55-70 g/L)	80
Fibrinogen ($< 4 \text{ g/L}$)	4
Leukocytes ($5.5-12.5 \times 10^9/L$)	0.8
Neutrophils (mature) ($2.7-6.7 \times 10^9/L$)	0
Neutrophils (band) ($0-0.1 \times 10^9/L$)	0.8
Lymphocytes ($1.5-7.5 \times 10^9/L$)	0
Monocytes ($<0.8 \times 10^9/L$)	0
Eosinophils ($<0.9 \times 10^9/L$)	0
Basophils ($0 - \text{rare} \times 10^9/L$)	0

Clinical chemistry results

There was no clinical chemistry test requested for this case.

Cytology (Abdominal tap)

Appearance	turbid, green
Proteins	25 g/L
Leukocytes	$0.55 \times 10^9/L$

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