

HYPOPHOSPHATAEMIA AND ANAEMIA IN AN ALPACA

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History and clinical examination

An alpaca of unreported age and sex showed weight loss and depression for 2 weeks and eventually became quite thin. It spent most of its time recumbent although did rise to eat. The owner drenched it with Ivomec, and it was given a Vitamin B¹² injection. An in-house (clinic) FEC later revealed 700 epg, although the alpaca had been drenched 5 days previously.

On clinical examination no abnormalities were detected.

Blood was taken for routine haematological and biochemical examination.

Result	Reference Range	Units
Haemogram		
RBC	3.62	x 10 ¹² /l
Haemoglobin	40	g/l
HCT/PCV	0.11	l/l
MCV	30	fl
MCH	11	pg
MCHC	364	g/l
NRBC	6	/100WBC
WBC	32.5	x 10 ⁹ /l
Neutrophils	26.61	x 10 ⁹ /l
Lymphocytes	2.27	x 10 ⁹ /l
Monocytes	0.0	x 10 ⁹ /l
Eosinophils	2.92	x 10 ⁹ /l
Basophils	0.65	x 10 ⁹ /l
Absolute Reticulocytes	18.10	x 10 ⁹ /l
Reticulocyte %	0.5	%
Fibrinogen	4	g/l
Biochem		
Creatinine	117	85-180 umol/l
Urea	8.9	5.5-15.1 mmol/l
Phosphate	0.16	1.0-3.3 mmol/l
Total Protein	59	54-75 g/l
Albumin	29	19-46 g/l
Globulin	30	g/l
A/G Ratio	0.97	Ratio
Calcium	1.92	2.0-2.6 mmol/l
Magnesium	0.93	0.65-1.20 mmol/l
Bilirubin	3.0	umol/l
GGT	25	7-30 U/l
GDH	38	1-30 U/l
B-OHB	0.1	mmol/l
AST	186	92-216 U/l
CPK	81	0-200 U/l

Blood smear comments

Moderate anisocytosis present. Mild polychromasia present. Moderate numbers of dacrocytes present. Small numbers of microcytes present. Leucocytes appear normal morphologically.

*(interpretation and discussion of this case will be placed on the ASVP website
www.asvp.asn.au members login pages within a few weeks)*