

Table S1. Formulae used.

Variable	Formulae
SID ₄ [20]	$SID_4 = (Na^+ + K^+) - (Cl^- + lactate)$
AG [21]	$AG = (Na^+ + K^+) - (Cl^- + HCO_3^-)$
SIG [21]	$SIG = \left(\frac{[A_{tot}]}{[1 + 10^{6.65-pH}]} \right) - AG$
A _{tot} [20]	$A_{tot} = 2.24 \times PPT \text{ (g/dL)}$

20. Constable, P.D. A simplified strong ion model for acid-base equilibria: application to horse plasma. *J. Appl. Physiol.* **1997**, 83, 297–311.

21. Constable, P.D.; Hinchcliff, K.W.; Muir, W.W. Comparison of anion gap and strong ion gap as predictors of unmeasured strong ion concentration in plasma and serum from horses. *Am. J. Vet. Res.* **1998**, 59, 881–887.