

**Supplementary Figure S1— Diagnostic discordance between total calcium and ionized calcium**

concentrations in 161 chelonians. Each chelonian was categorized as having normal, low, or high values with respect to these values based on wider cutoffs than the preliminary analysis: 1.0 to 1.8 mmol/L and 7.4 to 17.2 mg/dL, respectively. Cases where simultaneous measurement of total and ionized calcium did not provide a similar diagnosis of calcium status based on the predefined cutoffs were classified as having diagnostic discordance. Green shading indicates chelonians that had diagnostic concordance, yellow shading indicates chelonians that had partial diagnostic discordance (eg, one analyte resulted in a diagnosis of normocalcemia and the other resulted in a diagnosis hypocalcemia or hypercalcemia), and red shading indicates complete diagnostic discordance (eg, one analyte resulted in a diagnosis of hypocalcemia or hypercalcemia and the other resulted in the opposite classification).

		<b>Ionized calcium</b>			<b>Total</b>
		Hypocalcemia	Normocalcemia	Hypercalcemia	
<b>Total calcium</b>	Hypocalcemia	7 (9.9%)	0 (0.0%)	0 (0.0%)	7 (4.3%)
	Normocalcemia	5 (3.1%)	88 (54.7%)	20 (12.4%)	113 (70.2%)
	Hypercalcemia	0 (0.0%)	34 (21.1%)	7 (4.3%)	41 (25.5%)
<b>Total</b>		12 (7.5%)	122 (75.8%)	27 (16.8%)	161 (100%)