

Supplementary material

Table S1: Hematological reference intervals for free-ranging adult pregnant female Spiny Butterfly Rays.

Analyte	n	Mean	SD	Median	Min	Max	RI	LRL	URL
PCV (%)	30	29.6	3.1	29	25	36.5	24.0-36.2	22.7-25.3	34.3-38.2
TS (g/dL)	28	8.1	0.9	7.9	6.2	9.8	6.3-9.9	5.8-6.8	9.4-10.4
RBC ($10^3/\mu L$)	27	369.1	100.1	380	110	550	134.4-578.8	84.6-184.2	529.0-628.6
WBC ($10^3/\mu L$)	27	33.7	14.1	30.5	14.5	79	13.8-55.9	11-17	49.3-63.1
L (%)	30	54.7	11.3	56	39	76	30.7-78.3	25.1-36.7	73.1-84.1
M (%)	30	2.1	1.5	2	0	6	0-6	0-0	6-8
H (%)	30	23.7	12.7	23.5	6	51	5.5-56.7	3.5-8.3	44.9-70.5
N (%)	30	1.6	1.9	1	0	8	0-8	0-0	8-12
E (%)	30	17.5	6.9	17	6	36	3.9-31.0	0.3-7.5	27.5-34.6
B (%)	30	0.3	0.5	0	0	2	0-2	0-0	2-3

n, number of individuals; SD, standard deviation; Min, minimum; Max, maximum; RI, reference intervals;

LRL, 90% confidence interval of the lower reference limit; URL, 90% confidence interval of the upper reference limit; PCV, packed cell volume; TS, total solids in plasma; RBC, red blood cell count; WBC, white blood cell count; L, lymphocyte; M, monocyte; H, heterophil; N, neutrophil; E, eosinophil; B, basophil.

Table S2: Descriptive statistic of hematological parameters intervals for free-ranging adult non-pregnant female Spiny Butterfly Rays (n=4).

Analyte	Mean	SD	Median	Min	Max
PCV (%)	31	1.2	31	30	32
TS (g/dL)	8.5	0.8	8.7	7.4	9
RBC ($10^3/\mu L$)	446.3	205.6	467.5	210	640
WBC ($10^3/\mu L$)	32.4	14.3	30.8	18	50
L (%)	59.3	10.4	61	45	70
M (%)	0.8	1	0.5	0	2
H (%)	25	9.9	21.5	18	39
N (%)	0.8	1	0.5	0	2
E (%)	14.3	3.3	13	12	19
B (%)	0	0	0	0	0

SD, standard deviation; Min, minimum; Max, maximum; PCV, packed cell volume; TS, total solids in plasma; RBC, red blood cell count; WBC, white blood cell count; L, lymphocyte; M, monocyte; H, heterophil; N, neutrophil; E, eosinophil; B, basophil.

Table S3: Blood pH reference intervals for free-ranging adult pregnant female Spiny Butterfly Rays.

Analyte	n	Mean	SD	Median	Min	Max	RI	LRL	URL
pH	25	7.21	0.08	7.2	7.1	7.4	7.04-7.37	6.99-7.09	7.32-7.42
pH*	20	7.35	0.06	7.37	7.2	7.5	7.21-7.46	7.15-7.26	7.43-7.49

n, number of individuals; SD, standard deviation; Min, minimum; Max, maximum; RI, reference intervals;

LRL, 90% confidence interval of the lower reference limit; URL, 90% confidence interval of the upper reference limit. pH* is the pH with temperature correction applied.

Table S4: Descriptive statistics of pH values for free-ranging adult non-pregnant female Spiny Butterfly Rays (n=4).

Analyte	Mean	SD	Median	Min	Max
pH	7.21	0.1	7.19	7.1	7.3
pH*	7.34	0.05	7.32	7.3	7.4

SD, standard deviation; Min, minimum; Max, maximum. pH* is the pH con temperatura corregida.