

*Veterinary Pathology: Supplemental Materials*  
LaDouceur et al. Histologic Findings in Captive American Horseshoe Crabs.

Supplemental Table S1. Histologic lesions in 61 captive American horseshoe crabs (*Limulus polyphemus*)<sup>a</sup>

Case No.	Body wall			Gills		Hepatopancreas				Other organs	Organs NSF <sup>b</sup>		
	Erosion without inflammation	Ulcerative dermatitis	Parasitic cysts	Other	Branchitis	Other	Interstitial hepatopancreatitis	Tubulitis	Parasitic cysts			Eosinophilic globule depletion	Birefringent crystalline material
1			NSF		NE			NSF				NChG: bacterial enteritis	ChG, Go
2			NSF		NSF		+			+			B, ChG, Go, NChG
3			NSF		NSF		B	B					ChG, Go, H, NChG
4				Ab molt	NSF		B				+	H: bacterial myocarditis	ChG, NChG
5				Ab molt	NSF			B					B, ChG, Go, NChG
6				Ab molt	NSF		+	B				ChG: dysecdysis	B, Go, H, NChG
7	B				NSF		+	B	PC	+	+	ChG: bacterial enteritis	B, H
8		BF			F			NSF				ChG: bacterial and fungal ulcerative enteritis; H: bacterial myocarditis; NChG: parasitic cysts	Go
9		BF			+			PC			+	ChG, H, NChG: parasitic cysts	Go
10		BF	PC		NSF			PC				Eye: fungal ophthalmitis, parasitic cysts; NChG: parasitic cysts	Go
11		BF	PC		F			PC				ChG: parasitic cysts	CE, Go
12		BF	PC		BF			PC				H: parasitic cysts	ChG, Go, NChG
13		B			BF			PC				ChG, NChG: parasitic cysts; Eye: bacterial ulcerative ophthalmitis	Go
14		BF	PC		BF			PC				ChG, NChG: parasitic cysts	Go
15		BF	PC		BF			PC			+	ChG and H: parasitic cysts	CE, Go

*Veterinary Pathology: Supplemental Materials*  
 LaDouceur et al. Histologic Findings in Captive American Horseshoe Crabs.

16	BF	PC	BF	B	B	PC	ChG, NChG: parasitic cysts	Go		
17	BF	PC	NSF	+		PC	Eye: fungal and bacterial ophthalmitis, parasitic cysts; NChG: parasitic cysts	ChG, Go		
18	BF	PC	NSF			PC	+	Eye: fungal and bacterial ophthalmitis; NChG: parasitic cysts	Go, H	
19	BF	PC	BF			PC	parasitic cysts, cyanobacteria	ChG: parasitic cysts; Eye: fungal and bacterial ophthalmitis	Go	
20	BF	PC	BF			PC		ChG: parasitic cysts; Eye: bacterial ophthalmitis	Go, NChG	
21	BF	PC	NSF			PC		ChG, NChG: parasitic cysts; Eye: bacterial ophthalmitis	Go, H	
22	BF	PC	NSF			PC		B: parasitic cyst; Eye: bacterial ophthalmitis, parasitic cysts	ChG, Go	
23	BF	PC	BF			NSF		Eye: fungal and bacterial ophthalmitis	Go	
24	BF	PC	BF			PC	+	ChG: parasitic cysts; Eye: fungal and bacterial ophthalmitis	Go, H, NChG	
25	BF	PC	BF			PC		ChG, NChG: parasitic cysts; Eye: fungal and bacterial ophthalmitis	Go	
26	BF		NE			PC	+	+	ChG, NChG: parasitic cysts; Eye: fungal and bacterial ophthalmitis	Go
27	BF	PC	BF			PC	cyano-bacteria	ChG: parasitic cysts; Eye: fungal and bacterial ophthalmitis; H: fungal myocarditis	Go, NChG	
28	BF	PC	BF	B		PC		ChG, NChG: parasitic cysts; Eye: fungal and bacterial ophthalmitis	Go	
29		NSF				NSF	cyano-bacteria		ChG, Go, NChG	
30	green algae, B		NE			NSF	bacterial myositis	ChG: bacterial enteritis; Eye: bacterial ophthalmitis; H: fungal myocarditis	Go, NChG	
31	BF		B			NSF		ChG: erosive enteritis	Go, H, NChG	
32		NSF				NSF	edema		B, ChG, CxG, Go, H, NChG	

*Veterinary Pathology: Supplemental Materials*  
 LaDouceur et al. Histologic Findings in Captive American Horseshoe Crabs.

33	BF		BF	cyano- bacteria	NSF	Eye: fungal ophthalmitis	B, ChG, CE, CxG, Go, H
34	B			NSF	NSF		NChG
35	BF	rhabdo- myolysis		NE	NSF		Go, NChG
36	B			NSF	NSF		Go
37	B			NE	NSF		
38	B	PC	bacterial myositis, rhabdomyolysis	B	B	+	Go, NChG
39		NSF		B		NSF	
40	BF			NSF	B		NChG: bacterial enteritis with acid-fast bacilli
41		NSF		NE	NSF		ChG, Go, NChG
42	F	rhabdo- myolysis		BF	NSF		ChG, Go, H, NChG
43	BF			F	BF		ChG, Go
44	BF			B	+		Go
45	BF			+		+	Go
46	BF			+	NSF		Go, NChG
47		NSF		+	NSF		Go, NChG
48	B			NSF		+	Go
49			bacterial myositis	NE	NSF		NChG: enteritis
50	B			NE	B	+	CE, NChG
51		NE		+	PC		ChG, Go, NChG
52		NSF		BF		+	ChG, Go, H, NChG
53	B			NE	NSF		ChG, Go, NChG
54	B			NSF	+		Eye: bacterial ophthalmitis
55	B			NE	NE		Go
56			rhabdo- myolysis	B	B		Go, H, NChG
57	F			NE	NE		
58	BF			NE	NE		

*Veterinary Pathology: Supplemental Materials*  
 LaDouceur et al. Histologic Findings in Captive American Horseshoe Crabs.

59	BF		NE	NE		
60	NSF		BF	NSF		ChG, CxG, Go
61	PC	amoebic myositis	NSF	B	PC +	ChG: parasitic cysts B, ChG, NChG

<sup>a</sup>+: lesion without evident infection; PC: parasitic cysts; B: lesion with bacteria; F: lesion with fungi; BF: lesion with bacteria and fungi; NSF: no significant findings; NE: not examined; Ab molt: abnormal molting; Br: brain; ChG: chitinous gut; CE: compound eye; CxG: coxal gland; Go: gonads; H: heart; NChG: nonchitinous gut. <sup>b</sup>Other organs not listed were not identified in section.