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Neospora caninum Infection in Marine Mammals Stranding in Northeastern Pacific Ocean Region

Appendix

Appendix Table. Summary of signalment, gross pathology, histopathology, molecular results, and assigned cause of death for a study of *Neospora caninum* in marine mammals stranding in northeastern Pacific Ocean region*

Case	Year	Species	Location	Age	Cause of Death	Neuropathology	Myocellular sarcocyst	Multisystemic inflammation	Nc	Sn	Tg
1	2007	GFS	WA	Yearling	Inflammation/ Infection	NA	NA	NA, autolysis	Ht	Br, Ht	Br
2	2007	HS	WA	Pup	Inflammation/ Infection	Marked meningoencephalomyelitis	NA	NA, hepatocellular hemosiderosis, lymphoid depletion	Br	Br, Ht	Br, Ht
3	2008	SSL	WA	Adult, pregnant	Inflammation/ Infection	Mild encephalitis, no antigen detected by IHC	NA	<i>Coxiella placentitis</i> with possible colonic rupture and sepsis	Br	none	Br, Ht, Skm
4	2008	SO	AK	Subadult	Inflammation/ Infection	Not examined	NA	Vegetative valvular endocarditis with sepsis	Br	none	Br, Ht
5	2009	HS	WA	Subadult	Inflammation/ Infection	Marked meningoencephalitis with florid intralesional protozoa	NA	NA, gunshot to the head with orchitis, bronchopneumonia and splenic and lymph node lymphoid hyperplasia	HO	Br, Tng, Skm	HO
6	2009	SO	BC	Adult	Hypovolemic shock	NA	Moderate	Myocarditis with intralesional bacteria and splenic rupture	HO	HO	none
7	2017	NES	CA	Pup	Emaciation, Inflammation/ Infection	Not examined	NA	Skin fold dermatitis and secondary sepsis	HO	none	HO
8	2017	CSL	CA	Yearling	Inflammation/ Infection	Mild gliosis and nonsuppurative meningitis	NA	Hindlimb subcutaneous abscessation with broncho and pleuropneumonia	HO	none	none

*NA, tissues examined with no apparent lesions; Ht, heart; Br, brain; Skm, skeletal muscle; HO, tissue homogenates. GFS, Guadalupe fur seal; HS, harbor seal; SSL, Steller sea lion; SO, sea otter; NES, Northern elephant seal; and CSL, California sea lion. Molecular results: Nc, *Neospora caninum*; Sn, *Sarcocystis neurona*; Tg, *Toxoplasma gondii*; WA, Washington; AK, Alaska; BC, British Columbia; CA, California.