

Successful treatment of a Canada goose (*Branta canadensis*) with presumed capture myopathy

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- Introduction to capture myopathy
- Canada goose 038



Capture Myopathy

- Spraker, T.R. "Stress and capture myopathy in artiodactylids." In *Zoo and Wild Animal Medicine and Current Therapy Vol. 3*, ed. M.E. Fowler, 481-488.
- Williams, E.S. and E.T. Thorne. "Exertional myopathy (capture myopathy)." In *Noninfectious Diseases of Wildlife, 2nd Edition*, ed. A. Fairbrother et al, 181-193.



Capture Myopathy

- Potential causes



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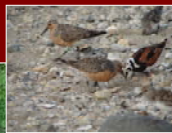
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Capture Myopathy



animal.discovery.com



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bio.davidson.edu



Capture Myopathy

- Clinical signs
- Clinical pathology
 - elevated CK, LDH, AST



LSKing



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Capture Myopathy

- Post-mortem pathology



Capture Myopathy

- Reported treatments



Oil Spill



- June 2008
- Muddy River - Brookline, MA (near Boston)
- Non-PCB dielectric oil



Oiled Wildlife Response



Canada Goose 038 - History

- Day 1 – captured, examined
- Day 2 – cleaned
- Day 3 – not standing, examined, started treatment



CAGO 038 - History



- Day 4 – not standing; continue treatment
- Day 5 – standing before treatment; decrease treatment
- Day 6 – standing, self-feeding; decrease treatment
- Day 7 – discontinue treatment
- Day 8-11 – normal conditioning
- Day 12 - release



CAGO 038 - Diagnosis

- History
- Clinical signs
- Physical exam
- Blood lead analysis
- Response to therapy



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CAGO 038 – Treatment



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Fluid Therapy



CAGO 038 – Treatment



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Vitamin E, Methocarbamol



CAGO 038 – Treatment



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Physical Therapy



CAGO 038 – Treatment Nutritional Support, Stress Reduction



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Why this bird?

Item	body weight (g)	body temperature (°C)	packed cell volume (%)	total solids (g/dL)
CAGO 038	2020	41.9	28	4.8
mean (range)	2000-2100	41.9-42.1	27-30	4.5-5.0
n	10	10	10	10

Item	body weight (g)	packed cell volume (%)	total solids (g/dL)
CAGO 038	2020	28	4.8
mean (range)	2000-2100	27-30	4.5-5.0
n	10	10	10



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Conclusion



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Questions?



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