

## 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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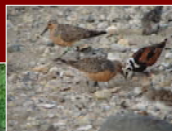
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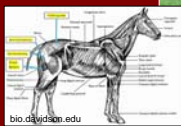
## Capture Myopathy



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




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## Capture Myopathy


- Reported treatments



animals.howstuffworks.com

portlandbirdobs.org.uk



## Oil Spill



photo: FLOCK

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



## Oiled Wildlife Response



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NSTAR



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## Canada Goose 038 - History


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



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## CAGO 038 - History




NSTAR


- 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







### 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 (1980-2040)	41.9 (41.7-42.1)	28 (27.5-28.5)	4.7 (4.4-5.0)
n	12	12	12	12

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## Conclusion



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## Questions?



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