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### **Education**

#### **University of Guelph**

Bachelor of Science Honours (Biological Sciences) 2002

#### **Ontario Veterinary College, University of Guelph**

Doctor of Veterinary Medicine 2009

### **Professional Training**

**Atlantic Veterinary College: *Rotating Medicine and Surgery Internship*** June 2009-June 2010  
**(University of Prince Edward Island)**

**Canada West Veterinary Specialists: *Neurology Internship*** July 2010- June 2011  
**(Vancouver, British Columbia)**

**Iowa State University: *Neurology Residency*** July 2011-July 2014  
**(Ames, Iowa)**

### **Board Certification**

American College of Veterinary Internal Medicine (Neurology) 2017

### **Professional Experience**

**Toronto Veterinary Emergency Hospital: *Neurologist*** October 2015- present  
**(Toronto, Ontario)**

**Ani.ml Health *Online Consultant*** September 2024-present

**Smart.Vet *Online Consultant*** June 2021-December 2023

**Ontario Veterinary College: *Assistant Professor*** August 2014- October 2015  
**(University of Guelph)**

### **Publications**

**Barker, AK.** Stahl, C. Ensley, SM. Jeffery, ND. Tremorgenic Mycotoxicosis in Dogs. *Compend Contin Educ Vet.* 2013; 35:E1-E6

E.Y. Van Wie, G.T. Fosgate, J.M. Mankin, N.D. Jeffery, S.C. Kerwin, G.J. Levine, H.H. Greatting, A.V. Chen, **A.K. Barker**, J.M. Levine. *Brief Communication* Prospectively Recorded versus Medical Record-Derived Spinal Cord Injury Scores in Dogs with Intervertebral Disk Herniation. *J Vet Intern Med* 2013; 27:1273–1277

Jeffery, ND. **Barker, A.** Harcourt-Brown, T. What progress has been made in understanding and treatment of degenerative lumbosacral stenosis in dogs during the past 30 years? *Vet Journal* 2014; 201: 9–14

Charalambous, M. Jeffery, ND. Smith, PM. Goncalves, R. **Barker, A.** Hayes, G. Ives, E. Vanhaesebrouck, A. Surgical treatment of dorsal hemivertebrae associated with kyphosis by spinal segmental stabilisation, with or without decompression. *Vet Journal* 2014; 202: 267–273

**Barker, AK.** Williams, JM. Chen, A. Bagley, R. Jeffery, ND. Suspected primary hematomyelia in 3 dogs. *Can Vet J* 2015; 56: 278–284

H. Hu, **A. Barker**, T. Harcourt-Brown, N. Jeffery. Systematic review of brain tumor treatment in dogs. *JVIM* 2015; 29:1456-1463

Jeffery, ND. **Barker, A.** Alcott, C. Hu, HZ. Kraus, K. Scanlin, E. Granger, N. Levine, JM. Factors associated with recovery from paraplegia in dogs with loss of pain perception in the pelvic limbs following intervertebral disk herniation. *JAVMA* 2016; 248:386-394

Hu, HZ. Jeffery, ND. Donnelly, J. Severs, M. Lindquist, T. Gilmour, L. Flaherty, HA. **Barker, AK.** What Is Your Neurologic Diagnosis? A case of feline spinal cord toxoplasmosis. *J Am Vet Med Assoc* 2016; 249:1007-1010

The Association of Specific Constituents of the Fecal Microbiota with Immune-Mediated Brain Disease in Dogs.

Jeffery ND, **Barker AK**, Alcott CJ, Levine JM, Meren I, Wengert J, Jergens AE, Suchodolski JS.

*PLoS One.* 2017 Jan 26;12(1)

Shunt tube placement for amelioration of cerebrospinal fluid flow obstruction caused by spinal cord subarachnoid fibrosis in dogs.

Meren IL, Chavera JA, Alcott CJ, **Barker AK**, Jeffery ND.

*Vet Surg.* 2017 Feb;46(2):289-296.

Jeffery, ND. Harcourt-Brown, TR. **Barker, AK.**, Levine, JM.. Choices and Decisions in Decompressive Surgery for Thoracolumbar Intervertebral Disk Herniation. *Vet Clin North Am Small Anim Pract.* 2018; 48:169-186

### **Conference Presentations**

*Central vs Peripheral Vestibular Disease - Telling the Difference and Why Does it Matter?*

Ontario Veterinary Medical Association Conference 2025

*Treatment of TL IVDD – How Much do we Really Know? (The Answer May Surprise You)*  
Ontario Veterinary Medical Association Conference 2024

*If the Client Cannot Afford A MRI How Do We Diagnose Epilepsy?*  
Ontario Veterinary Medical Association Conference 2024

### **Journal Reviewer**

Journal of the American Animal Hospital Association

Journal of the American Veterinary Medical Association

Journal of Veterinary Internal Medicine

### **Professional Volunteer Work**

American College of Veterinary Internal Medicine  
Neurology Exam Rating Committee 2018-2020  
*Evaluating examination questions for the ACVIM Neurology Specialty Examination*

American College of Veterinary Internal Medicine  
Neurology Exam Review Committee 2021-2022  
*Reviewing/ grading portions of the ACVIM Neurology Specialty Examination*

American College of Veterinary Internal Medicine  
Neurology Job Task Analysis Task Force 2022-2023  
*In collaboration with other specialists deciding what tasks/ skills are essential for veterinary neurologists to know and to what extent*

### **Professional Associations**

American College of Veterinary Internal Medicine – Diplomate

### **Personal Interests**

Reading, world history, politics, hockey, world travel