



# WINN FELINE FOUNDATION

For the Health and Well-being of All Cats

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## TRANSDERMAL PENETRATION OF GABAPENTIN IN CATS

**PROJECT STUDY:** Assessment of transdermal penetration of gabapentin in cats.

Principal Investigators: Jennifer Slovak; Nicolas Villarino; New York City Animal Medical Center

*Final report summary, W19-039*

The investigators have completed their study enrolling a total of 23 cats in the pilot transdermal gabapentin study. Initially, eight of the client-owned cats were administered transdermal gabapentin in a Lipoderm® base at a dose of either 5mg/kg TID for 5 days or 10mg/kg TID for 5 days.

After the initial data was analyzed, an additional 15 cats were enrolled and were administered transdermal gabapentin on the ear at 10mg/kg TID. Blood collection occurred prior to gabapentin administration, 24 hours and 5 days post initiating gabapentin. All serum samples collected were trough samples, frozen at -80 and sent to the University of Tennessee's Pharmacology Lab for analysis utilizing HPLC-mass spectroscopy.

The project is completed and the data prepared for a manuscript for publication.

### **Publications:**

Abstract submission for the 2020 ACVIM Forum in June. Manuscript in current preparation.

### **Presentations:**

An oral abstract is planned for the 2020 ACVIM Forum in June.

*Summary prepared for Winn Feline Foundation © 2020*

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