

Investigation of Vaccine Reactions in Dogs

Sample Submission

Veterinarians at Purdue University's School of Veterinary Medicine, in conjunction with the American Kennel Club Canine Health Foundation, are leading a study in 2007-2008 to investigate the causes of allergic-type vaccine reactions in dogs. In this study, we will measure antigen-specific IgE concentrations against 10 heterologous vaccine components, and compare the serum concentrations in affected versus non-affected dogs of the same breed and of different breeds.

Study candidates: Dogs showing allergic reactions (type I hypersensitivity) immediately after vaccination. Clinical signs usually include facial or periorbital edema, wheals or urticaria, generalized pruritus, and/or vomiting within 2-3 hours after vaccination.

Breeds: Eight breeds have been selected for this study (**Dachshund, Pug, Chihuahua, Miniature Pinscher, Boston Terrier, Boxer, Australian Terrier, and Kerry Blue Terrier**). Serum samples from affected (dogs having allergic reactions) and non-affected dogs (no allergic reaction after vaccination) from each breed are desired. For comparisons, it is very important that we receive a sample from non-affected dogs in these breeds as well as affected dogs. Our study goal is samples from 25 affected and 25 non-affected dogs of each breed.

To enhance the analytic capability of the study, it is highly desirable [but not required] that the non-affected dog of the same breed received the same vaccine(s) as the affected dog, and be of similar age as (if possible be a littermate of) the affected dog.

Sample collection:

Two (2) ml of serum are needed per dog for the analyses, necessitating withdrawal of approximately 4-5 ml of blood. Samples may be taken from affected dogs as soon as clinical signs of an allergic reaction develop, or within 3 weeks thereafter. Samples may be taken from non-affected dogs as soon as the day following vaccination, or within 3 weeks thereafter. Please send serum, and not whole blood.

Forms:

Sample submission:

Veterinarians can email the investigators (k9vaxrxn@purdue.edu) their mailing address, and postage-paid mailers will be sent to the veterinarian for return of the serum sample to our laboratory. Alternatively, you can send the serum sample(s) and forms direct to:

Immunopathology Laboratory
Attn: Vaccine Study (VPTH 203)
Dept. of Comparative Pathobiology
725 Harrison Street
West Lafayette, IN 47907-2027

There is NO cost to the owner or veterinarian for our test.

Sample information: The Specimen Submission Form must be completed and submitted for each patient's sample.

Client Consent: Owners should sign the study Client Consent Form, and the signed form should be submitted to Purdue University with the serum sample.

Investigation of Vaccine Reactions in Dogs

Test results can be returned to the veterinarian if desired.

If you have any questions about this study, please contact Dr. Moore at 765-496-3393 or gemoore@purdue.edu .

Sincerely,

George Moore, DVM, PhD, and Harm HogenEsch, DVM, PhD
Project Investigators, Purdue University