HISTIOCYTIC ULCERATIVE COLITIS IN BOXER DOGS
SIMPSON LAB, CORNELL UNIVERSITY, ITHACA, NY 14853

Dr. Kenny Simpson and colleagues at Cornell University are currently undertaking research into histiocytic ulcerative colitis (HUC - also known as granulomatous colitis). HUC is a chronic, severe gastrointestinal disease of unknown etiology, typically seen in young Boxer dogs. Affected dogs usually present with signs of large bowel disease, initially frequent bloody mucoid stools, often progressing to chronic debilitation, weight loss, anemia, and hypoalbuminemia. Clinical signs are often unresponsive to immunosuppressive therapy, and recent work strongly suggests a defect in host defense which is linked to bacterial invasion and inflammation.  

![Emaciated young Boxer dog affected with HUC](image1)

![Endoscopic appearance of inflamed and ulcerated colonic mucosa](image2)

![Characteristic histiocytic inflammation with PAS+ macrophages](image3)

We are collecting samples from affected Boxer dogs, in order to try and identify genes that may be associated with HUC. If you are treating any affected dogs and may be able to assist us by collecting samples, we would really appreciate your help! Patients that would be suitable for inclusion are Boxer dogs of any age or sex in whom a definitive diagnosis of HUC has been made, i.e. a diagnostic histopathology report describing histiocytic ulcerative colitis with PAS+ macrophages. The samples that we need are:

1. **DNA:** 5mls of EDTA blood.
2. **Serum:** (red top tube, 2 mls, ideally separated serum) to look for aberrant immune responses to bacteria.
3. Pedigree information and DNA/serum samples from affected parents and siblings would also be very helpful where available (not essential).
4. If you are performing endoscopy in a potentially affected Boxer dog, and in a position to also send endoscopic colonic biopsies that would be really helpful (please contact us for collection conditions).

Sample submission forms and contact details may be obtained at the following link, or by contacting:
Dr. Kenneth W. Simpson, email: kws5@cornell.edu tel: 607-253-3567.

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Checklist for patient suitability:
1. Boxer dog of any age or sex.
2. Confirmed diagnosis of HUC with available histopathology report.
3. Pedigree/sibling information is extremely helpful, although not essential.

Sample submitted:  EDTA □ DNA kit□ Serum □ Endoscopic biopsies □
Histopathology report enclosed? □ (we are unable to include samples without this)

Case ID: ____________________________  Sex: F □  M □  Neutered□
Age: ____________________________  Submitting veterinarian: ____________________________
Tel: ____________________________  Email: ____________________________
Address: ____________________________
____________________________________
____________________________________

Clinical signs: ____________________________
____________________________________
____________________________________

Response to treatment: ____________________________
____________________________________
____________________________________

American Kennel Club registered title (if available): ____________________________
____________________________________

Other known diseases: ____________________________
____________________________________
____________________________________

Additional information (e.g. affected relatives - continue overleaf): ____________________________
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Mailing address for samples: HUC STUDY, Simpson Laboratory, C2-006 VMC, Tower Road, Cornell University, Ithaca, New York 14853. For further information, please contact:
Dr. Kenneth W. Simpson, email: kws5@cornell.edu  tel: 607-253-3567.