

Non-invasive Assessment of Respiratory Function in Unrestrained Conscious Brachycephalic Dogs Pre and Post Upper Airway Surgery

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Background: We are conducting a prospective study to objectively evaluate the respiratory function of brachycephalic dogs pre and post airway surgery. The aim of this study is to demonstrate the effectiveness of upper airway surgery in brachycephalic obstructive airway syndrome (BOAS) based on objective data using whole body barometric plethysmography (WBBP).

Participation Requirements: brachycephalic dogs (dogs with short muzzles) that have evidence of respiratory signs (referral letter required)

Procedures involved in study:

- Consultation and admission
- Non-invasive respiratory function test (WBBP)
- Computer tomography (CT) scan for the head and neck
- Rhinoscopy
- Upper airway corrective surgery
- ICU monitoring overnight
- Discharge
- Follow-up appointment (4-6 weeks post-surgery), non-invasive respiratory function test
- Turbinectomy and/or further corrective surgeries (if needed)

Benefits:

- The study will pay for the non-invasive respiratory function test and a discount for CT scan.
- This study will improve our understanding of your dog's respiratory signs and provide the most appropriate surgical intervention.
- Results from this study may influence treatment of other dogs with similar conditions.

Related project: Screening test for BOAS in pugs, French bulldogs, and bulldogs ([more information](#)). For further details on our BOAS study, please contact: Jane Ladlow or Nai-Chieh Liu DVM MPhil (PhD candidate in Veterinary Medicine), email: ncl25@cam.ac.uk