

# CAN WE USE A MOBILE APP TO MEASURE ORAL TUMOURS IN DOGS?

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## Clinical Trial Purpose

Approximately 1 in 3 dogs will develop cancer in their lifetime and oral tumours are a common cancer type that represents anywhere from 3 to 12% of all canine cancers. An important aspect of tumour staging, and prognosis is often related to tumour size. Traditionally, clinicians have relied on hand-held caliper measurements alone before computed tomography (CT) scans to accurately obtain a baseline for their patient's tumour and later assess response to therapy. Incorporation of technology in the assessment of pets with cancer is important for treatment evaluation and improving follow-up, which can include the ability to monitor disease at home without the need to travel for recheck appointments.



**The objective of this study is to test the feasibility of using the built-in LiDAR camera on the iPhone 13 to accurately measure tumour size and volume in dogs with oral tumours.**

## Is Your Pet Eligible?

Dogs with an oral tumour  $\geq 1$ cm undergoing a CT scan for standard of care treatment at the OVC Health Sciences Centre or the Lakeshore Animal Health Partners Emergency and Specialty Hospital.

## Financial Incentives

There will be a \$250 credit applied to your hospital invoice at the conclusion of the staging appointment for costs related to the Head CT. This study is generously supported by **OVC Pet Trust**.

1

When your dog arrives at the hospital for their Oncology staging appointment, a standard of care CT scan will be performed under general anesthesia.

2

Using digital calipers (a type of ruler), two separate clinicians will perform measurements of your dog's oral tumour. Following these tumour measurements, the iPhone and specialized mobile app will be used to obtain 3D scans.

3

Any additional staging and/or diagnostic tests, as recommended by your clinician, will be completed and your dog will recovery from anesthesia under careful monitoring.

4

Using statistical analysis, the data will be evaluated by the research team. You may be contacted up to 3 years following enrollment for updates on your dog's health.



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**Questions about this study?**

**Please contact:**

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