



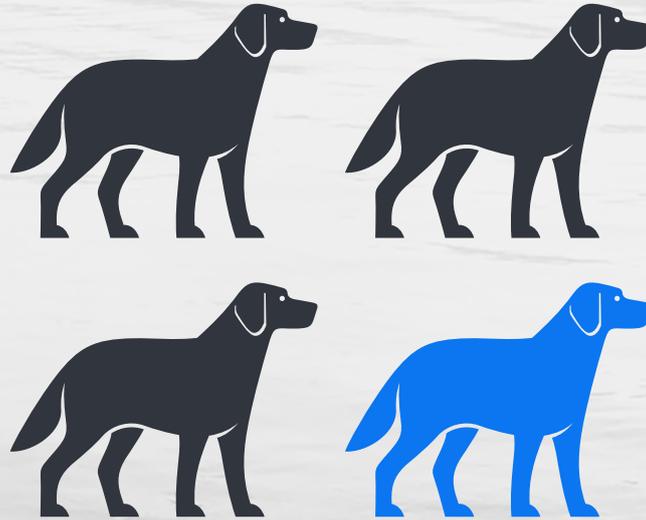
Detect lymphoma earlier than ever before.

IDEXX Cancer Dx™ testing clinical reference guide.

IDEXX



Canine cancer is incredibly common.

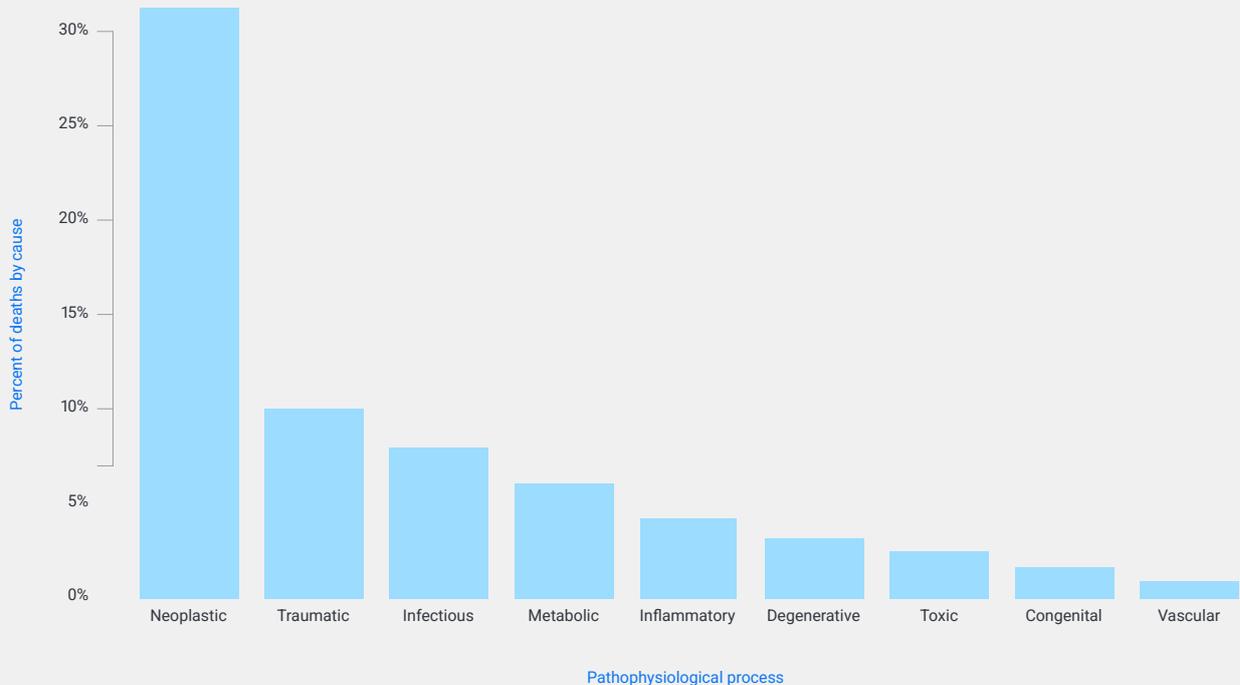


**Approximately 1 in 4 dogs will be diagnosed
with cancer in their lifetime.¹**



Cancer is the leading cause of death in adult dogs.²

For many cancers, patients aren't diagnosed until the later stages and clinical signs are present. These types of situations often lead to poorer outcomes and lower survival rates.



Lymphoma is one of the most common cancers encountered in dogs, comprising up to 24% of new diagnoses.³

Clinical signs associated with canine lymphoma:³

- + Local or generalised lymphadenopathy
- + Skin masses/ulcers
- + Gastrointestinal mass
- + Increased thirst/urination with high calcium
- + Moderate to marked lymphocytosis
- + Bilateral uveitis
- + Fever of unknown origin
- + Cytopenias

Cancer risk in dogs is greatly shaped by two factors: age and breed.

Studies show that the risk of cancer increases with age.⁴



The average age of dogs diagnosed with cancer.⁴

Cancer screenings are recommended for all dogs age 7 or older as well as dogs age 4 and older from these breeds:

Breeds at increased risk for lymphoma

Increased risk of cancer (overall), including lymphoma:

- + Golden retriever
- + French bulldog
- + Beagle
- + Boxer
- + Miniature schnauzer
- + Bernese mountain dog
- + Flat-coated retriever
- + Scottish terrier
- + Bullmastiff

Increased risk of lymphoma

- + Labrador retriever
- + Rottweiler
- + Doberman pinscher
- + English bulldog



Decrease the possibility of illness going undetected by expanding your Preventative care offering.

Preventative care allows veterinarians to catch health issues earlier and help pets live healthy lives. With comprehensive diagnostics from IDEXX, you can get deeper medical insight into your patients' health. But even with comprehensive diagnostics, such as a CBC, chemistry profile, and urinalysis, cancer can still go undetected.

When it comes to cancer detection, the diagnosis often comes too late in the game. Until now, there has been no easy, affordable screening test that could be integrated into a wellness offering.



IDEXX Cancer Dx testing.

Accurate, affordable, early detection of lymphoma.

Help detect cancer as an additional component of your IDEXX routine or preventative diagnostics for at-risk dogs up to 6-8 months before clinical signs appear.*

What is IDEXX Cancer Dx testing?

IDEXX Cancer Dx™ testing is a groundbreaking diagnostic using multiple innovative, proprietary technologies to accurately detect circulating biomarkers specific for canine lymphoma. In many cases, a lymphoma phenotype is provided with high confidence, guiding prognosis and treatment plans.

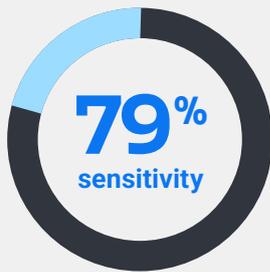
Specimen requirements.

2mL of serum and 1mL of EDTA blood when run as a standalone. When run as an add-on or as part of a profile, with chemistry and CBC, the Cancer Dx test is run using a portion of submitted sample which should be at least 1mL whole blood/2mL serum sample (or any further profile requirement). When submitted with a profile request, a separate pair of tubes is NOT required for Cancer Dx.

*At-risk dogs include all dogs ≥ 7 years old and high-risk breeds ≥ 4 years old.



In an internal validation study, IDEXX Cancer Dx testing identified 79% of dogs with lymphoma with 99% specificity against healthy controls and dogs with inflammatory diseases/other cancers.⁵



Why is cancer screening important?

There is a shifting focus in oncology to early detection of cancers to provide more time for planning and a larger scope of opportunities to treat the disease. Diagnosing lymphoma before it can cause illness in a dog has a great potential to improve outcomes.



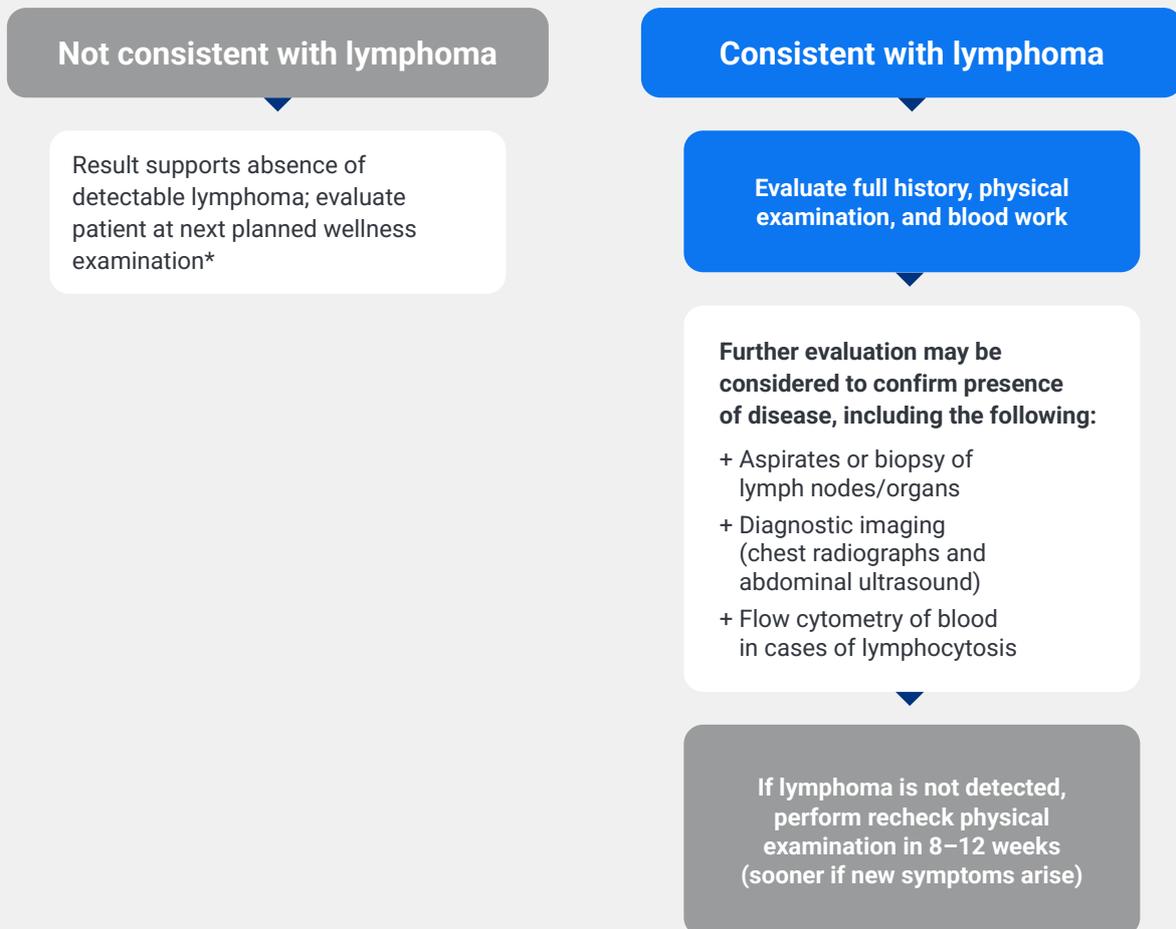
Using IDEXX Cancer Dx in healthy dogs.

How does IDEXX Cancer Dx testing compare to other cancer screening strategies?

IDEXX Cancer Dx™ testing demonstrates performance that is comparable to, if not superior to, the current standards widely and consistently used in human cancer screening diagnostics today.⁶⁻⁷ IDEXX Cancer Dx testing also provides a lymphoma-specific result with additional characterisation in many cases.

Metric	IDEXX Cancer Dx testing	Mammography ⁶	Colonoscopy ⁷
Sensitivity	79%*	65%–94%	75%–95%
Specificity	99%*	50%–98%	89%–94%

IDEXX Cancer Dx™ testing: Interpreting results for clinically well dogs



*American Animal Hospital Association (AAHA) recommends wellness examinations every 6 months in senior dogs and yearly in all other dogs.¹

Reference

1. Creevy KE, Grady J, Little SE, et al. 2019 AAHA Canine Life Stage Guidelines. *J Am Anim Hosp Assoc*. 2019;55(6):267–290. doi:10.5326/JAAHA-MS-6999

Using IDEXX Cancer Dx in sick dogs.

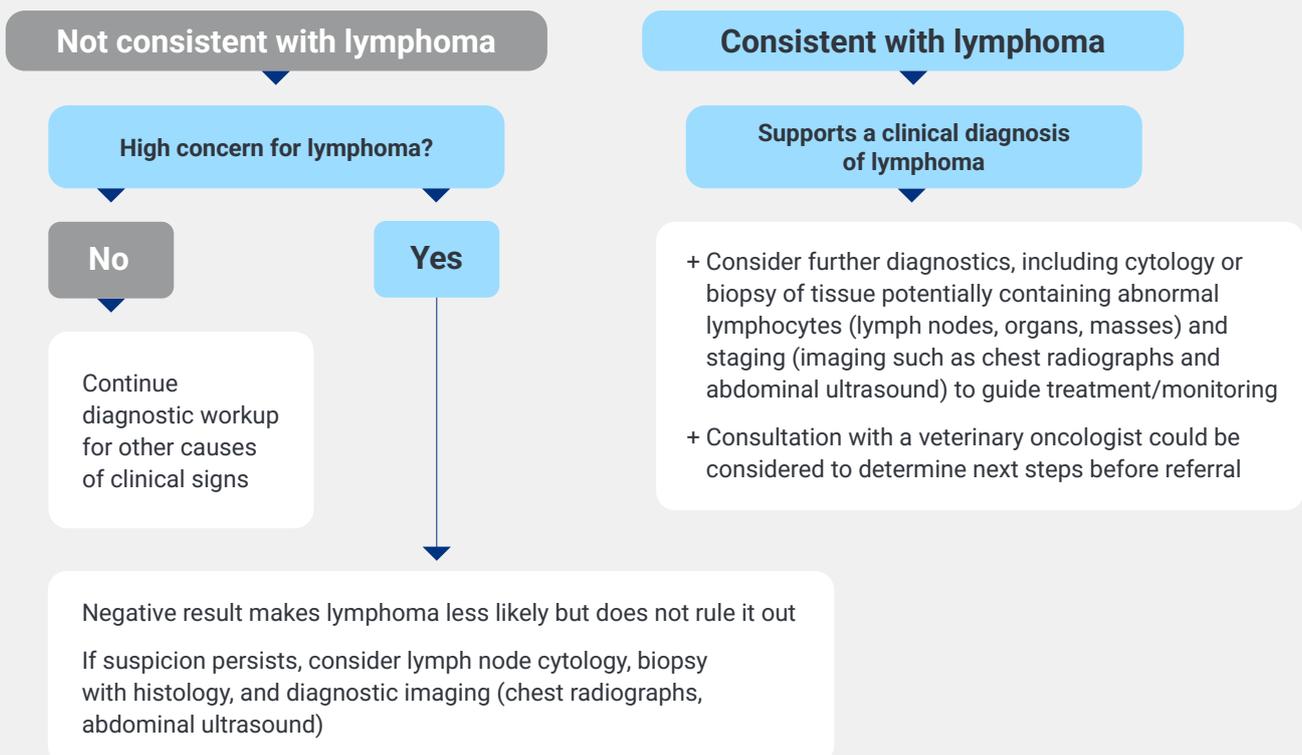
Where does IDEXX Cancer Dx testing fit into the diagnostic workup of a patient suspected to have lymphoma?

Metric	IDEXX Cancer Dx testing	Cytology ⁸	Lymphoma PCR (PARR) ⁹⁻¹¹
Sensitivity	79%	92.6%	75%–92%
Specificity	99%	89.4%	94%–98.7%
Turnaround time ⁸	3–5 days	1–5 days	10–14 days
Specimen	Serum/blood	Cells from lesion	Cells from lesion
Cost	£	£ £	£ £ £

Where does IDEXX Cancer Dx testing fit into the available options for phenotyping of lymphoma?

Metric	IDEXX Cancer Dx testing	Lymphoma PCR (PARR) ¹²⁻¹³	Flow cytometry ¹³
B-cell specificity	91.3%	67%–89%	100%
T-cell specificity	98.8%	64%–100%	98%
Specimen	Serum/blood	Cells from lesion	Cells from lesion
Special handling?	No	No	Yes
Cost	£	£ £ £	£ £ £

IDEXX Cancer Dx™ testing: Interpreting results for clinically ill dogs



Get the support you need when there's no time to waste.

Diagnosing cancer can be difficult, but the expanded cancer offerings at IDEXX Reference Laboratories can help.

The cancer diagnostics test and service menu at IDEXX Reference Laboratories can help identify cancer, understand personalised genetic markers, and determine diagnostics for therapy management and monitoring.



IDEXX pathology services. Make confident decisions, faster.

From state-of-the-art diagnostics, to the world's largest global network of pathologists, IDEXX offers comprehensive support to help you make well-informed, timely decisions for your pathology cases.

- + **The most advanced menu of tests.**
Easy ordering of diagnostic tests for even the most complex cases.
- + **Cutting-edge digital technology.**
Cutting-edge technology to route cases to clinical and anatomic pathologists, enabling fast results and collaboration among IDEXX specialists around the world.
- + **Expert support tailored for you.**
IDEXX has the largest global network of pathologists, offering their expertise to support you in making clinical decisions.
- + **Comprehensive educational resources and tools.**
The [IDEXX Learning Centre](#) provides an extensive collection of training courses, webinars and instruction videos to help your staff handle pathology cases with confidence.

*Requires the in-house IDEXX Digital Cytology™ instrument.



Expand your pathology insights with VetConnect PLUS.

Everything you need for faster, effective clinical decisions all in one place:

- + Digital images of your cytology and biopsy cases can be included at no charge, exclusively with VetConnect PLUS
- + Access to each patient's comprehensive diagnostic information (CBC, chemistry profile, urinalysis) in one place for a holistic view in VetConnect PLUS



Our comprehensive diagnostic portfolio gives you clarity.

The cancer diagnostics test and service menu gives you the answers you need, when you need them:

Cancer screening

- + [IDEXX Cancer Dx testing](#)

Cancer identification

- + [IDEXX Cancer Dx testing](#)
- + Cytology
- + Biopsy
- + Bone Marrow Cytology and Histopathology

Cancer characterisation

- + PCR for Antigen Receptor Rearrangement (PARR)
- + Immunocytochemistry (ICC)
- + Flow cytometry for lymph node aspirate (FCLN)
- + Flow cytometry on blood (FCB)



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