

The Early Edge: A Practical Guide to CFD

DeepScan Diagnostics

Buddy / 7 years
DEEPCAN CFDNA
TEST: 7 PG / UL



Buddy's
cDNA ANALYSIS

The 3 main use-cases for CFD

Proactive Health Screenings

Ideal for recurring check-ups in senior dogs, breeds at higher risk, proactive pet owners, and rescue-dogs with limited medical history. CFD offers early insight into underlying conditions—even before symptoms appear.

Diagnostic Support

If there's clinical suspicion of cancer or other pathological conditions, a CFD test can support a more informed and reliable diagnosis by detecting disease-related signals in the blood.

Treatment Monitoring

In cases of cancer, CFD provides valuable trend data. It can help evaluate how the dog is responding to treatment, enabling veterinarians to adjust therapies more effectively over time.

Why Pet Parents love CFD

CFD shifts care from **reactive to proactive**—
sooner than ever

CFD works **before clinical symptoms appear**

CFD can reliably **detect** signs of disease **earlier
than traditional diagnostics**

CFD detects a **wide range of diseases**, including
cancers, organ damage, chronic degeneration,
inflammatory and autoimmune disease

CFD reliably **shows if a treatment is working**

CFD is **cost-effective** and **non-invasive**



Making the Most of CFD: Ideal Dog Customers

All dogs over 6 years old

High-risk breeds (e.g. Golden Retrievers, Labrador Retrievers, German Shepherds) from age 4

Dogs with unexplained weight loss, lethargy, or persistent limping

Dogs showing signs that may indicate cancer

Dogs about to begin cancer treatment

Rescue or adopted dogs with limited or unknown health histories

Dogs with a known genetic predisposition to serious diseases

Working dogs (e.g. therapy, service, or breeding)

Making the Most of CFD: Ideal Pet Parent Customers

Proactive pet parents seeking peace of mind
about their dog's overall health

Pet parents who've experienced pet loss due
to late diagnosis in the past

Pet parents considering advanced treatments
and wanting baseline data

Pet parents motivated to give their dog the
best possible care



The DVM Advantage

Support proactive care before clinical signs appear

Make more accurate diagnoses

Personalize and refine treatment decisions

Deepen client trust through data-backed evidence

Stay at the forefront of veterinary diagnostics



What makes CFD so effective?

Many diseases translate directly into cell death found in the bloodstream

CFD detects this cell destruction early on, with precision and a wide dynamic range

CFD reference ranges have been developed from a growing dataset of 3000+ dogs and 5000+ samples, translating into the world's largest dataset of cell-free DNA

Scan this QR code to access the resource page with more information about CFD →



What CFD will tell you

Within
reference
range

Mildly
elevated

Moderately
elevated

Severely
elevated



In health screenings and diagnostic support

The first test gives you a snapshot of the current amount of cell destruction in the dog. The test result will be within reference range (green), mildly elevated (yellow), moderately elevated (orange) or severely elevated (red). CFD does not provide a specific diagnosis.

Remember: even early-stage cancers can show up as mildly elevated. **A follow-up CFD test helps reveal if things are getting worse.**

In treatment monitoring

By comparing tests over time, you can see if the treatment is working. CFD changes in line with treatment success or relapse. When possible, take the first CFD test before starting any treatment.

How different diseases translate into varying amounts of cell death

Lower CFD Output

Conditions with low levels of cell death, often localized or slow-moving

Mast cell tumor, GI tract issues (IBD / gastritis), osteoarthritis, local infections, cataracts, hypothyroidism, mild atopy

Moderate CFD Output

Conditions with moderate levels of ongoing cell death across one or more systems

Heart diseases, mild organ damage (heart / kidney disease), soft tissue sarcomas, early sarcomas

Higher CFD Output

Conditions with high levels of cell death, often due to more aggressive or spreading disease

Osteosarcoma, melanoma, adenocarcinomas

Severe CFD Output

Conditions with intense and widespread cell death

Hemangiosarcoma, internal organ cancers (visceral), lymphoma, histiocytic sarcoma, leukemia, recent surgery (within the past two weeks)

Actions after first CFD test

Within
reference
range

Mildly
elevated

Moderately
elevated

Severely
elevated



Within reference range: no need for further action. The amount of cell destruction is within reference range.

We recommend retesting during next health check to ensure catching potential hidden disease early.

Within
reference
range

Mildly
elevated

Moderately
elevated

Severely
elevated



Mildly elevated: follow-up test needed to see whether amount of cell destruction is increasing or not.

Why: at this stage the underlying reason can be anything from a momentary inflammation to a very early-stage cancer. In general cancers will keep increasing cell destruction, while most other diseases will either stabilize (e.g. hypothyroidism) or return to reference range (local infection).

Actions after first CFD test

Within
reference
range

Mildly
elevated

Moderately
elevated

Severely
elevated



Moderately elevated: follow-up test needed to see whether amount of cell destruction is increasing or not.

Why: at this stage the underlying reason can be anything from organ damage to cancer. Cancers will keep increasing cell destruction, while e.g. IBD and mild organ damage stays stable.

Within
reference
range

Mildly
elevated

Moderately
elevated

Severely
elevated



Severely elevated: high likelihood of cancer. Immediate imaging and further diagnostics recommended.

Why: this amount of cell destruction does not occur without a more serious underlying disease.

When the result is above the reference range: the trend is your friend

The key for CFD is follow-up testing in cases where the test result is **above the reference range** or when **tracking treatment efficacy**

Different diseases cumulate into varying levels of cell-destruction, which is why understanding the CFD trend over time is essential

It is recommended to wait 2-3 weeks before the follow-up CFD

Remember: results severely above the reference range indicates immediate need for further investigations.

The follow-up CFD test will show one of three scenarios



CFD increasing



CFD stable



CFD decreasing

What the 3 possible CFD follow-up scenarios will tell you



CFD increasing

High likelihood of cancer. Immediate imaging and further diagnostics recommended.



CFD stable

Possible chronic inflammation or other more slowly progressing or stable conditions (e.g., IBD, osteoarthritis); further clinical evaluation advised.



CFD decreasing

Likely acute inflammation (e.g., infection, injury); no further action required.

FAQ for common scenarios

CFD is elevated but dog shows no symptoms?

If the CFD result is elevated but there are no symptoms, it likely means something has been detected early.

After the **first CFD test**, a follow-up CFD test is recommended after two to three weeks. The trend offers important insight. Temporary issues often return to the reference range, while stabilized results may point to a chronic condition. Rising levels can unfortunately indicate cancer.

If the **levels remain elevated but stable in the follow-up CFD test**, further investigation is advised. If the CFD has **increased**, pay close attention to any signs related to cancer and proceed with additional diagnostics.



FAQ for common scenarios

CFD is within reference range and dog shows no symptoms?

This is a positive finding indicating no signs of disease causing cell destruction.

The result can now be used as a personal baseline for future comparison. For risk breeds or dogs over six years old, it is recommended to retest every six months. For others, including CFD in annual health checks is a good practice.

If illness-related symptoms appear in the future, this initial CFD result helps compare against the original baseline.

How should CFD be utilized in treatment monitoring?

CFD provides a valuable way to monitor treatment response over time. A baseline measurement before treatment offers a reference point, and follow-up samples taken before each treatment cycle or at regular intervals help track changes.

After treatment, ongoing monitoring every three to six months for up to a year offers early insight into recovery or recurrence, depending on the condition and risk of relapse.

The entire CFD process from drawing blood to receiving the result

Scan this QR code for a step-by-step **sample collection guide** ↗



Scan this QR code for the DeepScan **platform guide** (entering new dog and ordering new test) ↗



Scan this QR code to see **shipping instructions** ↗



The entire CFD process from drawing blood to receiving the result

Scan this QR code for entire **resource page** →



Scan this QR code for direct link to **DeepScan's platform** →



CFD

Born from care, shaped by science

A blend of science and commercial strategy, our team includes alumni of Cambridge, Google, and multiple high-impact entrepreneurial ventures

Home to the world's largest cfDNA databank in dogs, with over 5,000 samples analyzed

Ongoing research partnerships with leading European hospitals and universities

World-class clinical advisory board, including Mars Chair of Oncology Board and 10+ leading oncologists in Europe

Operational across both Europe and the United States

Active R&D pipeline expanding into new tests and species

CFD

Born from care, shaped by science

Our research network includes leading European institutions



UNIVERZA
V LJUBLJANI



Uniwersytet
Wrocławski



Université
de Rennes



University of
Zurich^{UZH}



University of
Veterinary Medicine
Budapest

The core team behind the technology



Katja Kivinen

Chief Scientific Officer



Hannes Lohi

Co-founder



Juha Kere

Co-founder



HELSINGIN YLIOPISTO



Karolinska
Institutet

Resources in depth

Questions about practicalities?
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