

Clinical Use

To be used in the routine screening for general health and cancer in the apparently healthy dog. Useful as part of a wellness screen to detect occult disease. High risk groups include seniors (> 5 years) and breeds predisposed to cancer or other systemic inflammatory diseases.

Reference Ranges

CRA Score (Index)

| | |
|----------------------|-----------|
| Very Low Risk | < 2.1 |
| Low Risk | 2.2 - 5.3 |
| Elevated Risk | 5.4 - 8.9 |
| Highly Elevated Risk | ≥ 9 |

CRP (mg/L)

| | |
|----------|-------------|
| Optimum | ≤ 1.9 |
| Normal | ≤ 3.9 |
| Low | 4.0 - 9.9 |
| Moderate | 10.0 - 39.9 |
| High | ≥ 40.0 |

Interpretative Information



CRP Only:
Wide range of noncancerous inflammatory diseases (heart, liver, kidney, infection, autoimmune, pancreatitis, IBD, etc.)

Clinical Background

CRA Score

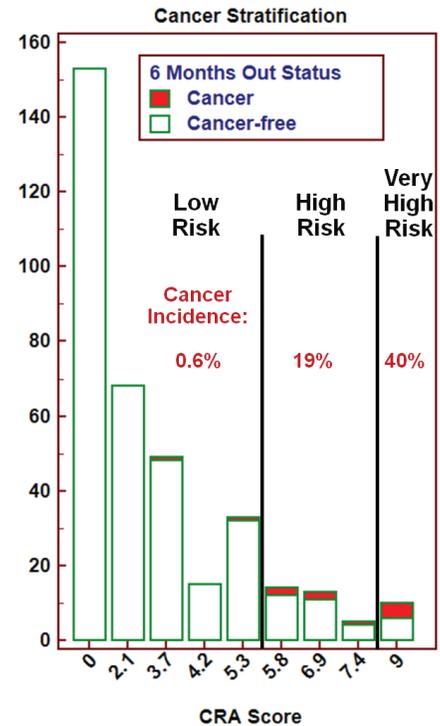
Thymidine kinase type 1, TK1, involved in the salvage pathway of DNA synthesis, indicates dysregulated proliferation - a hallmark of cancer. C-reactive protein (CRP), is an acute phase protein, produced mainly in the liver as a response to inflammation and the release of cytokines. CRP has been shown to be elevated in a wide range of cancer types.

The Cancer Risk Assessment (CRA) score unifies TK1 and CRP to assess the overall risk of cancer and other serious diseases. As the CRA score approaches 10, the likelihood of cancer increases significantly. CRA scores at or below 5.3 indicate a low risk of a cancer event in the coming 6 months.

C-Reactive Protein

CRP is very sensitive to a wide range of inflammatory conditions such as heart disease, kidney disease, IBD, and autoimmune disorders. The concentration of CRP correlates to both the severity and duration of the inflammatory stimuli.

Transient acute inflammation may be seen after immunization, infection or trauma. Chronic inflammation is often associated with neoplasia and other serious inflammatory diseases. Abnormal CRP values should be carefully evaluated.



| | |
|----------------------|---|
| Methodology | Chemiluminescent and Sandwich Immunoassay |
| Units (Range) | CRA Score: index (0-10) CRP: mg/L (0.5-50 mg/L) |
| Sample Type / Volume | Serum ≥ 1mL SST tube / separate and freeze within 45 min |
| Interferences | Gross hemolysis Gross lipemia |
| Stability | Room Temp: 1 hour 4 C : 4 hours minus 20 C : 30 days |