

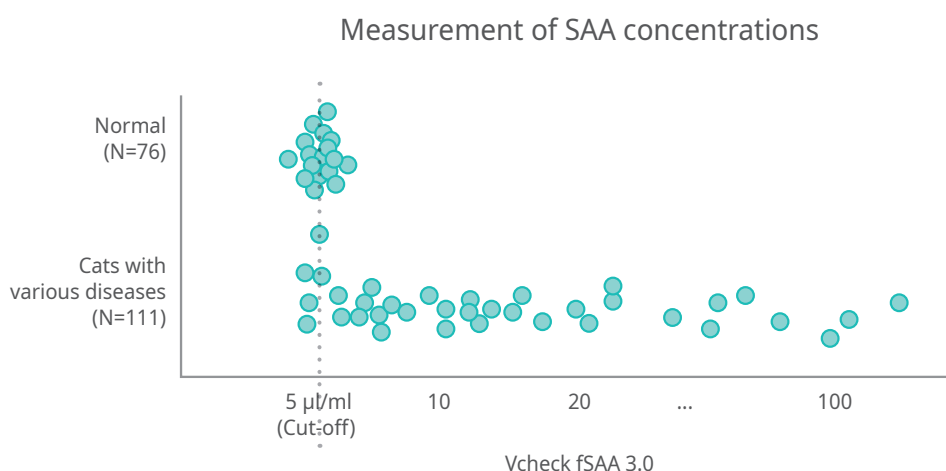
# Vcheck fSAA 3.0



Feline Acute Inflammatory Marker, Serum Amyloid A

## What is Serum amyloid A?

SAA (Serum amyloid A) is one of the major acute-phase proteins and has low concentrations in healthy cats. As a sensitive marker of inflammation, its concentration increases rapidly in response to inflammatory stimuli such as infection, trauma, tumors, or surgery.



## Clinical Application



AFTER SURGERY

### Monitoring the post-operative effects and recovery

Screening interval (Recommendation)

- ① Before surgery
- ② After surgery
- ③ 2-3 times every 12 hours



CONTINUOUS MONITORING

### Serial monitoring of the response to treatment

Decrease in SAA levels between two consecutive time points could be associated with positive response to treatment.



REGULAR CHECK-UP

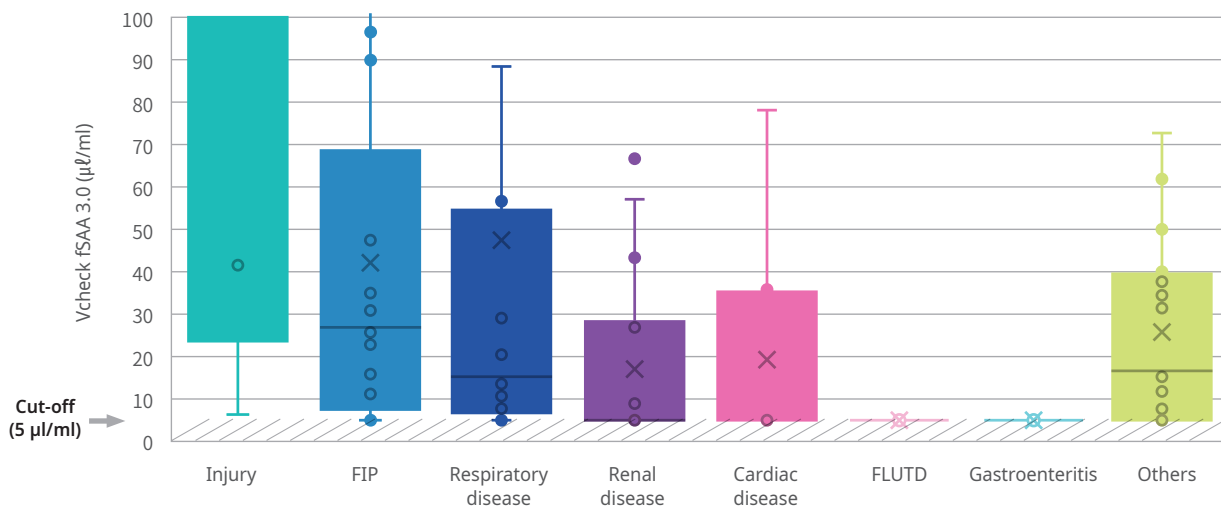
### Early detecting the presence of inflammation

SAA increases in the early stage of inflammation, enabling an early detection of inflammation before the presence of clinical symptoms.

# Vcheck fSAA 3.0 : Clinical Evaluation

## ∴ High SAA levels in various diseases

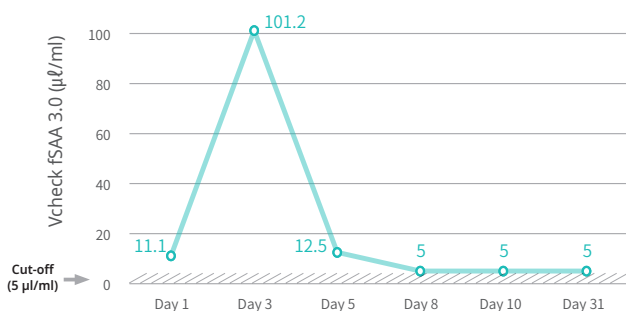
- Injury
- Neoplasia
- Feline infectious peritonitis (FIP)
- Chronic kidney disease (CKD)
- Pyometra
- Cardiomyopathy
- Hepatitis / Cholangitis
- Pneumonia / Respiratory tract infections



SAA levels in diseased cats (N=111)

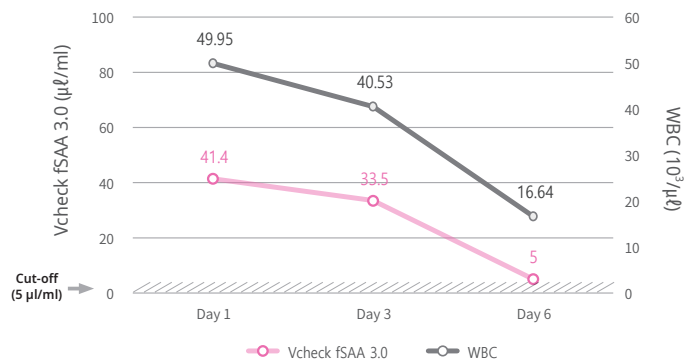
## ∴ Treatment Monitoring of SAA Levels

Case 1 : Cat under treatment for FIP



- High SAA levels in a cat with FIP
- After treatment, SAA levels decreased, reflecting the inflammatory status.

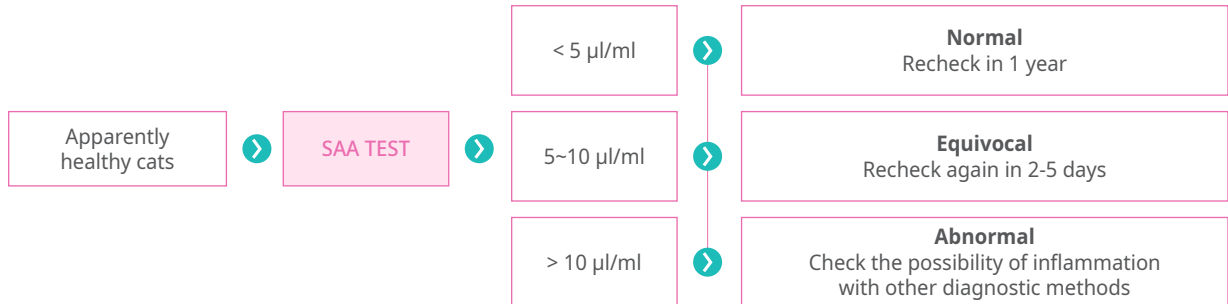
Case 2 : Cat under treatment for trauma



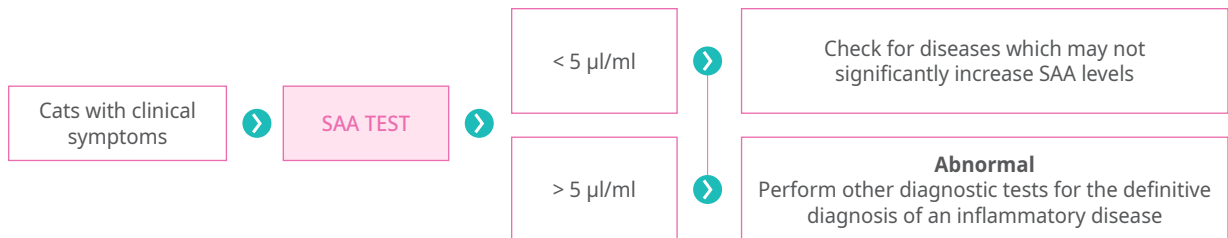
- High SAA & WBC levels indicate presence of infection.
- The concentrations declined rapidly following recovery.

# Diagnostic Algorithm

## ∴ Regular check-up



## ∴ First choice in symptomatic cats



# Case Study

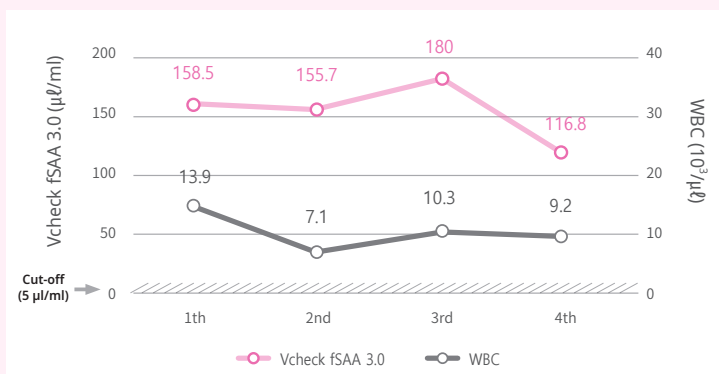


- ✓ **Male, 6 months, Bengal**
- ✓ **History** : Loss of appetite
- ✓ **Clinical sign** : Dyspnea, lethargy
- ✓ **Blood test**

- ✓ **X-ray** : Fluid in the peritoneal cavity (ascites)
- ✓ **PCR assay** : FIP virus (biotype) in ascites  
-> Diagnosis of FIP (Wet form)

fSAA: 158.5 µl/ml (Abnormal), A/G ratio: 0.39 (<0.4: High FIP likelihood) Globulin: 5.3 g/dl (hyperglobulinemia)

Changes of SAA and WBC levels



SAA significantly increases in cats with FIP compared with asymptomatic FCoV-exposed cats, which aids in making a diagnosis and monitoring therapy.

# Vcheck Feline SAA 3.0

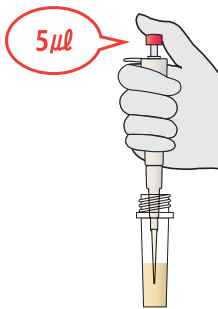
## Specifications

- Species : Cat
- Sample : Serum, plasma (heparin) 5  $\mu$ l
- Testing time : 5 minutes
- Measurement Range : 5~200  $\mu$ g/ml
- Storage Condition : 1~30  $^{\circ}$ C

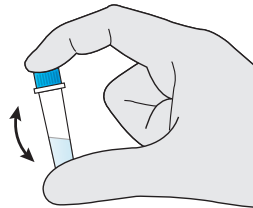


## Test Procedure

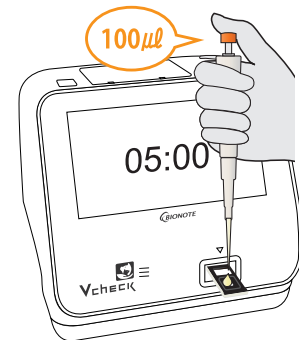
1 Draw 5  $\mu$ l of sample and add it into an assay diluent tube



2 Close the bottle cap and shake for 5-6 times to mix thoroughly



3 Add 100  $\mu$ l of mixture in the sample hole of the test device



## Reference Range

< 5 $\mu$ l/ml	5 ~ 10 $\mu$ l/ml	> 10 $\mu$ l/ml
Normal	Equivocal	Abnormal

## Ordering Information

Product No.	Product Name	Product Type	Packing Unit
VCF138DD	Vcheck Feline SAA 3.0	Device	10 Tests/Kit



Manufactured by

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Rev.0