

# Check the health status prior to investigating OPTIMAL TIME FOR BREEDING

C-reactive protein (CRP) has been proven to be a valuable biomarker for health status evaluation of bitches suffering from reproductive disorders.

- \* Low concentrations (< 20 mg/L) in healthy dogs
- \* Elevated in response to inflammatory stimuli (infection, trauma, or tumors)
- \* Possible indicator of the presence of causes of infertility or pregnancy loss<sup>1</sup>

Infectious agents (bacteria, virus) e.g. <i>Brucella canis</i> , parvovirus <sup>2</sup>	Pyometra <sup>3</sup>
Endometritis	Ovarian tumor

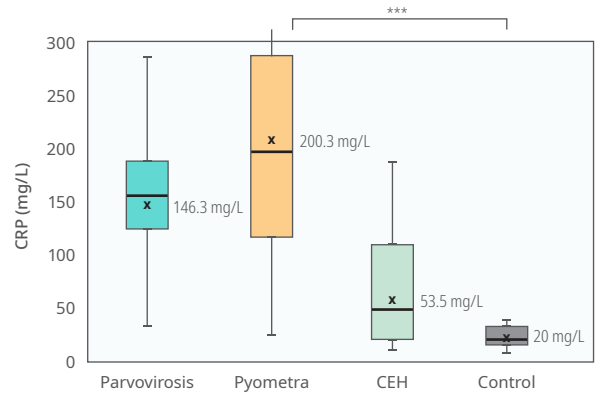
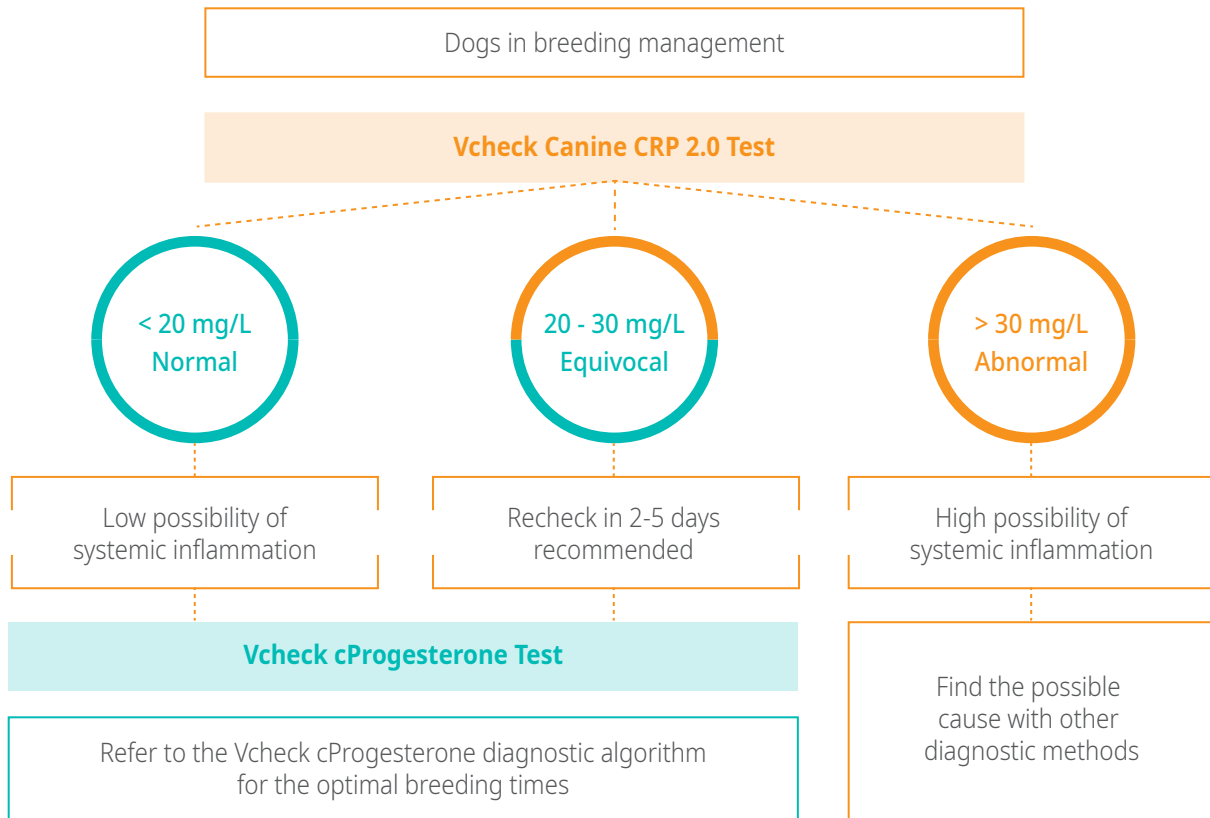


Fig. CRP concentrations in reproductive disorders (CEH; cystic endometrial hyperplasia)

## Diagnostic Algorithm

Before you start a breeding program, measure CRP to confirm the presence of underlying inflammation.



Reference 1. Pregnancy Loss and Abortion in Dogs, British Small Animal Veterinary Congress 2008. 2. Journal of the American Veterinary Medical Association, 243(3), 361-366. 3. Journal of the American Animal Hospital Association, 40(5), 391-399.



Manufactured by

**BioNote, Inc.**

22 Samsung1ro 4-gil, Hwaseong-si, Gyeonggi-do 18449, Republic of Korea  
TEL: 82-31-211-0516 | FAX: 82-31-8003-0618 | [www.bionote.co.kr](http://www.bionote.co.kr)