Research Note:

Heart Function Values& Parvoviral Infection

Canine parvovirus can result in myocarditis via primary infection of myocardial cells or secondary to systemic inflammatory response syndrome and sepsis. Echocardiography is a safe, relatively inexpensive, and noninvasive diagnostic modality for evaluating heart function; however, hypovolemia caused by dehydration decreases preload, which affects echocardiographic indexes of cardiac function and may affect the sensitivity of this diagnostic assessment. Two-dimensional speckle tracking echocardiography (2D-STE) has introduced 2 new variables (ie, strain [St], strain rate [SR]) for cardiac assessment and is minimally influenced by preload.

This study measured St and SR values using 2D-STE in dogs with parvovirus. Results demonstrated significantly impaired values in all parvovirus patients, indicating systolic myocardial dysfunction; impaired values were particularly notable in severely affected dogs and dogs that died.

Source

de Abreu CB, Muzzi RAL, de Oliveira LED, et al. Systolic dysfunction by two-dimensional speckle tracking echocardiography in dogs with paryoviral enteritis. *J Vet Cardiol*. 2021:34:93-104.



- #1 dog preferred with a delicious beef flavor.²
- **Safe for puppies** as young as 8 weeks, weighing as little as 4 pounds.



IMPORTANT SAFETY INFORMATION: NexGard is for use in dogs only. The most frequently reported adverse reactions include vomiting, pruritus, lethargy, diarrhea and lack of appetite. The safe use of NexGard in pregnant, breeding, or lactating dogs has not been evaluated. Use with caution in dogs with a history of seizures or neurologic disorders. For more information, see the full prescribing information or visit NexGardClinic.com.

1-2. Data on file at Boehringer Ingelheim.



See page 49 for product information summary.