

## عنوان مقاله:

Evaluation of right ventricle echocardiographic variables in apparently healthy domestic shorthair cats

## محل انتشار:

گفتمان پژوهش دامپزشکی، دوره 14، شماره 9 (سال: 1402)

تعداد صفحات اصل مقاله: 5

## نویسندگان:

Saeed Heydaryan - *Department of Internal Medicine, Faculty of Veterinary Medicine, University of Tehran, Tehran, Iran*

Seyed Javad Ahmadpanahi - *Department of Basic Sciences, Faculty of Veterinary Medicine, Semnan University, Semnan, Iran*

Dariush Shirani - *Department of Internal Medicine, Faculty of Veterinary Medicine, University of Tehran, Tehran, Iran*

Mohammad Molazem - *Department of Radiology and Surgery, Faculty of Veterinary Medicine, University of Tehran, Tehran, Iran*

Yasamin Vali - *Diagnostic Imaging, Department of Companion Animals and Horses, University of Veterinary Medicine Vienna, Vienna, Austria*

## خلاصه مقاله:

Right ventricular structural and functional changes result from many cardiovascular disorders in cats. Accordingly, echocardiographic evaluation of the size and function of the right ventricle (RV) provides important prognostic information in many conditions affecting the right heart. Therefore, detection of these changes is clinically important and needs reference values to ease the diagnosis. The present study was designed to calculate structural and functional right ventricular variables in 10 apparently healthy cats (six males and four females, average age 1 year old and body weight ۲.۷۰ - ۴.۸۰ kg) with no sedation. For this purpose, The minimum, maximum, mean  $\pm$  standard error of the mean of right ventricle internal dimension in systole and diastole (cm), right ventricle free wall thickness in systole and diastole (cm), fractional shortening (%), right ventricle volume in systole and diastole (mL), right ventricle area in systole and diastole (cm<sup>2</sup>), ejection fraction (%) and fractional area change (%) were measured and reported. Descriptive statistics were provided for all calculated variables. Statistical correlation of the collected variables with body weight, gender and heart rate were analyzed. Results showed that there is a significant correlation between heart rate with body weight and between systolic and diastolic RV volumes with gender. The results of the present study would help clinicians in the diagnosis of the right heart changes in DSH cats.

## کلمات کلیدی:

domestic shorthair cats, Echocardiography, Right ventricle

## لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/1817876>



