

عنوان مقاله:

Normal Echocardiographic Findings in Healthy Pigeons

محل انتشار:

دوفصلنامه جراحی دامپزشکی، دوره 11، شماره 2 (سال: 1396)

تعداد صفحات اصل مقاله: 7

نویسندگان:

Majid Masoudifard - Department of Surgery and Radiology, Faculty of Veterinary Medicine, University of Tehran, Tehran, Iran

Vajiheh Rahimi Bidgoli - Department of Surgery and Radiology, Faculty of Veterinary Medicine, University of Tehran, Tehran, Iran

Seyed Ahmad Madani - Department of Animal and Poultry Health and Nutrition, Faculty of Veterinary Medicine, University of Tehran, Tehran, Iran

Alireza Vajhi - Department of Surgery and Radiology, Faculty of Veterinary Medicine, University of Tehran, Tehran, Iran

Somayye Davoodipoor - Department of Surgery and Radiology, Faculty of Veterinary Medicine, University of Tehran, Tehran, Iran

Yasamin Vali - Department of Surgery and Radiology, Faculty of Veterinary Medicine, University of Tehran, Tehran, Iran

خلاصه مقاله:

Objective- The purpose of this study was to investigate the feasibility of performing echocardiography in apparently healthy pigeons, and measurement of the quantitative cardiac indices using B-mode and Doppler techniques. **Design-** Experimental study **Animals-** Ten apparently healthy pigeons **Procedures-** Echocardiography was performed in ventromedian and right parasternal approaches after evaluating pigeons' heart radiographically. Cardiac chambers, valves and hemodynamic parameters were evaluated subjectively and objectively by the B-Mode, color and pulse-wave Doppler techniques. The mean and the standard deviation of the quantitative measurements were presented as the objective as well as subjective results **Results-** The right parasternal approach was more efficient than the ventromedian approach in obtaining high-quality image. Evaluation of the ventricles, atria and aorta was possible objectively by B-mode technique. Valvular function and quality of the blood flow was assessable subjectively by color Doppler technique. Measuring the hemodynamic parameters in the atrioventricular and aortic valves was feasible as quantitative parameters using pulse-wave Doppler echocardiography. No gross lesions were detected at necropsy. **Conclusion and Clinical Relevance-** Echocardiography showed high accuracy and reliability in determination of avian cardiac indices. Therefore it can be a useful noninvasive diagnostic tool for morphological and functional evaluation of avian cardiac system and can be helpful in diagnosis of avian cardiac disorders.

کلمات کلیدی:

echocardiography, Ultrasonography, Doppler, Pigeon, Bird

لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/1989621>



