عنوان مقاله:

Three-dimensional Power Doppler Ultrasonographic Evaluation of Induced Cystitis in Dogs

نویسندگان:

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خلاصه مقاله:

Objectives: The aim of this study was to investigate if three-dimensional power Doppler (۳DPD) ultrasound (US) can detect bacterial cystitis in dogs better than two-dimensional (۲D) US.Animals: Six mixed breed dogsProcedures: Ten ml of ۰.۱% alcoholic solution of salicylic acid was entered into the urinary bladder of six male mixed-breed dogs by catheter. Twenty four hours later, culture solution of Proteus mirabilis (۱۰۳CFU /ml) was inoculated into the urinary bladder. The dogs were examined with complete blood and urine analysis and bacteriological culture on specified days during the infection and the treatment period. The urinary bladders of dogs were assessed by both ۳DPD and ۲D US techniques. All dogs were treated with therapeutic doses of Ceftriaxone for two weeks, ۱۴ days after the infection.Results: results showed that ۳DPD can better define the morphological and vascular characteristics of cystitis; ۱ however, the main lesions were identified by both ۲D and ۳DPD US.Clinical Significance: The data showed that, the indicators of ۳DPD can differentiate the disease acuteness and treatment response better than ۲D US.

کلمات کلیدی:

Three-dimensional Power Doppler Ultrasonography, Two-dimensional Ultrasonography, Cystitis, Dog, Proteus Mirabilis