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Effect of low level laser on healing of moderate sized induced septal defects on rabbits

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Background & Purpose: Congenital ventricular septal defects are among the most frequently reported congenital heart defects. The aim of this study was to investigate the response of LASER irradiation on induced ventricular septal defects.

Subjects & Methodology: Twenty male rabbits underwent induction for ventricular septal defects by cardiac puncture technique with age ranged 6-10 months enrolled in that study forone and half months. They were assigned into twogroups: Group (A): The experimental group consisted of 10 rabbits who received routine animal care associated with LASER irradiation. Group (B): The control group consisted of 10 rabbits who received routine animal care alone. The program continued for one and half months. Sizes of the septal defects were measured for both groups at the beginning of the study and after the end of one and half months.

Results: There was significant decrease of size of the diameter of the induced ventricular septal defect with study group (percentage of improvement 22.17%) when compared with control group.

Conclusion: It was concluded that LASER therapy can be considered as a promising therapy for congenital heart defects in animals and to be examined on children after then.

Biography

Hady Atef is a Teacher Assistant at Faculty of Physical Therapy, Cairo University, Egypt. He had his Master's degree from the same university; he is interested in researches about congenital heart disease. He is a former editor at many international journals. He is now completing his experimental work about laser applications in congenital heart defects.

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