Protective Effect of Pioglitazone on Retinal Ischemia/Reperfusion Injury in Rats

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Abstract

Objective: To discuss the protective effect of pioglitazone on retinal ischemia/reperfusion (I/R) injury in rats. Method: 120 rats were randomly divided into two groups, the control group and the pioglitazone group. The rats were subjected to I/R injury for 7 days. The retinal function, retinal morphology, and retinal ischemia were tested using ultrasonography, electroretinography, and retinal ischaemia index, respectively. Results: I/R injury caused retinal damage. Pioglitazone treatment significantly reduced retinal damage. Conclusion: Pioglitazone treatment significantly reduced retinal damage. Keywords: Retinal ischemia/reperfusion injury; Pioglitazone; Retinal function; Retinal morphology; Retinal ischemia.