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Retinal safety studies of intravitreal injection of Rg1 ginsenosides on normal rabbit

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Objective: To study whether the intravitreal injection of different concentration of Rg1 ginsenosides have toxic side effects to select the correct dose of Rg1 ginsenosides in intravitreal injection.

Methods: 12 healthy New Zealand white rabbits are randomly divided into 4 groups with each group 3 rabbits (6 eyes). Grouping is as follows: Group 1 (control group)-0.1 ml intravitreal injection of 0.9% saline injection; Group 2-intravitreal injection of low dose (0.05 mg/kg) Rg1 ginsenosides, Group 3-intravitreal injection of middle dose (0.5 mg/kg) Rg1 ginsenosides, Group 4-intravitreal injection of high dose (2.5 mg/kg) Rg1 ginsenosides. Use slit lamp, ophthalmoscope and ultrasound to observe the anterior segment and fundus in rabbit eyes. After 4 weeks, microstructure of retina is observed under light microscopy and transmission microscopy.

Results: The intravitreal injection of Rg1 ginsenosides in rabbit eyes in dose of 0.05 mg/kg, 1 mg/kg and 2.5 mg/kg have no obvious side effects.

Conclusion: Intravitreal injection of different concentration (0.05 mg/kg, 1 mg/kg and 2.5 mg/kg) of Rg1 ginsenosides into rabbit's eye is both safe and do no harm to the fundus.

Biography

Lina Huang is a Chief physician and doctoral supervisor, also an outstanding ophthalmologist. She is the Pre-President of Shenzhen Eye Hospital, Director of Shenzhen Eye Disease Prevention and Control Institute. She is an expert with special allowance from the state council, a visiting Professor of the Chinese University of Hong Kong, the member of the glaucoma group of Chinese Medical Association, and the Director of the committee in Ophthalmology Medical Association of Shenzhen. She has completed her MD degree from Guangdong Medical College and PhD from Zhong Shan Eye Center of Zhong Shan University. She was engaged in advanced studies in the Chinese University of Hong Kong's in Eye Center of Prince of Wales Hospital. Then she went to New England Eye Center of Tufts University in Boston, USA for further study. She has been engaged in ophthalmologic clinical works for more than 30 years with rich experience, teaching more than 30 graduate students. As the first author she published more than 100 papers in reputed journals. She also attended the writing in ophthalmic books with seven works published.

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