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Quantitative measurement for the retinal vascular diameter changes in the early postoperative period after strabismus surgery**Jinqiong Zhou, Jing Fu, Jipeng Li, Xiaozhen Wang, Wenyang Wang, Bowen Zhao, Meng Qi**

Beijing Tongren Eye Center, Beijing Tongren Hospital, Capital Medical University, Beijing Ophthalmology & Visual Sciences Key Laboratory, China

In this study, we analyzed the retinal vascular diameter changes before and one day after strabismus surgery in a large series of strabismus patients, to detect the potential effects of strabismus surgery on retinal circulation. Using the computer-assisted quantitative assessment software, our study analyzed one hundred and fifty-six consecutive patients with horizontal strabismus who underwent strabismus surgery. Color fundus photographs were taken in each eye before and one day after surgery. The retinal vessel diameters were measured using computer-assisted quantitative assessment software. Paired-sample T test was performed to evaluate the central retinal arteriolar equivalent (CRAE), central retinal venular equivalent (CRVE) and arteriovenous ratio (AVR) before and one day after surgery. The results showed that strabismus surgery on horizontal rectus muscle may change the retinal hemodynamic by increasing the retinal blood flow during the early postoperative period. And, compared with the medial rectus muscle, the lateral rectus muscle cut off played a minor role on the retina blood flow changing after strabismus surgery because of the anatomy feature, which carried only one anterior ciliary artery.

Biography:

Fu Jing has completed her PhD from Capital Medical University and MBA from Peking University. She is the director of Pediatric Ophthalmology Department of Beijing Tongren Eye Center, Beijing Tongren Hospital. She has published more than 20 papers in reputed journals and has been serving as an editorial board member of reputed.

fu_jing@126.com

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