Measuring biomechanical characteristics of blood vessels for early diagnostics of vascular ocular fundus pathologies

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Abstract:

The paper discusses the problems of early diagnosis of vascular pathology. A method is suggested that allows to establish the diagnostic markers on the basis of a mathematical model of an ocular fundus fragment. Experimental studies of the computational accuracy of evaluating the global diagnostic parameters were performed. A technology is proposed for the detection of the area of the optic nerve disk and the methods for evaluating the diagnostic parameters of the disk. The developed methods allow to make the differential diagnosis of eye diseases.

Keywords: vascular ocular, fundus pathologies, biomechanical characteristics, optic nerve disk.

[Access full text (in Russian)](#)

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