

学位論文審査結果の要旨

所 属	三重大学大学院医学系研究科 甲 生命医科学専攻 臨床医学系講座 眼科学分野	氏 名	いちお あつし 一尾 享史
審 査 委 員	主 査 山中 恵一 副 査 小川 朋子 副 査 西村 有平		
(学位論文審査結果の要旨)			
Effects of Intravitreal Aflibercept on Retinal Function and Improvement of Macular Edema Associated With Diabetic Retinopathy			
著者らは論文において下記の内容を述べている。			
Purpose: To determine the effectiveness of intravitreal aflibercept (IVA) on the retinal function in eyes with diabetic macular edema (DME). Methods: Twenty-five eyes of 25 patients with DME were treated with three consecutive monthly IVA injections. The retinal sensitivities (RS) within the central 10° were determined by microperimetry (MP). The central subfield macular thickness (CMT) was determined by optical coherence tomography, and the implicit times (IT) and amplitudes (Amp) of the flicker electroretinograms (ERGs) were determined from the ERGs elicited and recorded by the RETeval. The number of microaneurysms (MAs) was counted in the fundus photographs. The assessments were made before the IVA injections (pre-IVA) and one week after the IVA injections (post-IVA). The correlations between the reduction ratio of the MA numbers/CMT and RS/IT/Amp were evaluated. Results: The mean RS improved from 19.9 ± 5.9 dB to 22.0 ± 5.8dB, the CMT decreased from 485.7 ± 90.6 μm to 376.9 ± 81.6 μm, and the number of MAs decreased from 49.6 ± 33.2 to 24.8 ± 18.1 after the IVA injection (all P < 0.01). The changes in the IT from 31.3 ± 3.3 ms to 31.5 ± 3.1 ms and the Amp from 12.2 ± 5.5 μV to 11.3 ± 6.1μV post-IVA were not significant. A significant correlation was found between the relative changes in the CMT and RS (r = -0.43; P = 0.02), the MAs and RS (r = -0.38; P = 0.03). No significant correlation was observed between the relative changes of the number of MAs/CMT and IT/Amp. Conclusions: IVA can improve both central retinal function and anatomical conformation.			

本論文において一尾は、afliberceptの硝子体内注射を行った糖尿病黄斑浮腫の25例25眼に対し詳細な網膜の形態学的検査および機能検査を行い、網膜の中心部である黄斑部は治療後に有意に改善したが、網膜全体としての機能は明らかな改善がみられなかったことを報告した。この結果は学術上極めて有用であり、学位論文として価値あるものと認めた。

Translational Vision Science & Technology 2020;9(11):2

Published: October 6,2020

doi: 10.1167/tvst.9.11.2

Atsushi Ichio, Masahiko Sugimoto, Hisashi Matsubara, Daiki Mochida,
Kumiko Kato, Mineo Kondo