

Examination of cytokines in the intraocular fluids in Clinic

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Abstract

Examination of cytokines in the intraocular fluids in Clinic: Examinations of cytokines in the intraocular fluids are commonly used in research. In our clinic, it has been used to help clinical doctors to make a diagnosis of uveitis and vitreoretinal diseases in the early stage. In addition, it provide benefits for experimental treatment. For instance, by measurement of the IL-10/IL-6, one may make a presumed diagnosis of intraocular lymphoma. By monitoring the intraocular IL-8, one may judge the level of intraocular inflammation and decide whether the antiviral drug for intravitreal injection to treat cytomegalovirus retinitis/acute retinal necrosis should be changed or not. Similarly, measurement of IL-8 in the aqueous humor help to judge experimental treatment to use intravitreal injection of anti-fungal/antibiotics for management of endophthalmitis is successful or fail. Measurement of the intraocular VEGFA is somewhat pivotal before intravitreal injection of anti-VEGF drugs such as ranibizumab for diabetic macular edema/ retinal vein occlusion/ choroidal neovascularization. Before

intravitreal injection of triamcinolone or ozurdex is performed, examination of intraocular inflammatory cytokines is helpful. Therefore, precision treatment of uveitis and vitreoretinal diseases get benefits from examination of cytokines in the intraocular fluid.

Biography

Yong Tao has completed his MD at the age of 27 years from Peking University and postdoctoral studies from Heidelberg University. He is the director of Dept.Ophthalmology, Beijing Chaoyang Hospital, Capital Medical University. He has published more than 99 papers in SCI journals. His researches focused on the clinical uveitis by examinations of components in the intraocularfluid.

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