Roles of IL-\(\beta\) in ocular inflammations: a review.

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Abstract

INTRODUCTION: This review represents the current in vitro, in vivo, animal and human investigations on the roles of IL-\(\beta\) in ocular inflammatory conditions.

MATERIALS AND METHODS: The data sources were literature reviews, including Pub Med, Medline, and ISI databases (since 1991 to mid-Nov 2012). Search items were, IL-\(\beta\), chemokines, cytokines, alone or in combination with, serum, aqueous, vitreous eye, ocular, ocular tissues, ophthalmic, and review.

RESULTS: Ocular effects of IL-\(\beta\) depend on the sources of the secretion and sites of the action. IL-\(\beta\) plays important anti-inflammatory and especially anti-angiogenic activities in ocular tissues such as the conjunctiva, cornea, retina, choroid, and orbit.

CONCLUSION: IL-\(\beta\) plays major anti-inflammatory and anti-angiogenic roles in most of the ocular inflammations. Also, IL-\(\beta\) plays a role in development of anterior chamber-associated immune deviation (ACAID). Any manipulation of IL-\(\beta\) for treatment purposes should be considered very cautiously due to its potential hazards to the immune system.

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