

PubMed

Display Settings: Abstract



Ocul Immunol Inflamm. Dec; (): - . doi: . / . . . Epub Nov .

Roles of IL-10 in ocular inflammations: a review.

Ghasemi H, Ghazanfari T, Yaraee R, Owlia P, Hassan ZM, Faghihzadeh S.

Department of Ophthalmology, Shahed University, Tehran, Iran. ghasemi @yahoo.com

Abstract

INTRODUCTION: This review represents the current in vitro, in vivo, animal and human investigations on the roles of IL-10 in ocular inflammatory conditions.

MATERIALS AND METHODS: The data sources were literature reviews, including Pub Med, Medline, and ISI databases (since 1980 to mid-2011). Search items were, IL-10, chemokines, cytokines, alone or in combination with, serum, aqueous, vitreous eye, ocular, ocular tissues, ophthalmic, and review.

RESULTS: Ocular effects of IL-10 depend on the sources of the secretion and sites of the action. IL-10 plays important anti-inflammatory and especially anti-angiogenic activities in ocular tissues such as the conjunctiva, cornea, retina, choroid, and orbit.

CONCLUSION: IL-10 plays major anti-inflammatory and anti-angiogenic roles in most of the ocular inflammations. Also, IL-10 plays a role in development of anterior chamber-associated immune deviation (ACAID). Any manipulation of IL-10 for treatment purposes should be considered very cautiously due to its potential hazards to the immune system.

PMID: [PubMed - in process]

LinkOut - more resources