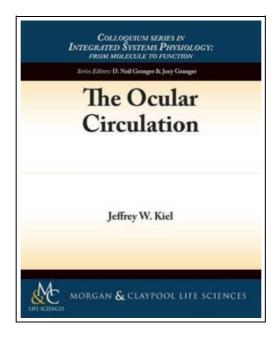
The Ocular Circulation



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Reviews

A very wonderful book with lucid and perfect answers. It is probably the most incredible book i have study. Its been designed in an exceptionally simple way and is particularly just after i finished reading through this publication by which in fact transformed me, alter the way in my opinion.

(Macey Schneider)

THE OCULAR CIRCULATION



Morgan Claypool Publishers, United States, 2011. Paperback. Book Condition: New. 229 x 185 mm. Language: English . Brand New Book. This presentation describes the unique anatomy and physiology of the vascular beds that serve the eye. The needs for an unobstructed light path from the cornea to the retina and a relatively fixed corneal curvature and distance between refractive structures pose significant challenges for the vasculature to provide nutrients and remove metabolic waste. To meet these needs, the ocular vascular beds are confined to the periphery of the posterior two thirds of the eye and a surrogate circulation provides a continuous flow of aqueous humor to nourish the avascular cornea, lens and vitreous compartment. The production of aqueous humor (and its ease of egress from the eye) also generates the intraocular pressure (IOP), which maintains the shape of the eye. However, the IOP also exerts a compressing force on the ocular blood vessels that is higher than elsewhere in the body. This is particularly true for the intraocular veins, which must have a pressure higher than IOP to remain patent, and so the IOP is the effective venous pressure for the intraocular vascular beds. Consequently, the ocular circulation operates at a lower perfusion pressure gradient than elsewhere in the body and is more at risk for ischemic damage when faced with low arterial pressure, particularly if IOP is elevated. This risk and the specialized tissues of the eye give rise to the fascinating physiology of the ocular circulations.



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