

EFFECT OF VARIOUS CONTACT LENSES ON IOP AND CORNEAL BIOCHEMICAL PROPERTIES: A SYSTEMIC REVIEW

ANIK DINGAL, 1st year M.OPTM, VIDYASAGAR COLLEGE OF OPTOMETRY AND VISION SCIENCE

Abstract:

Purpose: The association between corneal biomechanical properties (BMP) and intraocular pressure (IOP) has been observed with all kinds of contact lenses, like soft, rigid, and scleral lenses. In this study, we looked at the influence of soft, rigid gas-permeable (RGP), and scleral contact lenses on the corneal BMP and IOP.

Method: The literature search was performed using the following headings and subheadings: corneal BMP, RGP contact lens, soft contact lens, scleral contact lens, relationship between corneal BMP and contact lens, correlation between IOP and contact lens. The literature search includes 60 publications from PubMed, Google Scholar, ResearchGate, J-Gate, Crossref, and Academia search engines.

Results : It has been seen that some of the corneal BMP and IOP are being affected by soft contact lenses and RGP, but it depends on the wearing duration. Scleral lenses do not have any negative impact on BMP or IOP.