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Introduction

The human eye is a remarkable organ, allowing us to perceive the world around us through the wonders of vision. However, various factors such as age, environmental conditions, and underlying health issues can lead to eye alterations, impacting our visual acuity and overall eye health. In recent years, researchers and medical professionals have been investigating the potential of human serum eye drops as a therapeutic option to address these alterations and promote healing vision [1]. This article delves into the promising realm of human serum eye drops and their potential in alleviating eye alterations.

Cornea is mostly composed of collagen and water and is enveloped by epithelium and endothelium. These layers cooperate to ensure tissue homeostasis by providing adequate corneal transparency and reliability. After injury, corneal epithelial cells regenerate and restore the physiologic tissue architecture. In addition, a concomitant nerve regrowth and a controlled neovascularization of the damaged surface may occur. Cellular loss needs replacement by cell growth and migration [2].

In addition, a conditioned medium derived from human uterine cervical stem cells has been tested for corneal epithelial healing, and a therapeutically ocular surface medium, routinely used to culture epithelial cells, was suggested as novel eye drops for DES and PED [3]. Among these emerging therapies, the use of biologic eye drops derived from both human peripheral and umbilical cord blood serum plays a

Additionally, more extensive research is needed to understand its effectiveness in treating specific eye conditions comprehensively [9].

Looking ahead, advancements in biotechnology and medical research may pave the way for more streamlined and cost-effective methods of producing human serum eye drops [10]. Further