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Introduction

The human eye is a marvel of biological engineering, often referred to as the window to the soul. It is our primary sensory organ for vision, allowing us to perceive the world around us in intricate detail. Eye anatomy is a complex and fascinating subject, as the eye's structure and function are finely tuned to capture, process, and transmit visual information to the brain [1]. In this comprehensive guide, we will explore the intricate anatomy of the eye, from its outermost layer to its innermost workings. The eye is often referred to as the "window to the soul," and rightly so, as it serves as our primary organ for the sense of sight, enabling us to perceive and interpret the world around us. The intricate and highly specialized anatomy of the eye is a testament to the complexity of the visual system and its importance in our daily lives.

The human eye, like a well-designed optical instrument, consists of multiple interconnected structures that work in harmony to capture, focus, and transmit light signals to the brain for interpretation [2].

Understanding the anatomy of the eye is essential for a multitude of reasons. It not only deepens our appreciation for the marvel of nature's

cornea or lens, causing distorted and blurred vision.

Cataracts: Clouding of the eye's natural lens, leading to impaired vision.

Glaucoma: A group of eye diseases that damage the optic nerve, often due to increased intraocular pressure.

Macular degeneration:

6. Olson MC, Korb DR, Greiner JV (2003) following treatment with warm compresses in patients with meibomian gland dysfunction. *Eye Contact Lens* 29: 96-99.
7. Goto E, Monden Y, Takano Y, Mori A, Shimmura S et al. (2002) Treatment of compression device. *Br J Ophthalmol* 86: 1403-1407.
8. Greiner JV (2013) Long-term (12-month) improvement in meibomian gland functions and reduced dry eye symptoms with a single thermal pulsation treatment. *Clin Exp Ophthalmol* 41: 524-530.
9. Murakami DK, Blackie CA, Korb DR (2015) All Warm Compresses Are Not