

TWOP News

TWOP News exclusively delivering informations, ideas and connects people in The World of Optometry

World of optometry

Source: American Optometry Association

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About your eyes:

- In a relaxed state, the eye has an optical power of approximately 60 diopters (D), a focal length of 16.7mm in air. Unite
- is about 40D or 2/3rd of The power of the c the total power.
- The cornea is a highly transparent structure that allows light that is above 95% in the spectral range of 400-900nm to be transmitted through the structure.
- This is mainly due to the orderly arrangement of collagen fibrils in the cornea.

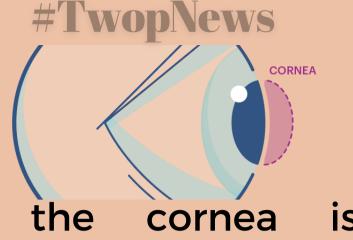






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- The refractive index is of n≈1.3765±0.0005. (mited
- The pupil size which varies from 1.5mm and 8mm can be regulated by the volume of light reaching the retina.
- World of optometry • The anterior chamber of the eye is filled with a
- clear liquid that has an approximate refractive index of n≈1.3335.
- This structure is located between the cornea and the lens capsule.



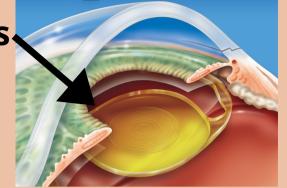




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About your eyes: Lens



- Next is the **crystalline lens** which is situated behind the **iris** and is made up of specialized crystalline proteins that constitute a refractive index of n=1.40-1.42.
- This lens is approximately 4mm thick and 10mm in diameter attached in a tough, relatively thin of 5-15mm, transparent collagenous capsule.
- When the eye is relaxed the lens, power is 20D however when fully accommodated, the lens can expand and its power increasing. to 33D.

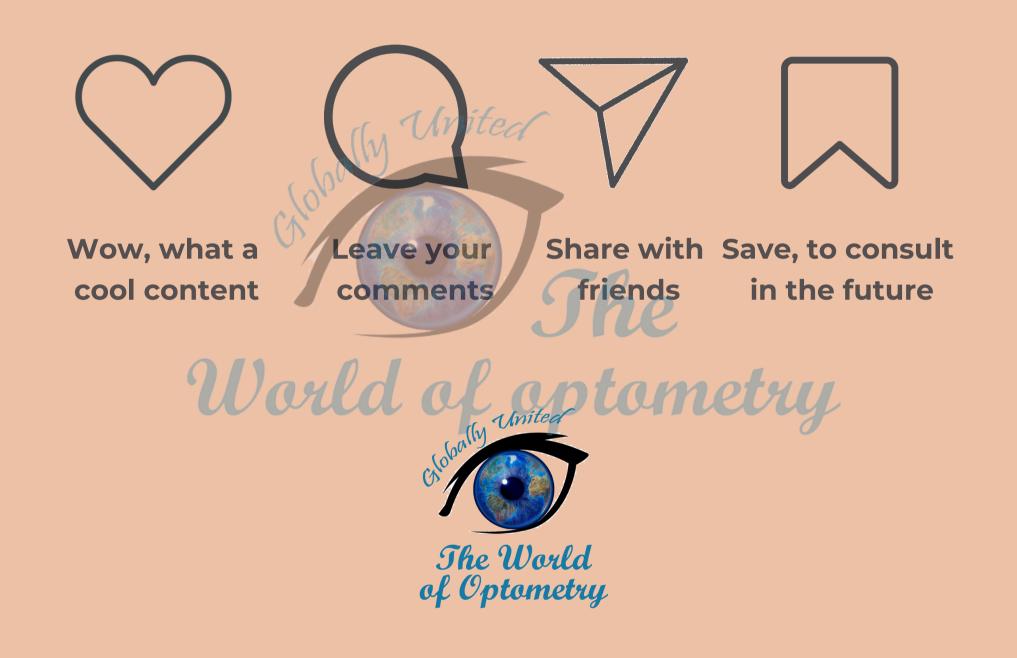


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About your eyes:

- Situated after the lens is the vitreous humor which is also a clear or transparent fluid that has a viscosity of gel-like and a refractive index of n≈1.335.
- This jelly-like substance fills up the large cavity posterior to the lens and anterior to the retina.
- The retina is a thin layer of tissue that lines the back of the eye on the inside. It is located near the optic nerve.







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