



Multiple Causes of Blurry Vision

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The eyes are unit by itself, from eyelids to optic nerve form this unit. The middle components are devoid of blood supply, the eyelids are derived from skin tissue and hence supplied with blood capillaries and retina is also richly supplied with blood vessels. Eye is most highly developed sensory organs, and connected with brain to compute the image from the signal sent by the lens through optic nerve. In fact, a larger part of the brain is dedicated to vision (the optic lobes). If there is anything wrong in sending signal to the brain it cannot compute the right image and the true function is lost.

There are multiple reasons for blurry vision. Blurred vision can be temporary or permanent, with the condition worsening over time. The precise geometry for image formation is lost due to re-adjustment of optic muscles which hold the eyeball and cause refraction errors. Due to refraction errors, such as nearsightedness, farsightedness, and astigmatism, one may have blurring vision. But eye remains as a unit is healthy. Other vision problems may be related to eye disease such as dry eyes, scratched cornea, retinal detachment, macular degeneration, cataracts, and glaucoma are disorders of the functional eye and its processing units. These problems can also lead to blurry or defective vision.

Certain physiological conditions such as, dehydration, hunger, diabetes Can also cause blurry vision.

Blurry vision may also be there due to pregnancy, this is due to oversaturation of estrogen* receptors in the lens. If this is the only reason, one can take it lightly. However, if it is due to preeclampsia, it could be a dangerous condition. It can have serious, life-threatening effects on you and your baby. Preeclampsia may not cause any symptoms, but blurry vision and other sight changes such as seeing flashing lights or spots could be clues that you have it.

The final processing of the image formation takes place in the brain; the brain associated problems can be the cause of burring vision. Blurry vision is not the first sign of the nerve disease. But as it gets worse, it can affect sight. That's because the condition may change how your eyes move. As your sight seems less sharp, you may strain your eyes because they have to work harder to focus.

One of the key signs of stroke is a sudden, painless change in eyesight- blurry or double vision. Blurry vision, pain and sensitiv-

ity to light are the signs even before a migraine starts. These symptoms may last until migraine is over. Blurry vision is often one of the earliest symptoms of multiple sclerosis (MS). The disease causes inflammation along the optic nerve that connects eyes to the brain. That causes a condition called optic neuritis, which can give blurry sight, loss of colour vision, and pain during the movement of the eyes. It often happens in just one eye. Another dreadful condition is brain tumour in any part of the brain can make pressure build inside the skull. That can cause many symptoms, including blurred vision.

Psoriasis can affect eyes, too. It can cause a condition called uveitis, when inflammation leads to swelling that causes blurred vision, pain, redness, and sensitivity to light.

*In fact this condition gave me the clue that this may be due to excess of estrogen. During pregnancy, in addition to ovaries, placenta also secretes estrogen. Thus for the first time we could report the presence of estrogen sensitive epithelial cells in the lens [1].

Bibliography

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