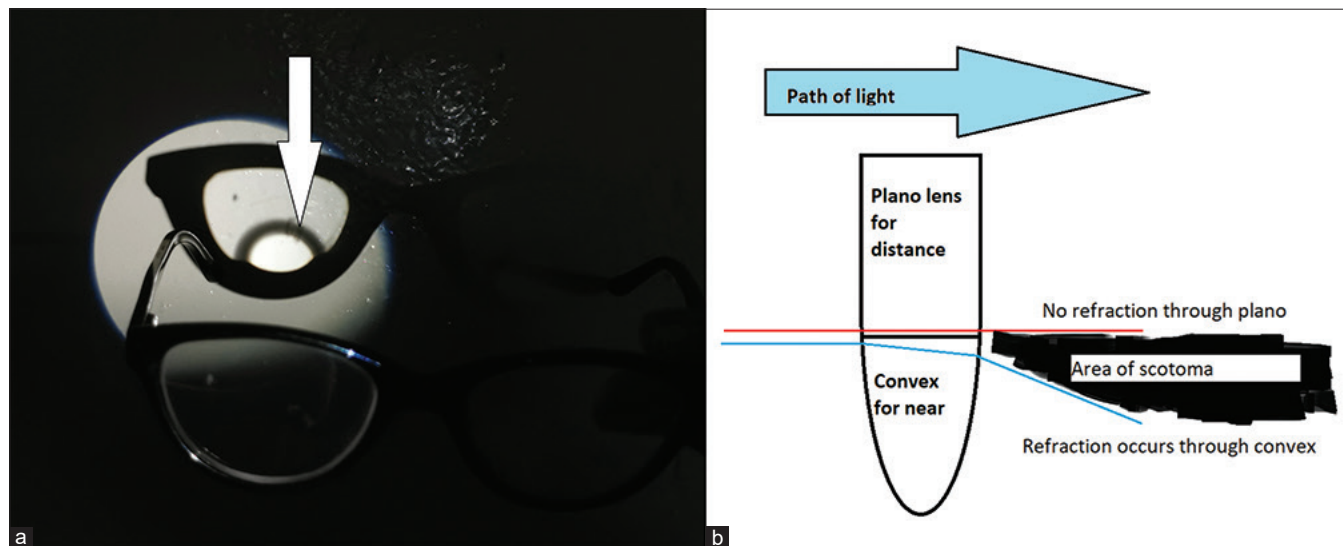


## The bifocal scotoma



**Figure 1:** (a) Light across bifocal glasses showing the scotomatous area (white arrow). (b) Ray diagram explaining the mechanism for the same

An ellipse of the dark area is always seen whenever the light is allowed to pass through bifocal glasses [Fig. 1a- white arrow]. This ellipse corresponds to the junction of the distant and near lenses and we believe it to cause some form of scotoma to the person whose mechanism [Fig. 1b] we hypothesize to be very similar to roving ring scotoma,<sup>[1]</sup> in case of aphakic glasses. Differential refraction, causing differential prismatic deflection, at the junction of 2 optically dissimilar surfaces forms a scotoma between the 2 zones as shown. The same mechanism partly also contributes to negative dysphotopsias.<sup>[2]</sup>

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### Conflicts of interest

There are no conflicts of interest.

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