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## Debunking Medical Myths: Can Blue Light Glasses Save Your **Eyesight?**

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## **Red Group 42**



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## Can blue light glasses save your eyesight?



of computer users experience eye strain or eye fatigue

According to the American Academy of Ophthalmology, light coming from a computer has never been demonstrated to cause any eye disease.



Studies show blue light lenses partially block high energy, short wavelength blue light emitting from screens, but...

...in a systematic review, only a small subset of blue-light lenses tested had any clinical effects.



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involve implantation of a synthetic blue-light lenses, despite lack of evidence of macular protection Blue-light glasses do not harm performance on visual tasks, like color differentiation (FM 100-hue test) and night vision

Based on the best up-to-date research, it is inconclusive that blue-light filtering lenses impart any retinal protection or prevent age-related eye disease

Downie LE, Busija L, Keller PR. Blue-light filtering intraocular lenses (IOLs) for protecting macular health. Cochrane Database Syst Rev. 2018;5(5):CD011977. Published 2018 May 22. doi:10.1002/14651858.CD011977.pub2 .awrenson JG, Hull CC, Downie LE. The effect of blue-light blocking spectacle lenses on visual performance, macular health and the sleep-wake cycle: a systematic review of the literature. Ophthalmic Physiol Opt. 2017;37(6):644-654.doi:10.1111/opo.12406 .eung TW, Li RW, Kee CS. Blue-Light Filtering Spectacle Lenses: Optical and Clinical Performances. PLoS One. 2017;12(1):e0169114. Published 2017 Jan 3. doi:10.1371/journal.pone.0169114