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Debunking Medical Myths: Blue Light Blocking Lenses Prevent Eye Strain

Omar Abbas Wayne State University School of Medicine, gg4885@wayne.edu

Mariam Abdelmesih *Wayne State University School of Medicine*, hi1622@wayne.edu

Jhonny Lopez Wayne State University School of Medicine, hj2158@wayne.edu

Bhavana Garapati Wayne State University School of Medicine, ga1076@wayne.edu

Shreya Balusu Wayne State University School of Medicine, hi3843@wayne.edu

See next page for additional authors

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Authors

Omar Abbas, Mariam Abdelmesih, Jhonny Lopez, Bhavana Garapati, Shreya Balusu, and Ahmad Khatib

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Orange 30 Ahmad Khatib, Bhavana Garapati, Jhonny Llopez, Omar Abbas, Mariam Abdelmesih, Shreya Balusu

Blue Light Blocking Lensesa Myth? Let's SPECULATE

"Blue light blocking lenses prevent eye strain!"

There is a lack of quality and consistent evidence supporting blue light blocking lenses for alleviating eye strain in the general population¹ or even for those with age-related macular disorders²

"Blue light blocking lenses improve sleep quality!"

MYTH!

MYTH!

Once again, there is a lack of quality and consistent evidence supporting blue light blocking lenses for improving sleep quality in the general population¹ or even for those with age-related macular disorders²

...even surgically implanted blue-blocking lenses do not pose a significant impact on sleep quality³

"But they can be good for you, right!?"

MAYBE, DEPENDS ON WHO YOU ARE!

Those with self-reported insomnia did show MINOR improvements in sleep quality¹

...and blue light blocking lenses may POTENTIALLY improve mood

for elderly populations needing cataract surgery³

References

 Lawrenson 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

2. Vagge A, Ferro Desideri L, Del Noce C, Di Mola I, Sindaco D, Traverso CE. Blue light filtering ophthalmic lenses: A systematic review. Semin Ophthalmol. 2021;36(7):541-548. doi:10.1080/08820538.2021.1900283

 Zambrowski O, Tavernier E, Souied EH, et al. Sleep and mood changes in advanced age after blue-blocking (yellow) intra ocular lens (IOLs) implantation during cataract surgical treatment: a randomized controlled trial. Aging Ment Health. 2018;22(10):1351-1356. doi:10.1080/13607863.2017.1348482