Eye Disease, Integrative Vision Care, and Nutrition

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Complete References

1. Kumar DM, Agarwal N. Oxidative stress in glaucoma: a burden of evidence. *J Glaucom*, May 2007;16(3):334-43.
2. Rokicki W, et al. Oxidative stress in the red blood cells of patients with primary open-angle glaucoma. *Clin Hemmorheol and Microcir*. January 27, 2016;62(4):369-78.
3. Xu P, et al, Ascorbic acid modulation of iron homeostasis and lysosomal function in trabecular meshwork cells. *Journal of Ocular Pharmacology and Therapeutics*. March-April 2014.
4. Majeed M, et al. Efficacy and safety of 1% forskolin eye drops in open angle glaucoma - An open label study. *Saudi Journal of Ophthalmology*. July 2015.
5. Meyer BH, et al. The effects of forskolin eye drops on intra-ocular pressure. *South African Medical Journal*. June 1987.
6. Williams PA, et al. Vitamin B3 modulates mitochondrial vulnerability and prevents glaucoma in aged mice. *Science*. February 2017.
7. Christen WG, et al. Folic acid plus B-vitamins and age-related macular degeneration in a randomized trial in women. *Invest Ophthalmol Vis Sci*. 2007;48:1152.
8. Kang JH, et al, Association of Dietary Nitrate Intake With Primary Open-Angle Glaucoma: A Prospective Analysis From the Nurses' Health Study and Health Professionals Follow-up Study. *JAMA Opthamology*. January 2016.
9. Acute Dynamic Exercise Reduces Intraocular Pressure, Medicine Faculty, Ataturk U., Turkey. July 1999
10. Passo MS, et al. Exercise training reduces intraocular pressure among subjects suspected of having glaucoma. *Archives of Ophthalmology*. 1991 Aug;109(8):1096-8.
11. Harris, et al. Correlates of acute exercise-induced ocular hypotension. *Invest Ophthalmol Vis Sci*. 1994 Oct;35(11):3852-7.
12. Qureshi IA. Effects of mild, moderate and severe exercise on intraocular pressure of sedentary subjects. Rawalpindi Medical College Journal (Pakistan). 1995;22 (6):545-553.

13. Viera GM, et al. Intraocular Pressure Variation During Weight Lifting. *Archives of Ophthalmology*. 2006;124 (9): 1251-54.
14. Jasien JV, et al. Intraocular Pressure Rise in Subjects with and without Glaucoma during Four Common Yoga Positions. *PLOS*. December 2015.
15. Thornton J, et al, Smoking and age-related macular degeneration: a review of association. *Eye*. September 2005.
16. Keenan TD, et al, Assessment of Proteins Associated With Complement Activation and Inflammation in Maculae of Human Donors Homozygous Risk at Chromosome 1 CFH-to-F13B. *Investigative Opthalmology and Visual Science*. July 2015.
17. Andriessen EM, et al, Gut microbiota influences pathological angiogenesis in obesity-driven choroidal neovascularization. *EMBO Molecular Medicine*. December 2016.
18. Otsuka T, et al, Protective effects of a dietary carotenoid, astaxanthin, against light-induced retinal damage. *Journal of Pharmaceutical Science*. October 2013.
19. Lee CS, et al. Resveratrol Inhibits Hypoxia-Induced Vascular Endothelial Growth Factor Expression and Pathological Neovascularization. Yonsei Med J. 2015 Nov;56(6):1678-8.
20. Huiming Zhang, et al. SIRT1 mediated inhibition of VEGF/VEGFR2 signaling by Resveratrol and its relevance to choroidal neovascularization. *Cytokine*. 2015 Dec;76(2):549-55.
21. San Giovanni JP, et al. *American Journal of Clinical Nutrition*. 2009.
22. Ryoji Yanai, et al. Cytochrome P450-generated metabolites derived from omega-3 fatty acids attenuate neovascularization. *Proceedings of the National Academy of Sciences*. June 2014.
23. Mance TC, et al, The role of omega6 to omega3 ratio in development and progression of age-related macular degeneration. *Collegium, Antropologicum*. September 2011.
24. Millen AE, et al. Association between Vitamin D status and Age-Related Macular Degeneration by Genetic Risk. *JAMA Ophthalmol*. 2015 Oct;133(10):1171-9 2015.
25. Lee V, et al, Vitamin D rejuvenates aging eyes by reducing inflammation, clearing amyloid beta and improving visual function. *Neurobiology of Aging*. October 2012.
26. Appleby PN, Allen NE, Key TJ. Diet, vegetarianism, and cataract risk. *American Journal of Clinical Nutrition*. March 2011.
27. Christen WG, et al. Fruit and vegetable intake and the risk of cataract in women, *American Journal of Clinical Nutrition*. June 2005.
28. Head KA. Natural therapies for ocular disorders, part two: cataracts and glaucoma. *Alternative Medicine Review*. April, 2001.
29. Vitamin C & cataract study http://www.naturaleyecare.com/study.asp?s_num=220
30. Vitamin C & cataract studies http://www.naturaleyecare.com/study.asp?s_num=56
31. Glutathione & cataract studies http://www.naturaleyecare.com/study.asp?s_num=426
32. Sedaghat F, et al. Nutrient patterns and risk of cataract: a case-control study. *Int J Ophthalmol*. Apr 18, 2017;10(4):586–592.
33. Leske MC, Chylack LT, Wy SY. The Lens Opacities Case-Control Study. Risk factors for cataract. *Arch Ophthalmol*. Feb 1991;109(2):
34. Wohlhagen JC, et al. Antioxidant eye drops provide another option for cataract patients, *Healio*. October 2015.
35. B vitamins & cataract study http://www.naturaleyecare.com/study.asp?s_num=221
36. Stem cell study http://www.naturaleyecare.com/study.asp?s_num=423

37. Shetty R, et al. Corneal dendritic cell density is associated with sub-basal nerve plexus features, ocular surface disease index, and serum vitamin D in evaporative dry eye disease. *BioMed Res Int*. 2016:4369750.
38. Denurcum G, et al. Dry eye assessment in patients with vitamin D deficiency. *Eye Contact Lens*. September 22 2016.
39. Nejabat M, et al. Efficacy of green tea extract for treatment of dry eye and meibomian gland dysfunction; A double-blind randomized controlled clinical trial study. *J Clin Diagn Res*. Feb 2017;11(2):NC05-NC08.
40. Epitropoulous AT, et al. Effect of Oral Re-esterified Omega-3 Nutritional Supplementation on Dry Eyes. Cornea, September 2016;35(9):1185-91.
41. Miljanovic B, et al. Relation between dietary n-3 and n-6 fatty acids and clinically diagnosed dry eye syndrome in women. *Am J Clin Nutr*. Oct 2005;82(4):887-93.
42. Dry Eye Assessment and Management Study Research Group. n−3 Fatty Acid Supplementation for the Treatment of Dry Eye Disease. *N Engl J Med*. April 13, 2018.
43. Baudouin C. Dry eye: An unexpected inflammatory disease. *Arch Soc Esp Oftalmol*. 1986;76: 205-206.
44. Yamaguchi T. Inflammatory Response in Dry Eye. *Invest Ophthalmol Vis Sci*. November 2018;59(14):DES192-DES199.
45. Masoud RM, et al. Prevalence of dry eye syndrome and diabetic retinopathy in type 2 diabetic patients. *BMC Ophthalmol*. June 2, 2008;8:10.
46. Kawashima M, et al. The Association between dry eye disease and physical activity as well as sedentary behavior: Results from the Osaka study. *J Ophthalmol*. 2014.
47. Pirie A. A light-catalysed reaction in the aqueous humor of the eye. *Nature*. 1965;205:500–501.
48. Takano S, et al. Determination of ascorbic acid in human vitreous humor by high-performance liquid chromatography with UV detection. *Curr Eye Res*. 1997;16(6):589–594.
49. Eaton JW. Is the lens canned? *Free Radic Biol Med.* 1991;11(2):207–213.
50. Brewton RG, Mayne R. Mammalian vitreous humor contains networks of hyaluronan molecules: electron microscopic analysis using the hyaluronan-binding region (G1) of aggrecan and link protein. *Exp Cell Res*. February 1992;198(2):237-49.
51. Jumper JM, et al. Aqueous hyaluronic acid concentration: comparison in pediatric and adult patients. *Curr Eye Res*. October 1997;16(10):1069-71.