

# Tobacco in Australia

## Facts & Issues

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### Relevant news and research

#### 3.10 Eye diseases

*Last updated September 2019*

#### Research:

Ciesielski, M, Rakowicz, P, & Stopa, M. (2019). Immediate effects of smoking on optic nerve and macular perfusion measured by optical coherence tomography angiography. *Sci Rep*, 9(1), 10161. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/31308472>

Hayek, G, Luc, MS, Bloch, F, Vermion, JC, Lhuillier, L, Zaidi, M et al. (2019). Tobacco smoking in crosslinked keratoconus patients. *J Fr Ophtalmol*. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/31204085>

Escriba Pastor, E, Sanz Gonzalez, SM, Torregrosa, S, Pinazo Duran, MD, Benitez-Del-Castillo, J, Ramirez-Sebastian, AI, & Zanon Moreno, V. (2019). Evaluation of the retinal nerve fiber layer thickness in smokers. *Arch Soc Esp Oftalmol*, 94(4), 157-159. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30871738>

Fernandes, TP, Silverstein, SM, Almeida, NL, & Santos, NA. Visual impairments in tobacco use disorder. *Psychiatry Res*, 2018. 271, 60-67. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30469090>

Miao, Q, Xu, Y, Zhang, H, Xu, P, & Ye, J. Cigarette smoke induces ROS mediated autophagy impairment in human corneal epithelial cells. *Environ Pollut*, 2018. 245, 389-397. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30453137>

Niven, TCS, Azhany, Y, Rohana, AJ, Karunakar, TVN, Thayanithi, S, Jelinar Noor, MN et al. Cigarette Smoking on Severity of Primary Angle Closure Glaucoma in Malay Patients. *J Glaucoma*. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30461551>

Roos, JCP, Paulpandian, V, & Murthy, R. Serial TSH-receptor antibody levels to guide the management of thyroid eye disease: the impact of smoking, immunosuppression, radio-iodine, and thyroidectomy. *Eye (Lond)*, 2018. Available from: <https://www.nature.com/articles/s41433-018-0242-9>

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Cankurtaran, V, Tekin, K. Cumulative Effects of Smoking and Diabetes Mellitus on Corneal Endothelial Cell Parameters. Cornea, Aug 2018. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30124593>

Law SM, Lu X, Yu F, Tseng V, Law SK, et al. Cigarette smoking and glaucoma in the united states population. Eye (Lond), 2018. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29303150>

Rim TH, Kim DW, Cheng CY, and Kim SS. Protective effect of smoking against pterygium development in men: A nationwide longitudinal cohort study in south korea. BMJ Open, 2017; 7(11):e017014. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29187410>

Allen GL. Re: Letter to the editor in response to 'the effect of smoking on the risk of primary open-angle glaucoma: An updated meta-analysis of six observational studies'. Public Health, 2017. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29195683>

Aktas S, Tetikoglu M, Kocak A, Kocacan M, Aktas H, et al. Impact of smoking on the ocular surface, tear function, and tear osmolarity. Curr Eye Res, 2017;1-5. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/28937831>

Zhou Y, Zhu W, and Wang C. The effect of smoking on the risk of primary open-angle glaucoma: An updated meta-analysis of six observational studies. Public Health, 2016. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/27527843>

Xu L, Zhang W, Zhu XY, Suo T, Fan XQ, et al. Smoking and the risk of dry eye: A meta-analysis. Int J Ophthalmol, 2016; 9(10):1480-6. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/27803868>

Wang SZ, Tong QH, Wang HY, Lu QK, and Xu YF. The association between smoking and epiretinal membrane. Sci Rep, 2016; 6:38038. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/27897264>

Uchino Y, Uchino M, Yokoi N, Dogru M, Kawashima M, et al. Impact of cigarette smoking on tear function and correlation between conjunctival goblet cells and tear muc5ac concentration in office workers. Sci Rep, 2016; 6:27699. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/27297822>

Stone DU. Tobacco smoking and blindness - the ignored epidemic. Saudi J Ophthalmol, 2016; 30(3):149. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/28210173>

Song E, Sun HP, Xu Y, and Pan CW. Cigarette smoking and pterygium: A propensity score matching analysis. Optom Vis Sci, 2016. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/26889819>

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---

Sadeghi-Tari A, Jamshidian-Tehrani M, Nabavi A, Sharif-Kashani S, Elhami E, et al. Effect of smoking on retrobulbar blood flow in thyroid eye disease. Eye (Lond), 2016. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/27540833>

Nita M and Grzybowski A. Smoking and eye pathologies. A systemic review. Part i. Anterior eye segment pathologies. Curr Pharm Des, 2016. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/27897118>

Moschos MM, Nitoda E, Laios K, Ladas DS, and Chatziralli IP. The impact of chronic tobacco smoking on retinal and choroidal thickness in greek population. Oxid Med Cell Longev, 2016; 2016:2905789. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/26885247>

Lee K, Hong S, Seong GJ, and Kim CY. Cigarette smoke extract causes injury in primary retinal ganglion cells via apoptosis and autophagy. Curr Eye Res, 2016:1-6. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/27044350>

Langford-Smith A, Tilakaratna V, Lythgoe PR, Clark SJ, Bishop PN, et al. Age and smoking related changes in metal ion levels in human lens: Implications for cataract formation. PLoS ONE, 2016; 11(1):e0147576. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/26794210>

Kilavuzoglu AE, Celebi AR, Altiparmak UE, and Cosar CB. The effect of smoking on corneal biomechanics. Curr Eye Res, 2016:1-5. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/27261446>

Kantarci FA, Tatar MG, Colak HN, Uslu H, Yildirim A, et al. A pilot study of choroidal thickness in long-term smokers. Retina, 2016; 36(5):986-91. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/27115859>

Jain V, Jain M, Abdull MM, and Bastawrous A. The association between cigarette smoking and primary open-angle glaucoma: A systematic review. Int Ophthalmol, 2016. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/27138591>

Erginturk Acar D, Acar U, Ozen Tunay Z, Ozdemir O, and Germen H. The effects of smoking on dry eye parameters in healthy women. Cutan Ocul Toxicol, 2016:1-4. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/26822974>

Elliott D, Stryjewski TP, Andreoli MT, and Andreoli CM. Smoking is a risk factor for proliferative vitreoretinopathy after traumatic retinal detachment. Retina, 2016. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/27787448>

tobaccoinaustralia.org.au

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## Facts & Issues

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Cakir B, Celik E, Dogan E, and Alagoz G. Evaluation of retinal ganglion cell-inner plexiform layer complex in healthy smokers. *Int Ophthalmol*, 2016. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/27665611>

Bardak H, Gunay M, Bardak Y, Ercalik Y, Imamoglu S, et al. Evaluation of the acute changes in objective accommodation, pupil size and ocular wavefront aberrations after cigarette smoking. *Cutan Ocul Toxicol*, 2016;1-4. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/26878930>

Aksoy Y, Diner O, Sevinc MK, and Kaya A. Comment on: Choroidal thickness is affected by smoking and mydriatics. *Indian J Ophthalmol*, 2016; 64(1):100-1. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/26953039>

Yuen BG, Tham VM, Browne EN, Weinrib R, Borkar DS, et al. Association between smoking and uveitis: Results from the pacific ocular inflammation study. *Ophthalmology*, 2015. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25835263>

Vahedian Z, Amini H, Tehrani MH, Zarei R, Moghimi S, et al. Retinal venous pressure in chronic smokers. *EPMA J*, 2015; 6(1):8. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25926905>

Kara S, Gencer B, Turkon H, Ersan I, Ozkanoglu Ekim Y, et al. The effect of smoking on corneal endothelial cells. *Semin Ophthalmol*, 2015:1-5. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/26291647>

Ilhan N, Ilhan O, Coskun M, Daglioglu MC, Ayhan Tuzcu E, et al. Effects of smoking on central corneal thickness and the corneal endothelial cell layer in otherwise healthy subjects. *Eye Contact Lens*, 2015. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/26618903>

Giordano L, Deceglie S, d'Adamo P, Valentino ML, La Morgia C, et al. Cigarette toxicity triggers leber's hereditary optic neuropathy by affecting mtDNA copy number, oxidative phosphorylation and ROS detoxification pathways. *Cell Death Dis*, 2015; 6:e2021. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/26673666>

Demirci S, Gunes A, Kutluhan S, Tok L, and Tok O. The effect of cigarette smoking on retinal nerve fiber layer thickness in patients with migraine. *Cutan Ocul Toxicol*, 2015:1-5. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25597373>

Asfar T, Lam BL, and Lee DJ. Smoking causes blindness: Time for eye care professionals to join the fight against tobacco. *Invest Ophthalmol Vis Sci*, 2015; 56(2):1120-1. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25680974>

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## Facts & Issues

---

Arda H, Mirza GE, Polat OA, Karakucuk S, Oner A, et al. Effects of chronic smoking on color vision in young subjects. *Int J Ophthalmol*, 2015; 8(1):77-80. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25709912>

Ulas F, Celik F, Dogan U, and Celebi S. Effect of smoking on choroidal thickness in healthy smokers. *Curr Eye Res*, 2014; 39(5):504-11. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/24215308>

Sayin N, Kara N, Pekel G, and Altinkaynak H. Effects of chronic smoking on central corneal thickness, endothelial cell, and dry eye parameters. *Cutan Ocul Toxicol*, 2014; 33(3):201-5. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/24147943>

Rose K, Flanagan JG, Patel SR, Cheng R, and Hudson C. Retinal blood flow and vascular reactivity in chronic smokers. *Invest Ophthalmol Vis Sci*, 2014; 55(7):4266-76. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/24801513>

Rong SS, Peng Y, Liang YB, Cao D, and Jhanji V. Does cigarette smoking alter the risk of pterygium? A systematic review and meta-analysis. *Invest Ophthalmol Vis Sci*, 2014; 55(10):6235-43. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25190665>

Kunchulia M, Pilz KS, and Herzog MH. Small effects of smoking on visual spatiotemporal processing. *Sci Rep*, 2014; 4:7316. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25471068>

Klein R, Lee KE, Gangnon RE, and Klein BE. Relation of smoking, drinking, and physical activity to changes in vision over a 20-year period: The beaver dam eye study. *Ophthalmology*, 2014; 121(6):1220-8. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/24594095>

Kar T, Ayata A, Aksoy Y, Kaya A, and Unal M. The effect of chronic smoking on lens density in young adults. *Eur J Ophthalmol*, 2014; 24(5):682-7. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/24604605>

Jetton JA, Ding K, Kim Y, and Stone DU. Effects of tobacco smoking on human corneal wound healing. *Cornea*, 2014; 33(5):453-6. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/24619165>

Dervisogullari MS, Totan Y, Tenlik A, and Yuce A. Effects of cigarette smoking on choroidal and retinal thickness and ocular pulse amplitude. *Cutan Ocul Toxicol*, 2014:1-5. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25198410>

Chiotoroiu S, Noaghi M, Stefaniu G, Secureanu F, Purcarea V, et al. Tobacco-alcohol optic neuropathy - clinical challenges in diagnosis. *J Med Life*, 2014; 7(4):472-6. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25713605>

tobaccoinaustralia.org.au

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## Facts & Issues

Bilgin AB, Turkoglu EB, Ilhan HD, Unal M, and Apaydin KC. Is smoking a risk factor in ocular behcet disease? *Ocul Immunol Inflamm*, 2014. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/24734915>

### *3.10.1 Cataract*

Beltran-Zambrano, E, Garcia-Lozada, D, & Ibanez-Pinilla, E. Risk of cataract in smokers: A meta-analysis of observational studies. *Arch Soc Esp Oftalmol*, 2018. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30528895>

Goutham G, Manikandan R, Beulaja M, Thiagarajan R, Arulvasu C, et al. A focus on resveratrol and ocular problems, especially cataract: From chemistry to medical uses and clinical relevance. *Biomed Pharmacother*, 2017; 86:232-41. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/28006748>

Lindblad BE, Hakansson N, and Wolk A. Smoking cessation and the risk of cataract: A prospective cohort study of cataract extraction among men. *JAMA Ophthalmol*, 2014; 132(3):253-7. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/24385206>

Tan J, Wang J, Younan C, Cumming R, Rochtchina E, et al. Smoking and the long-term incidence of cataract: The blue mountains eye study. *Ophthalmic Epidemiology*, 2008; 15(3):155–61. Available from: <http://www.informaworld.com/smpp/content~db=all?content=10.1080/09286580701840362>

### *3.10.2 Age-related macular degeneration*

Zhu, Q, Liu, M, He, Y, & Yang, B. (2019). Quercetin protect cigarette smoke extracts induced inflammation and apoptosis in RPE cells. *Artif Cells Nanomed Biotechnol*, 47(1), 2010-2015. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/31122072>

Wang, Y, Tran, T, Firl, K, Huang, N, Yasin, O, van Kuijk, F, & Montezuma, SR. (2019). Quantitative fundus autofluorescence in smokers compared to non-smokers. *Exp Eye Res*, 184, 48-55. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30991052>

Kamao, H, Goto, K, Mito, Y, Miki, A, & Kiryu, J. Effects of Smoking on Outcomes of Antivascular Endothelial Growth Factor Therapy in Patients with Neovascular Age-Related Macular Degeneration Smoking and Anti-VEGF Therapy in nAMD. *J Ophthalmol*, 2018, 2353428. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30538852>

Rim TH, Cheng CY, Kim DW, Kim SS, and Wong TY. A nationwide cohort study of cigarette smoking and risk of neovascular age-related macular degeneration in east asian men. *Br J Ophthalmol*, 2017. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/28292774>

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McGuinness MB, Karahalios A, Kasza J, Guymer RH, Finger RP, et al. Survival bias when assessing risk factors for age-related macular degeneration: A tutorial with application to the exposure of smoking. *Ophthalmic Epidemiol*, 2017;1-10. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/28287849>

Kim EK, Kim H, Vijayakumar A, Kwon O, and Chang N. Associations between fruit and vegetable, and antioxidant nutrient intake and age-related macular degeneration by smoking status in elderly korean men. *Nutr J*, 2017; 16(1):77. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29202844>

El-Shazly AA, Farweez YA, Elzankalony YA, Elewa LS, and Farweez BA. Effect of smoking on macular function and structure in active smokers versus passive smokers. *Retina*, 2017. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/28368973>

Duman R, Sabaner MC, and Cetinkaya E. Effect of smoking on the thickness of retinal layers in healthy smokers. *Cutan Ocul Toxicol*, 2017;1-4. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/28277878>

Merl-Pham J, Gruhn F, and Hauck SM. Proteomic profiling of cigarette smoke induced changes in retinal pigment epithelium cells. *Adv Exp Med Biol*, 2016; 854:785-91. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/26427490>

Brandl C, Breinlich V, Stark KJ, Enzinger S, Assenmacher M, et al. Features of age-related macular degeneration in the general adults and their dependency on age, sex, and smoking: Results from the german kora study. *PLoS ONE*, 2016; 11(11):e0167181. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/27893849>

Lechanteur YT, van de Camp PL, Smailhodzic D, van de Ven JP, Buitendijk GH, et al. Association of smoking and cfh and arms2 risk variants with younger age at onset of neovascular age-related macular degeneration. *JAMA Ophthalmol*, 2015. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25695752>

Gopinath B, Flood VM, Kifley A, Liew G, and Mitchell P. Smoking, antioxidant supplementation and dietary intakes among older adults with age-related macular degeneration over 10 years. *PLoS ONE*, 2015; 10(3):e0122548. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25822372>

Swanson MW. Smoking deception and age-related macular degeneration. *Optom Vis Sci*, 2014; 91(8):865-71. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/24978870>

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Sigler EJ, Randolph JC, Calzada JI, and Charles S. Smoking and choroidal thickness in patients over 65 with early-atrophic age-related macular degeneration and normals. *Eye (Lond)*, 2014; 28(7):838-46. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/24833184>

Myers CE, Klein BE, Gangnon R, Sivakumaran TA, Iyengar SK, et al. Cigarette smoking and the natural history of age-related macular degeneration: The beaver dam eye study. *Ophthalmology*, 2014; 121(10):1949-55. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/24953792>

Velilla S, Garcia-Medina JJ, Garcia-Layana A, Dolz-Marco R, Pons-Vazquez S, et al. Smoking and age-related macular degeneration: Review and update. *J Ophthalmol*, 2013; 2013:895147. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/24368940>

Erie J, Good J, Butz J, Hodge D, and Pulido J. Urinary cadmium and age-related macular degeneration. *American Journal of Ophthalmology*, 2007; 144(3):414–8. Available from: [http://www.sciencedirect.com/science?\\_ob=ArticleURL&\\_udi=B6VK5-4P5YK6V-1&\\_user=10&\\_rdoc=1&\\_fmt=&\\_orig=search&\\_sort=d&\\_view=c&\\_acct=C000050221&\\_version=1&\\_urlVersion=0&\\_userid=10&md5=97ec232c25297c1b06806acb25e0d24a](http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6VK5-4P5YK6V-1&_user=10&_rdoc=1&_fmt=&_orig=search&_sort=d&_view=c&_acct=C000050221&_version=1&_urlVersion=0&_userid=10&md5=97ec232c25297c1b06806acb25e0d24a)

Thornton J, Edwards R, Mitchell P, Harrison R, Buchan I, et al. Smoking and age-related macular degeneration: A review of association. *Eye*, 2005; 19:935-44. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/16151432>

### *3.10.3 Graves' ophthalmopathy*

Kau HC, Wu SB, Tsai CC, Liu CJ, and Wei YH. Cigarette smoke extract-induced oxidative stress and fibrosis-related genes expression in orbital fibroblasts from patients with graves' ophthalmopathy. *Oxid Med Cell Longev*, 2016; 2016:4676289. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/27340508>

Bartalena L and Piantanida E. Cigarette smoking: Number one enemy for graves ophthalmopathy. *Pol Arch Med Wewn*, 2016; 126(10):725-6. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/27872448>

### *3.10.4 Ocular inflammatory disease*

Mansouri K, Pajic B, and Hafezi F. Effect of cigarette smoking on intraocular pressure. *J Cataract Refract Surg*, 2015; 41(3):682-3. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25804587>

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### *3.10.5 Other conditions of the eye*

Muhafiz, E, Aslan Bayhan, S, Bayhan, HA, & Gurdal, C. (2019). Effects of chronic smoking on the meibomian glands. *Int Ophthalmol*. Available from:

<https://www.ncbi.nlm.nih.gov/pubmed/31410634>

Fernandes, T P, Silverstein, S M, Almeida, NL, & Santos, NA. Visual impairments in tobacco use disorder. *Psychiatry Research*, 2019. 271, 60-67. Available from:

<https://doi.org/10.1016/j.psychres.2018.11.024>

Stamenkovic, M, Lukic, V, Suvakov, S, Simic, T, Sencanic, I, Pljesa-Ercegovac, M et al. GSTM1-null and GSTT1-active genotypes as risk determinants of primary open angle glaucoma among smokers. *Int J Ophthalmol*, 11(9), 1514-1520. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30225227>

## News reports:

Action on Smoking and Health. Fact sheet No. 22: Smoking and Eye Disease. *ASH*, 2019. Feb 2019. Available from: [http://ash.org.uk/wp-content/uploads/2019/04/ASH-Factsheet\\_Eye-Disease\\_PDF\\_v2.pdf](http://ash.org.uk/wp-content/uploads/2019/04/ASH-Factsheet_Eye-Disease_PDF_v2.pdf)

Mendelsohn A. Taking a stand against hookah smoking on passover, or anytime, in *SunSentinel* 2018. Available from: <http://www.sun-sentinel.com/florida-jewish-journal/health/fl-jjps-hookah-0314-20180312-story.html>.

Heneghan D. Lighting up could leave you in the dark – no smoking day eye health warning, in *Ambulance Today* 2017. Available from: <http://www.ambulancetoday.co.uk/news-item/lighting-up-could-leave-you-in-the-dark-no-smoking-day-eye-health-warning/>.

Access Economics. Clear insight. The economic impact and cost of vision loss in australia.: Eye Research Australia, 2004. Available from: [http://www.cera.org.au/uploads/CERA\\_clearsight.pdf](http://www.cera.org.au/uploads/CERA_clearsight.pdf).

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### *3.10.2 Age-related macular degeneration*

No authors listed. One million brits blighted by avoidable sight loss, in *The Voice* 2017. Available from: <http://www.voice-online.co.uk/article/one-million-brits-blighted-avoidable-sight-loss>.

### *3.10.5 Other conditions of the eye*

Chiu, R. Smoking reduces colour perception. *Insight*, 2019. Mar 27, 2019. Available from: <https://www.insightnews.com.au/Article3/2091/Smoking-reduces-colour-perception>

Carroll, L. Chemical in cigarette smoke may damage important aspect of vision. Reuters, 2018. Sept 19, 2018. Available from <https://uk.reuters.com/article/us-health-vision-contrast/chemical-in-cigarette-smoke-may-damage-important-aspect-of-vision-idUKKCN1LY31X>