

Eye and Vision search category 2018.1-2021.6

- [Cataract and Refractive Surgery](#)
- [Keratoconus](#)
- [Surgery of Astigmatism](#)
- [Cornea and external eye diseases](#)
- [Glaucoma](#)
- [Multidisciplinary Ophthalmic Imaging](#)
- [Retina](#)
- [Artificial intelligence in ophthalmology](#)
- [Ocular oncology](#)
- [Clinical and Epidemiologic Research](#)
- [Molecular genetics and cell biology](#)
- [Others](#)

Cataract and Refractive Surgery

Title	Type	Authors	PubMed
Fundamentals of Presbyopia: visual processing and binocularity in its transformation	Research	Rozanova OI, Shchuko AG, Mischenko TS	Eye Vis (Lond). 2018 Jan 25;5:1. doi: 10.1186/s40662-018-0095-0.
Scleral surgery for the treatment of presbyopia: where are we today?	Research	Hipsley A, Hall B, Rocha KM	Eye Vis (Lond). 2018 Feb 26;5:4. doi: 10.1186/s40662-018-0098-x.
Comparison of clinical outcomes between femtosecond laser-assisted versus conventional phacoemulsification	Research	Ang RET, Quinto MMS, Cruz EM, Rivera MCR, Martinez GHA	Eye Vis (Lond). 2018 Apr 23;5:8. doi: 10.1186/s40662-018-0102-5.
Intraocular lens power calculation in eyes with previous corneal refractive surgery	Review	Savini G, Hoffer KJ	Eye Vis (Lond). 2018 Jul 8;5:18. doi: 10.1186/s40662-018-0110-5.
Changes in symmetry of anterior chamber following routine cataract surgery in non-glaucomatous eyes	Short report	Lee H, Zukaite I, Juniat V, Dimitry ME, Lewis A, Nanavaty MA	Eye Vis (Lond). 2019 Jul 3;6:19. doi: 10.1186/s40662-019-0144-3.
Progressive cracking technique for phacoemulsification of superhard cataracts: a case report	Case report	Zhao YE, Li Z, Chang P, Wang D, Hu M	Eye Vis (Lond). 2019 Dec 1;6:35. doi: 10.1186/s40662-019-0163-0.
Fine tuning of the default depth and rate of ablation of the epithelium in customized trans-epithelial one-step superficial refractive excimer laser ablation	Research	Goggin M, Stewart P, Andersons V, Criscenti G	Eye Vis (Lond). 2019 Dec 3;6:39. doi: 10.1186/s40662-019-0159-9.
Changes in higher order aberrations after central corneal regularization - a comparative two-year analysis of a semi-automated topography-guided photorefractive keratectomy combined with corneal cross-linking	Research	Katja C. Iselin, Philipp B. Baenninger, Lucas M. Bachmann, et al.	Eye Vis (Lond). 2020 Mar 3;7:10. doi: 10.1186/s40662-020-00179-2.
Measurement of crystalline lens tilt in high myopic eyes before cataract surgery using swept-source optical coherence tomography	Research	Qiang Lu, Wenwen He, Dongjin Qian, et al.	Eye Vis (Lond). 2020 Mar 6;7:14. doi: 10.1186/s40662-020-00176-5.
Decentration and tilt of plate-haptic multifocal intraocular lenses in myopic eyes	Research	Jiaqi Meng, Wenwen He, Xianfang Rong, et al.	Eye Vis (Lond). 2020 Apr 7;7:17. doi: 10.1186/s40662-020-00186-3.

A novel ophthalmic viscosurgical device-free phakic intraocular lens implantation makes myopic surgery safer	Research	An-Peng Pan, Li-Jin Wen, Xu Shao, et al.	Eye Vis (Lond). 2020 Apr 7;7:18. doi: 10.1186/s40662-020-00185-4.
5-year efficacy of all surface laser ablation with cross-linking (ASLA-XTRA) for the treatment of myopia	Research	Ioannis M. Aslanides, Farhad Hafezi, Shihao Chen, et al.	Eye Vis (Lond). 2020 Jun 11;7:31. doi: 10.1186/s40662-020-00198-z.
Safety and visual outcomes following posterior chamber phakic intraocular lens bilensectomy	Research	Veronica Vargas, Jorge L. Alió, Rafael I. Barraquer, et al.	Eye Vis (Lond). 2020 Jul 1;7:34. doi: 10.1186/s40662-020-00200-8.
Mutual comparative analysis: a new topography-guided custom ablation protocol referencing subjective refraction to modify corneal topographic data	Research	Kaiwei Cao, Lina Liu, Tao Zhang, et al.	Eye Vis (Lond). 2020 Jul 7;7:36. doi: 10.1186/s40662-020-00201-7.
Clinical outcomes with a new design in multifocal intraocular lens: a pilot study	Short Report	Jorge L Alió, Pilar Yébane, Mario Cantó, et al.	Eye Vis (Lond). 2020 Jul 18;7:38. doi: 10.1186/s40662-020-00205-3.
Impact of ablation ratio on 5-year postoperative posterior corneal stability after refractive surgery: SMILE and FS-LASIK	Research	Meiyan Li, Danjuan Yang, Yu Zhao, et al.	Eye Vis (Lond). 2020 Nov 10;7(1):53. doi: 10.1186/s40662-020-00218-y.
Placement of dual capsular tension rings for the combined management of traumatic cyclodialysis cleft and zonular dialysis	Research	Jiahui Chen, Lina Lan, Yating Tang, et al.	Eye Vis (Lond). 2020 Nov 23;7(1):54. doi: 10.1186/s40662-020-00219-x.
Catquest-9SF functioning over a decade – a study from the Swedish National Cataract Register	Research	Mats Lundström, Maria Kugelberg, Per Montan, et al.	Eye Vis (Lond). 2020 Dec 1;7(1):56. doi: 10.1186/s40662-020-00220-4.
Unintended changes in ocular biometric parameters during a 6-month follow-up period after FS-LASIK and SMILE	Research	Wang J, Lopes BT, Li H, et al.	Eye Vis (Lond). 2021 Mar 19;8(1):9. doi: 10.1186/s40662-021-00232-8.
Validity of the French version of Catquest-9SF and use of an electronic notepad for entering patient-reported outcome measures	Research	Katz G, Rouquette A, Lignereux F, et al.	Eye Vis (Lond). 2021 Apr 1;8(1):11. doi: 10.1186/s40662-021-00233-7.

Laboratory evaluation of higher-order aberrations and light scattering in explanted opacified intraocular lenses	Research	Łabuz G, Yildirim TM, Auffarth GU, et al.	Eye Vis (Lond). 2021 Apr 22;8(1):14. doi: 10.1186/s40662-021-00235-5.
Seven-year follow-up of posterior chamber phakic intraocular lens with central port design	Research	Fernández-Vega-Cueto L, Alfonso-Bartolozzi B, Lisa C, et al.	Eye Vis (Lond). 2021 Jun 11;8(1):23. doi: 10.1186/s40662-021-00247-1.

Keratoconus

Title	Type	Authors	PubMed
Corneal collagen crosslinking in patients treated with dextran versus isotonic hydroxypropyl methylcellulose (HPMC) riboflavin solution: a retrospective analysis	Research	Rapuan PB, Mathews PM, Florakis GJ, Trokel SL, Suh LH	Eye Vis (Lond). 2018 Sep 10;5:23. doi: 10.1186/s40662-018-0116-z.
Bowman layer transplantation in the treatment of keratoconus	Review	Dragnea DC, Birbal RS, Ham L, Dapena I, Oellerich S, van Dijk K, Melles GRJ	Eye Vis (Lond). 2018 Sep 12;5:24. doi: 10.1186/s40662-018-0117-y.
Manual mid-stromal dissection as a low risk procedure to stabilize mild to moderate progressive keratoconus	Research	Birbal RS, van Dijk K, Parker JS, Otten H, Belmoukadim M, Ham L, Baydoun L, Dapena I, Melles GRJ	Eye Vis (Lond). 2018 Oct 11;5:26. doi: 10.1186/s40662-018-0121-2.
Cellular therapy of the corneal stroma: a new type of corneal surgery for keratoconus and corneal dystrophies	Review	Alió Del Barrio JL, Alió JL	Eye Vis (Lond). 2018 Nov 1;5:28. doi: 10.1186/s40662-018-0122-1.
Refractive outcome of keratoconus treated by big-bubble deep anterior lamellar keratoplasty in pediatric patients: two-year follow-up comparison between mechanical trephine and femtosecond laser assisted techniques	Short report	Buzzonetti L, Petrocelli G, Valente P, Petroni S, Parrilla R, Iarossi G	Eye Vis (Lond). 2019 Jan 7;6:1. doi: 10.1186/s40662-018-0127-9.
Different accelerated corneal collagen cross-linking treatment modalities in progressive keratoconus	Research	Kirgiz A, Eliacik M, Yildirim Y	Eye Vis (Lond). 2019 Jun 3;6:16. doi: 10.1186/s40662-019-0141-6.

Central corneal regularization (CCR): an alternative approach in keratoconus treatment	Research	Mulè G, Chen S, Zhang J, Zhou W, Selimis V, Stojanovic A, et al.	Eye Vis (Lond). 2019 Dec 16;6:40. doi: 10.1186/s40662-019-0165-y.
Artificial neural network to guide intracorneal ring segments implantation for keratoconus treatment: a pilot study	Research	Chiara Fariselli, Alfredo Vega-Estrada, Francisco Arnalich-Montiel, et al.	Eye Vis (Lond). 2020 Apr 9;7:20. doi: 10.1186/s40662-020-00184-5.
Accuracy of intraocular lens power calculation formulae after laser refractive surgery in myopic eyes: a meta-analysis	Research	Li H, Nan L, Li J, Song H.	Eye Vis (Lond). 2020 May 1;7:37. doi: 10.1186/s40662-020-00188-1.
Clinical outcomes with a new design in multifocal intraocular lens: a pilot study	Short Report	Jorge L Alió, Pilar Yébana, Mario Cantó, et al.	Eye Vis (Lond). 2020 Jul 18;7:38. doi: 10.1186/s40662-020-00205-3.
Tomography-based definition of keratoconus for Down syndrome patients	Research	Soheila Asgari, Shiva Mehravaran, Mohammadreza Aghamirsalim, et al.	Eye Vis (Lond). 2020 Oct 5;7:49. doi: 10.1186/s40662-020-00215-1.
Relationship between corneal biomechanical parameters and corneal sublayer thickness measured by Corvis ST and UHR-OCT in keratoconus and normal eyes	Research	Yong Li, Zhiqiang Xu, Qiaoli Liu, et al.	Eye Vis (Lond). 2021 Jan 8;8(1):2. doi: 10.1186/s40662-020-00225-z.
Impact of hypothermia on the biomechanical effect of epithelium-off corneal cross-linking	Research	Hormoz Abdshahzadeh, Reyhaneh Abrishamchi, Emilio A, et al.	Eye Vis (Lond). 2021 Feb 9;8(1):4. doi: 10.1186/s40662-021-00229-3.
The number of intracorneal ring segments in asymmetric and central cones	Research	Utine CA, Özizmirililer D, Kayabaşı M, et al.	Eye Vis (Lond). 2021 Mar 30;8(1):10. doi: 10.1186/s40662-021-00234-6.
Long term results of accelerated 9 mW corneal crosslinking for early progressive keratoconus: the Siena Eye-Cross Study 2	Research	Mazzotta C, Raiskup F, Hafezi F, et al.	Eye Vis (Lond). 2021 May 1;8(1):16. doi: 10.1186/s40662-021-00240-8.

Surgery of Astigmatism

The art of nomograms	Research	Arba Mosquera S, de Ortueta D, Verma S	Eye Vis (Lond). 2018 Jan 25;5:2. doi: 10.1186/s40662-018-0096-z.
Corneal functional optical zone under monocular and binocular assessment	Research	Arba Mosquera S, de Ortueta D, Verma S	Eye Vis (Lond). 2018 Feb 7;5:3. doi: 10.1186/s40662-018-0097-y.
Femtosecond laser-assisted astigmatic keratotomy: a review	Review	Chang JSM	Eye Vis (Lond). 2018 Mar 12;5:6. doi: 10.1186/s40662-018-0099-9.
Investigating the impact of preoperative corneal astigmatism orientation on the postoperative spherical equivalent refraction following intraocular lens implantation	Research	McNeely RN, Moutari S, Pazo E, Moore JE	Eye Vis (Lond). 2018 Apr 25;5:7. doi: 10.1186/s40662-018-0103-4.

Cornea and external eye diseases

Title	Type	Authors	PubMed
Impact of 0.1% sodium hyaluronate and 0.2% sodium hyaluronate artificial tears on postoperative discomfort following cataract extraction surgery: a comparative study	Research	Ntonti P, Panagiotopoulou EK, Karastatiras G, Breyannis N, Tsironi S, Labiris G	Eye Vis (Lond). 2019 Feb 11;6:6. doi: 10.1186/s40662-019-0131-8.
Dry eye disease immune responses and topical therapy	Perspective	McMonnies CW	Eye Vis (Lond). 2019 Apr 22;6:12. doi: 10.1186/s40662-019-0137-2.
Evaluation of dry eye disease in newly diagnosed anxiety and depression patients using anterior segment optical coherence tomography	Research	Ulusoy MO, Işık-Ulusoy S, Kıvanç SA	Eye Vis (Lond). 2019 Aug 9;6:25. doi: 10.1186/s40662-019-0149-y.
Cornea modelling	Research	Pandolfi A	Eye Vis (Lond). 2020 Jan 7;7:2. doi: 10.1186/s40662-019-0166-x.

Aqueous deficiency is a contributor to evaporation-related dry eye disease	Perspective	McMonnies CW	Eye Vis (Lond). 2020 Feb 1;7:6. doi: 10.1186/s40662-019-0172-z. eCollection 2020.
Biomechanical diagnostics of the cornea	Review	Esporcatte LPG, Salomão MQ, Lopes BT, Vinciguerra P, Vinciguerra R, Roberts C, et al.	Eye Vis (Lond). 2020 Feb 5;7:9. doi: 10.1186/s40662-020-0174-x.
Ultrathin Descemet stripping automated endothelial keratoplasty versus Descemet membrane endothelial keratoplasty: a fellow-eye comparison	Research	Rita Mencucci, Eleonora Favuzza, Elisa Marziali, et al.	Eye Vis (Lond). 2020 May 6;7:25. doi: 10.1186/s40662-020-00191-6.
Corneal transplantation outcomes after the extrusion of an intrastromal keratoprosthesis: a pilot study	Short Report	Chiara Fariselli, Ibrahim Toprak, Olena Al-Shymali, et al.	Eye Vis (Lond). 2020 May 8;7:26. doi: 10.1186/s40662-020-00193-4.
Keratolenticular adhesion removal for type 2 Peters anomaly: a case report	Case report	Zhangliang Li, Rui Zou, Yune Zhao	Eye Vis (Lond). 2020 Jul 15;7:39. doi: 10.1186/s40662-020-00203-5.
Management of cytomegalovirus corneal endotheliitis	Review	Angela H. Y. Wong, Wee Nie Kua, Alvin L. Young, et al.	Eye Vis (Lond). 2021 Jan 14;8(1):3. doi: 10.1186/s40662-020-00226-y.
Cosmetic outcome of femtosecond laser-assisted pterygium surgery	Research	Darren Shu Jeng Ting, Yu-Chi Liu, Yi Fang Lee, et al.	Eye Vis (Lond). 2021 Mar 6;8(1):7. doi: 10.1186/s40662-021-00230-w.
Investigation of corneal topographic and densitometric properties of Wilson's disease patients with or without a Kayser-Fleischer ring	Research	Alakus MF, Caglayan M, Ekin N, et al.	Eye Vis (Lond). 2021 Mar 11;8(1):8. doi: 10.1186/s40662-021-00231-9.
Corneal biomechanical changes in allergic conjunctivitis	Research	Wang Q, Deng Y, Li S, et al.	Eye Vis (Lond). 2021 May 3;8(1):17. doi: 10.1186/s40662-021-00241-7.

Glaucoma

Utility of combining spectral domain optical coherence tomography structural parameters for the diagnosis of early Glaucoma: a mini-review	Review	Mwanza JC, Warren JL, Budenz DL	Eye Vis (Lond). 2018 Apr 15;5:9. doi: 10.1186/s40662-018-0101-6.
Ab externo canaloplasty results and efficacy: a retrospective cohort study with a 12-month follow-up	Research	Vastardis I, Fili S, Gatziofas Z, Kohlhaas M	Eye Vis (Lond). 2019 Mar 12;6:9. doi: 10.1186/s40662-019-0134-5.
Refractive outcomes among glaucoma patients undergoing phacoemulsification cataract extraction with and without Kahook Dual Blade goniotomy	Research	Sieck EG, Capitena Young CE, Epstein RS, SooHoo JR, Pantcheva MB, Patnaik JL, et al.	Eye Vis (Lond). 2019 Sep 19;6:28. doi: 10.1186/s40662-019-0153-2.
Micro-invasive glaucoma surgery – an interventional glaucoma revolution	Review	Shah M	Eye Vis (Lond). 2019 Sep 29;6:29. doi: 10.1186/s40662-019-0154-1.
Hydrus microstent implantation for surgical management of glaucoma: a review of design, efficacy and safety	Review	Samet S, Ong JA, Ahmed IIK	Eye Vis (Lond). 2019 Oct 22;6:32. doi: 10.1186/s40662-019-0157-y.
Ab externo implantation of the MicroShunt, a poly (styrene-<i>block</i>-isobutylene-<i>block</i>-styrene) surgical device for the treatment of primary open-angle glaucoma: a review	Review	Sadrudin O, Pinchuk L, Angeles R, Palmberg P	Eye Vis (Lond). 2019 Nov 15;6:36. doi: 10.1186/s40662-019-0162-1.
Second-generation trabecular micro-bypass stent implantation: Retrospective analysis after 12- and 24-month follow-up	Research	Neuhann R, Neuhann T	Eye Vis (Lond). 2020 Jan 10;7:1. doi: 10.1186/s40662-019-0169-7.
Safety and efficacy outcomes of the Xen45 Gel Stent use for refractory glaucoma: a surgery series from surgeon trainees at a tertiary teaching hospital	Research	Hong K, Lind J, Sheybani A	Eye Vis (Lond). 2020 Feb 1;7:5. doi: 10.1186/s40662-019-0171-0.
Evening exercise is associated with lower odds of visual field progression in Chinese patients with primary open angle glaucoma	Research	Xiafei Pan, Kai Xu, Xin Wang, et al.	Eye Vis (Lond). 2020 Mar 1;7:12. doi: 10.1186/s40662-020-0175-9.
In vivo confocal microscopy: qualitative investigation of the conjunctival and corneal surface in open angle glaucomatous patients	Research	Stefano Baiocchi, Cosimo Mazzotta, Arianna Sgheri, et al.	Eye Vis (Lond). 2020 Mar 10;7:15. doi: 10.1186/s40662-020-00181-8.

undergoing the XEN-Gel implant, trabeculectomy or medical therapy			
Current review of Excimer laser Trabeculostomy	Review	Georges M. Durr, Marc Töteberg-Harms, Richard Lewis, et al.	Eye Vis (Lond). 2020 May 5;7:24. doi: 10.1186/s40662-020-00190-7.
iStent inject trabecular microbypass stent implantation with cataract extraction in open-angle glaucoma: early clinical experience	Research	Tanner J. Ferguson, Zachary Dockter, Adam Bleeker, et al.	Eye Vis (Lond). 2020 May 20;7:28. doi: 10.1186/s40662-020-00194-3.

Multidisciplinary Ophthalmic Imaging

Title	Type	Authors	PubMed
Utility of combining spectral domain optical coherence tomography structural parameters for the diagnosis of early Glaucoma: a mini-review	Review	Mwanza JC, Warren JL, Budenz DL	Eye Vis (Lond). 2018 Apr 15;5:9. doi: 10.1186/s40662-018-0101-6.
Emerging Applications of Optical Coherence Tomography Angiography (OCTA) in neurological research	Review	Wang L, Murphy O, Caldito NG, Calabresi PA, Saidha S	Eye Vis (Lond). 2018 May 12;5:11. doi: 10.1186/s40662-018-0104-3.
Optical coherence tomography for ocular surface and corneal diseases: a review	Review	Venkateswaran N, Galor A, Wang J, Karp CL	Eye Vis (Lond). 2018 Jun 12;5:13. doi: 10.1186/s40662-018-0107-0.
Altered birefringence of peripapillary retinal nerve fiber layer in multiple sclerosis measured by polarization sensitive optical coherence tomography	Research	Jiang H, Chen W, Delgado S, Liu Y, Lin Y, Wang J	Eye Vis (Lond). 2018 Jun 17;5:14. doi: 10.1186/s40662-018-0108-z.
Optical coherence tomography angiography at the acute phase of optic disc edema	Research	Rougier MB, Le Goff M, Korobelnik JF	Eye Vis (Lond). 2018 Jun 23;5:15. doi: 10.1186/s40662-018-0109-y.
Long scan depth optical coherence tomography on imaging accommodation: impact of enhanced axial resolution, signal-to-noise ratio and speed	Research	Shao Y, Tao A, Jiang H, Shen M, Zhu D, Lu F, Karp CL, Ye Y, Wang J	Eye Vis (Lond). 2018 Jul 9;5:16. doi: 10.1186/s40662-018-0111-4
Comparison of cross sectional optical	Research	Patel MD, Khushzad	Eye Vis (Lond). 2018 Jul 14;5:17. doi:

coherence tomography images of elevated optic nerve heads across acquisition devices and scan protocols		F, Moss HE	10.1186/s40662-018-0112-3.
Comparing imaging capabilities of spectral domain and swept source optical coherence tomography angiography in healthy subjects and central serous retinopathy	Research	Wang F, Zhang Q, Deegan AJ, Chang J, Wang RK	Eye Vis (Lond). 2018 Aug 8;5:19. doi: 10.1186/s40662-018-0113-2.
The retinal function imager and clinical applications	Review	Su D, Garg S	Eye Vis (Lond). 2018 Aug 12;5:20. doi: 10.1186/s40662-018-0114-1.
Retinal tissue hypoperfusion in patients with clinical Alzheimer's disease	Research	Gameiro GR, Jiang H, Liu Y, Deng Y, Sun X, Nascentes B, Baumel B, Rundek T, Wang J	Eye Vis (Lond). 2018 Aug 17;5:21. doi: 10.1186/s40662-018-0115-0.
Choriocapillaris changes in dry age-related macular degeneration and geographic atrophy: a review	Review	Arya M, Sabrosa AS, Duker JS, Waheed NK	Eye Vis (Lond). 2018 Sep 15;5:22. doi: 10.1186/s40662-018-0118-x.
Retinal nerve fiber layer (RNFL) integrity and its relations to retinal microvasculature and microcirculation in myopic eyes	Research	Qu D, Lin Y, Jiang H, Shao Y, Shi Y, Airen S, Gregori G, Wang J	Eye Vis (Lond). 2018 Oct 10;5:25. doi: 10.1186/s40662-018-0120-3.
Microvascular blood flow velocities measured with a retinal function imager: inter-eye correlations in healthy controls and an exploration in multiple sclerosis	Research	Wang L, Kwakyi O, Nguyen J, Ogbuokiri E, Murphy O, Caldito NG, Balcer L, Frohman E, Frohman T, Calabresi PA, Saidha S.	Eye Vis (Lond). 2018 Nov 2;5:29. doi: 10.1186/s40662-018-0123-0.
The effect of sildenafil on retinal blood velocity in healthy subjects	Research	Achiron A, Hecht I, Juza C, Barak A, Burgansky-Eliash Z	Eye Vis (Lond). 2018 Dec 5;5:30. doi: 10.1186/s40662-018-0125-y.
The inter-visit variability of retinal blood flow velocity measurements using retinal function imager (RFI)	Research	Deng Y, Li M, Wang G, Jiang H, Wang J, Zhong J, Li S, Yuan J	Eye Vis (Lond). 2018 Dec 4;5:31. doi: 10.1186/s40662-018-0124-z.
Vessel density and En-face segmentation of optical coherence tomography angiography to analyse corneal vascularisation in an animal model	Research	Devarajan K, Di Lee W, Ong HS, Lwin NC, Chua J, Schmetterer L, Mehta JS, Ang M	Eye Vis (Lond). 2019 Jan 8;6:2. doi: 10.1186/s40662-018-0128-8.

Characterization of retinal microvasculature in acute non-arteritic anterior ischemic optic neuropathy using the retinal functional imager: a prospective case series	Research	Henderson AD, Jiang H, Wang J	Eye Vis (Lond). 2019 Jan 6;6:3. doi: 10.1186/s40662-018-0126-x.
Optical coherence tomography angiography for the anterior segment	Review	Lee WD, Devarajan K, Chua J, Schmetterer L, Mehta JS, Ang M	Eye Vis (Lond). 2019 Feb 1;6:4. doi: 10.1186/s40662-019-0129-2.
Quantitative analysis of conjunctival microvasculature imaged using optical coherence tomography angiography	Research	Liu Z, Wang H, Jiang H, Gameiro GR, Wang J	Eye Vis (Lond). 2019 Feb 2;6:5. doi: 10.1186/s40662-019-0130-9.
Retinal structural-vascular-functional relationship using optical coherence tomography and optical coherence tomography – angiography in myopia	Research	Venkatesh R, Sinha S, Gangadharaiiah D, Gadde SGK, Mohan A, Shetty R, Yadav NK	Eye Vis (Lond). 2019 Mar 7;6:8. doi: 10.1186/s40662-019-0133-6.
Inter-visit measurement variability of conjunctival vasculature and circulation in habitual contact lens wearers and non-lens wearers	Research	Wang J, Hu L, Shi C, Jiang H	Eye Vis (Lond). 2019 Apr 1;6:10. doi: 10.1186/s40662-019-0135-4.
Microcirculation in the conjunctiva and retina in healthy subjects	Research	Shi C, Jiang H, Gameiro GR, Wang J	Eye Vis (Lond). 2019 Apr 6;6:11. doi: 10.1186/s40662-019-0136-3.
A review of functional slit lamp biomicroscopy	Review	Shu X, Wang J, Hu L	Eye Vis (Lond). 2019 May 21;6:15. doi: 10.1186/s40662-019-0140-7.
Effect of orthokeratology on precision and agreement assessment of a new swept-source optical coherence tomography biometer	Research	Bao Shu, Fangjun Bao, Giacomo Savini, et al.	Eye Vis (Lond). 2020 Mar 2;7:13. doi: 10.1186/s40662-020-00177-4.
Modeling of gonioscopic anterior chamber angle grades based on anterior segment optical coherence tomography	Research	Yingying Dai, Shaodan Zhang, Meixiao Shen, et al.	Eye Vis (Lond). 2020 Jun 2;7:30. doi: 10.1186/s40662-020-00196-1.
The precision and agreement of corneal thickness and keratometry measurements with SS-OCT versus Scheimpflug imaging	Research	Yune Zhao, Ding Chen, Giacomo Savini, et al.	Eye Vis (Lond). 2020 Jun 9;7:32. doi: 10.1186/s40662-020-00197-0.

Angle-to-angle and spur-to-spur distance analysis with high-resolution optical coherence tomography	Research	Robert Montés-Micó, Pedro Tañá-Rivero, Salvador Aguilar-Córcoles, et al.	Eye Vis (Lond). 2020 Aug 16;7:42. doi: 10.1186/s40662-020-00208-0.
Sirius Scheimpflug–Placido versus ultrasound pachymetry for central corneal thickness: meta-analysis	Research	Yili Jin, Colm McAlinden, Yong Sun, et al.	Eye Vis (Lond). 2021 Feb 18;8(1):5. doi: 10.1186/s40662-021-00227-5.
Choroidal vascularity index in thyroid-associated ophthalmopathy: a cross-sectional study	Research	Loiudice P, Pellegrini M, Marinò M, et al.	Eye Vis (Lond). 2021 Apr 30;8(1):18. doi: 10.1186/s40662-021-00242-6.

Retina

Title	Type	Authors	PubMed
Emerging Applications of Optical Coherence Tomography Angiography (OCTA) in neurological research	Review	Wang L, Murphy O, Caldito NG, Calabresi PA, Saidha S	Eye Vis (Lond). 2018 May 12;5:11. doi: 10.1186/s40662-018-0104-3.
Altered birefringence of peripapillary retinal nerve fiber layer in multiple sclerosis measured by polarization sensitive optical coherence tomography	Research	Jiang H, Chen W, Delgado S, Liu Y, Lin Y, Wang J	Eye Vis (Lond). 2018 Jun 17;5:14. doi: 10.1186/s40662-018-0108-z.
Optical coherence tomography angiography at the acute phase of optic disc edema	Research	Rougier MB, Le Goff M, Korobelnik JF	Eye Vis (Lond). 2018 Jun 23;5:15. doi: 10.1186/s40662-018-0109-y.
Comparison of cross sectional optical coherence tomography images of elevated optic nerve heads across acquisition devices and scan protocols	Research	Patel MD, Khushzad F, Moss HE	Eye Vis (Lond). 2018 Jul 14;5:17. doi: 10.1186/s40662-018-0112-3.
Comparing imaging capabilities of spectral domain and swept source optical coherence tomography angiography in healthy subjects and central serous retinopathy	Research	Wang F, Zhang Q, Deegan AJ, Chang J, Wang RK	Eye Vis (Lond). 2018 Aug 8;5:19. doi: 10.1186/s40662-018-0113-2.

Choriocapillaris changes in dry age-related macular degeneration and geographic atrophy: a review	Review	Arya M, Sabrosa AS, Duker JS, Waheed NK	Eye Vis (Lond). 2018 Sep 15;5:22. doi: 10.1186/s40662-018-0118-x.
Retinal nerve fiber layer (RNFL) integrity and its relations to retinal microvasculature and microcirculation in myopic eyes	Research	Qu D, Lin Y, Jiang H, Shao Y, Shi Y, Airen S, Gregori G, Wang J	Eye Vis (Lond). 2018 Oct 10;5:25. doi: 10.1186/s40662-018-0120-3.
Evaluation of markers of outcome in real-world treatment of diabetic macular edema	Research	Campos A, Campos EJ, do Carmo A, Caramelo F, Martins J, Sousa JP, Ambrósio AF, Silva R	Eye Vis (Lond). 2018 Oct 11;5:27. doi: 10.1186/s40662-018-0119-9.
Characterization of retinal microvasculature in acute non-arteritic anterior ischemic optic neuropathy using the retinal functional imager: a prospective case series	Research	Henderson AD, Jiang H, Wang J	Eye Vis (Lond). 2019 Jan 6;6:3. doi: 10.1186/s40662-018-0126-x.
Quantifying microstructural changes in retinitis pigmentosa using spectral domain – optical coherence tomography	Research	Poornachandra B, Khurana AK, Sridharan P, Chatterjee P, Jayadev C, Yadav NK, Shetty R	Eye Vis (Lond). 2019 May 15;6:13. doi: 10.1186/s40662-019-0139-0.
Improving diabetic and hypertensive retinopathy with a medical food containing L-methylfolate: a preliminary report	Case report	Wang J, Brown C, Shi C, Townsend J, Gameiro GR, Wang P, et al.	Eye Vis (Lond). 2019 Jul 22;6:21. doi: 10.1186/s40662-019-0147-0.
Associated risk factors in the early stage of diabetic retinopathy	Research	Tan F, Chen Q, Zhuang X, Wu C, Qian Y, Wang Y, et al.	Eye Vis (Lond). 2019 Aug 1;6:23. doi: 10.1186/s40662-019-0148-z.
Optical coherence tomography angiography in diabetic retinopathy: a review of current applications	Review	Tey KY, Teo K, Tan ACS, Devarajan K, Tan B, Tan J, et al.	Eye Vis (Lond). 2019 Nov 18;6:37. doi: 10.1186/s40662-019-0160-3.
Faulty homocysteine recycling in diabetic retinopathy	Research	Kowluru RA, Mohammad G, Sahajpal N	Eye Vis (Lond). 2020 Jan 10;7:4. doi: 10.1186/s40662-019-0167-9.

Clinically relevant factors associated with quantitative optical coherence tomography angiography metrics in deep capillary plexus in patients with diabetes	Research	Tang FY, Chan EO, Sun Z, Wong R, Lok J, Szeto S, et al.	Eye Vis (Lond). 2020 Feb 3;7:7. doi: 10.1186/s40662-019-0173-y.
Reduced macular inner retinal thickness and microvascular density in the early stage of patients with dysthyroid optic neuropathy	Research	Yufei Wu, Yunhai Tu, Chaoming Wu, et al.	Eye Vis (Lond). 2020 Mar 10;7:16. doi: 10.1186/s40662-020-00180-9
Morphological changes in intraretinal microvascular abnormalities after anti-VEGF therapy visualized on optical coherence tomography angiography	Research	Osama A. Sorour, Nihaal Mehta, Caroline R. Bauman, et al.	Eye Vis (Lond). 2020 Jun 1;7:29. doi: 10.1186/s40662-020-00195-2.
Nutritional and medical food therapies for diabetic retinopathy	Review	Ce Shi, Peng Wang, Shriya Airen, et al.	Eye Vis (Lond). 2020 Jun 18;7:33. doi: 10.1186/s40662-020-00199-y.
Anti-VEGF therapy prevents Müller intracellular edema by decreasing VEGF-A in diabetic retinopathy	Research	Wang T, Zhang C, Xie H, et al.	Eye Vis (Lond). 2021 Apr 17;8(1):13. doi: 10.1186/s40662-021-00237-3.
Neurovascular unit in diabetic retinopathy: pathophysiological roles and potential therapeutic targets	Review	Nian S, Lo ACY, Mi Y, et al.	Eye Vis (Lond). 2021 May 1;8(1):15. doi: 10.1186/s40662-021-00239-1.

Artificial intelligence in ophthalmology

Title	Type	Authors	PubMed
Artificial neural network to guide intracorneal ring segments implantation for keratoconus treatment: a pilot study	Research	Chiara Fariselli, Alfredo Vega-Estrada, Francisco Arnalich-Montiel, et al.	Eye Vis (Lond). 2020 Apr 9;7:20. doi: 10.1186/s40662-020-00184-5.
Different fundus imaging modalities and technical factors in AI screening for diabetic retinopathy: a review	Review	Gilbert Lim, Valentina Bellemo, Yuchen Xie, et al.	Eye Vis (Lond). 2020 Apr 14;7:21. doi: 10.1186/s40662-020-00182-7.

Application of machine learning in ophthalmic imaging modalities	Review	Yan Tong, Wei Lu, Yue Yu, et al.	Eye Vis (Lond). 2020 Apr 16;7:22. doi: 10.1186/s40662-020-00183-6.
Deep learning-based analysis of macaque corneal sub-basal nerve fibers in confocal microscopy images	Research	Jonathan D. Oakley, Daniel B. Russakoff, Megan E. McCarron, et al.	Eye Vis (Lond). 2020 May 8;7:27. doi: 10.1186/s40662-020-00192-5.
Automated identification of retinopathy of prematurity by image-based deep learning	Research	Yan Tong, Wei Lu, Qin-Qin Deng, et al.	Eye Vis (Lond). 2020 Aug 1;7:40. doi: 10.1186/s40662-020-00206-2.
Automated diagnosis and staging of Fuchs' endothelial cell corneal dystrophy using deep learning	Research	Taher Eleiwa, Amr Elsayy, Eyüp Özcan, et al.	Eye Vis (Lond). 2020 Sep 1;7:44. doi: 10.1186/s40662-020-00209-z.
Characterization of the retinal vasculature in fundus photos using the PanOptic iExaminer system	Research	Huiling Hu, Haicheng Wei, Mingxia Xiao, et al.	Eye Vis (Lond). 2020 Sep 8;7:46. doi: 10.1186/s40662-020-00211-5.
Machine learning helps improve diagnostic ability of subclinical keratoconus using Scheimpflug and OCT imaging modalities	Research	Ce Shi Mengyi Wang, Tiantian Zhu, et al.	Eye Vis (Lond). 2020 Sep 10;7:48. doi: 10.1186/s40662-020-00213-3.
A machine learning-based algorithm used to estimate the physiological elongation of ocular axial length in myopic children	Research	Tao Tang, Zekuan Yu, Qiong Xu, et al.	Eye Vis (Lond). 2020 Oct 22;7:50. doi: 10.1186/s40662-020-00214-2.
Development of a classification system based on corneal biomechanical properties using artificial intelligence predicting keratoconus severity	Research	Herber R, Pillunat LE, Raikup F.	Eye Vis (Lond). 2021 Jun 1;8(1):21. doi: 10.1186/s40662-021-00244-4.

Ocular oncology

The use of high resolution anterior segment optical coherence tomography for the characterization of conjunctival lymphoma, conjunctival amyloidosis and benign reactive lymphoid hyperplasia	Research	Venkateswaran N, Mercado C, Tran AQ, Garcia A, Diaz PFM, Dubovy SR, Galor A, Karp CL	Eye Vis (Lond). 2019 Jun 18;6:17. doi: 10.1186/s40662-019-0143-4.
Update on Diagnosis and Management of Conjunctival Papilloma	Review	Theotoka D, Morkin MI, Galor A, Karp CL	Eye Vis (Lond). 2019 Jun 18;6:18. doi: 10.1186/s40662-019-0142-5.

Classification, diagnosis, and management of conjunctival lymphoma	Review	Tanenbaum RE, Galor A, Dubovy SR, Karp CL	Eye Vis (Lond). 2019 Jul 27;6:22. doi: 10.1186/s40662-019-0146-1.
Update on pharmacotherapy for ocular surface squamous neoplasia	Review	Al Bayyat G, Arreaza-Kaufman D, Venkateswaran N, Galor A, Karp CL	Eye Vis (Lond). 2019 Aug 12;6:24. doi: 10.1186/s40662-019-0150-5.
Bilateral benign reactive lymphoid hyperplasia of the conjunctiva: a case treated with oral doxycycline and review of the literature	Case report	Klavdianou O, Kondylis G, Georgopoulos V, Palioura S	Eye Vis (Lond). 2019 Sep 2;6:26. doi: 10.1186/s40662-019-0151-4.
Utility of high-resolution anterior segment optical coherence tomography in the diagnosis and management of sub-clinical ocular surface squamous neoplasia	Research	Tran AQ, Venkateswaran N, Galor , Karp CL	Eye Vis (Lond). 2019 Aug 27;6:27. doi: 10.1186/s40662-019-0152-3.

Clinical and Epidemiologic Research

Title	Type	Authors	PubMed
Epidemiology of ocular surface squamous neoplasia in veterans: a retrospective case-control study	Research	Smith LM, Lamba S, Karp CL, Galor A	Eye Vis (Lond). 2019 May 14;6:14. doi: 10.1186/s40662-019-0138-1.
Design and baseline data of a population-based metabonomics study of eye diseases in eastern China: the Yueqing Ocular Diseases Investigation	Research	Deng Y, Liang Y, Lin S, Wen L, Li J, Zhou Y, et al.	Eye Vis (Lond). 2020 Jan 19;7:8. doi: 10.1186/s40662-019-0170-1.
The Jidong Eye Cohort Study: objectives, design, and baseline characteristics	Research	Kai Yang, Lele Cui, Guoyun Zhang, et al.	Eye Vis (Lond). 2020 Dec 29;7(1):58. doi: 10.1186/s40662-020-00223-1.
Lens thickness and associated ocular biometric factors among cataract patients in Shanghai	Research	Meng J, Wei L, He W, et al.	Eye Vis (Lond). 2021 May 31;8(1):22. doi: 10.1186/s40662-021-00245-3.

Molecular genetics and cell biology

A cellular and proteomic approach to assess proteins extracted from cryopreserved human amnion in the cultivation of corneal stromal keratocytes for stromal cell therapy	Research	Fenner BJ, Yusoff NZBM, Fuest M, Zhou L, Bandeira F, Cajucum-Uy HY, et al.	Eye Vis (Lond). 2019 Oct 12;6:30. doi: 10.1186/s40662-019-0155-0.
Identification, quantification and age-related changes of human trabecular meshwork stem cells	Research	Sundaresan Y, Veerappan M, Ramasamy KS, Chidambaranathan GP	Eye Vis (Lond). 2019 Oct 17;6:31. doi: 10.1186/s40662-019-0156-z.
Evaluation of <i>FGF10</i> as a candidate gene for high myopia in a Han Chinese population	Research	Jiang L, Luo D, Wang T, Zheng R, Zhai Y, Liu X, et al.	Eye Vis (Lond). 2019 Oct 30;6:33. doi: 10.1186/s40662-019-0158-x.
Evaluation of the association of <i>C5</i> with neovascular age-related macular degeneration and polypoidal choroidal vasculopathy	Research	Liu K, Ma L, Lai TYY, Brelen ME, Tam POS, Tham CC, et al.	Eye Vis (Lond). 2019 Nov 7;6:34. doi: 10.1186/s40662-019-0161-2.
Do age-related macular degeneration genes show association with keratoconus?	Research	Cao K, Sahebzada S, Richardson AJ, Baird PN	Eye Vis (Lond). 2019 Dec 1;6:38. doi: 10.1186/s40662-019-0164-z.
Genetic characterization of Stargardt clinical phenotype in South Indian patients using sanger and targeted sequencing	Research	Raj RK, Dhoble P, Anjanamurthy R, Chermakani P, Kumaran M, Devarajan B, et al.	Eye Vis (Lond). 2020 Jan 9;7:3. doi: 10.1186/s40662-019-0168-8.
MicroRNA-184 negatively regulates corneal epithelial wound healing via targeting <i>CDC25A</i>, <i>CARM1</i>, and <i>LASP1</i>	Research	Qiongjie Cao, Weiwei Xu, Weiwei Chen, et al.	Eye Vis (Lond). 2020 Aug 1;7:35. doi: 10.1186/s40662-020-00202-6.
The anti-scarring effect of corneal stromal stem cell therapy is mediated by transforming growth factor β3	Research	Lin Weng, James L. Funderburgh, Irena Khandaker, et al.	Eye Vis (Lond). 2020 Nov 3;7(1):52. doi: 10.1186/s40662-020-00217-z.
The critical role of m6A methylation in the pathogenesis of Graves' ophthalmopathy	Research	Li Zhu, Siyan Li, Shikun He, et al.	Eye Vis (Lond). 2020 Dec 1;7(1):55. doi: 10.1186/s40662-020-00221-3.

Choroidal blood perfusion as a potential “rapid predictive index” for myopia development and progression	Perspectiv e	Xiangtian Zhou, Cong Ye, Xiaoyan Wang, et al.	Eye Vis (Lond). 2021 Jan 4;8(1):1. doi: 10.1186/s40662-020-00224-0.
Genetic mutations and molecular mechanisms of Fuchs endothelial corneal dystrophy	Research	Liu X, Zheng T, Zhao C, et al.	Eye Vis (Lond). 2021 Jun 15;8(1):24. doi: 10.1186/s40662-021-00246-2.

Others

Title	Type	Authors	PubMed
Influence of overnight orthokeratology lens fitting decentration on corneal topography reshaping	Research	Chen J, Huang W, Zhu R, Jiang J, Li Y	Eye Vis (Lond). 2018 Mar 15;5:5. doi: 10.1186/s40662-018-0100-7.
Unusual occurrence of orbital hemangiopericytoma in the zygomatic bone of an adolescent: a case report	Case report	Eshraghi B, Ghadimi H, Nozarian Z	Eye Vis (Lond). 2018 May 13;5:10. doi: 10.1186/s40662-018-0105-2.
Relative peripheral refraction across 4 meridians after orthokeratology and LASIK surgery	Research	Queirós A, Amorim-de-Sousa A, Lopes-Ferreira D, et al.	Eye Vis (Lond). 2018 May 20;5:12. doi: 10.1186/s40662-018-0106-1.
Abnormal intra-network architecture in extra-striate cortices in amblyopia: a resting state fMRI study	Research	Lu Z, Huang Y, Lu Q, Feng L, Nguchu BA, Wang Y, et al.	Eye Vis (Lond). 2019 Jul 9;6:20. doi: 10.1186/s40662-019-0145-2.
A comprehensive Chinese experience against SARS-CoV-2 in ophthalmology	Review	A-Yong Yu, Ruixue Tu, Xu Shao, et al.	Eye Vis (Lond). 2020 Apr 7;7:19. doi: 10.1186/s40662-020-00187-2.
SARS-CoV-2 in the ocular surface of COVID-19 patients	Short Report	Hua-Tao Xie, Shi-Yun Jiang, Kang-Kang Xu, et al.	Eye Vis (Lond). 2020 Apr 26;7:23. doi: 10.1186/s40662-020-00189-0.
Visual quality of juvenile myopes wearing multifocal soft contact lenses	Research	Xiaopeng Huang, Feifu Wang , Zhiyi Lin, et al.	Eye Vis (Lond). 2020 Jul 19;7:41. doi: 10.1186/s40662-020-00204-4.
An interferometric ex vivo study of corneal biomechanics under physiologically representative loading, highlighting the role	Research	Abby Wilson, John Jones, John R Tyrer, et al.	Eye Vis (Lond). 2020 Aug 13;7:43. doi: 10.1186/s40662-020-00207-1.

of the limbus in pressure compensation			
Advances in myopia research anatomical findings in highly myopic eyes	Review	Jost B Jonas, Ya Xing Wang, Li Dong, et al.	Eye Vis (Lond). 2020 Sep 2;7:45. doi: 10.1186/s40662-020-00210-6.
Morphological features of anterior segment: factors influencing intraocular pressure after cataract surgery in nanophthalmos	Research	Qiang Lu, Wenwen He, Yi Lu, et al.	Eye Vis (Lond). 2020 Sep 9;7:47. doi: 10.1186/s40662-020-00212-4.
Introduction of a digital near-vision reading test for normal and low vision adults: development and validation	Research	Georgios Labiris, Eirini-Kanella Panagiotopoulou, Eleftherios Chatzimichael, et al.	Eye Vis (Lond). 2020 Oct 22;7:51. doi: 10.1186/s40662-020-00216-0.
The associations of lens power with age, axial length and type 2 diabetes mellitus in Chinese adults aged 50 and above	Research	Luyao Ye, Jiangnan He, Xinji Zhang, et al.	Eye Vis (Lond). 2020 Dec 1;7(1):57. doi: 10.1186/s40662-020-00222-2.
Strain heterogeneity, cooccurrence network, taxonomic composition and functional profile of the healthy ocular surface microbiome	Research	Yutong Kang, Shudan Lin, Xueli Ma, et al.	Eye Vis (Lond). 2021 Feb 24;8(1):6. doi: 10.1186/s40662-021-00228-4.
Could contact lens dryness discomfort symptoms sometimes have a neuropathic basis?	Review	McMonnies CW	Eye Vis (Lond). 2021 Apr 6;8(1):12. doi: 10.1186/s40662-021-00236-4.
Modified endoscopic transnasal orbital apex decompression in dysthyroid optic neuropathy	Research	Tu Y, Xu M, Kim AD, et al.	Eye Vis (Lond). 2021 Apr 28;8(1):19. doi: 10.1186/s40662-021-00238-2.
Clinical exome sequencing facilitates the understanding of genetic heterogeneity in Leber congenital amaurosis patients with variable phenotype in southern India	Research	Viswarubhiny S, Anjanamurthy R, Vanniarajan A, et al.	Eye Vis (Lond). 2021 May 6;8(1):20. doi: 10.1186/s40662-021-00243-5.