Ophthalmology Bulletin January 2020

Articles

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**18F-fluorodeoxyglucose positron emission tomography is useful for the diagnosis of intraocular sarcoidosis in patients with a normal CT scan.**
[To assess the usefulness of 18F-fluorodeoxyglucose positron emission tomography (18F-FDG PET/CT) and the predictive factors for the diagnosis of sarcoidosis in patients with uveitis who have normal thoracic tomography.]
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**ACE inhibitor use and risk of cataract: a case–control analysis.**
[Use of ACE inhibitors (ACEIs) has been associated with an increased risk of cataract in a previous observational study in humans. In contrast, ACEIs were associated with beneficial effects on cataract development in experimental studies. The authors assessed the risk of cataract in relation to exposure to ACEI and other antihypertensive drugs. In this large observational study, use of ACEI was not associated with an altered risk of cataract.]
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**Adalimumab for non-infectious uveitis: is it cost-effective?**
[Uveitis is inflammation inside the eye. Our objective was to assess the cost-effectiveness of adalimumab compared with current practice (immunosuppressants and systemic corticosteroids) in patients with non-infectious intermediate, posterior or panuveitis and to identify areas for future research.]
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**Age-related changes in baseline reading acuity and speed as measured using RADNER Reading Charts in healthy eyes with best corrected ETDRS distance acuity**
[The purpose of this study was to assess age-related differences in baseline measures of reading performance obtained from the RADNER Reading Charts in healthy eyes with best corrected (ETDRS) distance acuity.]
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Association between diabetic retinopathy and incident cognitive impairment.
[The relationship between diabetic retinopathy (DR) and cognitive impairment (CI) is unclear due to equivocal findings from cross-sectional studies and a lack of long-term data. In this population-based cohort study, we investigated the longitudinal association between the severity of DR and the incidence of CI.]
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Associations between optic disc measures and obstructive sleep apnea in young adults.
Lee SSY. Ophthalmology 2019;126(10):1372-1384.
[Obstructive sleep apnea (OSA) is linked to increased glaucoma risk in middle-aged and older adults. However, little is known about associations between OSA and glaucoma-related optic disc parameters in young adults. The study explored associations between overnight polysomnography-derived measures of OSA and the optic disc in young adults.]
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Autologous retinal transplant for refractory macular holes: multicenter International Collaborative Study Group.
[The purpose of this study was to report the structural and functional outcomes of autologous neurosensory retinal transplant for closure of refractory large macular holes (MHs).]
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Choroidal thickness and vascular density in macular telangiectasia type 2 using en face swept-source optical coherence tomography.
[The purpose of this study was to investigate the choroidal thickness (CT) and choroidal vascular densities (CVD) of patients with macular telangiectasia type 2 (MacTel2) and their association with other multimodal imaging features, using swept-source optical coherence tomography (SS-OCT).]
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Classification of disease severity in retinitis pigmentosa.
[The purpose of this study was to develop a simple and easily applicable classification of disease severity in retinitis pigmentosa (RP).]
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Classifying signs and symptoms of dry eye disease according to underlying mechanism via the Delphi method: the DIDACTIC study.
[Dry eye disease (DED) is categorised by pathophysiology as aqueous deficient dry eye (ADDE), evaporative dry eye (EDE) or mixed. Treatment should be tailored to DED pathophysiology, but this is challenging to determine. This Delphi consultation aimed to categorise and weight signs and symptoms to help identify the evaporative or aqueous deficient DED origin.]

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Clinical and genetic characteristics of East Asian patients with occult macular dystrophy (Miyake Disease): East Asia Occult Macular Dystrophy Studies Report Number 1.
[The purpose of this study was to describe the clinical and genetic characteristics of the cohort enrolled in the East Asian studies of occult macular dystrophy (OMD).]

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Clinical relevance of protruded retinal layers in minimum rim width measurement of the optic nerve head.
Torres LA. *British Journal of Ophthalmology* 2019;103(10):1401-.
[Optical coherence tomography (OCT) imaging of the optic nerve head minimum rim width (MRW) has recently been shown to sometimes contain components besides extended retinal nerve fibre layer (RNFL). This study was conducted to determine whether excluding these components, termed protruded retinal layers (PRLs), from MRW increases diagnostic accuracy for detecting glaucoma.]

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Collateral vessels on optical coherence tomography angiography in eyes with branch retinal vein occlusion
[The purpose of this study was to detect collateral vessels using optical coherence tomography angiography (OCTA) in eyes with branch retinal vein occlusion (BRVO) and to investigate the associations with visual outcomes and macular oedema.]

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Current and emerging pharmaceutical interventions for myopia.
[This review aims to summarise pharmaceutical interventions of myopia at clinical and preclinical stages in the last decade and discuss challenges for preclinical myopia drugs to progress to clinical trials.]

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**Current ophthalmology practice patterns for syphilitic uveitis.**
[Syphilitic uveitis is re-emerging alongside the systemic infection. In July 2017, an international group of uveitis-specialised ophthalmologists formed the International Ocular Syphilis Study Group to define current practice patterns.]

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**Dexamethasone implant for non-infectious uveitis: is it cost-effective?**
[Uveitis is inflammation inside the eye. The objective of this study is to assess the cost-effectiveness of a dexamethasone implant plus current practice (immunosuppressants and systemic corticosteroids) compared with current practice alone, in patients with non-infectious intermediate, posterior or pan-uveitis and to identify areas for future research.]

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**Diagnostic performance of optical coherence tomography angiography in glaucoma: a systematic review and meta-analysis.**
[Compared with current imaging methods, the diagnostic performance and the advantages and limitations of optical coherence tomography angiography (OCTA) remain unclear. The authors performed a systematic review and meta-analysis of studies investigating vessel density (VD) in patients with glaucoma using OCTA.]

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**Dome-shaped macula: a potential protective factor for visual acuity after cataract surgery in patients with high myopia.**
[The purpose of this study was to evaluate whether the presence of dome-shaped macula (DSM) is a protective factor for visual acuity after cataract surgery in patients with high myopia.]

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**Effects of image brightness and contrast dynamic altering stimuli (DAS) when viewing video content on ocular blood flow.**
[Blood flow deficiencies of the retinal and retrobulbar circulations have been previously reported in open-angle glaucoma (OAG) and other eye diseases. Herein we investigated the effects of image brightness and contrast dynamic altering stimuli (DAS) when viewing a video content on ocular blood flow, intraocular pressure (IOP) and ocular perfusion pressure (OPP) in OAG and healthy subjects.]
Estimation of impact of RPE65-mediated inherited retinal disease on quality of life and the potential benefits of gene therapy.
[In rare diseases, health-related quality of life (HRQL) data can be difficult to capture. Given the ultrarare nature of RPE65-mediated inherited retinal disease (IRD), it was not feasible to recruit a patient sample and collect HRQL data prospectively. The objectives of this study were to develop health state descriptions of RPE65-mediated IRD, and to estimate associated patient utilities.]

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Five-year nationwide incidence of macular hole requiring surgery in Korea.
[The aim of this study was to estimate the incidence and demographics of macular hole (MH) requiring surgery in Korea.]

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Foveal microstructure and visual outcomes of myopic macular hole surgery with or without the inverted internal limiting membrane flap technique
[The aim of this study was to determine the effect of the inverted internal limiting membrane (ILM) flap technique on the macular hole (MH) closure and foveal microstructure recovery of patients with highly myopic MH.]

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Genetic analysis of uveal melanoma in 658 patients using the Cancer Genome Atlas Classification of Uveal Melanoma as A, B, C, and D.
[The Cancer Genome Atlas (TCGA) classification has been validated for uveal melanoma (UM) prognostication. The authors applied TCGA classification to UM biopsied using fine-needle aspiration biopsy (FNAB) to determine the predictability for metastasis and death.]

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Glaucoma in myopia: diagnostic dilemmas.
[This review provides overview on how to navigate this diagnostic dilemma.]

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Hypotensive efficacy of topical brimonidine for intraocular pressure spikes following intravitreal injections of antivascular endothelial growth factor agents: a randomised crossover trial.
[The purpose of this study was to determine the effect of topical brimonidine tartrate prophylaxis on intraocular pressure (IOP) spikes following intravitreal injection of antivascular endothelial growth factor (anti-VEGF) agents.]
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Incidence of exudative age-related macular degeneration and treatment load under the Korean national health insurance system in 2010–2015
[The aim of this study was to estimate the nationwide incidence of clinically diagnosed exudative age-related macular degeneration (AMD) and associated use of ranibizumab and aflibercept in South Korea.]
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Increased nighttime blood pressure in patients with glaucoma: cross-sectional analysis of the LIGHT study.
[The purpose of this study was to determine whether the presence of glaucoma is associated significantly with nighttime blood pressure (BP) and dipping pattern.]
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Influence of uveitis on Bruch’s membrane opening minimum rim width and retinal nerve fibre layer thickness measurements.
[The purpose of this study was to assess the impact of papillary leakage and active inflammation on optical coherence tomography (OCT)-based retinal nerve fibre layer thickness (RNFLT) and Bruch’s membrane opening minimum rim width (BMO-MRW) measurements in uveitic eyes with and without secondary glaucoma.]
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Inner macular layer thickness by spectral domain optical coherence tomography in children and adults: a hospital-based study.
[The aim of this study was to establish the normative ranges of macular ganglion cell layer (mGCL) and macular inner plexiform layer (mIPL) thickness using Spectralis spectral domain optical coherence tomography (SD-OCT) (Heidelberg Engineering, Inc., Heidelberg, Germany) in both Korean children and adults, and to determine factors associated with mGCL and mIPL thickness.]
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**Intraocular lens implantation during early childhood: a report by the American Academy of Ophthalmology**


[The purpose of this study was to compare the visual outcomes and adverse events associated with optical correction using an intraocular lens (IOL), contact lenses, or spectacles after cataract surgery in children 2 years of age or younger.]

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**Intraocular pressure change after injection of intravitreal dexamethasone (Ozurdex) implant in Korean patients**


[The purpose of this study was to analyse intraocular pressure (IOP) changes over a period of 1 year after intravitreal dexamethasone (DEX, Ozurdex) implant injection and to compare the results with those of previously published studies that involved non-Asian populations.]

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**Loss-of-function mutations in the CFH gene affecting alternatively encoded factor H-like 1 protein cause dominant early-onset macular drusen.**

Taylor RL. *Ophthalmology* 2019;126(10):1410-1421.

[The purpose of this study was to characterize the molecular mechanism underpinning early-onset macular drusen (EOMD), a phenotypically severe subtype of age-related macular degeneration (AMD), in a subgroup of patients.]

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**Macular sensitivity in patients with congenital stationary night-blindness.**


[To evaluate and correlate mean light sensitivity thresholds (MLST) in patients with congenital stationary night-blindness (CSNB) in comparison with healthy subjects using microperimetry (MP1).]

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**Macular vessel reduction as predictor for recurrence of macular oedema requiring repeat intravitreal ranibizumab injection in eyes with branch retinal vein occlusion.**


[The purpose of this study was to determine whether there are factors that can predict the frequency of recurrences of macular oedema associated with branch retinal vein occlusion (BRVO).]

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Normative pattern and determinants of outer retinal thickness in an Asian population: the Singapore Epidemiology of Eye Diseases Study
[The purpose of this study was to evaluate the distribution and determinants of outer retinal thickness in eyes without retinal diseases, using spectral-domain optical coherence tomography (SD-OCT).]
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Optical coherence tomography angiography findings in cystoid macular degeneration associated with central serous chorioretinopathy.
[To describe the optical coherence tomography (OCT) characteristics and to identify and analyse the incidence of choroidal neovascular (CNV) network seen on optical coherence tomography angiography (OCTA) in eyes with cystoid macular degeneration (CMD) associated with central serous chorioretinopathy (CSCR).]
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Posterior segment drug delivery for the treatment of exudative age-related macular degeneration and diabetic macular oedema.
[In this review, the authors discuss the challenges posed by ocular barriers for drug penetration and present the recent advancements of the most pertinent drug delivery platforms with a focus on the treatment of exudative AMD and DME.]
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Pyogenic granuloma associated with conjunctival epithelial neoplasia: report of nine cases
[The purpose of this study was to systematically describe the clinical and histopathological features of a case series of conjunctival carcinomatous lesions underlying as—and also masquerading—pyogenic granuloma.]
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Success of trabeculectomy surgery in relation to cataract surgery: 5-year outcomes.
[The aims of this study was to compare success proportions at 5 years in three surgical groups: group 1, trabeculectomy alone; group 2, trabeculectomy followed by cataract surgery within 2 years; and group 3, trabeculectomy performed on a pseudophakic eye.]
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The NHS diabetic eye screening programme.
[Key points: The diabetic eye screening programme is free of charge; The eligible population of screening is all people with type 1 and type 2 diabetes aged 12 years or over; Diabetic eye screening may also be offered to pregnant women with type 1 or type 2 diabetes; There are several types of retinopathy, of which diabetic retinopathy is one; When diabetic retinopathy is detected early, there is the real potential to reduce sight loss.]
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Universal artificial intelligence platform for collaborative management of cataracts.
[The purpose of this study was to establish and validate a universal artificial intelligence (AI) platform for collaborative management of cataracts involving multilevel clinical scenarios and explored an AI-based medical referral pattern to improve collaborative efficiency and resource coverage.]
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Utility of CLOCK CHART binocular edition for self-checking the binocular visual field in patients with glaucoma
[Car accidents caused by drivers unaware of their visual field (VF) defects under binocular vision have become an issue. The authors developed a simple self-check chart (CLOCK CHART binocular edition (CCBE)) to help patients with glaucoma recognise their abnormalities in the binocular VF and evaluated its usefulness.]
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Reports
The following report(s) may be of interest:

**Ophthalmology: GIRFT Programme National Specialty.**
Getting It Right First Time (GIRFT); 2019.
https://gettingitrightfirsttime.co.uk/ophthalmology-national-report/
[The latest national report from the Getting It Right First Time (GIRFT) programme seeks to address the widely-acknowledged challenge of rising demand for ophthalmology services due to an ageing population. Ophthalmology is already one of the busiest specialties in the NHS, carrying out 6% of all operations and booking more than 7.5m outpatient appointments across 120 trusts. Demand is predicted to increase by more than 50% over the next 20 years.]
Books

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Practical emergency ophthalmology handbook: an algorithm based approach to ophthalmic emergencies / Williams, Gwyn Samuel; Shirodkar, Amy-lee (2020) WW580

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