

Cover image: Taken from Young, SM *et al.* Lacrimal gland pleomorphic adenoma and malignant epithelial tumours: clinical and imaging differences. See page 266.

**Editors-in-Chief**

Keith Barton (UK)  
 Jost Jonas (Germany)  
 James Chodosh (USA)

**Editorial Office**

BMJ Publishing Group Ltd,  
 BMA House, Tavistock Square,  
 London WC1H 9JR, UK  
 T: +44 (0)20 7111 1105  
 E: [bjo@bmj.com](mailto:bjo@bmj.com)  
 Twitter: @BJOphthalmology

ISSN: 0007-1161 (print)  
 ISSN: 1468-2079 (online)

**Impact factor: 3.384**

**Disclaimer:** British Journal of Ophthalmology is owned and published by BMJ Publishing Group Ltd, a wholly owned subsidiary of the British Medical Association. The owner grants editorial freedom to the Editor of British Journal of Ophthalmology.

British Journal of Ophthalmology follows guidelines on editorial independence produced by the World Association of Medical Editors and the code on good publication practice of the Committee on Publication Ethics.

British Journal of Ophthalmology is intended for medical professionals and is provided without warranty, express or implied. Statements in the journal are the responsibility of their authors and advertisers and not authors' institutions, the BMJ Publishing Group Ltd or the BMA unless otherwise specified or determined by law. Acceptance of advertising does not imply endorsement.

To the fullest extent permitted by law, the BMJ Publishing Group Ltd shall not be liable for any loss, injury or damage resulting from the use of British Journal of Ophthalmology or any information in it whether based on contract, tort or otherwise. Readers are advised to verify any information they choose to rely on.

**Copyright:** © 2019 BMJ Publishing Group Ltd. All rights reserved; no part of this publication may be reproduced, stored in a retrieval system or transmitted in any form or by any means, electronic, mechanical, photocopying, recording or otherwise without the prior permission of British Journal of Ophthalmology.

British Journal of Ophthalmology is published by BMJ Publishing Group Ltd, typeset by Exeter Premedia Services Private Limited, Chennai, India and printed in the UK on acid-free paper.

British Journal of Ophthalmology (ISSN 0007-1161) is published monthly by BMJ Publishing Group and is distributed in the USA by Air Business Ltd. Periodicals postage paid at Jamaica NY 11431  
 POSTMASTER: send address changes to British Journal of Ophthalmology, Air Business Ltd, c/o Worldnet Shipping Inc., 156-15, 146th Avenue, 2nd Floor, Jamaica, NY 11434, USA.

**Global issues**

**157** Active cytomegalovirus retinitis after the start of antiretroviral therapy  
*D Heiden, NN Tun, F N Smithuis, J D Keenan, C E Oldenburg, G N Holland, W L Drew*

**Reviews**

**161** Recent advances in genetically modified animal models of glaucoma and their roles in drug repositioning  
*C Harada, A Kimura, X Guo, K Namekata, T Harada*

**167** Artificial intelligence and deep learning in ophthalmology  
*D S W Ting, L R Pasquale, L Peng, J P Campbell, A Y Lee, R Raman, G S W Tan, L Schmetterer, P A Keane, T Y Wong*

**Clinical science**

**176** Microinterventional endocapsular nucleus disassembly: novel technique and results of first-in-human randomised controlled study  
*T Ianchulev, D F Chang, E Koo, S MacDonald, E Calvo, F T Tyson, A Vasquez, I I K Ahmed*

**181** Corneal shape changes of the total and posterior cornea after temporal versus nasal clear corneal incision cataract surgery  
*K Hayashi, T Sato, M Yoshida, K Yoshimura*

**186** True rotational stability of a single-piece hydrophobic intraocular lens  
*D Schartmüller, S Schriefl, L Schwarzenbacher, C Leydolt, R Menapace*

**191** Prevalence of glaucoma in the Australian National Eye Health Survey  
*S Keel, J Xie, J Foreman, P Y Lee, M Alwan, E T Fahy, P van Wijngaarden, J C Fan Gaskin, G S Ang, J G Crowston, H R Taylor, M Dirani*

**196** Inter-relationship between ageing, body mass index, diabetes, systemic blood pressure and intraocular pressure in Asians: 6-year longitudinal study  
*J Chua, M L Chee, C W L Chin, Y C Tham, N Tan, S H Lim, T Aung, C-Y Cheng, T Y Wong, L Schmetterer*

**203** Resting nailfold capillary blood flow in primary open-angle glaucoma  
*C C Cousins, J C Chou, S H Greenstein, S C Brauner, L Q Shen, A V Turalba, P Houlihan, R Rich, J L Wiggs, P A Knepper, L R Pasquale*

**208** Correspondence between retinotopic cortical mapping and conventional functional and morphological assessment of retinal disease  
*M Ritter, A Hummer, A A Ledolter, G E Holder, C Windischberger, U M Schmidt-Erfurth*

**216** Quantifying vascular density and morphology using different swept-source optical coherence tomography angiographic scan patterns in diabetic retinopathy  
*T Hirano, J Kitahara, Y Toriyama, H Kasamatsu, T Murata, S Sadda*



**222** Microaneurysm turnover is a predictor of diabetic retinopathy progression  
*R K R Pappuru, L Ribeiro, C Lobo, D Alves, J Cunha-Vaz*

**227** Impact of drusen and drusenoid retinal pigment epithelium elevation size and structure on the integrity of the retinal pigment epithelium layer  
*F Schlanitz, B Baumann, S Sacu, L Baumann, M Pircher, C K Hitzzenberger, U M Schmidt-Erfurth*

**233** Retrospective cohort study exploring whether an association exists between spatial distribution of cystoid spaces in cystoid macular oedema secondary to retinitis pigmentosa and response to treatment with carbonic anhydrase inhibitors  
*S A Strong, N Hirji, A Quarilho, A Kalitzeos, M Michaelides*

**238** Long-term reconstruction of foveal microstructure and visual acuity after idiopathic macular hole repair: three-year follow-up study  
*M Kitao, T Wakabayashi, K Nishida, H Sakaguchi, K Nishida*

**MORE CONTENTS ▶**

 This article has been chosen by the Editor to be of special interest or importance and is freely available online.  
 This article has been made freely available online under the BMJ Journals open access scheme. See <http://authors.bmj.com/open-access>

 This journal is a member of and subscribes to the principles of the Committee on Publication Ethics  
[www.publicationethics.org.uk](http://www.publicationethics.org.uk)  
 Member since 2008 JM00005

 equator network

 **recycle**  
 When you have finished with this magazine please recycle it.

- 245** Comparative analysis of large macular hole surgery using an internal limiting membrane insertion versus inverted flap technique  
*J H Park, S M Lee, S W Park, J E Lee, I S Byon*
- 251** Atypical epiretinal tissue in full-thickness macular holes: pathogenic and prognostic significance  
*K Bae, S M Lee, S W Kang, E S Kim, S-Y Yu, K T Kim*
- 257** Efficacy of non-fovea-sparing ILM peeling for symptomatic myopic foveoschisis with and without macular hole  
*A H Al-Badawi, M A S E Abdelhakim, T A Mackey, H A Mortada*
- 264** Lacrimal gland pleomorphic adenoma and malignant epithelial tumours: clinical and imaging differences  
*S M Young, Y-D Kim, H J Shin, Y Imagawa, S S Lang, K I Woo*
- 269** Clinical characteristics and treatment outcomes of natural killer/T-cell lymphoma involving the ocular adnexa  
*G-I Lee, Y-D Kim, S M Young, S Shin, K I Woo*
- 274** Clinical features and visual outcomes of 111 patients with new-onset acute Vogt-Koyanagi-Harada disease treated with pulse intravenous corticosteroids  
*M Nakayama, H Keino, T Watanabe, A A Okada*
- 
- Laboratory science**
- 279** Novel gene targets for miRNA146a and miRNA155 in anterior uveitis  
*M O'Rourke, M Trenkmann, M Connolly, U Fearon, C C Murphy*
- 286** Synthetic biodegradable alternatives to the use of the amniotic membrane for corneal regeneration: assessment of local and systemic toxicity in rabbits  
*C Ramachandran, V S Sangwan, I Ortega, U Bhatnagar, S M A Mulla, R McKean, S MacNeil*