



Cover image: A set of bronze and iron Roman Ptolemaic instruments, dated around 1BC. The Alio Collection, Alicante, Spain. See page 20.

Editors-in-Chief

Harminder S Dua (UK)
 Arun D Singh (USA)

Translation Editors

Evelyn Fu (USA)
 José Gomes (Brazil)
 Alvin Kwok (Hong Kong)
 Merce Morral Palau (Spain)
 David Pelayes (Argentina)
 Daniel de Souza Pereira (Brazil)

Editorial Office

BMJ Publishing Group Ltd,
 BMA House, Tavistock Square,
 London WC1H 9JR, UK
 T: +44 (0)20 7383 6170
 F: +44 (0)20 7383 6668
 E: bjo@bmjgroup.com

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

Impact factor: 2.934

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: © 2012 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 TNQ Books & Journals, Chennai, India and printed in the UK on acid-free paper by Latimer Trend & Co Ltd, Plymouth.

British Journal of Ophthalmology (ISSN 0007-1161) is published monthly by BMJ Publishing Group and distributed in the US by Mercury International Ltd. Periodicals postage paid at Rahway, NJ. POSTMASTER: Send address changes to BJO, Mercury International Ltd, 365 Blair Road, Avenel, NJ 07001, USA

Editorial

1 Loss of reactivity in intravitreal anti-VEGF therapy: tachyphylaxis or tolerance?
S Binder

Review

3 Consensus statement on indications for anti-angiogenic therapy in the management of corneal diseases associated with neovascularisation: outcome of an expert roundtable
C Cursiefen, J Colin, R Dana, M Diaz-Llopis, L A Faraj, S Garcia-Delpech, G Geerling, F W Price, L Remeijer, B T Rouse, B Seitz, P Udaondo, D Meller, H Dua

Innovations

10 Oral rifampin utilisation for the treatment of chronic multifocal central serous retinopathy
N C Steinle, N Gupta, A Yuan, R P Singh

**Original articles
 Clinical science**

14 Bevacizumab and ranibizumab tachyphylaxis in the treatment of choroidal neovascularisation
J L Gasperini, A A Fawzi, A Khondkaryan, L Lam, L P Chong, D Elliott, A C Walsh, J Hwang, S R Sadda

21 Tachyphylaxis during treatment of exudative age-related macular degeneration with ranibizumab
M S Eghøj, T L Sørensen

24 Endothelial keratoplasty without Descemet's stripping in eyes with previous penetrating corneal transplants
J M Nottage, V S Nirankari

28 Long-term outcomes of MICOF keratoprosthesis in the end stage of autoimmune dry eyes: an experience in China
Y Huang, Y Dong, L Wang, G Du, J Yu, J Song, H H Chiang

34 Comparison of stem cell sources in the severity of dry eye after allogeneic haematopoietic stem cell transplantation
M Uchino, Y Ogawa, Y Uchino, T Mori, S Okamoto, K Tsubota

38 Management of blebitis in the United Kingdom: a survey
P J T Chiam, K Arashvand, A Shaikh, B James

42 Assessment of a new Goldmann applanation tonometer
M Egli, D Goldblum, A Kipfer, K Rohrer, C Tappeiner, M Abegg, L Berger, A Schoetzau, M E Iliev

47 Retinal nerve fibre layer and visual function loss in glaucoma: the tipping point
G Wollstein, L Kagemann, R A Bilonick, H Ishikawa, L S Folio, M L Gabriele, A K Ungar, J S Duker, J G Fujimoto, J S Schuman

53 Optic nerve sheath diameter in normal-tension glaucoma patients
G P Jaggi, N R Miller, J Flammer, R N Weinreb, L Remonda, H E Killer

57 The influence of axial length on retinal nerve fibre layer thickness and optic-disc size measurements by spectral-domain OCT
G Savini, P Barboni, V Parisi, M Carbonelli

62 Impairment of contrast visual acuity as a functional correlate of retinal nerve fibre layer thinning and total macular volume reduction in multiple sclerosis
M Bock, A U Brandt, J Kuchenbecker, J Dörr, C F Pfueller, N Weinges-Evers, G Gaede, H Zimmermann, J Bellmann-Strobl, S Ohlraun, F Zipp, F Paul

68 Characteristics and appearance of the normal optic nerve head in 6-year-old children
C Samarawickrama, A Pai, Y Tariq, P R Healey, T Y Wong, P Mitchell

73 Smooth pursuit in infants: maturation and the influence of stimulation
C Pieh, F Proudlock, I Gottlob

MORE CONTENTS ►



This article has been chosen by the Editor to be of special interest or importance and is freely available online.




Articles carrying the Unlocked Logo are freely available online under the BMJ Journals unlocked scheme. See <http://bjo.bmj.com/info/unlocked.dtl>



This journal is a member of and subscribes to the principles of the Committee on Publication Ethics

www.publicationethics.org.uk



- 78** Assessment of binocular alignment using the three-dimensional Strabismus Photo Analyzer
H K Yang, S B Han, J-M Hwang, Y J Kim, C B Jeong, K G Kim
- 83** Screening for amblyopia risk factors in pre-verbal children using the Plusoptix photoscreener: a cross-sectional population-based study
A A Saber Moghaddam, A Kargozar, M Zarei-Ghanavati, M Najjaran, V Nozari, M T Shakeri
- 87** Poststreptococcal syndrome uveitis in South African children
C Tinley, L Van Zyl, R Grötte
- 90** The use of punctal plugs in children
A Mataftsi, R G Subbu, S Jones, K K Nischal
-  **93** Stratus OCT image analysis with spectral-domain OCT (Topcon 3D OCT Viewer)
S-W Kim, J Oh, K-S Yang, Y H Kim, J W Park, J W Rhim, K Huh
- 99** Intraocular sarcoidosis: association of clinical characteristics of uveitis with findings from ¹⁸F-labelled fluorodeoxyglucose positron emission tomography
A Rahmi, E Deshayes, D Maucort-Boulch, L Varron, J D Grange, L Kodjikian, P Seve
- 104** Multifocal pattern electroretinography for the detection of neural loss in eyes with permanent temporal hemianopia or quadrantanopia from chiasmal compression
M L R Monteiro, K Hokazono, L P Cunha, M K Oyamada
- 110** The fellow eye in retinal detachment: findings from the Scottish Retinal Detachment Study
D Mitry, J Singh, D Yorston, M A R Siddiqui, A L Murphy, A F Wright, B W Fleck, H Campbell, D G Charteris
- 114** The economic cost of posterior capsule tear at cataract surgery
D Qatarneh, R G Mathew, S Palmer, C Bunce, S Tuft
- 118** A cadaveric study of ethmoidal foramina variation and its surgical significance in Caucasians
S F Abed, P Shams, S Shen, P J Addis, J M Uddin

Laboratory science

- 122** Interface quality of endothelial keratoplasty buttons obtained with optimised femtosecond laser settings
A Rousseau, A Bensalem, V Garnier, M Savoldelli, J-J Saragoussi, G Renard, J-L Bourges
- 128** Comparative gene expression profiling of human umbilical vein endothelial cells and ocular vascular endothelial cells
A C Browning, E P Halligan, E A Stewart, D C Swan, R Dove, G J Samaranyake, W M Amoaku

Education

- 133** Keratopathy: white patches, clear dots and grey lines
U Fares, F Mushtaq, D Said, H S Dua
- 134** Delayed interval of involvement of the second eye in a male patient with bilateral Chandler's syndrome
A-M Lobo, D J Rhee

PostScript

- 136** Letters

Cover illustration

- 20** Roman Ptolemaic instruments
J Alio, A Dua, A D Singh, H S Dua