



Journal of the British Cardiovascular Society

## Guidelines for Authors and Reviewers

Full instructions are available online at <http://heart.bmj.com/fora>. Articles must be submitted electronically <http://submit-heart.bmj.com>. Authors retain copyright but are required to grant *Heart* an exclusive licence to publish <http://heart.bmj.com/fora/licence.dtl>

## Editorial Office

*Heart*, BMJ Publishing Group  
BMA House, Tavistock Square  
London WC1H 9JR, UK  
T: +44 (0) 20 7383 6622  
F: +44 (0) 20 7383 6668  
E: [heartjournal@bmjgroup.com](mailto:heartjournal@bmjgroup.com)  
ISSN: 1355-6037 (print)  
ISSN: 1468-201X (online)  
Impact factor: 5.014

**Disclaimer:** *Heart* is owned and published by BMJ Publishing Group Ltd (a wholly owned subsidiary of the British Medical Association) and the British Cardiovascular Society. The owners grant editorial freedom to the Editor of *Heart*. *Heart* 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.

*Heart* 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, the British Cardiovascular Society 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 shall not be liable for any loss, injury or damage resulting from the use of *Heart* 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:** © 2013 BMJ Publishing Group Ltd & British Cardiovascular Society. 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 prior permission.

*Heart* is published by BMJ Publishing Group Ltd, typeset by Techset, Chennai, India and printed in the UK on acid-free paper.

*Heart* (ISSN No 1355-6037) is published semi-monthly by BMJ Publishing Group and distributed in the USA by Air Business Ltd. Periodicals postage paid at Jamaica NY 11431. POSTMASTER: Send address changes to *Heart*, Air Business Ltd, c/o Worldnet Shipping Inc, 156-15, 146th Avenue, 2nd Floor, Jamaica, NY 11434, USA

Receive regular table of contents by email.  
Register using this QR code.



## Contents

Volume 99 Issue 14 | **HEART** 15 July 2013

## Editorials

- 973** The 10 'Best Buys' to combat heart disease, diabetes and stroke in Africa  
*B M Mayosi*
- 975** Percutaneous mitral valve repair using the MitraClip system: time to move forward  
*D Messika-Zeitoun*
- 977** Plaques with high lipid burden: keeping the fat out of the fire  
*T Roleder, W Suh, R Sharma, H Hecht, J C Kovacic, J Narula, A S Kini*

## Global burden of cardiovascular disease

- 979** New insights on diabetes mellitus and obesity in Africa—Part 1: prevalence, pathogenesis and comorbidities  
*A P Kengne, J-B Echouffo-Tcheugui, E Sobngwi, J-C Mbanya*
- 984** Chronic exposure to biomass fuel is associated with increased carotid artery intima-media thickness and a higher prevalence of atherosclerotic plaque  
*M S Painschab, V G Davila-Roman, R H Gilman, A D Vasquez-Villar, S L Pollard, R A Wise, J J Miranda, W Checkley, CRONICAS Cohort Study Group*

## Translational medicine

- 992** Molecular targets of current and prospective heart failure therapies  
*E R Chemaly, R J Hajjar, L Lipskaia*

## Original articles

### Cardiovascular imaging

- 1004** CT stress perfusion imaging for detection of haemodynamically relevant coronary stenosis as defined by FFR  
*M Greif, F von Ziegler, F Bamberg, J Tittus, F Schwarz, M D'Anastasi, R P Marcus, J Schenzle, C Becker, K Nikolaou, A Becker*

### Hypertrophic cardiomyopathy

- 1012** Alcohol septal ablation in patients with hypertrophic obstructive cardiomyopathy: low incidence of sudden cardiac death and reduced risk profile  
*M K Jensen, C Prinz, D Horstkotte, F van Buuren, T Bitter, L Faber, H Bundgaard*

### Heart rhythm disorders

- 1018** Suitability for subcutaneous defibrillator implantation: results based on data from routine clinical practice  
*M K de Bie, J Thijssen, J B van Rees, H Putter, E T van der Velde, M J Schali, L van Erven*

### Epidemiology

- 1024** Interaction between dietary marine-derived n-3 fatty acids intake and J-point elevation on the risk of cardiac death: a 24-year follow-up of Japanese men  
*T Hisamatsu, K Miura, T Ohkubo, T Yamamoto, A Fujiyoshi, N Miyagawa, A Kadoita, N Takashima, N Okuda, Y Matsumura, K Yoshiita, Y Kita, Y Murakami, Y Nakamura, T Okamura, M Horie, A Okayama, H Ueshima, for the NIPPON DATA80 Research Group*

- 1030** Family history, comorbidity and risk of thoracic aortic disease: a population-based case-control study  
*C Olsson, F Granath, E Ståhle*

## Valvular heart disease

- 1034** Predictors for efficacy of percutaneous mitral valve repair using the MitraClip system: the results of the MitraSwiss registry  
*D Sürder, G Pedrazzini, O Gaemperli, P Biaggi, C Felix, K Rufibach, Christof auf der Maur, R Jeger, P Buser, B A Kaufmann, M Moccetti, D Hürlimann, I Bühler, D Bettex, J Scherman, E Pasotti, F F Faletra, M Zuber, T Moccetti, T F Lüscher, P Erne, J Grünenfelder, R Corti*

## Basic research

- 1041** Cardiomyocyte specific adipose triglyceride lipase overexpression prevents doxorubicin induced cardiac dysfunction in female mice  
*J Nagendran, P C Kienesberger, T Pulimilkunnil, B N Zordoky, M M Sung, T Kim, M E Young, J R B Dyck*

## Education in Heart

- 1048** Role of tomographic imaging in preoperative planning and postoperative assessment in cardiovascular surgery  
*A C Y To, P Schoenhagen, M Y Desai*

## JournalScan

- 1061** Cardiovascular highlights from non-cardiology journals  
*A C Lindsay*

## PostScript

- 1063** Correspondence

## Corrections

- 1063** Corrections

## Images in cardiology

- 1064** The diagnosis of apical hypertrophic cardiomyopathy with myocardial perfusion imaging  
*H Jouni, J B Geske, T D Miller*
- 1066** Hypoxia exacerbated by mechanical ventilation: when the trap door opens in severe right ventricular failure  
*A D Margulescu, R Wheeler, F T Leong*



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://heart.bmj.com/site/about/guidelines.xhtml#open>



COMMITTEE ON PUBLICATION ETHICS

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)

