



Journal of the British Cardiovascular Society

### Guidelines for Authors and Reviewers

Full instructions are available online at <http://heart.bmj.com/iftora>. Articles must be submitted electronically <http://heart.bmj.com/submit>. Authors retain copyright but are required to grant *Heart* an exclusive licence to publish <http://heart.bmj.com/iftora/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@bmj.com](mailto:heartjournal@bmj.com)  
Twitter: @Heart\_BMJ  
ISSN: 1355-6037 (print)  
ISSN: 1468-201X (online)

Impact factor: 5.693

**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:** © 2017 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 Nova Techset Private Limited, Bengaluru & 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



## Heartbeat

**399** Heartbeat: Blood urea nitrogen to creatinine ratio predicts outcome in acute heart failure  
*C M Otto*

## Editorials

**402** Blood urea nitrogen to creatinine ratio in acute heart failure: an old concept brought to reality?  
*J Núñez*

**404** Stressing the right ventricular-pulmonary vascular unit: beyond pulmonary vascular resistance  
*G Claessen, A La Gerche*

## Heart failure and cardiomyopathies

**407** Blood urea nitrogen-to-creatinine ratio in the general population and in patients with acute heart failure  
*Y Matsue, P van der Meer, K Damman, M Metra, C M O'Connor, P Ponikowski, J R Teerlink, G Cotter, B Davison, J G Cleland, M M Givertz, D M Bloomfield, H C Dittrich, R T Gansevoort, S J L Bakker, P van der Harst, H L Hillege, D J van Veldhuisen, A A Voors*

**414** Dipeptidyl peptidase-4 inhibitors and cardiovascular risks in patients with pre-existing heart failure  
*S-M Ou, H-T Chen, S-C Kuo, T-J Chen, C-J Shih, Y-T Chen*

## Pulmonary vascular disease

**421** Reduced haemodynamic coupling and exercise are associated with vascular stiffening in pulmonary arterial hypertension  
*A Bellofiore, E Dinges, R Naeije, H Merdichian, B-N Lauren, M Bailey, M J Cuttica, R Sweis, J R Runo, J G Keevil, C J Francois, S J Shah, N C Chesler*

## Coronary artery disease

**428** Coronary bypass surgery versus stenting in multivessel disease involving the proximal left anterior descending coronary artery  
*R Cavalcante, Y Sotomi, Y Zeng, C W Lee, J-M Ahn, C Collet, E Tenekecioglu, P Suwannasom, Y Onuma, S-J Park, P W Serruys*

## Congenital heart disease

**434** Estimated glomerular filtration rate and urine biomarkers in patients with single-ventricle Fontan circulation  
*A R Opatowsky, F R Baraona, F R Mc Causland, B Loukas, E Landzberg, M J Landzberg, V Sabbisetti, S S Waikar*

## Aortic and vascular disease

**443** Echocardiographic phenotype in osteogenesis imperfecta varies with disease severity  
*E T Rush, L Li, J L Goodwin, R M Kreikemeier, M Craft, D A Danford, S Kutty*

## Special populations

**449** Stop vasodepressor drugs in reflex syncope: a randomised controlled trial  
*D Solari, F Tesi, M Unterhuber, G Gaggioli, A Ungar, M Tomaino, M Brignole*

## Review

**456** Development of the atrial septum in relation to postnatal anatomy and interatrial communications  
*B Jensen, D E Spicer, M N Sheppard, R H Anderson*

## Education in Heart

**463** Management of young competitive athletes with cardiovascular conditions  
*A D'Silva, S Sharma*

## Image challenge

**455** A 33-year-old man with atypical chest pain  
*A J Moss, M R Dweck, A D Flapan*



OPEN ACCESS



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>

COPE

Member since 2008

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)



**MCQs** The online version of this article contains multiple choice questions hosted on BMJ Learning.