



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 6235

F: +44 (0) 20 7383 6668

E: [heartjournal@bmjgroup.com](mailto:heartjournal@bmjgroup.com)

ISSN: 1355-6037 (print)

ISSN: 1468-201X (online)

Impact factor: 4.706

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

Heart (ISSN No 1355-6037) is published semi-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 Heart, Mercury International Ltd, 365 Blair Road, Avenel, NJ 07001, USA

**Editorials**

**173** Efficacy and safety of a routine invasive strategy in non-ST segment elevation acute coronary syndromes according to age: an illustration of the difficulty in using combined endpoints with different clinical significance  
*N Danchin, E Puymirat*

**175** Final kissing balloon inflations after main vessel stenting in coronary bifurcations: not always, but sometimes  
*D Hildick-Smith*

**Systematic review**

**177** Improvements in risk stratification for the occurrence of cardiovascular disease by imaging subclinical atherosclerosis: a systematic review  
*S A E Peters, H M den Ruijter, M L Bots, K G M Moons*

**Global burden of cardiovascular disease**

**185** Effect of rural-to-urban within-country migration on cardiovascular risk factors in low- and middle-income countries: a systematic review  
*A V Hernández, V Pasupuleti, A Deshpande, A Bernabé-Ortiz, J J Miranda*

**Original articles**

**Heart rhythm disorders**

**195** Symptoms, functional status and quality of life in patients with controlled and uncontrolled atrial fibrillation: data from the RealiseAF cross-sectional international registry  
*P G Steg, S Alam, C-E Chiang, H Gamra, M Goethals, H Inoue, L Krapp, T Lewalter, I Merioua, J Murin, L Naditch-Brûlé, P Ponikowski, M Rosenqvist, J Silva-Cardoso, O Zharinov, S Brette, J O Neill, on behalf of the RealiseAF investigators*

**202** Accuracy of algorithms to predict accessory pathway location in children with Wolff–Parkinson–White syndrome  
*C Wren, M Vogel, S Lord, D Abrams, J Bourke, P Rees, E Rosenthal*

**Acute coronary syndromes**

**207** Effects of age on long-term outcomes after a routine invasive or selective invasive strategy in patients presenting with non-ST segment elevation acute coronary syndromes: a collaborative analysis of individual data from the FRISC II - ICTUS - RITA-3 (FIR) trials  
*P Damman, T Clayton, L Wallentin, B Lagerqvist, K A A Fox, A Hirsch, F Windhausen, E Swahn, S J Pocock, J G P Tijssen, R J de Winter*

**Bimarkers and heart disease**

**214** Association of soluble tumour necrosis factor-related apoptosis-inducing ligand levels with coronary plaque burden and composition  
*S Deftereos, G Giannopoulos, C Kossyvakis, A Kaoukis, K Raisakis, V Panagopoulou, A Miliou, A Theodorakis, M Driva, V Pyrgakis, C Stefanadis, M W Cleman*

**219** Serum phosphate is associated with left ventricular mass in patients with chronic kidney disease: a cardiac magnetic resonance study  
*C D Chue, N C Edwards, W E Moody, R P Steeds, J N Townend, C J Ferro*

**Interventional cardiology**

**225** Final kissing ballooning and long-term clinical outcomes in coronary bifurcation lesions treated with 1-stent technique: results from the COBIS registry  
*H-C Gwon, J-Y Hahn, B-K Koo, Y B Song, S-H Choi, J-H Choi, S H Lee, M-H Jeong, H-S Kim, I-W Seong, J-Y Yang, S W Rha, Y Jang, J H Yoon, S-J Tahk, K B Seung, S-J Park*

**Cardiovascular imaging**

**232** Age- and gender-specific differences in the prognostic value of CT coronary angiography  
*K H Yiu, F R de Graaf, J D Schuijff, J M van Werkhoven, N Ajmone Marsan, C E Veltman, A de Roos, A Pazhenkottil, L J Kroft, E Boersma, B Herzog, M Leung, E Maffei, D Y Leung, P A Kaufmann, F Cademartiri, J J Bax, J W Jukema*

**Pulmonary hypertension**

**238** Right ventriculo-arterial coupling in pulmonary hypertension: a magnetic resonance study  
*J Sanz, A García-Alvarez, L Fernández-Friera, A Nair, J G Mirelis, S T Sawit, S Pinney, V Fuster*

**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://heart.bmj.com/info/unlocked.dtl>

**C O P E** 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)



### Technology and guidelines

- 244** Adjunctive pharmacotherapies for intermittent claudication—NICE guidance  
*J Shalhoub, A H Davies*

### Education in Heart

- 246** Future applications of contrast echocardiography  
*B P Davidson, J R Lindner*
- 254** Resistant hypertension  
*R H Fagard*

### JournalScan

- 262** Cardiovascular highlights from non-cardiology journals

### PostScript

- 263** Correspondence

### Images in cardiology

- 264** Cardiac MRI of Lyme disease myocarditis  
*B Maher, D Murday, S P Harden*
- 265** Extensive right pulmonary artery dissection in a young patient with chronic pulmonary hypertension  
*V Russo, M Zompatori, N Galie*

## Subscription Information

Heart is published fortnightly; subscribers receive all supplements and Education in Heart  
ISSN 1355-6037 (print); 1468-201X (online)

### Institutional Rates 2012

**Print**  
£702; US\$1369; €948

#### Online

Site licences are priced on FTE basis and allow access by the whole institution. Print is available at deeply discounted rates for online subscribers; details available online at <http://group.bmj.com/group/subs-sales> or contact the Subscription Manager in the UK (see above right)

Personal print or online only and institutional print subscriptions may be purchased online at <http://group.bmj.com/group/subs-sales> (payment by Visa/Mastercard only)

Residents of some EC countries must pay VAT; for details, call us or visit [www.bmj.com/subscriptions/vatandpaymentinfo.dtl](http://www.bmj.com/subscriptions/vatandpaymentinfo.dtl)

### Personal Rates 2012

**Print** (includes online access at no additional cost)  
£272; US\$531; €368

#### Online only

£139; US\$272; €188

#### Education in Heart online only

£62; US\$121; €84