



Journal of the British Cardiovascular Society

Guidelines for Authors and Reviewers

Full instructions are available online at <http://heart.bmj.com/pages/authors>. Articles must be submitted electronically <http://authors.bmj.com/submitting-your-paper/>. Authors retain copyright but are required to grant *Heart* an exclusive licence to publish (<http://authors.bmj.com/submitting-your-paper/copyright-and-authors-rights/>).

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
Twitter: @Heart_BMJ
ISSN: 1355-6037 (print)
ISSN: 1468-201X (online)
Impact factor: 5.420

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: © 2019 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 Exeter Premedia Services Private Ltd, 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

171 Heartbeat: Fixed dose combination drugs for hypertension
A L Ribeiro, C M Otto

Editorials

174 Can coronary computed tomography angiography be the complete roadmap for chronic total occlusion management?
C F de Azevedo, M S Bittencourt

176 Fixed-dose combination medications for non-communicable diseases
R Webster

178 Cochrane corner: inotropic agents and vasodilator strategies for cardiogenic shock or low cardiac output syndrome
J Schumann

Reviews

180 Epidemiology of pericardial diseases in Africa: a systematic scoping review
J J Noubiap, V N Agbor, A L Ndoadoumgue, J R Nkeke, A Kamguia, U F Nyaga, M Ntseke

189 Ischaemic heart disease and pregnancy
M Cauldwell, L Baris, J W Roos-Hesselink, M R Johnson

Coronary artery disease

196 Prognostic value of chronic total occlusions detected on coronary computed tomographic angiography
M P Opolski, H Gransar, Y Lu, S Achenbach, M H Al-Mallah, D Andreini, J J Bax, D S Berman, M J Budoff, F Cademartiri, T Q Callister, H-J Chang, K Chinnaiyan, B JW Chow, R C Cury, A DeLago, G M Feuchter, M Hadamitzky, J Hausleiter, P A Kaufmann, Y-J Kim, J A Leipsic, E C Maffei, H Marques, G Pontone, G Raff, R Rubinshtein, L J Shaw, T C Villines, M Gomez, E C Jones, J M Peña, J K Min, F Y Lin

Healthcare delivery, economics and global health

204 Fixed-dose combination antihypertensives and risk of medication errors
F Moriarty, K Bennett, T Fahey



Heart failure and cardiomyopathies

210 Biomarkers to diagnose ventricular dysfunction in childhood cancer survivors: a systematic review
J M Leerink, S J Verkleij, E A M Feijen, A M C Mavinkurve-Groothuis, M S Pournier, K Ylänen, W J E Tissing, M Louwerens, M M van den Heuvel, E van Dulmen-den Broeder, A C H de Vries, C M Ronckers, H J H van der Pal, L Kapusta, J Loonen, L Bellerse, Y M Pinto, L C M Kremer, W E M Kok

Cardiac risk factors and prevention

217 Cardiac consequences of spinal cord injury: systematic review and meta-analysis
A M Williams, C M Gee, C Voss, C R West

226 Established and novel risk factors for atrial fibrillation in women compared with men
S A E Peters, M Woodward

Arrhythmias and sudden death

235 Effect of apixaban compared with warfarin on coagulation markers in atrial fibrillation
C Christersson, L Wallentin, U Andersson, J H Alexander, M Alings, R De Caterina, B J Gersh, C B Granger, S Halvorsen, M Hanna, K Huber, E M Hylek, R D Lopes, B-H Oh, A Siegbahn

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



Member since 2008

This journal is a member of and subscribes to the principles of the Committee on Publication Ethics
www.publicationethics.org.uk



When you have finished with this magazine please recycle it.



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

244 Impact of body mass index on the outcome of catheter ablation of atrial fibrillation

B M Glover, K L Hong, N Dagues, E Arbelo, C Laroche, S Riahi, M Bertini, E N Mikhaylov, J Galvin, M Kiliszek, E Pokushalov, J Kautzner, N Calvo, C Blomström-Lundqvist, J Brugada, on behalf of the ESC-EHRA Atrial Fibrillation Ablation Long-Term Registry investigators

Education in Heart**252** Cardiac transplantation: indications, eligibility and current outcomes**MCQs**

S K Bhagra, S Pettit, J Parameshwar

Image challenge**234** Chain pain following cardiac surgery in a 35-year-old man

B Marchandot, B Radulescu, O Morel