



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 <https://mc.manuscriptcentral.com/heart>. 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
E: info.heart@bmj.com
Twitter: @Heart_BMJ
ISSN: 1355-6037 (print)
ISSN: 1468-201X (online)
Impact factor: 5.213

Disclaimer: The Editor of *Heart* has been granted editorial freedom and *Heart* is published in accordance with editorial guidelines issued by the World Association of Medical Editors and the Committee on Publication Ethics. *Heart* is primarily intended for healthcare professionals and its content is for information only. The Journal is published without any guarantee as to its accuracy or completeness and any representations or warranties are expressly excluded to the fullest extent permitted by law. Readers are advised to independently verify any information on which they choose to rely. Acceptance of advertising by *Heart* does not imply endorsement. Neither *British Cardiovascular Society* nor BMJ Publishing Group Limited shall have any liability for any loss, injury or damage howsoever arising from *Heart* (except for liability which cannot be legally excluded).

Copyright: © 2021 BMJ Publishing Group Ltd & British Cardiovascular Society. All rights reserved; no part of this publication may be reproduced in any form without 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 1355-6037 (USPS 2154) is published bimonthly by BMJ Publishing Group Ltd, BMA House, Tavistock Square, WC1H 9JR London. Airfreight and mailing in the USA by agent named World Container Inc, 150-15, 183rd Street, Jamaica, NY 11413, USA. Periodicals postage paid at Brooklyn, NY 11256. US Postmaster: Send address changes to *Heart*, World Container Inc, 150-15, 183rd Street, Jamaica, NY 11413, USA. Subscription records are maintained at BMA House, Tavistock Square WC1H 9HR London. Air Business Ltd is acting as our mailing agent.



Heartbeat

- 173 Heartbeat: the COVID-19 pandemic and the future of cardiology
C M Otto

Editorials

- 176 Biomarkers for detection of a thrombus in the left atrial appendage: the search for the grail?
C R Sinning
- 178 Why do poor patients have poor outcomes? Shedding light on the neglected facet of poverty and heart failure
A Zimmerman, L E Rohde
- 180 Would increasing stress on the heart decrease stress on the doctor? Decision-making in asymptomatic pulmonary regurgitation
D W Baker, D S Celermajer

Reviews

- 183 Cardiovascular genetics: the role of genetic testing in diagnosis and management of patients with hypertrophic cardiomyopathy
M Ahluwalia, C Y Ho
- 190 Obstructive sleep apnoea, intermittent hypoxia and heart failure with a preserved ejection fraction
J E Sanderson, F Fang, M Lu, C Y Ma, Y X Wei

Arrhythmias and sudden death

- 195 D-dimer blood concentrations to exclude left atrial thrombus in patients with atrial fibrillation
A Almorad, A Ohanyan, G Pintea Bentea, J Wielandts, M El Haddad, M Lycke, L O'Neill, M Morissens, E De Keyzer, T Nguyen, L Anghel, S Samyn, B Berdaoui, R Tavernier, Y Vandekerckhove, M Duytschaever, T Verbeet, S Knecht, J Castro Rodriguez

- 201 Prevalence and incidence rates of atrial fibrillation in Norway 2004–2014
L J Kjerpeseth, J Igland, R Selmer, H Ellekjær, A Tveit, T Berge, S M Kalsjø, I E Christophersen, M Myrstad, E Skovlund, G M Egeland, G S Tell, I Ariansen



Cardiac risk factors and prevention

- 208 Income level and outcomes in patients with heart failure with universal health coverage
C-L Hung, T-F Chao, C-H Su, J-N Liao, K-T Sung, H-I Yeh, C-E Chiang



- 217 Residual risks of ischaemic stroke and systemic embolism among atrial fibrillation patients with anticoagulation: large-scale real-world data (F-CREATE project)
T Maeda, T Nishi, S Funakoshi, K Tada, M Tsuji, A Satoh, M Kawazoe, C Yoshimura, H Arima

Congenital heart disease

- 223 Predictors of low exercise cardiac output in patients with severe pulmonic regurgitation
C Karsenty, D Khraiche, J P Jais, F Raimondi, M Ladouceur, V Waldmann, G Soulat, F Pontnau, D Bonnet, L Iserin, A Legendre

Heart failure and cardiomyopathies

- 229 Lower socioeconomic status predicts higher mortality and morbidity in patients with heart failure
B Schrage, L H Lund, L Benson, D Stolfo, A Ohlsson, R Westerling, D Westermann, A Strömberg, U Dahlström, F Braunschweig, J P Ferreira, G Savarese

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
JM00008

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



When you have finished with this magazine please recycle it.



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

Coronary artery disease

- 237** D-dimer and the incidence of heart failure and mortality after acute myocardial infarction
X Zhang, S Wang, J Liu, Y Wang, H Cai, D Wang, S Fang, B Yu

Education in Heart

- 245** Advanced heart failure and transplant in congenital heart disease
MCQs
L Reardon, J Lin

Cardiology in focus

- 254** Highlights of the British Cardiovascular Society's Future of Cardiology Working Group paper
S Hudson, On behalf of the British Cardiovascular Society's Future of Cardiology Working Group

Image challenge

- 194** Unusual coronary angiogram
D Nalawade, A S Chaurasia, P H Bawaskar