

## Editor

Adam D Timmis (UK)

## Commissioning Editor

Iqbal Malik (UK)

## Images in Cardiology

Ajay Jain (UK)  
Andrew Wragg (UK)

## Correspondence Editor

Michael Burch

## Associate Editors

Jeroen Bax (Netherlands)  
Michael Burch (UK)  
Keith Channon (UK)  
Andrew Clark (UK)  
Gene Feder (UK)  
Brian Griffin (USA)

## Deputy Editor

John E Sanderson (UK)

## Technology and Guidelines in Heart

Ceri Davies (UK)

## JournalScan

Alistair Lindsay

## Statistical Advisor

Alex McConnachie

## Education in Heart

### Series Editor

Peter Mills

### Project Manager

John Weller

## Section Editors

Jeroen Bax, Martin Cowie, Pim de Feyter, Christian Hamm, Catherine M Otto, Richard Schilling, Alec Vahanian

## Editorial Assistant

Stephanie Watkins

## Production Editor

Sophie Pezaro

## Managing Editor

Janet O'Flaherty

## Development Editor

Claire Jura

## International Advisory Board

See full details page iv

## Impact Factor 3.708

## Guidelines for authors and reviewers

Full instructions are available online at <http://heart.bmj.com/fora>. All papers must be submitted via Bench>Press at <http://submit-heart.bmj.com>

## Subscription information

See p iv

## Disclaimer

*Heart* is published by BMJ Publishing Group Ltd, a wholly owned subsidiary of the British Medical Association, and the British Cardiovascular Society. The BMA grants 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 Ltd, 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 Ltd 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

© 2007 BMJ Publishing Group Ltd and 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 of *Heart*

• Authors are required to grant *Heart* an exclusive licence to publish; further details available online at <http://heart.bmj.com/fora/licence.dtl>

• *Heart* is published by BMJ Publishing Group Ltd, typeset by The Charlesworth Group, and printed in UK on acid-free paper by Latimer Trend & Co Ltd, Plymouth, UK

• Periodicals postage paid, Rahway, New Jersey, USA. Postmaster: send address changes to: *Heart*, c/o Mercury Airfreight International Ltd, 365 Blair Road, Avenel, NJ 07001, USA



## Featured editorial

- 1493 Metabolic syndrome, dysglycaemia and vascular disease: making sense of the evidence *D Preiss, N Sattar*

## Editorials

- 1497 Preoperative screening for coronary disease: who needs it and how do you do it? *N Sutaria, J Mayet*
- 1500 Coronary stenting: why size matters *E De Benedetti, P Urban*
- 1502 Watching the right ventricle in treated congenital heart disease *T L Gentles*
- 1504 Mortality after myocardial infarction in patients with diabetes mellitus *A Kapur, R De Palma*
- 1507 Cardiovascular disease and airline travel *M Joy*

## Global burden of cardiovascular disease

- 1510 Epidemiology and prevention of valvular heart diseases and infective endocarditis in Africa *V T Nkomo*

## Review

- 1520 Cardiac magnetic resonance in myocardial disease *U Sechtem, H Mahrholdt, H Vogelsberg*

## Viewpoint

- 1528 New guidelines for drive-by renal arteriography may lead to an unjustifiable increase in percutaneous intervention *J W Dear, P L Padfield, D J Webb*
- 1530 Commentary: Shoot the renals! *F C Luft, C M Gross*

## Rapid communication

- 1533 Serial long-term evaluation of neointimal stent coverage and thrombus after sirolimus-eluting stent implantation by use of coronary angiography *M Takano, M Yamamoto, Y Xie, D Murakami, S Inami, K Okamoto, K Seimiya, T Ohba, Y Seino, K Mizuno*

## Original research

### Coronary artery disease

- 1537 Neopterin is associated with plaque inflammation and destabilisation in human coronary atherosclerotic lesions *T Adachi, T Naruko, A Itoh, R Komatsu, Y Abe, N Shirai, H Yamashita, S Ehara, M Nakagawa, C Kitabayashi, Y Ikura, M Ohsawa, M Yoshiyama, K Haze, M Ueda*

### Acute coronary syndromes

- 1542 Early impact of insulin treatment on mortality for hyperglycaemic patients without known diabetes who present with an acute coronary syndrome *C Weston, L Walker, J Birkhead, National Audit of Myocardial Infarction Project, National Institute for Clinical Outcomes Research*
- 1547 Troponin-I concentration 72 h after myocardial infarction correlates with infarct size and presence of microvascular obstruction *J F Younger, S Plein, J Barth, J P Ridgway, S G Ball, J P Greenwood*



[www.publicationethics.org.uk](http://www.publicationethics.org.uk)

This journal is a member of and subscribes to the principles of the Committee on Publication Ethics

1552 Relationship of treatment delays and mortality in patients undergoing fibrinolysis and primary percutaneous coronary intervention. The Global Registry of Acute Coronary Events  
*B K Nallamothu, K A A Fox, B M Kennelly, F Van de Werf, J M Gore, P G Steg, C B Granger, O H Dabbous, E Kline-Rogers, K A Eagle, on behalf of the GRACE Investigators*

## Interventional cardiology

1556 Randomised comparison of femoral versus radial approach for percutaneous coronary intervention using abciximab in acute myocardial infarction: results of the FARM Trial  
*C Brasselet, S Tassan, P Nazeyrollas, M Hamon, D Metz*

1562 Stent expansion: a combination of delivery balloon underexpansion and acute stent recoil reduces predicted stent diameter irrespective of reference vessel size  
*S Aziz, J L Morris, R A Perry, R H Stables*

## Epidemiology

1567 Socioeconomic status, pathogen burden and cardiovascular disease risk  
*A Steptoe, A Shamaei-Tousi, Å Gylfe, B Henderson, S Bergström, M Marmot*

## Diabetes, lipids and metabolism

1571 Abnormal left ventricular longitudinal functional reserve in patients with diabetes mellitus: implication for detecting subclinical myocardial dysfunction using exercise tissue Doppler echocardiography  
*J-W Ha, H-C Lee, E-S Kang, C-M Ahn, J-M Kim, J-A Ahn, S-W Lee, E-Y Choi, S-J Rim, J K Oh, N Chung*

1577 Improved but still high short- and long-term mortality rates after myocardial infarction in patients with diabetes mellitus: a time-trend report from the Swedish Register of Information and Knowledge about Swedish Heart Intensive Care Admission  
*A Norhammar, J Lindbäck, L Rydén, L Wallentin, U Stenström, on behalf of the Register of Information and Knowledge about Swedish Heart Intensive Care Admission (RIKS-HIA)*

1584 A propensity-matched study of the effect of diabetes on the natural history of heart failure: variations by sex and age  
*A Ahmed, I B Aban, V Vaccarino, D M Lloyd-Jones, D C Goff Jr, J Zhao, T E Love, C Ritchie, F O'Valle, G Gambassi, L J Dell'Italia*

## Cardiovascular surgery

1591 Clinical value of multidetector CT coronary angiography as a preoperative screening test before non-coronary cardiac surgery  
*V Russo, V Gastoli, L Lovato, M Montali, A Marzocchi, G Gavelli, A Branzi, R Di Bartolomeo, R Fattori*

## Congenital heart disease

1599 Adult patients with Eisenmenger syndrome report flying safely on commercial airlines  
*C S Broberg, A Uebing, L Cuomo, S L Thein, M G Papadopoulos, M A Gatzoulis*

1604 Right ventricular hypertrophy and diastolic dysfunction in arterial switch patients without pulmonary artery stenosis  
*H B Grotenhuis, L J M Kroff, S G C van Elderen, J J M Westenberg, J Doornbos, M G Hazekamp, H W Vliegen, J Ottenkamp, A de Roos*

## Basic research

1609 Coronary artery overexpansion increases neointimal hyperplasia after stent placement in a porcine model  
*R J Russo, P D Silva, M Yeager*

## Images in cardiology

These can be found on pages 1496, 1499, 1509, 1519, 1532, 1536, 1576, 1583, 1608.

## Technology and guidelines

1616 Alteplase for the treatment of acute ischaemic stroke: NICE technology appraisal guidance  
*H Chung, R R Camejo, D Barnett*

1617 Commentary on NICE guidelines for alteplase for the treatment of acute ischaemic stroke  
*R I Lindley*

## Featured correspondence

1619 Letters

## Education in Heart

1620 Non-invasive screening for coronary artery disease: calcium scoring  
*R Erbel, S Möhlenkamp, G Kerkhoff, T Budde, A Schmermund*

1630 Managing palpitations and arrhythmias during pregnancy  
*D L Adamson, C Nelson-Piercy*

1637 Cardiovascular MR and CT in congenital heart disease  
*A Crean*

## Miscellanea

1501 Web Top 10

1619 Corrections

## JournalScan

1648 Cardiovascular highlights from non-cardiology journals