

# Heart

Journal of the British Cardiovascular Society

## Editor

Adam D Timmis

## Deputy Editors

Perry Elliott

John E Sanderson

## Commissioning Editor

Saidi A Mohiddin

## Associate Editors

Jeroen Bax, Michael Burch, Andrew Clark, Stuart Cook, Brian Griffin, Christian Hamm, Robert Henderson, Charles Knight, Chim Lang, Reg Liew, Jim Nolan, Jill Pell, Raphael Rosenhek, Shu Ye, Cheuk-Man Yu

## Technology and Guidelines in Heart

Ceri Davies

## Images in Cardiology

Ajay Jain, Andrew Wragg

## Correspondence Editor

Michael Burch

## JournalScan

Alistair Lindsay

## Statistical Advisor

Alex McConnachie, Paul Johnson, Claudia-Martina Messow, Suzanne M Lloyd

## Education in Heart

### Series Editor

Jeroen Bax

### Project Manager

John Weller

### Section Editors

Josep Brugada, Martin Cowie, Christian Hamm, Johannes Holzmeister, Peter Mills, Catherine Otto, Frank Ruschitzka, Jim Thomas, Alec Vahanian, Christopher Wren

### California Chapter ACC

P K Shah (USA)

S Kaul (USA)

**Aims and Scope:** Heart is an international journal of cardiology. Clinical cardiology is its central theme; however, Heart also publishes basic science papers with a clear clinical application

## International Advisory Board

F Andreotti (Italy)

S Bhandari (India)

G Baxter (UK)

M Bennett (UK)

J Bermejo (Spain)

P Camici (UK)

D Celermajer (New Zealand)

K Channon (UK)

S Connolly (Canada)

M Cowie (UK)

N Danchin (France)

G Derumeaux (France)

A F Dominiczak (UK)

J Floras (Canada)

K Fox (UK)

W H Fung (Hong Kong)

R J Gibbons (USA)

P Grayburn (USA)

J Gunn (UK)

J W Ha (Republic of Korea)

L Harris (Canada)

H Hemingway (UK)

P Jais (France)

K Karsch (UK)

B Keavney (UK)

J Carlos Kaski (UK)

B Keogh (UK)

P Kistler (Australia)

R Kloner (USA)

M Komajda (France)

C Choy Lang (UK)

G A Lanza (Italy)

C Leclercq (France)

M Legget (New Zealand)

G Lip (UK)

P Ludman (UK)

T Luscher (Switzerland)

P MacCarthy (UK)

A Maggioni (Italy)

B Maron (USA)

T Marwick (Australia)

A Mathur (UK)

W McKenna (UK)

J McMurray (UK)

B Meier (Switzerland)

J-L Monin (France)

M Mullen (UK)

B Munt (Canada)

A Murday (UK)

S Neubauer (UK)

D Newby (UK)

C Newman (UK)

S Ohri (UK)

D Pennell (UK)

S Petersen (UK)

P Pibarot (Canada)

M F Piepoli (UK)

D Poldermans (The Netherlands)

B Prendergast (UK)

P Punjabi (UK)

S Redwood (UK)

D Sahn (USA)

N Samani (UK)

R Schilling (UK)

U Sechtem (Germany)

A Shah (UK)

I Simpson (UK)

L D R Smith (UK)

J Soler-Soler (Spain)

C Stefanadis (Greece)

W Stevenson (USA)

J Thomas (USA)

D Thompson (UK)

S Thorne (UK)

E Topol (USA)

P Tornos (Spain)

D Tousoulis (Greece)

M Turner (UK)

A Vahanian (France)

P Vardas (Greece)

S Viskin (Israel)

N Watanabe (Japan)

H Watkins (UK)

H White (New Zealand)

W Wijns (Belgium)

P Wilkinson (UK)

J Yoshikawa (Japan)

S Yusuf (Canada)

Y Zhang (China)

Editor: BMJ

## Contact Details

### Editorial Office

Heart, BMJ Publishing Group Ltd,  
BMA House,  
Tavistock Square,  
London WC1H 9JR, UK  
T: +44 (0)20 7383 6394  
F: +44 (0)20 7383 6668  
E: [heartjournal@bmjgroup.com](mailto:heartjournal@bmjgroup.com)

### British Cardiovascular Society

9 Fitzroy Square  
London W1T 5HW, UK  
T: +44 (0)20 7383 3887  
F: +44 (0)20 7388 0903  
E: [enquiries@bcs.com](mailto:enquiries@bcs.com)  
[www.bcs.com](http://www.bcs.com)

### Permissions

See <http://journals.bmj.com/misc/permissions.dtl>

### Subscriptions

For all subscription enquiries and orders  
T: +44 (0)20 7383 6270  
F: +44 (0)20 7383 6402  
E: [support@bmjgroup.com](mailto:support@bmjgroup.com)

### Display Advertising Sales

Nick Gray  
T: +44 (0)20 7383 6386  
F: +44 (0)20 7383 6556  
E: [ngray@bmjgroup.com](mailto:ngray@bmjgroup.com)  
<http://group.bmj.com/group/advertising>

### Online Advertising Sales

Marc Clifford  
T: +44 (0) 20 7383 6161  
F: +44 (0) 20 7383 6556  
E: [mclifford@bmjgroup.com](mailto:mclifford@bmjgroup.com)  
<http://group.bmj.com/group/advertising>

### Supplement Enquiries

T: +44 (0)20 7383 6088  
F: +44 (0)20 7383 6668  
E: [journals@bmjgroup.com](mailto:journals@bmjgroup.com)

### Author Reprints

Reprints Administrator  
T: +44 (0)150 251 5161  
F: +44 (0)20 7554 6185  
E: [admin.reprints@bmjgroup.com](mailto:admin.reprints@bmjgroup.com)

### Commercial Reprints (except USA & Canada)

Nadia Gurney-Randall  
T: +44 (0)20 8445 5825  
F: +44 (0)20 8445 5870  
M: 07866 262344  
E: [ngurneyrandall@bmjgroup.com](mailto:ngurneyrandall@bmjgroup.com)

### Commercial Reprints (USA & Canada)

Marsha Fogler  
T: +1 800 482 1450 (toll free in the USA)  
T: +1 856 489 4446 (outside the USA)  
F: +1 856 489 4449  
E: [fogler@medicalreprints.com](mailto:fogler@medicalreprints.com)