

## Editor

Paul McCrory

## Associate editor

Ron Maughan

## North American editors

Scott H Grindell  
Karim Khan

## Book review editor

Susan White

## Editorial assistant

Janet McKinney

## Technical editors

Natalie West  
Christine Wakefield

## Editorial board

Hakan Alfredson (Sweden)	Nicola Maffulli (UK)
Roald Bahr (Norway)	Jenny McConnell (Australia)
Mark E Batt (UK)	Andrew McIntosh (Australia)
Ralph Beneke (UK)	Heather McKay (Canada)
Kim Bennell (Australia)	Chris Milne (New Zealand)
Thomas M Best (USA)	Tim D Noakes (S Africa)
Steve N Blair (USA)	Moirá O'Brien (Eire)
Steve Bollen (UK)	John Orchard (Australia)
Peter Brukner (Australia)	Per A Renstrom (Sweden)
Louise Burke (Australia)	William O Roberts (USA)
Linda Castell (UK)	Craig Sharp (UK)
David Chalmers (New Zealand)	Roy J Shephard (Canada)
Philip Conaghan (UK)	Ian Shrier (Canada)
Caroline Finch (Australia)	Jack E Taunton (Canada)
Peter Fricker (Australia)	Dan S Tunstall Pedoe (UK)
Wayne W Gibbon (UK)	Mike Turner (UK)
Per Holmich (Denmark)	Willem van Mechelen (Netherlands)
Karen Johnston (Canada)	ADJ Webborn (UK)
Barry Jordan (USA)	Brian J Whipp (UK)
Pekka Kannus (Finland)	Clyde Williams (UK)
Jon Karlsson (Sweden)	Editor, <i>BMJ</i>
B Kibler (USA)	
Abby C King (USA)	

## Instructions to authors

Full instructions are available online at <http://bjsm.bmjournals.com/misc/ifora.shtml>

## Subscription information

See inside back cover

## Copyright

© 2004 *British Journal of Sports Medicine*. 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 the prior permission of *British Journal of Sports Medicine*.

Authors are required to grant *British Journal of Sports Medicine* an exclusive licence to publish; further details available online at <http://bjsm.bmjournals.com/misc/ifora.shtml>

- *British Journal of Sports Medicine* is published by BMJ Publishing Group, typeset by The Charlesworth Group, and printed in UK on acid-free paper by MPG Books Limited, Bodmin
- Periodicals postage paid, Rahway, NJ. Postmaster: send address changes to: *British Journal of Sports Medicine*, c/o Mercury Airfreight International Ltd Inc, 365 Blair Road, Avenel, NJ 07001, USA
- ISSN: 0306-3674 (print)
- ISSN: 1473-0480 (online)



[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



Nerve conduction studies of upper extremities in tennis players (see pp 632–5)

## Warm up

515 Exercise *P McCrory*

## Leaders

- 516 Can we manage sport related concussion in children the same as in adults? *P McCrory, A Collie, V Anderson, G Davis*
- 519 Sport psychology and concussion: new impacts to explore *G A Bloom, A S Horton, P McCrory, K M Johnston*
- 521 To treat or not to treat: new evidence for the effectiveness of manual therapy *M M Sran*

## Reviews

- 526 Muscle dysfunction versus wear and tear as a cause of exercise related osteoarthritis: an epidemiological update *Ian Shrier*
- 536 Endocannabinoids and exercise *A Dietrich, W F McDaniel*

## Original articles

- 542 Current practice in the management of anterior cruciate ligament injuries in the United Kingdom *B Kapoor, D J Clement, A Kirkley, N Maffulli*
- 545 Acute hand and wrist injuries in experienced rock climbers *A J Logan, N Makwana, G Mason, J Dias*
- 549 Effect of positioning and bracing on passive position sense of shoulder joint *B Ulkar, B Kunduracioglu, C Çetin, R S Güner*
- 553 On issues of confidence in determining the time constant for oxygen uptake kinetics *G H Markovitz, J W Sayre, T W Storer, C B Cooper*  
Commentary — *D A Gordon*
- 561 No acute changes in postural control after soccer heading *S P Broglio, K M Guskiewicz, T C Sell, S M Lephart*
- 568 Relation between physical exertion and heart rate variability characteristics in professional cyclists during the Tour of Spain *C P Earnest, R Jurca, T S Church, J L Chicharro, J Hoyos, A Lucia*
- 576 Relation between running injury and static lower limb alignment in recreational runners *V Lun, W H Meeuwisse, P Stergiou, D Stefanyszyn*
- 581 Are unilateral and bilateral patellar tendinopathy distinguished by differences in anthropometry, body composition, or muscle strength in elite female basketball players? *J E Gaida, J L Cook, S L Bass, S Austen, Z S Kiss*
- 586 Dissociation between back pain and bone stress reaction as measured by CT scan in young cricket fast bowlers *H B Millson, J Gray, R A Stretch, M I Lambert*
- 592 The appearance of kissing contusion in the acutely injured knee in the athletes *I P Terzidis, A G Christodoulou, A L Ploumis, S R Metsovitis, M Koimtzi, P Givissis*

**NEW  
ONLINE  
SUBMISSION**  
**GO TO  
WEBSITE**  
**TO SUBMIT YOUR  
MANUSCRIPT**

- 597 Running exercises improve the strength of a partially ruptured Achilles tendon  
*EKN See, G YFNg, COYNg, DTC Fung*
- 601 "Essential noise" – enhancing variability of informational constraints benefits movement control: a comment on Waddington and Adams (2003)  
*K Davids, R Shuttleworth, C Button, I Renshaw, P Glazier*
- 606 Tendon injury and repair after core biopsies in chronic Achilles tendinosis evaluated by serial magnetic resonance imaging  
*A Shalabi, L Svensson, M Kristoffersen-Wiberg, P Aspelin, T Movin*
- 613 Injuries in professional motor car racing drivers at a racing circuit between 1996 and 2000  
*O Minoyama, H Tsuchida*
- 617 Position related analysis of the appearance of and relationship between post-match physical and mental fatigue in university rugby football players  
*T Mashiko, T Umeda, S Nakaji, K Sugawara*
- 622 Is lactic acidosis a cause of exercise induced hyperventilation at the respiratory compensation point?  
*T Meyer, O Faude, J Scharhag, A Urhausen, W Kindermann*
- 626 Video analysis of injuries and incidents in Norwegian professional football  
*T E Andersen, A Tenga, L Engebretsen, R Bahr*
- 632 Nerve conduction studies of upper extremities in tennis players  
*T Çolak, B Bamaç, A Özbek, F Budak, Y S Bamaç*
- 636 Which laboratory variable is related with time trial performance time in the Tour de France?  
*A Lucia, J Hoyos, M Pérez, A Santalla, C P Earnest, J L Chicharro*

## Occasional piece

- 641 Gene manipulation and improvement of athletic performances: new strategies in blood doping  
*G Lippi, G C Guidi*

## PostScript

- 642 • Letters  
643 • Book reviews  
644 • Calendar of events

## SportsMedUpdate

- 645 Evidence based journal watch

## Education

- 648 Logical limitations to the "catastrophe" models of fatigue during exercise in humans  
*T D Noakes, A St Clair Gibson*

## Abstracts

- 650 BASEM 2004 Congress  
654 Second International Symposium on Concussion in Sport

## Miscellanea

- 525 Electronic pages  
541 Electronic pages  
567 Electronic pages  
585 Electronic pages

## Electronic pages

- e19 Aseptic bone necrosis in an amateur scuba diver  
*G D M Laden, P Grout*
- e20 Abdominal coarctation in a hypertensive female collegiate basketball player  
*B Sloan, S Simons, A Stromwall*
- e21 Clinical and magnetic resonance imaging features of cricket bowler's side strain  
*D Humphries, M Jamison*
- e22 Correlations between plasma noradrenaline concentrations, antioxidants, and neutrophil counts after submaximal resistance exercise in men  
*A Ramel, K-H Wagner, I Elmalfa*
- e23 Are sports medicine journals relevant and applicable to practitioners and athletes?  
*C Bleakley, D MacAuley, S McDonough*
- e24 Abdominal pain in long distance runners: case report and analysis of the literature  
*F C Dimeo, J Peters, H Guderian*
- e25 Electrical twitch obtaining intramuscular stimulation (ETOIMS) for myofascial pain syndrome in a football player  
*J Chu, I Takehara, T-C Li, I Schwartz*
- e26 Fracture shaft of clavicle, an indirect injury from bench pressing  
*I P S Gill, Chima Mbubaegbu*
- e27 The validity of capillary blood sampling in the determination of human growth hormone concentration during exercise in men  
*R J Godfrey, G Whyte, J McCarthy, A Nevill, A Head*
- e28 Orbital emphysema following nose blowing as a sequel of a snowboard related head injury  
*Y Taguchi, Y Sakakibara, K Uchida, H Kishi*
- e29 Self reported injury patterns among competitive curlers in the United States: a preliminary investigation into the epidemiology of curling injuries  
*J C Reeser, R L Berg*