

# Occupational and Environmental Medicine

Adopted as the Journal of the Faculty of Occupational Medicine of the Royal College of Physicians of London

## Editor

Anne Cockcroft

## Deputy editor

T C Aw

## Book review editor

R L Maynard

## Commissioning editor

I Kennedy

## Technical editors

Margaret James

John Weller

## Editorial assistant

Kathryn Walsh

## Editorial board

F J H van Dijk (Holland)

M Eglite (Latvia)

J Harrison (United Kingdom)

D Koh (Singapore)

G Liss (Canada)

R McNamee (United Kingdom)

J Myers (South Africa)

B Nemery (Belgium)

M J Nieuwenhuijsen (United Kingdom)

T Okubo (Japan)

H Roels (Belgium)

M Sim (Australia)

D C Snashall (United Kingdom)

J-D Wang (Taiwan)

P Westerholm (Sweden)

Otto Wong (USA)

Editor, *British Medical Journal*

## Instructions to authors

Full instructions are available online at [www.occenvmed.com](http://www.occenvmed.com). Authors are required to grant *Occupational and Environmental Medicine* an exclusive licence to publish; further details available online at [www.occenvmed.com/misc/ifa.html](http://www.occenvmed.com/misc/ifa.html)

If you do not have web access please contact the editorial office:

*Occupational and Environmental Medicine*

BMA House

Tavistock Square

London WC1H 9JR, UK

Telephone: +44 (0) 20 7383 6561

Fax: +44 (0) 20 7383 6668

Email: [omeditorial@bmjgroup.com](mailto:omeditorial@bmjgroup.com)

## Subscription information

*Occupational and Environmental Medicine* is published monthly  
ISSN 1351-0711 (print); 1470-7926 (online)

## Institutional rates

Print – 2003 rates: £235; €377; US\$377

Online – Site licences are priced on FTE basis and allow access by the whole institution. Print is available at deeply discounted rates for online subscribers; details available online at [www.bmjournals.com/subscriptions](http://www.bmjournals.com/subscriptions) or contact the Subscription Manager in London (see below)

## Personal rates

Print (includes online access) – £135; €217; US\$217

Online only – £65; €99; US\$99

## How to subscribe

See inside back cover



[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

## Copyright

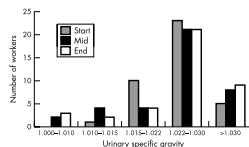
© 2003 BMJ Publishing Group. All rights reserved; no part of this publication may be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying, recording, or otherwise without the prior permission of BMJ Publishing Group.

- Occupational and Environmental Medicine is published by BMJ Publishing Group and printed in UK on acid free paper by Thanet Press Limited, Margate, Kent, UK

- Periodicals postage paid, Rahway, NJ. Postmaster: send address changes to: *Occupational and Environmental Medicine*, c/o Mercury Airfreight International Ltd, 365 Blair Road, Avenel, NJ 07001, USA



Vibration white finger (Health and Safety Laboratory); Cashmere factory, Mongolia (Mark Henley/Panos Pictures); Forest fires (NASA)



See p 90



See p 142

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

# contents OEM

Volume 60 Number 2 February 2003

## Editorials

- 79 Hazardous waste landfill sites and congenital anomalies *R M Harrison*
- 81 Winter air pollution and respiratory function *M Lippmann*

## Original articles

- 82 Acute effects of winter air pollution on respiratory function in schoolchildren in southern England *J L Peacock, P Symonds, P Jackson, S A Bremner, J F Scarlett, D P Strachan, H R Anderson*
- 90 Fluid losses and hydration status of industrial workers under thermal stress working extended shifts *D J Brake, G P Bates*
- 97 Exposure related mutagens in urine of rubber workers associated with inhalable particulate and dermal exposure *R Vermeulen, R P Bos, J Pertijs, H Kromhout*
- 104 Exposure-response relations among laboratory animal workers exposed to rats *M J Nieuwenhuijsen, V Putcha, S Gordon, D Heederik, K M Venables, P Cullinan, A J Newman-Taylor*
- 109 Ambiguous relation between physical workload and low back pain: a twin control study *J Hartvigsen, K O Kyvik, C Leboeuf-Yde, S Lings, L Bakketeig*
- 115 A longitudinal observation of early pulmonary responses to cotton dust *X-R Wang, L-D Pan, H-X Zhang, B-X Sun, H-L Dai, D C Christiani*
- 122 Occupational silica exposure and risk of various diseases: an analysis using death certificates from 27 states of the United States *G M Calvert, F L Rice, J M Boiano, J W Sheehy, W T Sanderson*
- 130 Follow up study of haematological effects in workers exposed to 2-methoxyethanol *T-S Shih, A-T Hsieh, Y-H Chen, G-D Liao, C-Y Chen, J-S Chou, S-H Liou*
- 136 Reported incidence of occupational asthma in France, 1996–99: the ONAP programme *J Ameille, G Pauli, A Calastrenq-Crinquand, D Vervloët, Y Iwatsubo, E Popin, M C Bayeux-Dunglas, M C Kopferschmitt-Kubler, and the corresponding members of the ONAP*

## PostScript

- 143 Musicians playing wind instruments and risk of lung cancer: is there an association? *A Ruano-Ravina, A Figueiras, J M Barros-Dios*
- 143 How important is personal exposure assessment in the epidemiology of air pollutants? *H Kromhout, M van Tongeren*
- 144 Will sewage workers with endotoxin related symptoms have the benefit of reduced lung cancer? *J H Lange, G Mastrangelo, K W Thomulka*
- 145 Neurobehavioural testing in workers occupationally exposed to lead *A Seeber, M Meyer-Baron, M Goodman, N LaVerda, C Clarke, E Foster, J Iannuzzi, J Mandel*

- 146 Ambient neighbourhood noise and children's mental health *M Haines, S Stansfeld*
- 146 No change in sex ratio in Ramsar (north of Iran) with high background of radiation *M Saadat*
- 147 William Harvey and air pollution *R L Maynard*
- 147 Alternative methods of administering amyl nitrite to victims of cyanide poisoning *A M Donoghue*
- 147 Book reviews

- 148 Notices
- 149 Corrections

## Miscellanea

- 96 Echo: Cycling in competition leaves its mark on women athletes
- 142 Letter from Singapore

## Education

- 150 How much does the environment contribute to cancer? *L Rushton*

Want to know more?

### Data supplements

Limited space in printed journals means that interesting data and other material are often edited out of articles; however, limitless cyberspace means that we can include this information online. Look out for additional tables, references, illustrations.

[www.occenvmed.com](http://www.occenvmed.com)

[www.occenvmed.com](http://www.occenvmed.com)