

VOLUME 10 | ISSUE 1 | JANUARY 2009

ISSN 1463-4236

# Primary Health Care Research & Development



**CAMBRIDGE**  
UNIVERSITY PRESS

# PRIMARY HEALTH CARE RESEARCH & DEVELOPMENT

---

## EDITORS

Professor Sally Kendall  
Professor of Nursing,  
CRIPACC, University of  
Hertfordshire, Hatfield, UK

Professor Ros Bryar  
Professor of Community  
and Primary Care  
Nursing, City University,  
London, UK

## NETWORKING EDITOR

Dr Jonathan Graffy  
Senior Clinical  
Research Fellow,  
University of Cambridge,  
Cambridge, UK

## PUBLICATIONS REVIEW EDITOR

Dr Maxine Offredy  
Publications Review  
Editor,  
Reader in Primary Health  
Care, CRIPACC,  
University of Hertfordshire,  
Hatfield, UK

## SOCIETY FOR ACADEMIC PRIMARY CARE REPRESENTATIVE\*

Dr Peter Murchie  
Cancer Research UK  
Research Fellow in  
Primary Care Oncology,  
Department of General  
Practice & Primary Care,  
University of Aberdeen,  
Aberdeen, UK

## EDITORIAL ASSISTANT

Michelle Varian  
CRIPACC,  
University of Hertfordshire,  
Hatfield, UK

## EDITORIAL BOARD

Dr Fiona Brooks  
Reader in Primary Health  
Care, CRIPACC,  
University of Herts,  
Hatfield, UK

Professor Sarah Cowley  
Professor of  
Community Practice  
Development,  
Kings College,  
London, UK

Dr Steve Iliffe  
Reader in  
General Practice,  
Primary Care and  
Population Sciences,  
University College,  
London, UK

Julia Johnson  
Senior Lecturer,  
School of Health &  
Social Welfare,  
The Open University,  
Milton Keynes, UK

Professor Geoff Meads  
Visiting Professor of  
Organisational Research,  
Centre for Primary  
Health Care Studies,  
Warwick Medical School,  
Coventry, UK

Dr Pauline Pearson  
Senior Lecturer in  
Primary Care Nursing,  
School of Medical  
Educational  
Development,  
University of Newcastle,  
Newcastle, UK

Professor Helen Smith  
Chair of Primary Care,  
Brighton & Sussex  
Medical School,  
University of Brighton,  
Brighton, UK

Professor Sarah  
Stewart-Brown  
Director of The Health  
Sciences Research  
Institute, University of  
Warwick, Coventry, UK

Professor Chris Van Weel  
Professor of General  
Practice, Department of  
General Practice,  
University Medical  
Centre, Nijmegen, The  
Netherlands and  
President of the World  
Organisation of Family  
Doctors

## INTERNATIONAL ADVISORY BOARD

Professor John Beasley  
Emeritus Professor,  
Department of Family  
Medicine, University  
of Wisconsin,  
Wisconsin, USA

Dr Jeanne Besner  
Adjunct Assistant  
Professor, Director,  
Initiatives in Nursing  
Research, University of  
Alberta, Calgary, Alberta,  
Canada

Professor Yvonne Carter  
Professor of General  
Practice and Primary Care  
and Dean Warwick  
Medical School,  
University of Warwick,  
Coventry, UK

Professor Pali Hungin  
Director, Centre for  
Integrated Health Care  
Research, Head of  
School for Health,  
Dean of Medicine,  
University of Durham,  
Durham, UK

Professor John  
Macdonald  
Foundation Chair in  
Primary Health Care,  
University of Western  
Sydney, Sydney, Australia

Professor Jean McIntosh  
Professor in Community  
Nursing Research,  
School of Nursing,  
Midwifery & Community  
Health, Glasgow  
Caledonian University,  
Glasgow, UK

---

\*All members of The Society for Academic Primary Care ([www.sapc.ac.uk](http://www.sapc.ac.uk)) automatically receive a print and online subscription to *Primary Health Care Research & Development*.

Volume 10, Number 1, January 2009

# PRIMARY HEALTH CARE RESEARCH & DEVELOPMENT

## CONTENTS

### Editorial

- Education and training: the neglected healthcare technologies? 1  
*Robert K. McKinley*

### Networking

- Pharmacy practice research: challenges and opportunities 4  
*Sue Ambler and Linda Sheldrake*

### Development

- Fit for purpose – a regional case study in primary care research partnerships 7  
*Amanda Howe, Heather Leishman and Helen MacDonald*

### Research

- Cost effectiveness and outcomes of a nurse practitioner–paramedic–family physician model of care: the Long and Brier Islands study 14  
*Ruth Martin-Misener, Barbara Downe-Wamboldt, Ed Cain and Marilyn Girouard*
- Social support as described by Swedish people diagnosed with type 2 diabetes mellitus 26  
*Katarina Hjelm and Carina Berterö*
- Ongoing education in type 2 diabetes: the attitudes of hard-to-reach participants 38  
*Helen Parken and Jackie Sturt*
- Predictive value of primary care made clinical diagnosis of chronic obstructive pulmonary disease (COPD) with secondary care specialist diagnosis based on spirometry performed in a lung function laboratory 49  
*C. Michael Roberts, Mohammed K.A. Abedi, John S. Barry, Ellen Williams and Simon J. Quantrill*
- Implementation of a diagnostic tool for symptomatic colorectal cancer in primary care: a feasibility study 54  
*Nada F. Khan*
- Development of an early intervention to prevent long-term incapacity for work: using an online RAND/UCLA appropriateness method to obtain the views of general practitioners 65  
*Christine Wright, Alice Moseley, Rupatharshini Chilvers, Laura Stabb, John L. Campbell and Suzanne H. Richards*

- Book review** 79

[journals.cambridge.org/phc](http://journals.cambridge.org/phc)

## **Aims and Scope**

*Primary Health Care Research & Development* is the first peer-reviewed journal aimed specifically at both researchers and practitioners in primary health care, bridging the gap between the two areas. It provides a forum for the publication of international, interdisciplinary research and development in primary health care. It is essential reading for all involved in primary care: nurse practitioners, GPs and Health Service managers; professional and local groups in community health; researchers and academics; purchasers of primary health care services; allied health practitioners in secondary services and health-related consumer groups.

*Primary Health Care Research & Development* (ISSN 1463-4236 print; ISSN 1477-1128 online) is published four times a year in January, April, July and October.

## **2009 annual subscription rates**

Volume 10 (4 Issues) will appear in 2009. Organisational: £252/\$470 (online & print); £170/\$340 (online only). Individual: £81/\$160 (online & print); £63/\$119 (online only); £71/\$136 (print only). Single article price: £14/\$20. All prices inclusive of postage.

Subscribers in Canada must add 7% to the subscription price, to allow for GST. Subscribers in Europe must quote their VAT registration number or state that they are not registered. Subscribers in the following countries who are not VAT-registered must add VAT at the appropriate rate: Belgium (6% TVA/BTW), France (2.1% TVA), Germany (7% MWST), Spain (4% IVA), The Netherlands (6% BTW).

## **How to subscribe**

Post: Inquiries and orders for current subscriptions and back issues should be sent to: PHC Subscription Orders, Cambridge University Press Customer Services Department (Journals & Online Publications), Edinburgh Building, Shaftesbury Road, Cambridge CB2 8RU, UK. Internet: [journals.cambridge.org/phc](http://journals.cambridge.org/phc) Email: [journals@cambridge.org](mailto:journals@cambridge.org) Tel: +44 (0)1223 326070. Fax: +44 (0)1223 325150.

## **Change of address**

Please notify the subscriptions department. Send new address and postal code, and the address label from a current issue, to Journals Customer Services, Cambridge University Press, FREEPOST, The Edinburgh Building, Cambridge CB2 8RU, UK (no stamp necessary if posted within UK). Tel: +44 (0)1223 326070. Fax: +44 (0)1223 325150.

## **Advertisements**

For print and online advertisement rates, and information on advertisement copy, please contact PHC, Advertising Department, Cambridge University Press (Journals), Edinburgh Building, Shaftesbury Road, Cambridge CB2 8RU, UK. Email: [ad\\_sales@cambridge.org](mailto:ad_sales@cambridge.org); Tel: +44 (0)1223 325083; Fax: +44 (0)1223 325801.

*Primary Health Care Research & Development* is abstracted in: Academic Search Premier; British Nursing Index; PsycINFO; Cumulative Index to Nursing & Allied Health Literature (CINAHL).

Cambridge University Press is a member of the HINARI programme (Health InterNetwork Access to Research Initiative; [www.healthinternetwork.net](http://www.healthinternetwork.net)). Organized by WHO, HINARI provides developing countries with access to one of the world's largest collections of biomedical and healthcare literature. By choosing to publish in *Primary Health Care Research & Development* your paper will be available to developing countries who might otherwise not have had access.

All articles published in this journal are protected by copyright, which covers the exclusive rights to reproduce and distribute the article (e.g., as offprints), as well as all translation rights. No material published in this journal may be reproduced electronically, photographically, or stored on microfilm, in video disks, etc., without first obtaining written permission from the publishers. The use of general descriptive names, trade names, trademarks, etc., in this publication, even if not specifically identified, does not imply that these names are not protected by the relevant laws and regulations. While the advice and information in this journal are believed to be true and accurate at the date of its going to press, neither the authors, the editors, nor Cambridge University Press can accept any legal responsibility for any errors or omissions that may be made. The publisher makes no warranty, express or implied, with respect to the material contained herein. Cambridge University Press publishes advertisements in this journal while relying on the responsibility of the advertiser to comply with all legal requirements relating to the marketing and sale of products or services advertised. Cambridge University Press and the Editors are not responsible for claims made in the advertisements published in the journal. The appearance of advertisements in Cambridge University Press publications does not constitute endorsement, implied or intended, of the product advertised or the claims made for it by the advertiser.

© Cambridge University Press 2009

Printed in the United Kingdom on acid-free paper