

CAMBRIDGE

JOURNALS

Nutrition Research Reviews

Published on behalf of The Nutrition Society

Editor-in-Chief

Graham C. Burdge, University of Southampton, UK

Nutrition Research Reviews offers a comprehensive overview of nutritional science today. By distilling the latest research and linking it to established practice, the journal consistently delivers the widest range of in-depth articles in the field of nutritional science and has done so for the past twenty-one years. It presents up-to-date, concise and critical reviews of key topics in nutrition science, advancing new concepts and hypotheses that encourage the exchange of fundamental ideas on nutritional well-being in both humans and animals.

journals.cambridge.org/nrr

Submit your article online
nrr.msubmit.net

Register for free content alerts
journals.cambridge.org/nrr-alerts



Impact Factor: 3.774

2010 Journal Citation Reports®
Thomson Reuter

To subscribe contact
Customer Services

Cambridge:

Phone +44 (0)1223 326070
Fax +44 (0)1223 325150
journals@cambridge.org

New York:

Phone +1 (845) 353 7500
Fax +1 (845) 353 4141
subscriptions_newyork@cambridge.org



CAMBRIDGE
UNIVERSITY PRESS

Public Health Nutrition

Volume 15, 2012 ISSN: 1368-9800
journals.cambridge.org/phn

Publishing, Production, Marketing, and Subscription Sales Office:

Cambridge University Press
The Edinburgh Building
Shaftesbury Road
Cambridge CB2 8RU
UK

For Customers in North America:

Cambridge University Press
Journals Fulfillment Dept
100 Brook Hill Drive
West Nyack
New York 10994-2133
USA

Publisher: Katy Christomanou

Special sales and supplements

This journal accepts advertising and inserts. We also provide bulk reprints of suitable papers to meet teaching or promotional requirements. The journal also publishes supplementary material including conference proceedings on behalf of academic and corporate sponsors. Please contact Katy Christomanou at Cambridge University Press for further details (email: kchristomanou@cambridge.org).

Subscription information

Public Health Nutrition is an international journal published 12 times per year by Cambridge University Press on behalf of the Nutrition Society. The online edition is available at journals.cambridge.org/PHN, with free table of contents alert (upon registration).

Annual subscription rates

Volume 15, 2012 (12 issues):
Internet/print package: £813/\$1559 Americas only/€1303 EU only
Internet only: £643/\$1219 Americas only/€1022 EU only

Any supplements to this journal published in the course of the annual volume are normally supplied to subscribers at no extra charge.

Claims for non-receipt of journal issues will be considered on their merit and only if the claim is received within six months of publication. Replacement copies supplied after this date will be chargeable.

Advertising: The Nutrition Society is willing to include advertisements in its journals. However, it will retain the right to make decisions on which advertisements are acceptable and

which are not, and will not be obliged to give reasons to prospective advertisers for its decisions. The appearance of an advertisement in the Society's journals does not imply endorsement by the Society. For further details, please contact Cambridge University Press.

Back volumes will be available in due course. Please contact Cambridge University Press for further information.

US POSTMASTERS: Please send address corrections to
Public Health Nutrition
Cambridge University Press
100 Brook Hill Drive
West Nyack
New York 10994-2133
USA

Notes for Authors are available from the publisher at the given address and can be found inside the back cover.

Offprints: The author (or main author) of an accepted paper will receive a free PDF of their paper. Additional offprints are available for a fee and must be ordered at proof stage. **No page charges are levied by this journal.**

Copyright: As of 1 January 2001 the copyright of all articles submitted to *Public Health Nutrition* are retained by the authors or their institutions. For articles prior to this date permission for reproduction of any part of the journal (text, figures, tables or other matter) in any form (on paper, microfiche or electronically) should be sought directly from the Society, at: The Editorial Office, The Nutrition Society, 10 Cambridge Court, 210 Shepherds Bush Road, Hammersmith, London, W6 7NJ, UK.

Disclaimer: The information contained herein, including any expression of opinion and any projection or forecast, has been obtained from or is based upon sources believed by us to be reliable, but is not guaranteed as to accuracy or completeness. The information is supplied without obligation and on the understanding that any person who acts upon it or otherwise changes his/her position in reliance thereon does so entirely at his/her own risk. Neither the Society, nor Cambridge University Press accepts responsibility for any trade advertisement included in this publication.

This journal issue has been printed on FSC-certified paper and cover board. FSC is an independent, non-governmental, not-for-profit organization established to promote the responsible management of the world's forests. Please see www.fsc.org for information. Typeset by Macmillan India Limited, Bangalore, India and Printed in Europe by Bell and Bain, Glasgow.

Public Health Nutrition is covered in Science Citation Index Expanded (Web of Science), Current Contents, Agriculture, Biology & Environmental Sciences, Current Contents, Clinical Medicine, CAB ABSTRACTS[®], Global Health, Index Medicus[®] (MEDLINE[®]), EMBASE, Excerpta Medica, BIOSIS[®] Database and CINAHL[®] Database
Public Health Nutrition participates in the following initiatives: HINARI by WHO and AGORA by FAO.

Public Health Nutrition (PHN) provides a forum for the presentation of original research findings and high quality reviews of key topics, and for discussion of and debate on of current issues and controversies. It also publishes special issues on major topics of interest. Our field includes research, scholarship, and discussions on public health nutrition, that take a population, health promoting and preventive approach. Papers that do not have this emphasis may be directed to more appropriate journals. Potential contributors are encouraged to read the aims and scope of the journal, and to note and follow the guidelines set out below.

Content:

- **Original research findings and scientific reviews** are published as full papers usually less than 5000 words, including references.
- **Editorials** express the opinion of the journal, as represented by its central editorial team, on topics judged by them to be important. Editorials, including guest editorials, are usually co-ordinated and developed by the editorial team.
- **Position papers**, including declarations and other statements of policy, may be invited or unsolicited.
- **Invited commentaries and book reviews** are expressions of opinion on a topical subject. These are commissioned by the members of the editorial team.
- **Letters to the Editors** are usually in response to material published in *PHN*. Submissions are sent to the author for comment and, when possible, published together with the author's reply.

Submission: PHN operates an online submission and reviewing system (eJournalPress). All manuscripts must be submitted online at <http://phn.msubmit.net/>. If any difficulties are encountered, please contact the Publications Office at phn@nutsoc.org.uk

Refereeing: Review articles and articles reporting original research are subject to external review by two or more referees who evaluate manuscripts based on their importance, relevance, and originality. Authors are asked to submit names and contact details (including email address) of up to four potential referees. All other contributions (editorials, position papers, invited commentaries, book reviews, and letters to the Editors) undergo an internal review process by at least two members of the editorial team. Invited commentaries and book reviews may also be checked externally as necessary to avoid technical errors and to improve salience.

Copyright: At the time of acceptance, authors will be asked to provide a completed copy of the 'Licence to Publish' (in lieu of copyright transfer), available at <https://www.nutritionociety.org/>. It is the author's responsibility to obtain written permission to reproduce any material (including text and figures) that has appeared in another publication.

Preparation of manuscripts: Please refer to the full Directions to Contributors on our website (<http://www.nutritionociety.org>). Manuscripts should be in clear and concise English, and spelling should follow the Oxford English Dictionary. For authors whose native tongue is not English, in-house editorial attention to their contributions will improve clarity. On acceptance, all contributions are subject to editorial amendment to conform to house style. Manuscripts should be prepared in a common word processing package (Word for Windows is preferred) in Times New Roman or other common typeface, prepared with double-spaced text, at least 2 cm margins, and page and line numbers. Standard abbreviations and SI units must be used.

Disclosure of financial support and any competing interests.

The submission must include a statement within an Acknowledgements section reporting any competing interests, all sources of funding, and the nature of the contribution of each author to the manuscript. If there are no competing interests, this must be stated. Authors are asked to provide this information during the submission process and should not include it as part of the manuscript to allow for double-blind reviewing.

Arrangement of papers:

1. **Title page** should include the article title, author(s), affiliation(s), up to eight keywords, one author identified for correspondence (with full postal address, telephone and fax numbers, and email address), and a running title of up to 45 characters. The title page should be submitted online as a separate cover letter, not as part of the manuscript, to enable double-blind reviewing.
2. **Abstract** should be structured, usually using the following internal headings: Objective, Design, Setting, Subjects, Results, Conclusions. Abstracts should be intelligible without reference to text or figures and should not exceed 250 words.
3. **Text** should be divided under headings (typically to include Introduction, Methods, Results, Discussion and Conclusions), and sub-headings as appropriate. Conclusions should include recommendations that derive from the research and that are concrete, feasible, and potentially effective. Emphasising that more research is needed is usually not necessary unless there is specific reason to say so. All submissions must include a statement that the research was conducted in accordance with guidelines laid down by the Declaration of Helsinki and approved by an ethics review committee.
4. **Acknowledgements** (sources of funding, competing interests declaration, authorship responsibilities, acknowledgements) should be provided during the submission process, not as part of the manuscript.
5. **References** should be in Vancouver style. Please refer to the full Directions to Contributors.
6. **Tables** should be reduced to the simplest form and should not be used where text or figures give the same information. Each table must be accompanied by a clear and concise caption that is comprehensible without reference to the text. Longer tables may be published online only.
7. **Figures** should be numbered, and legends should be provided. Each figure, with its legend, should be comprehensible without reference to the text and include definitions of abbreviations.

Proofs: Correspondence and proofs for correction will be emailed to the first named author unless otherwise indicated. The author will receive a PDF proof for checking. It is important that proofs be returned promptly. Authors may be charged for any alterations in excess of 10% of original setting.

Offprints: The corresponding author will receive a PDF of the published paper free of charge. Offprints are available to purchase and must be ordered before publication.

Editorial

World Nutrition 2012 – a global Public Health Nutrition opportunity
A Yngve, M Tseng, A Hodge, I Haapala and G McNeill 567

Monitoring and surveillance

Prevalence of ocular signs and subclinical vitamin A deficiency and its determinants among rural pre-school children in India
A Laxmaiah, MK Nair, N Arlappa, P Raghu, N Balakrishna, K Mallikharjuna Rao, C Galreddy, S Kumar, M Ravindranath, VV Rao and GNV Brahmam 568

Dietary habits of partly breast-fed and completely weaned infants at 9 months of age
UH Gondolf, I Tetens, KF Michaelsen and E Trolle 578

Nutritional supplement use among Slovenian adolescents
H Šterlinko Grm, MS Ars, L Besednjak-Kocijančič and P Golja 587

Overweight among children decreased, but obesity prevalence remained high among women in South Africa, 1999–2005
HS Kruger, NP Steyn, EC Swart, EMW Maunder, JH Nel, L Moeng and D Labadarios 594

Food intake in Slovenian adolescents and adherence to the Optimized Mixed Diet: a nationally representative study
H Kobe, M Štimec, CH Ribič and NF Mis 600

Television viewing and variations in energy intake in adults and children in the USA
SB Sisson, ST Broyles, C Robledo, L Boeckman and M Leyva 609

Assessment and methodology

Validity of two short screeners for diet quality in time-limited settings
H Schröder, AB Arciniega, C Soler, M-I Covas, JM Baena-Díez and J Marrugat, on behalf of the REGICOR and HERMES investigators 618

Assessing dietary intake during the transition to adulthood: a comparison of age-appropriate FFQ for youth/adolescents and adults
N Larson, L Harnack and D Neumark-Sztainer 627

Validation of a semi-quantitative FFQ using food records as a reference in older women in the Kuopio Fracture Prevention Study (OSTPRE-FPS)
AT Erkkilä, R Järvinen, H Karvonen, L Keronen and MT Tuppurainen 635

Validation of protein and potassium intakes assessed from 24 h recalls against levels estimated from 24 h urine samples in children and adolescents of Turkish descent living in Germany: results from the EVET! Study
B Bokhof, AE Buyken, C Doğan, A Karaboğa, J Kaiser, A Sonntag and A Kroke 640

Epidemiology

Food insecurity, childhood illness and maternal emotional distress in Ethiopia
LC Anderson, A Tegegn, F Tessema, S Galea and C Hadley 648

To what extent do weight gain and eating avidity during infancy predict later adiposity?
CM Wright, KM Cox, A Sherriff, M Franco-Villoria, MS Pearce, AJ Adamson and Gateshead Millennium Study core team 656

A bean-free diet increases the risk of all-cause mortality among Taiwanese women: the role of the metabolic syndrome
W-C Chang, ML Wahlqvist, H-Y Chang, C-C Hsu, M-S Lee, W-S Wang and CA Hsiung 663

Is there any relationship between dietary patterns and depression and anxiety in Chinese adolescents?
T-T Weng, J-H Hao, Q-W Qian, H Cao, J-L Fu, Y Sun, L Huang and F-B Tao 673

Western and Mediterranean dietary patterns among Balearic Islands' adolescents: socio-economic and lifestyle determinants
M del Mar Bibiloni, E Martínez, R Llull, A Pons and JA Tur 683

Magnesium intake and prevalence of metabolic syndrome in adults: Tehran Lipid and Glucose Study
P Mirmiran, S Shab-Bidar, F Hosseini-Esfahani, G Asghari, S Hosseinpour-Niazi and F Azizi 693

Maternal intention to breast-feed and breast-feeding outcomes in term and preterm infants: Pregnancy Risk Assessment Monitoring System (PRAMS), 2000–2003
TT Colaizy, AF Saftlas and FH Morriss Jr 702

Vitamin D, sun, sunbeds and health
J Moan, Z Baturaitė, A Juzeniene and AC Porojnicu 711

Nutrition and health

Serum retinol in 1–6-year-old children from a low socio-economic South African community with a high intake of liver: implications for blanket vitamin A supplementation
ME van Stuijvenberg, SE Schoeman, CJ Lombard and MA Dhansay 716

Fish consumption and CHD mortality: an updated meta-analysis of seventeen cohort studies
J Zheng, T Huang, Y Yu, X Hu, B Yang and D Li 725

The role of anthropometric and nutritional factors on breast cancer risk in African-American women
U Chandran, KM Hirshfield and EV Bandera 738

Interventions

Feasibility and effectiveness of supplementation with locally available foods in prevention of child malnutrition in Kenya
A Tomedi, F Rohan-Minjares, K McCalmont, R Ashton, R Opiyo and M Mwanthi 749

Cambridge Journals Online For further information about this journal please go to the journal website at: journals.cambridge.org/phn