IN THIS ISSUE

• Childhood abuse and unplanned pregnancies: a cross-sectional study of women in the Norwegian Mother and Child Cohort Study
• Research Methods Guide: If it's normal, it's OK to be mean
• Neurodevelopmental outcome in 7-year-old children is not affected by exercise during pregnancy: follow up of a multicentre randomised controlled trial
• Mini commentary: We know how to write guidelines, now we need to implement them
• Risk of vaginal cancer among hysterectomised women with cervical intraepithelial neoplasia: a population-based national cohort study
Michael Marsh, UK

DEPUTY EDITORS-IN-CHIEF
Patrick Chien, UK
Aris T Papageorghiou, UK

EMERITUS EDITOR
Philip J Steer, UK (BJOG on the Case Editor)

EXECUTIVE SCIENTIFIC EDITORS
Sherif Abdel-Fattah, UK
Makrina Savvidou, UK

SCIENTIFIC EDITORS
Kirsten Black, Australia
Nynke van den Broek, UK
Rufus Cartwright, UK
Suneet P Chauhan, USA
Justin Clark, UK
Elena Contró, Italy
William Dodson, USA
Stergios Doumouchtsis, UK
Donald Dudley, USA
Linda Duska, USA
Tarek El-Toukhy, UK
Alexander Friedman, USA
Bill Helm, UK

TRAINEE SCIENTIFIC EDITORS
Jason Fransasiak, USA
Sarah Kitson, UK
Fiona Mackie, UK
Mary McCauley, UK

STATISTICAL REVIEWERS
Karla Hemming, UK (Research Methods Guides Editor)
Amy H Herring, USA

EDITORIAL BOARD
Cande Ananth, USA
Hesham Al-Inany, Egypt
Michael Belfort, USA
Vincenzo Berghella, USA
Gérard Bréart, France
Jane Daniels, UK
Elaine Denny, UK
Jan Deprest, Belgium
Tao Duan, China
Caroline Hallissey, UK
Julia Hussein, UK
Sean T Kehoe, UK
Tze Kin Lau, China
Raymond Li, China
Boon Lim, Australia (BJOG since 1902 Editor)

BJOG ASSOCIATES
Katie Cornthwaite, UK (CPD Associate)
Natalie Cooper, UK (Research Methods Guides Editor)
Brett Emerson, USA (Journal Club Coordinator)
Jen Jardine, UK (Journal Club Coordinator)
Athis Kent, South Africa (Insights from outside BJOG)
Shona Kirtley, UK (Insights from outside BJOG)
Daniel Stott, UK (Podcast Lead)

MANAGING EDITOR
Abigail Cantor, UK
DEPUTY MANAGING EDITOR
Sean Fitzpatrick, UK
ASSISTANT EDITOR
Evie Derbyshire, UK
EDITORIAL ASSISTANT
Dave Atha, UK

This Journal is a member of and subscribes to the principles of the Committee on Publication Ethics
BJOG is an editorially independent publication owned by the Royal College of Obstetricians and Gynaecologists (RCOG). The journal publishes original, peer-reviewed work in all areas of obstetrics and gynaecology, including contraception, urogynaecology, fertility, oncology and clinical practice. Its aim is to publish the highest quality of medical research in women's health, worldwide. The journal is covered by Current Contents, ISI/Biomed, Science Citation Index, Index Medicus, CABS, Chemical Abstracts and Current Clinical Cancer.

Submissions for Publication
Submissions for Publication must be made online through ScholarOne by logging in on the homepage. Full instructions for submitting a manuscript can be found on the website: www.bjog.org. Please note that BJOG does not accept paper submissions.

Editorial note
Editors who submit manuscripts, either as corresponding or contributing author, take no part in any stage of the editorial processing of their manuscript.

Information for subscribers
A single issue price is available at www.bjog.org. Claims for missing or damaged copies within six months of publication, subject to availability.

Copyright and Copying
Copyright © 2020 Royal College of Obstetricians and Gynaecologists. All rights reserved. No part of this publication may be reproduced, stored or transmitted in any form or by any means without the prior permission in writing from the copyright holder. Authorization to copy items for internal and personal use is granted by the copyright holder for libraries and other users registered with their local Reproduction Rights Organisation (RRO), e.g. Copyright Clearance Center (CCC), 22 Rosewood Drive, Danvers, MA 01923, USA (www.copyright.com), provided the appropriate fee is paid directly to the RRO. This consent does not extend to other kinds of copying such as copying for general distribution, for advertising or promotional purposes, for creating new collective works or for resale. Permissions for such reuse can be obtained using the RightsLink “Request Permissions” link on Wiley Online Library. Special requests should be addressed to: permissions@wiley.com. It is the responsibility of the author(s) to advise the Editor-in-Chief of any circumstances affecting the transfer of copyright or involving conflict of interest.

The correct form of reference citation is BJOG

Information for subscribers
BJOG is published 13 issues per year. Institutional subscription prices for 2020 are: Print & Online: US$1313 (US), US$1691 (Rest of World), €997 (Europe), £788 (UK). Prices are exclusive of tax. Asia-Pacific GST, Canadian GST/HST and European VAT will be applied at the appropriate rates. For more information on current tax rates, please go to www.wileyonlinelibrary.com/tax-vat. The price includes online access to the current and all online back files to January 1st 2016, where available. Special rates are available for Fellows and Members of the RCOG (print only since online access is included in membership), Associate Members of RCOG, and members of ACOG, SOGC, SASOG and RANZCOG. Please see http://ordering.onlinelibrary.wiley.com/subs.asp?ref=1471-0528 for details.

Delivery Terms and Legal Title
Where the subscription price includes print issues and delivery is to the recipient’s address, delivery terms are Delivered at Place (DAP); the recipient is responsible for paying any import duty or taxes. Title to all issues transfers FOB our shipping point, freight prepaid. We will endeavour to fulfil claims for missing or damaged copies within six months of publication, within our reasonable discretion and subject to availability.

Back issues
Single issues from current and prior year volumes are available at the current single issue price from cs-journals@wiley.com. Earlier issues may be obtained from Periodicals Service Company, 351 Fairview Avenue – Ste 200, Hudson, NY 12534. Tel: +1 518 822-9300, Fax: +1 518 822-9305, Email: psc@periodicals.com

View this journal online at wileyonlinelibrary.com/journal/bjo
BJOG (Print ISSN 1470-0328; Online ISSN: 1471-0528), is published 13 issues a year, monthly plus 1 extra in January. US mailing agent: Mercury Media Processing, LLC 1850 Elizabeth Avenue, Suite #C, Railway, NJ 07065, USA. Periodical postage paid at Railway, NJ. Postmaster: Send all address changes to BJOG, John Wiley & Sons Inc., C/O The Sheridan Press, PO Box 1665, Hanover, PA 17331 USA. Access to this journal is available free online within institutions in the developing world through the HINARI initiative with the WHO. For information, visit www.who.int/hinari/en/

Disclaimer
The publisher, the Royal College of Obstetricians and Gynaecologists (RCOG) and Editors cannot be held responsible for errors or any consequences arising from the use of information contained in this journal; the views and opinions expressed do not necessarily reflect those of the Publisher, RCOG and Editors, neither does the publication of advertisements constitute any endorsement by the Publisher, RCOG and Editors of the products advertised.

OnlineOpen
BJOG accepts articles for Open Access publication. Please visit https://author-services.wiley.com/author-resources/Journal-Authors/open-access/onlineopen.html or go to www.bjog.org and select author guidelines for further information about OnlineOpen.

Publisher
BJOG is published by John Wiley & Sons Ltd, 9600 Garsington Road, Oxford OX4 2DQ, UK. Tél.: +44 (0)1865 778686; Fax.: +44 (0)1865 714591
ISSN 1470-0328 (Print) ISSN 1471-0528 (Online)

Journal Customer Services
For ordering information, claims and any enquiry concerning your journal subscription please go to https://hub.wiley.com/community/support/onlinelibrary or contact your nearest office:
Americas: Email: cs-journals@wiley.com; Tel: +1 781 388 8598 or 1 800 835 6770 (Toll free in the USA & Canada).
Europe, Middle East and Africa: Email: cs-journals@wiley.com; Tel: +44 (0) 1865 778315.
Asia Pacific: Email: cs-journals@wiley.com; Tel: +65 6511 8000.
Japan: For Japanese speaking support, Email: cs-japan@wiley.com.
Visit our Online Customer Help at https://hub.wiley.com/community/support/onlinelibrary

Advertising: corporatesales@wiley.com
Commercial reprints: commercialeprints@wiley.com

Production Editor: Kuthisisya Peer Mohamed (Email: BJOG@wiley.com)

Printed in Singapore by C.O.S. Printers Pte Ltd

View this journal online at http://obgyn.onlinelibrary.wiley.com/journal/10.1111/(ISSN)1471-0528

Wiley’s Corporate Citizenship initiative seeks to address the environmental, social, economic, and ethical challenges faced in our business and which are important to our diverse stakeholder groups. Since launching the initiative, we have focused on sharing our content with those in need, enhancing community philanthropy, reducing our carbon impact, creating global guidelines and best practices for paper use, establishing a vendor code of ethics, and engaging our colleagues and other stakeholders in our efforts. Follow our progress at www.wiley.com/go/citizenship

Wiley is a founding member of the UN-backed HINARI, AGORA, and OARE initiatives. They are now collectively known as Research4Life, making online scientific content available free or at nominal cost to researchers in developing countries. Please visit Wiley’s Content Access – Corporate Citizenship site: http://www.wiley.com/WileyCDA/Section/id-390082.html
Contents

Editorial
431   Insights into determinants of health
   AT Papageorghiou (UK)

433   Insights from outside BJOG
   A Kent, S Kirtley (South Africa, UK)

Epidemiology
438   Childhood abuse and unplanned pregnancies: a cross-sectional study of women in the Norwegian Mother and Child Cohort Study
   J Drevin, J Hallqvist, K Sonnander, A Rosenblad, R Pingel, EK Bjelland (Sweden, Norway)
   MC: Reproductive justice for those affected by childhood abuse
   S Walker (UK)

448   Risk of vaginal cancer among hysterectomised women with cervical intraepithelial neoplasia: a population-based national cohort study
   E Alfonzo, E Holmberg, P Sparén, I Milsom, B Strander (Sweden)
   MC: The risk of vaginal cancer is associated with a history of cervical neoplasia
   J Tidy (UK)

Fertility and assisted reproduction
458   Effect of deprivation on in vitro fertilisation outcome: a cohort study
   AL Richardson, NE Baskind, R Karuppusami, AH Balen (UK, India)
   MC: Impact of socio-economic deprivation on pregnancy and delivery rates after in vitro fertilisation
   O Bougie, MP Velez (Canada)

General obstetrics
467   Do obstetricians apply the national guidelines? A vignette-based study assessing practices for the prevention of preterm birth
   A Rousseau, E Azria, S Baumann, C Deneux-Tharaux, MV Senat (France)
   MC: We know how to write guidelines, now we need to implement them
   PJ Steer (UK)

Maternal medicine
478   Pravastatin for early-onset pre-eclampsia: a randomised, blinded, placebo-controlled trial
   A Ahmed, DJ Williams, V Cheed, LJ Middleton, S Ahmad, K Wang, AT Vince, P Hewett, K Spencer, KS Khan, JP Daniels, for the StAmP trial Collaborative Group (UK, Saudi Arabia)
   MC: Pravastatin to ameliorate early-onset pre-eclampsia: promising but not there yet
   MM Costantine (USA)

490   Maternal lipids are associated with newborn adiposity, independent of GDM status, obesity and insulin resistance: a prospective observational cohort study
   S Samsuddin, PA Arumugam, Md.S Md. Amin, A Yahya, N Musa, L-L Lim, SS Paramasivam, J Ratnasingam, L Ibrahim, KC Chooi, ATB Tan, PC Tan, SZ Omar, N Samingan, A Ahmad Kamar, A Anuar Zaini, MY Jalaluddin, SR Vethakkan (Malaysia)

500   Effect of couple-based cognitive behavioural intervention on prevention of postnatal depression: multisite randomised controlled trial
   F-W Ngai, PW-C Wong, K-F Chung, P-H Chau, P-W Hui (Hong Kong)

508   Neurodevelopmental outcome in 7-year-old children is not affected by exercise during pregnancy: follow up of a multicentre randomised controlled trial
   MS Ellingsen, A Pettersen, SN Stafhe, S Mørkved, KÅ Salvesen, KAI Evensen (Norway)
   MC: Child developmental follow up in obstetric RCTs: a unique opportunity
   M Fernandes (UK)
   JC: What are the effects of exercise in pregnancy on the developing fetus?
   JE Jardine (UK)

* MC: Mini commentary
* JC: Journal Club
**BJOG Exchange**

520  Re: Infant microbiota and antibiotic prophylaxis in caesarean delivery  
ACR Winther, PB Axelsson, TD Clausen, ECL Løkkegaard (Denmark)

520  Author’s reply re: Infant microbiota and antibiotic prophylaxis in caesarean delivery  
AF Moron (Brazil)

521  Re: Induction of labour should be offered to all women at term: FOR: Induction of labour should be offered at term  
G McKenzie (UK)

522  Authors’ reply re: Induction of labour should be offered to all women at term: FOR: Induction of labour should be offered at term  
K Lightly, A Weeks (UK)

523  Re: Computerised analysis of intrapartum fetal heart rate patterns and adverse outcomes in the INFANT trial  
SL Sholapurkar (UK)

524  Authors’ reply re: Computerised analysis of intrapartum fetal heart rate patterns and adverse outcomes in the INFANT trial  
PJ Steer, C McKenzie, L Linsell (UK)
SUMMARY INSTRUCTIONS TO AUTHORS
(full instructions are available at bjog.org)

INTRODUCTION
A manuscript is considered on the understanding that it has been submitted exclusively to BJOG and the data presented have not been published elsewhere. The requirements for authorship and for preparation of manuscripts submitted to BJOG are in accordance with the Uniform Requirements for Manuscripts Submitted to Biomedical Journals.1 The standards for the editorial process are in accordance with the Committee on Publication Ethics guidelines in A Code of Conduct for Editors of Biomedical Journals.2

SUBMISSION OF MANUSCRIPTS
Submissions to BJOG must be made online through ScholarOne by logging in on the homepage. Paper manuscripts are not accepted. You must register on the site, ensuring that you enter a reliable email address for all correspondence concerning your submission. You will receive a login and password, which provide access to your Home Page. Full instructions for submitting a manuscript are available on the website. You should take the time to read these instructions prior to submitting a manuscript.

If your paper is accepted, the author identified as the formal corresponding author for the paper will receive an email prompting them to login into Author Services; where via the Wiley Author Licensing Service (WALS) they will be able to complete the license agreement on behalf of all authors on the paper. Where Online Open is required please also complete the online payment form.

LAYOUT OF MANUSCRIPTS
The appropriate layout for manuscripts is described in the online instructions. All online submissions must include a cover letter to the Editor-in-Chief and a Title Page with author details at the beginning of the manuscript. Details of abstract requirements are found in the instructions for submitting a manuscript. A review of a current issue of BJOG will assist you in understanding the requirements.

TYPES OF ARTICLES
BJOG publishes Original Research Articles, Systematic Reviews, Randomised Controlled Trials, Reviews, Surgical Techniques, Case Reports, Commentaries and Letters. Please note that ethical approval, patient consent, CONSORT diagram and checklist, QUOROM statement checklist and protocol summary will be required as appropriate to your submission.

ACCEPTED ARTICLES
Accepted Articles have been accepted for publication and undergone full peer review but have not been through the copyediting, typesetting, pagination and proofreading process. Accepted Articles are published online a few days after final acceptance, appear in PDF format only, are given a Digital Object Identifier (DOI), which allows them to be cited and tracked, and are indexed by PubMed.

PROOFS
Proofs of accepted manuscripts will be sent via our e-proofing site to the indicated Corresponding Author. Please ensure that the email address on the article Title Page is current.

EARLY VIEW
Early View articles are complete full-text articles published online in advance of their publication in a printed issue. Articles are therefore available as soon as they are ready, rather than having to wait for the next scheduled print issue. Early View articles are complete and final. They have been fully reviewed, revised and edited for publication, and the authors’ final corrections have been incorporated. Because they are in final form, no changes can be made after online publication. They are given a Digital Object Identifier (DOI), which allows the article to be cited and tracked. After publication, the DOI remains valid and can continue to be used to cite and access the article.

Disclaimer: The Publisher, the Royal College of Obstetricians and Gynaecologists (RCOG) and Editors cannot be held responsible for errors or any consequences arising from the use of information contained in this journal; the views and opinions expressed do not necessarily reflect those of the College or Editors, neither does the publication of advertisements constitute any endorsement by the College or Editors of the products advertised.

1International Committee of Medical Journal Editors, JAMA 1993; 269; 2282–2286
2Committee on Publication Ethics guidelines www.publicationethics.org.uk/guidelines/code/