

JANUARY 2019 ■ Volume 220, Number 1

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- 7** Catherine S. Bradley, MD, MSCE, *AJOG's* new Editor-in-Chief for Gynecology
Roberto Romero
- 8** Postpartum salpingectomy: a procedure whose time has come
Abigail S. Zamorano; David G. Mutch
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- 10** Opportunistic salpingectomy: an appropriate procedure during all pelvic surgeries
Farr R. Nezhat; Vanessa T. Martinelli
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SPECIAL REPORTS

- 12** Top-cited articles in the Journal: a bibliometric analysis
 Stacy M. Yadava; Haylea S. Patrick; Cande V. Ananth; Todd Rosen; Justin S. Brandt
The top-cited articles in the Journal from 1920 through 2018 were observational studies from US authors, although there was a trend toward an increasing number of non-US articles after 1995. Randomized clinical trials also gained in citation frequency over time.
- 26** Rediscovering Ignaz Philipp Semmelweis (1818–1865)
 Nicholas Kadar
The life and scientific significance of Ignaz Philipp Semmelweis' work is critically reviewed.

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Original research articles, whose abstracts appear in this issue, are posted in full at ajog.org

OUR SESQUICENTENNIAL

The Journal celebrates its 150th anniversary year with a new look on the cover. *AJOG* was founded as the *American Journal of Obstetrics and Diseases of Women and Children* by its first editor-in-chief, Benjamin Franklin Dawson, MD (1847–88), who attended the Columbia University College of Physicians and Surgeons, served as assistant surgeon in the US Army in the last year of the Civil War, and is buried in Brooklyn, NY.

Our publisher, editors, and staff are proud to uphold the Journal's long tradition of presenting groundbreaking research and clinical observations in all aspects of obstetrics and gynecology. In upcoming issues, this space will highlight significant papers from *AJOG's* rich history.

AJOG Roundup at ajog.org

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Glossary of Symbols

Editors' Choice



Articles selected by the editors for special notice

SMFM papers



Articles from the Society for Maternal–Fetal Medicine

Fast-Track papers



Research articles from the latest SMFM meeting, sped to press

IDSOG papers



Articles from the Infectious Diseases Society for Obstetrics and Gynecology

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SUBMISSION TO ONLINE PUBLICATION: ~3.5 MONTHS

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GIANTS IN OBSTETRICS AND GYNECOLOGY

- 40** Giants in Obstetrics and Gynecology Series: a profile of Judith Vaitukaitis, MD, who made possible the early detection of pregnancy
Roberto Romero

EXPERT REVIEWS

- 45** Zika virus and the nonmicrocephalic fetus: why we should still worry
Christie L. Walker; Marie-Térèse E. Little; Justin A. Roby; Blair Armistead; Michael Gale Jr; Lakshmi Rajagopal; Branden R. Nelson; Noah Ehinger; Brittney Mason; Unzila Nayeri; Christine L. Curry; Kristina M. Adams Waldorf



This review presents why Zika virus is still worrisome from new knowledge of anomalies in nonmicrocephalic infants to why related viruses may also injure the fetus.

SYSTEMATIC REVIEWS

- 57** Prenatal exposure to selective serotonin reuptake inhibitors and serotonin norepinephrine reuptake inhibitors and risk for persistent pulmonary hypertension of the newborn: a systematic review, meta-analysis, and network meta-analysis



Reem Masarwa; Benjamin Bar-Oz; Einat Gorelik; Shimon Reif; Amichai Perlman; Ilan Matok

Antidepressant therapy during pregnancy is associated with persistent pulmonary hypertension of the newborn. Among the antidepressants, sertraline seems to have a favorable safety profile.

CLINICAL OPINION

- 67** The importance of access to comprehensive reproductive health care, including abortion: a statement from women's health professional organizations

Eve Espey; Amanda Dennis; Uta Landy

At a time of increasing restrictions and legislative interference, 12 women's health professional organizations confirm support for access to comprehensive reproductive health care access, including abortion.

CALL TO ACTION

- 71** Tackling poorly selected, collected, and reported outcomes in obstetrics and gynecology research

James M. N. Duffy; Sue Ziebland; Peter von Dadelszen; Richard J. McManus
Developing, disseminating, and implementing core outcome sets should standardize outcome selection, collection, and reporting across obstetrics and gynecology research.

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POINT/COUNTERPOINT

74 Fetal growth and risk assessment: is there an impasse?

Wessel Ganzevoort; Baskaran Thilaganathan; Ahmet Baschat; Sanne J. Gordijn; Jason Gardosi

The topic of fetal growth and risk assessment is discussed.

ORIGINAL RESEARCH

Articles abstracted in this issue appear in full at ajog.org

GYNECOLOGY

83 Hysterectomy status and all-cause mortality in a 21-year Australian population-based cohort study

Louise F. Wilson; Nirmala Pandeya; Julie Byles; Gita D. Mishra

Hysterectomy with ovarian conservation (≤ 50 years) did not increase risk of all-cause mortality. Mortality was higher for hysterectomy and bilateral oophorectomy (≤ 50 years) in nonmenopausal hormone therapy users.**85 Menopausal symptoms and surgical complications after opportunistic bilateral salpingectomy, a register-based cohort study**

Elin Collins; Annika Strandell; Gabriel Granåsen; Annika Idahl

A retrospective cohort study based on the Swedish National Quality Register of Gynecological Surgery indicated increased risk of menopausal symptoms 1 year after opportunistic salpingectomy.

87 A group-based yoga program for urinary incontinence in ambulatory women: feasibility, tolerability, and change in incontinence frequency over 3 months in a single-center randomized trial

Alison J. Huang; Margaret Chesney; Nadra Lisha; Eric Vittinghoff; Michael Schembri; Sarah Pawlowsky; Amy Hsu; Leslee Subak

Ambulatory women found a 3-month, incontinence-specific yoga program to be well tolerated, although their 76% decrease in incontinence frequency was not significantly greater than among time-and-attention controls.

89 Effect of gabapentin on sexual function in vulvodynia: a randomized, placebo-controlled trial

Gloria A. Bachmann; Candace S. Brown; Nancy A. Phillips; Leslie A. Rawlinson; Xinhua Yu; Ronald Wood; David C. Foster; and the Gabapentin Study Group

Women with provoked vulvodynia showed improvement in sexual function with gabapentin treatment vs placebo.

91 Vulvovaginal candidiasis: histologic lesions are primarily polymicrobial and invasive and do not contain biofilms

Alexander Swidsinski; Alexander Guschin; Qionglan Tang; Yvonne Dörfel; Hans Verstraelen; Alexander Tertychnyy; Guzel Khayrullina; Xin Luo; Jack D. Sobel; Xuefeng Jiang

Histopathological lesions of vulvovaginal Candidiasis are primarily invasive and polymicrobial and include *Lactobacillus iners/crispatus* and less often *Gardnerella* and *Atopobium*. No *Candida* biofilms could be demonstrated.

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ORIGINAL RESEARCH (continued from page 7A)

- 93 Association of levator injury and urogynecological complaints in women after their first vaginal birth with and without mediolateral episiotomy**
Leonie Speksnijder; Daniëlla M. J. Oom; Jeroen Van Bavel; Eric A. P. Steegers; Anneke B. Steensma

Mediolateral episiotomy has no association with levator avulsion, levator ballooning, or urogynecological complaints.

- 94 Interpersonal trauma and aging-related genitourinary dysfunction in a national sample of older women**

Carolyn J. Gibson; Nadra E. Lisha; Louise C. Walter; Alison J. Huang

Interpersonal trauma was associated with aging-related genitourinary complaints among 1551 older women, independent of demographic or clinical factors, and only mildly attenuated by tissue-specific markers of vaginal atrophy.

OBSTETRICS

- 96 Uterine and fetal placental Doppler indices are associated with maternal cardiovascular function**



Jasmine Tay; Giulia Masini; Carmel M. McEniery; Dino A. Giussani;

Caroline J. Shaw; Ian B. Wilkinson; Phillip R. Bennett; Christoph C. Lees

Low maternal cardiac output and high maternal vascular resistance are associated with and may drive abnormal uterine and fetal Doppler indices.

- 98 Hospital variation in utilization and success of trial of labor after a prior cesarean**

Xiao Xu; Henry C. Lee; Haiqun Lin; Lisbet S. Lundsberg;

Katherine H. Campbell; Heather S. Lipkind; Christian M. Pettker;

Jessica L. Illuzzi

Utilization and success rates of trial of labor vary substantially across hospitals for women with a prior cesarean delivery and demonstrated an inverted U-shaped relationship.

- 100 Early preterm preeclampsia outcomes by intended mode of delivery**

Elizabeth M. Coviello; Sara N. Iqbal; Katherine L. Grantz; Chun-Chih Huang; Helain J. Landy; Uma M. Reddy

Induction of labor for preeclampsia before 34 weeks is successful in almost half of women and needs to balance maternal and neonatal outcomes.

- 102 Gestational diabetes mellitus is associated with adverse outcomes in twin pregnancies**

Liran Hiersch; Howard Berger; Rania Okby; Joel G. Ray; Michael Geary;

Sarah D. McDonald; Beth Murray-Davis; Catherine Riddell; Ilana Halperin;

Haroon Hasan; Jon Barrett; Nir Melamed; for DOH-NET (Diabetes,

Obesity and Hypertension in Pregnancy Research Network)

and SOON (Southern Ontario Obstetrical Network) Investigators

Gestational diabetes mellitus is associated with some adverse pregnancy outcomes including accelerated fetal growth also in twin pregnancies.

ORIGINAL RESEARCH *(continued)***104** Maternal biomarkers for fetal heart failure in fetuses with congenital heart defects or arrhythmias

Takekazu Miyoshi; Hiroshi Hosoda; Michikazu Nakai; Kunihiro Nishimura; Mikiya Miyazato; Kenji Kangawa; Tomoaki Ikeda; Jun Yoshimatsu; Naoto Minamino

Maternal serum concentrations of proinflammatory cytokines and apoptotic and angiogenic factors were associated with fetal heart failure.

106 Cost-effectiveness of opportunistic salpingectomy vs tubal ligation at the time of cesarean delivery

Kartik K. Venkatesh; Leslie H. Clark; David M. Stamilio

Salpingectomy and tubal ligation with cesarean are cost-effective for cancer and pregnancy prevention, but peripartum salpingectomy risks and cancer risk reduction are not well characterized.

➤ Related editorials, pages 8 and 10

108 The increased activity of a transcription factor inhibits autophagy in diabetic embryopathy

Cheng Xu; Xi Chen; E. Albert Reece; Wenhui Lu; Peixin Yang

A transcription factor mediates the inhibitory effect of maternal diabetes on autophagy.

110 Placental transcriptional and histologic subtypes of normotensive fetal growth restriction are comparable to preeclampsia

Isaac Gibbs; Katherine Leavey; Samantha J. Benton; David Grynspan;



Shannon A. Bainbridge; Brian J. Cox

Gene expression profiling reveals 3 molecular subtypes of placentas from normotensive small-for-gestational-age pregnancies with suspected fetal growth restriction, which demonstrated enriched histologic and clinical features.

IMAGES IN GYNECOLOGY

113 A rare case of endometriosis invading external iliac vein causing deep vein thrombosis

Ma Li; Kailun Chen; Yoke Fai Fong

This case illustrates a rare case of endometriosis involving external iliac vein that caused deep vein thrombosis.

RESEARCH LETTERS

115 Trends in pregnancy-associated mortality involving opioids in the United States, 2007–2016

Alison Gemmill; Mathew V. Kiang; Monica J. Alexander

116 Savings with expanding use of the levonorgestrel intrauterine device and fewer benign hysterectomies

Daniel M. Morgan; Neil S. Kamdar; Vanessa K. Dalton; Carolyn W. Swenson; Michelle H. Moniz; Brahmajee Nallamothu

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- 127** Magnetic resonance imaging management of placenta accrete spectrum
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CORRECTION

- 112** June 2018 (vol. 218, no. 6, pages 618.e1-7)
Inconsistencies were identified between the text and a figure in a June 2018 article on the use of MRI as an adjunct to ultrasound in managing placenta accreta spectrum disorders.

SOCIETY FOR MATERNAL-FETAL MEDICINE

B2 Interpregnancy Care



This document is endorsed by the American College of Nurse-Midwives and the National Association of Nurse Practitioners in Women's Health. This document was developed by the American College of Obstetricians and Gynecologists and the Society for Maternal-Fetal Medicine in collaboration with Judette Marie Louis; Allison Bryant; Diana Ramos; Alison Stuebe; Sean C. Blackwell

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