

NOVEMBER 2019 ■ Volume 221, Number 5

### EXPERT REVIEWS

#### 377 To the point: undergraduate medical education learner mistreatment issues on the learning environment in the United States

Archana Pradhan; Samantha D. Buery-Joyner; Sarah Page-Ramsey; Susan Bliss; LaTasha B. Craig; Elise Everett; David A. Forstein; Scott Graziano; Laura Hopkins; Margaret McKenzie; Helen Morgan; Brittany S. Hampton  
The problem of learner mistreatment on obstetrics and gynecology clerkships is reviewed, and institutional and clerkship-level solutions are suggested.

#### 383 Placental colonization with periodontal pathogens: the potential missing link

Lori A. Fischer; Ellen Demerath; Peter Bittner-Eddy; Massimo Costalonga  
Placental colonization with periodontal pathogens may explain the association of periodontitis with adverse pregnancy outcomes and the failure of dental therapy to reduce such outcomes.

### SYSTEMATIC REVIEWS

#### 393 Fat mass changes during menopause: a metaanalysis

Ananthan Ambikairajah; Erin Walsh; Hossein Tabatabaei-Jafari; Nicolas Cherbuin  
Attention should be paid to the accumulation of central fat after menopause, whereas increases in total fat mass should be monitored consistently across the lifespan.

#### 410 Laparoscopic and robotic hysterectomy in endometrial cancer patients with obesity: a systematic review and meta-analysis of conversions and complications

Maria C. Cusimano; Andrea N. Simpson; Fahima Dossa; Valentina Liani; Yuvreet Kaur; Sergio A. Acuna; Deborah Robertson; Abheha Satkunarathnam; Marcus Q. Bernardini; Sarah E. Ferguson; Nancy N. Baxter  
This systematic review suggests that robotic surgery may offer clinical benefit over conventional laparoscopy in patients with endometrial cancer and morbid obesity who undergo primary hysterectomy.

(continued)

Original research articles, whose abstracts appear in this issue, are posted in full at [ajog.org](http://ajog.org)

### AJOG EPONYMS

#### Woods screw maneuver for shoulder dystocia (1943)

At a meeting of the New York Academy of Medicine in May 1942, C. E. Woods, MD, an obstetrician working at hospitals in Mineola and Hempstead, NY, noted that, as he later wrote, “both in teaching and in practice, it would appear that disaster attributable only to difficulty in shoulder delivery is to be accepted as an unavoidable incident.”

To counter this presumption, Dr Woods, drawing on a law of physics, designed “a simple, easily taught, working principle or plan” applicable to all shoulder delivery problems. He laid out his technique, to become known as the Woods screw maneuver for shoulder dystocia, in the Journal in 1943.<sup>1</sup>

Once the baby’s head has emerged, Dr Woods wrote, the shoulders “resemble a longitudinal section of a screw engaged in three threads”: pubic, promontory, and coccyx. “Any pulling on the baby’s neck or axilla,” he observed, “is mechanically incorrect because it violates a simple, well-known law of physics applicable to the screw.”

The article, with photographs featuring a wooden manikin, is available with other “AJOG Eponyms” under the Collections tab at [ajog.org](http://ajog.org).

#### REFERENCE

1. Woods CE. A principle of physics as applicable to shoulder delivery. 1943;45:796-804.

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## Glossary of Symbols

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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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## SYSTEMATIC REVIEWS *(continued)*

### 429 Progestogens for the prevention of preterm birth and risk of developing gestational diabetes mellitus: a meta-analysis

Vasilios Pergialiotis; Ioannis Bellos; Eriphi Hatziagelaki; Aris Antsaklis; Dimitrios Loutradis; George Daskalakis

The present meta-analysis reveals evidence that indicates that women who receive 17-alpha hydroxyprogesterone caproate are at increased risk of developing gestational diabetes mellitus.

## CLINICAL OPINION

### 437 Placental bed research: I. The placental bed: from spiral arteries remodeling to the great obstetrical syndromes

Ivo Brosens; Patrick Puttemans; Giuseppe Benagiano

The first of two articles on the study of the placental bed is featured.

### 457 Placental bed research: II. Functional and immunological investigations of the placental bed

Lynda K. Harris; Marisa Benagiano; Mario M. D'Elisio; Ivo Brosens; Giuseppe Benagiano

Pregnancy is now being recognized as a biological stress test, whereby undiagnosed or subclinical levels of cardiovascular disease or altered immune responses may predispose pregnant women to complications; clinical management should therefore involve consideration of future cardiovascular disease risk for both affected mothers and their offspring.

## ORIGINAL RESEARCH

Articles abstracted in this issue appear in full at [ajog.org](http://ajog.org)

### GYNECOLOGY

### 470 Preconception blood pressure and time to pregnancy among couples attempting to conceive their first pregnancy

Xiang Hong; Jun Zhao; Kaiping Huang; Qiaoyun Dai; Hongguang Zhang; Yan Xuan; Jingwei Wu; Shenghao Fang; Qiaomei Wang; Haiping Shen; Zongyu Xu; Yiping Zhang; Donghai Yan; Daxun Qi; Xueying Yang; Yue Zhang; Xu Ma; Bei Wang

Abnormal preconception blood pressure levels of couples were associated with prolonged time to pregnancy.

### 472 Biomarker panel for early detection of endometrial cancer in the Prostate, Lung, Colorectal, and Ovarian cancer screening trial



Christopher M. Tarney; Guisong Wang; Nicholas W. Bateman; Kelly A. Conrads; Ming Zhou; Brian L. Hood; Jeremy Loffredo; Chunqiao Tian; Kathleen M. Darcy; Chad A. Hamilton; Yovanni Casablanca; Anna Lokshin; Thomas P. Conrads; G. Larry Maxwell

A biomarker panel consisting of 6 proteins distinguished endometrial cancer cases from controls  $\leq 2$  years from diagnosis using prediagnostic serum.

The online issue is FREE with your print subscription. Register at [ajog.org/onlineaccess/](http://ajog.org/onlineaccess/).

ORIGINAL RESEARCH *(continued)***474 National patterns of care and fertility outcomes for reproductive-aged women with endometrial cancer or atypical hyperplasia**

Ross F. Harrison; Weiguo He; Shuangshuang Fu; Hui Zhao; Charlotte C. Sun; Rudy S. Suidan; Terri L. Woodard; J. Alejandro Rauh-Hain; Shannon N. Westin; Sharon H. Giordano; Larissa A. Meyer

Fertility-conserving treatment for women with endometrial cancer or atypical hyperplasia has increased, although relatively few of these women experience live births following these diagnoses.

**476 Advanced paternal age and the risk of spontaneous abortion: an analysis of the combined 2011–2013 and 2013–2015 National Survey of Family Growth**

Brian T. Nguyen; Erica J. Chang; Kristin A. Bendikson

Based on NSFG data, advanced paternal age may increase the odds of spontaneous abortion, independent of select factors, including demographics, pregnancy intention, and maternal age.

**478 Second primary anal and oropharyngeal cancers in cervical cancer survivors**

Katyayani Papatla; Michael T. Halpern; Enrique Hernandez; Jennifer Brown; Daniel Benrubi; Karen Houck; Christina Chu; Stephen Rubin

Cervical cancer survivors have a substantially increased risk of HPV-associated anal and oropharyngeal cancers that persists 10 or more years after cervical cancer diagnosis.

**480 The relationship of defecation symptoms and posterior vaginal wall prolapse in women undergoing pelvic organ prolapse surgery**

Päivi K. Karjalainen; Nina K. Mattsson; Kari Nieminen; Anna-Maija Tolppanen; Jyrki T. Jalkanen

Posterior vaginal wall prolapse is an important contributing factor behind obstructive defecation symptoms measured by the short form of the Pelvic Floor Distress Inventory.

**483 Learning curve of robot-assisted laparoscopic sacrocolpo(recto)pexy: a cumulative sum analysis**

Femke van Zanten; Steven E. Schraffordt Koops;

Pieter C. M. Pasker-De Jong; Egbert Lenters; Henk W. R. Schreuder

We defined a learning curve for robot-assisted sacrocolpo(recto)pexy with aid of cumulative sum analysis; proficiency was obtained after 78 cases.

**485 Surgical outcomes in patients with anti-N-methyl D-aspartate receptor encephalitis with ovarian teratoma**

Yi Dai; Junji Zhang; Haitao Ren; Xingnan Zhou; Juan Chen; Liying Cui; Jinghe Lang; Hongzhi Guan; Dawei Sun

Twenty-nine cases of anti-N-methyl-D-aspartate receptor (NMDAR) encephalitis with ovarian teratoma in a prospective cohort were analyzed for their characteristics, clinical symptoms, ovarian teratoma, and significance of laparoscopic ovarian cyst removal.

*(continued)*

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**ORIGINAL RESEARCH** (continued)**OBSTETRICS**

- 487** The transition from latent to active labor and adverse obstetrical outcomes  
 Joshua I. Rosenbloom; Candice L. Woolfolk; Leping Wan; Molly J. Stout; Methodius G. Tuuli; George A. Macones; Alison G. Cahill  
 Patients whose dilation time from 4 to 6 cm exceeds the 90th percentile have increased risks for cesarean delivery and maternal and neonatal complications.
- 489** Maternal drug-related death and suicide are leading causes of postpartum death in California  
 Sidra Goldman-Mellor; Claire E. Margerison  
 Drug-related and suicide deaths comprised 54 of 300 postpartum deaths during 2010–2012 in California women (18%), with mortality risk concentrated among socioeconomically disadvantaged and non-Hispanic white women.
- 491** Association between stillbirth  $\geq 23$  weeks gestation and acute psychiatric illness within 1 year of delivery  
 Adam K. Lewkowitz; Joshua I. Rosenbloom; Matt Keller; Julia D. López; George A. Macones; Margaret A. Olsen; Alison G. Cahill  
 The risk of need for acute psychiatric care within 1 year of delivery is nearly 2.5 times higher after stillborn singleton vs liveborn singleton births.
- 493** Characteristics and mode of inheritance of pathogenic copy number variants in prenatal diagnosis  
 Matthew Hoi Kin Chau; Ye Cao; Yvonne Ka Yin Kwok; Samantha Chan; Yiu Man Chan; Huilin Wang; Zhenjun Yang; Hoi Kin Wong; Tak Yeung Leung; Kwong Wai Choy  
 Pathogenic copy number variants are common amongst high-risk pregnancies and most of them are beyond the detection limit of standard NIPS.
- 495** Size and shape of the four-chamber view of the fetal heart in fetuses with an estimated fetal weight less than the tenth centile  
 John C. Hobbins; Diane L. Gumina; Michael V. Zaretsky; Camille Driver; Annabelle Wilcox; Gregory R. DeVore  
 The 4-chamber image of the fetal heart was examined in fetuses with an estimated fetal weight  $<10^{\text{th}}$  centile and found to be abnormal in size and shape.
- 498** Assessment of ventricular contractility in fetuses with an estimated fetal weight less than the tenth centile  
 Gregory R. DeVore; Diane L. Gumina; John C. Hobbins  
 Abnormal right and left ventricular contractility of the fetal heart was identified in fetuses with an estimated fetal weight less than the 10th centile.
- 502** Cyclic-recombinase-reporter mouse model to determine exosome communication and function during pregnancy  
 Samantha Sheller-Miller; Kyungsun Choi; Chulhee Choi; Ramkumar Menon  
 Using a transgenic dual-color Cre-reporter mouse, we developed a model to investigate fetomaternal exosome crosstalk during pregnancy.

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**MEETING PAPERS**

**SGS** **SELECTED PAPERS FROM THE 45TH ANNUAL MEETING OF THE SOCIETY FOR GYNECOLOGIC SURGEONS**

**505** **A cost-minimization analysis of treatment options for postmenopausal women with dysuria**

Megan S. Bradley; Richard H. Beigi; Jonathan P. Shepherd  
The least costly strategy for treatment of postmenopausal women with dysuria is empiric antibiotic therapy with trimethoprim/sulfamethoxazole, followed by waiting on urine culture results before treatment.

**507** **Catheter burden following urogynecologic surgery**  
Alexis A. Dieter; Jennifer M. Wu; Jessica L. Gage; Katherine M. Feliciano; Marcella G. Willis-Gray

In women with voiding dysfunction after urogynecologic surgery, there was no difference in catheter burden when we compared indwelling Foley catheter and intermittent self-catheterization.

**509** **Characterizing anxiety at the first encounter in women presenting to the clinic: the CAFÉ study**

Thythy T. Pham; Yufan B. Chen; William Adams; Birte Wolff; Megan Shannon; Elizabeth R Mueller  
This study characterizes the anxiety in women about their initial urogynecologic consultation and the factors that contribute to anxiety improvement during the encounter.

**511** **Multimodal opioid-sparing postoperative pain regimen compared with the standard postoperative pain regimen in vaginal pelvic reconstructive surgery: a multicenter randomized controlled trial**  
Andrey Petrikovets; David Sheyn; Helen H. Sun; Graham C. Chapman; Sangeeta T. Mahajan; Robert R. Pollard; Sherif A. El-Nashar; Adonis K. Hijaz; Jeffrey Mangel

Multimodal opioid-sparing postoperative pain regimen offers improved pain control after vaginal pelvic reconstructive surgery compared with the standard opioid-based regimen.

**513** **Sacral neuromodulation versus onabotulinumtoxinA for refractory urgency urinary incontinence: impact on fecal incontinence symptoms and sexual function**  
Uduak U. Andy; Cindy L. Amundsen; Emily Honeycutt; Alayne D. Markland; Gena Dunivan; Keisha Y. Dyer; Nicole B. Korbly; Megan Bradley; Sandip Vasavada; Donna Mazloomdoost; Sonia Thomas; on behalf of the NICHD Pelvic Floor Disorders Network

In women with refractory urgency urinary incontinence, treatment with onabotulinumtoxinA and sacral neuromodulation result in similar improvements in fecal incontinence and sexual symptoms.

**515** **Assessing the impact of procedure-specific opioid prescribing recommendations on opioid stewardship following pelvic organ prolapse surgery**

Brian J. Linder; John A. Occhino; Sheila R. Wiest; Christopher J. Klingele; Emanuel C. Trabuco; John B. Gebhart  
Using procedure-specific opioid prescribing recommendations, we decreased the number of opioids prescribed at hospital dismissal by roughly one half, without adversely impacting patient satisfaction.

MEETING PAPERS *(continued)***517** A randomized, double-blind, placebo-controlled trial of onabotulinumtoxin A trigger point injections for myofascial pelvic pain

Sybil G. Dessie; Emily Von Bargen; Michele R. Hacker; Miriam J. Haviland; Eman Elkadry

Onabotulinumtoxin A injection into the pelvic floor muscles for myofascial pelvic pain was not more effective at decreasing muscle pain than saline injection.

**519** Anatomy, histology, and nerve density of clitoris and associated structures: clinical applications to vulvar surgery

Lindsey A. Jackson; Adam M. Hare; Kelley S. Carrick; Denise M. O. Ramirez; Jennifer J. Hamner; Marlene M. Corton

A thorough knowledge of anatomy, innervation, and tissue composition of the clitoris and associated structures is critical in patient counseling, surgical planning, and avoidance of surgical complications.

**521** A novel measurement of pelvic floor cross-sectional area in older and younger women with and without prolapse

Anne G. Sammarco; David D. Sheyn; Tessa E. Krantz; Cedric K. Olivera; Antonio A. Rodrigues; Ms. Emily K. Kobernik; Mariana Masteling; John O. Delancey

The novel measurement of anterior pelvic area takes into consideration muscular and bony aspects of the pelvic floor and is larger in older women with prolapse.

**523** Surgeon volume and reoperation risk after midurethral sling surgery

Alexander A. Berger; Jasmine Tan-Kim; Shawn A. Menefee

Higher-volume surgeons have lower reoperation rates after midurethral sling surgery.

## IMAGES IN OBSTETRICS

**524** Intravesical pregnancy due to vesicouterine fistula

Sandro Santos Fenelon; Públis Cesar Cavalcante Viana; Guilherme Orpinelli Ramos do Rego

A 36-year-old woman with a history of cyclic recurrent hematuria and chronic pelvic pain is diagnosed with vesicouterine fistula with a herniated sac-like mass in the bladder.

## SURGEON'S CORNER

**525** Surgical management of neuroproliferative-associated vestibulodynia: a tutorial on vestibulectomy with vaginal advancement flap

Catherine Wu; Andrew Goldstein; Jordan S. Klebanoff; Gaby N. Moawad

Vestibulectomy is the treatment of choice when conservative therapies have failed in reducing pain from neuroproliferative-associated vestibulodynia.

## RESEARCH LETTERS

**527** Feasibility and acceptability of home use of a smartphone-based urine testing application among women in prenatal care

Anne E. Burke; Katrina M. Thaler; Mika Geva; Yonatan Adiri

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## RESEARCH LETTERS *(continued)*

### 528 Routine screening of pregnant women for Zika virus in the setting of local transmission—Miami—Dade County, Florida, 2016–2017

Teresa Logue; Nicole Muse; Álvaro Mejia-Echeverry; Guoyan Zhang; Marie Etienne; Mercedes Rojas; Elizabeth Timoszyk; Danielle Fernandez; Stephanie Calle; Cynthia Goldberg; Amena Arshad; Edhelene Rico; Pedro Noya-Chaveco; Reynald Jean; Lillian Rivera; Rafael Mendoza; Stephen White; Leah D. Gillis; Lea Heberlein-Larson; Yesenia Villalta; Carina Blackmore

### 530 Compliance with cervical cancer screening guidelines in young female patients: rates and trends of screening in New Haven County, CT

Carlos R. Oliveira; Hillary Hosier; Blake Pate; Linda M. Niccolai; Sangini S. Sheth; Alla Vash-Margita

## LETTERS TO THE EDITORS

### 533 Strengthening opioid use disorder training among obstetrician-gynecologists: Hollander et al's call to action

Gregory T. Woods; Stephanie L. Lim; Julia R. Salinaro

### 533 Incorporating the probability of competing event(s) into the preeclampsia competing risk algorithm

David A. Krantz; Terrence W. Hallahan

Reply, page 534

David Wright; Kypros H. Nicolaidis

### 535 Uterine legacy of open maternal–fetal surgery: preterm uterine rupture

Ramen H. Chmait; Eftichia V. Kontopoulos; Rubén A. Quintero

### 536 Magnetic resonance imaging for placenta accreta: hope for the future

Grace Lim; Marc Lim; Jeanne M. Horowitz

### 537 Minimally invasive surgery for early-stage cervical cancer: is the uterine manipulator a risk factor?

Anna Dietl; Maximilian Klar; Konrad Aumann

Reply, page 538

Koji Matsuo; Alexander Melamed; Jason D. Wright

## CORRECTIONS

### 504 Ferguson KK, McElrath TF, Chen Y-H, et al. Repeated measures of urinary oxidative stress biomarkers during pregnancy and preterm birth. *Am J Obstet Gynecol* 2015;212:208.e1-8.

A table in each of 2 original research articles, published in the Journal in February 2015 and May 2017, that presented findings from the same research group contained minor erroneous data labeling due to a coding error in the dataset.

## CORRECTIONS *(continued)*

### 504 February 2019 (vol. 220, no. 2, pages 199.e1-13)

An original research article on preeclampsia screening published in the February 2019 issue spelled out an abbreviated study name incorrectly, provided an incomplete description of support supplied for the study, and omitted the second academic affiliation of a coauthor.

## SOCIETY FOR MATERNAL-FETAL MEDICINE

### B2 The Society for Maternal-Fetal Medicine (SMFM) Fetal Anomalies Consult Series



Society for Maternal-Fetal Medicine; Joanne E. Stone; Jeffrey A. Kuller; Mary E. Norton; Alfred Abuhamad

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