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.

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.

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.

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; Abhea Satkunaratnam; 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)
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; Erifili 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’Elios; 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

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 ≤2 years from diagnosis using prediagnostic serum.
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.

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 Benrubí; 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
Paivi 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 sacrocolpop(ecto)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 sacrocolpop(ecto)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)
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 ≥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
Greggory 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 < 10th 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
Greggory 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 feto-maternal exosome crosstalk during pregnancy.
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.

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.

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.

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 H. 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.

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. Korby; 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.

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 Elkady
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; Públio 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
(continued)
Routine screening of pregnant women for Zika virus in the setting of local transmission—Miami—Dade County, Florida, 2016—2017
Teresa Logue; Nicole Muse; Alvaro 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

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

Strengthening opioid use disorder training among obstetrician-gynecologists: Hollander et al’s call to action
Gregory T. Woods; Stephanie L. Lim; Julia R. Salinaro

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. Nicolaides

Uterine legacy of open maternal—fetal surgery: preterm uterine rupture
Ramen H. Chmait; Eftichia V. Kontopoulos; Rubén A. Quintero

Magnetic resonance imaging for placenta accreta: hope for the future
Grace Lim; Marc Lim; Jeanne M. Horowitz

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

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

RECRUITMENT & EMPLOYMENT OPPORTUNITIES

14A Classified advertising