EXPERT REVIEWS

295 Maternal self-harm deaths: an unrecognized and preventable outcome
Kimberly Mangla; M. Camille Hoffman; Caroline Trumpff; Sinclaire O’Grady; Catherine Monk
Effort must be made to identify and prevent maternal suicide and overdose, which begins with universal language and shared information.

SYSTEMATIC REVIEWS

304 Elective induction of labor at 39 weeks compared with expectant management: a meta-analysis of cohort studies
William A. Grobman; Aaron B. Caughey
In this meta-analysis of observational studies, 39-week labor induction among low-risk nulliparas is associated with reduced risks of cesarean delivery and multiple adverse perinatal outcomes.

CLINICAL OPINION

311 Putting the “M” back in maternal-fetal medicine: A 5-year report card on a collaborative effort to address maternal morbidity and mortality in the United States
Mary E. D’Alton; Alexander M. Friedman; Peter S. Bernstein; Haywood L. Brown; William M. Callaghan; Steven L. Clark; William A. Grobman; Sarah J. Kilpatrick; Daniel F. O’Keeffe; Douglas M. Montgomery; Sindhu K. Srinivas; George D. Wendel; Katharine D. Wenstrom; Michael R. Foley
Since the first “M in MFM” meeting 5 years ago, major educational, research, and clinical strides have been made to improve maternal safety by a broad collaborative effort.

(continued)
Assessing endometrial cancer risk among US women: long-term trends using hysterectomy-adjusted analysis
Kemi M. Doll; Aaron N. Winn
Among US women older than 50 years with a uterus, endometrial cancer incidence is highest among Black women; the relative proportion of high-risk histology increased over time.

The differential diagnoses of uterine leiomyomas and leiomyosarcomas using DNA and RNA sequencing
Aymara Mas; Roberto Alonso; Tamara Garrido-Gómez; Patricia Escorcio; Beatriz Montero; Jorge Jiménez-Almazán; Julio Martín; Nuria Pellicer; Javier Monleón; Carlos Simón
Next-generation sequencing identified differential genetic targets in uterine leiomyomas and leiomyosarcomas to establish a preoperative differential diagnosis to help prevent accidental malignant dissemination from morcellation.

The effect of childbirth on urinary incontinence: a matched cohort study in women aged 40–64 years
Maria Gyhagen; Sigvard Åkervall; Mattias Molin; Ian Milsom
Pregnancy and vaginal delivery increase the risk of urinary incontinence; cesarean delivery provides long-term protection.

Sentinel-node biopsy in early-stage ovarian cancer: preliminary results of a prospective multicentre study (SELLY)
Stefano Uccella; Camilla Nero; Enrico Vizza; Virginia Vargiu; Giacomo Corrado; Nicolò Bizzarri; Fabio Ghezzi; Francesca Cosentino; Luigi Carlo Turco; Anna Fagotti; Giovanni Scambia
Sentinel-node biopsy in early-stage ovarian cancer using ICG seems feasible and safe.

A novel classification of residual disease after interval debulking surgery for advanced-stage ovarian cancer to better distinguish oncologic outcome
Beryl L. Manning-Geist; Katherine Hicks-Courant; Allison A. Gockley; Rachel M. Clark; Marcela G. Del Carmen; Whitfield B. Growdon; Neil S. Horowitz; Ross S. Berkowitz; Michael G. Muto; Michael J. Worley Jr
Single-anatomic location, low-volume residual may be an alternative goal when complete surgical resection is unattainable during interval debulking surgery.

Use of fertility preservation services in female reproductive-aged cancer patients
Jessica Selter; Yongmei Huang; Lisa C. Grossman Becht; Katherine L. Palmerola; S. Zev Williams; Eric Forman; Candé V. Ananth; Chin Hur; Alfred I. Neugut; Dawn L. Hershman; Jason D. Wright
Only a small fraction of reproductive-aged female cancer patients receiving chemotherapy are evaluated for fertility preservation or undergo fertility-preserving procedures.
Impact of polypropylene prolapse mesh on vaginal smooth muscle in rhesus macaque

Rebecca M. Shaffer; Rui Liang; Katrina Knight; Charelle M. Carter-Brooks; Steven Abramowitch; Pamela A. Moalli

This study reports on the impact of polypropylene mesh and/or an extracellular matrix bioscaffold implanted via sacrocolpopexy on vaginal smooth muscle micromorphology, contractile properties, and innervation.

Breastfeeding and pelvic floor disorders one to two decades after vaginal delivery

David A. Lovejoy; Jennifer L. Roem; Joan L. Blomquist; Prerna R. Pandya; Victoria L. Handa

Pelvic floor disorders are not associated with breastfeeding in women who have had at least one vaginal delivery.

Labor progress determined by ultrasound is different in women requiring cesarean delivery from those who experience a vaginal delivery following induction of labor

Wing Ting Tse; Piya Chaemsaithong; Winnie W. Y. Chan; Angel H. W. Kwan; Junhong Huang; Kubi Appiah; Ka Chun Chong; Liena C. Poon

Serial intrapartum transperineal ultrasound assessment of fetal head descent can differentiate women who can have a vaginal delivery or require a cesarean delivery.

Maternal outcomes in unexpected placenta accreta spectrum disorders: single-center experience with a multidisciplinary team

Hadi Erfani; Karin A. Fox; Steven L. Clark; Martha Rac; Shiu-Ki Rocky Hui; Atefeh Rezaei; Soroush Aalipour; Amir A. Shamshirsaz; Ahmed A. Nassr; Bahram Salmanian; Kelsey A. Stewart; Elizabeth S. Kravitz; Catherine Eppe; Michael Coburn; Jimmy Espinoza; Jun Teruya; Michael A. Belfort; Alireza A. Shamshirsaz

Outcomes of expected placenta accreta spectrum are better than unexpected despite severity.

A Core Outcome Set for the prevention and treatment of fetal GROWth restriction: deVeloping Endpoints: the COSGROVE study

Patricia Healy; Sanne J. Gordijn; Wessel Ganzervoort; Irene M. Beune; Ahmet Baschat; Asma Khalil; Louise Kenny; Frank H. Bloomfield; Mandy Daly; Jamie Kirkham; Declan Devane; Aris T. Papageorghiou

COSGROVE has identified which 22 core outcomes should be included in all future trials in fetal growth restriction.

Cervical length and quantitative fetal fibronectin in the prediction of spontaneous preterm birth in asymptomatic women with congenital uterine anomaly

Alexandra E. Ridout; Linda A. Ibeto; Georgia N Ross; Joanna R. Cook; Lynne Sykes; Anna L. David; Paul T. Seed; Rachel M. Tribe; Phillip R. Bennett; Vasso Terzidou; Andrew H. Shennan; Manju Chandiramani; and collaborators: Richard G. Brown; Susan Chatfield; Dana Sadeh

Predictive tests for preterm birth (cervical length and quantitative fetal fibronectin) do not have clinical utility in women with congenital uterine anomalies related to fusion defects.
**ORIGINAL RESEARCH (continued)**

**343** Evaluation of fetal exposure to external loud noise using a sheep model: quantification of in utero acoustic transmission across the human audio range

Pierre Gelat; Anna L. David; Seyed Reza Haqhenas; Julian Henriques; Aude Thibaut de Maisieres; Tony White; Eric Jauniaux

Measurement of in utero acoustic attenuation in fetal sheep across the audio range (100 Hz to 20 kHz, at 6 Hz intervals) revealed transmission of external noise sources by as little as 3 dB through the abdominal wall and uterine cavity.

**345** Sequencing shorter cfDNA fragments improves the fetal DNA fraction in noninvasive prenatal testing

Longwei Qiao; Bin Yu; Yuting Liang; Chunhua Zhang; Xiaojuan Wu; Ying Xue; Cong Shen; Quanze He; Jiafeng Lu; Jingjing Xiang; Hong Li; Qiping Zheng; Ting Wang

Sequencing shorter cell-free DNA fragments constitutes a great screening strategy that can significantly reduce the probability of a no-calls result in noninvasive prenatal testing.

**347** Miscarriage among women in the United States Women’s Interagency HIV Study, 1994–2017

Kristin M. Wall; Lisa B. Haddad; C. Christina Mehta; Elizabeth T. Golub; Lisa Rahangdale; Jodie Dionne-Odom; Rokhsana Karim; Rodney L. Wright; Howard Minkoff; Mardge Cohen; Seble G. Kassaye; Deborah Cohen; Igho Ofoetkun; Susan E. Cohn

Poorly controlled HIV infection and tobacco, alcohol, and marijuana use were associated with increased miscarriage risk, while protease inhibitors were protective compared with a noncombination antiretroviral treatment.

**MEETING PAPERS**

**SELECTED PAPERS FROM THE 39TH ANNUAL MEETING (THE PREGNANCY MEETING) OF THE SOCIETY FOR MATERNAL-FETAL MEDICINE**

**349** An enhanced recovery after surgery pathway for cesarean delivery decreases hospital stay and cost

Emily E. Fay; Jane E. Hitti; Carlos M. Delgado; Leah M. Savitsky; Elizabeth B. Mills; JoAnn L. Slater; Laurent A. Bollag

Implementation of an enhanced recovery after surgery pathway for cesarean delivery decreased postoperative length of stay and direct cost.

**351** Physiological and psychological stress responses to labor and delivery as expressed by salivary cortisol: a prospective study

Netanella Miller; Aula Atamma Asali; Moran Agassi-Zaitler; Eran Neumark; Michal Matzkin Eisenberg; Efrat Hadi; Michal Elbaz; Yael Pasternak; Ami Fishman; Tal Biron-Shental

Physiological stress increases mostly immediately postpartum, whereas psychological stress levels decrease over the course of labor.
**MEETING PAPERS** (continued)

353 **The worst of both worlds—combined deliveries in twin gestations: a subanalysis of the Twin Birth Study, a randomized, controlled, prospective study**
Amir Aviram; Hayley Lipworth; Elizabeth V. Asztalos; Elad Mei-Dan; Xingshan Cao; Nir Melamed; Arthur Zaltz; Hannah B. Anastasio; Vincenzo Berghella; Jon F. R. Barrett
Twin B’s transverse/oblique lie is a risk factor for combined delivery of twins.

355 **Maternal surgery during pregnancy has a transient adverse effect on the developing fetal rabbit brain**
Lennart Van der Veeken; Johannes Van der Merwe; Sarah Devroe; Annalisa Inversetti; Angela Galgano; Tom Blesser; Roselien Meeusen; Steffen Rex; Jan Depreest
Maternal surgery during pregnancy has a negative effect on fetal brain development, both histologic and neurobehavioral, but with time these differences fade.

357 **The effect of placental location in cases of placenta accreta spectrum**
Elizabeth A. Morgan; Abbey Sidebottom; Marc Vacquier; Whitney Wunderlich; Matthew Loichinger
Placental location and its risk factors, diagnosis, and outcomes in women with placenta accreta spectrum (PAS).

**IMAGES IN OBSTETRICS AND GYNECOLOGY**

359 **Painful ulceration of the vulva**
Elisabeth Gómez Moyano; María Ayala Blanca; Leandro Martínez Pilar
Pemphigus vulgaris is an autoimmune blistering disease of skin and mucosal membranes.

361 **Diagnosis airhead: a case of pneumocephalus in labor**
Jenani S. Jayakumaran; Ushma Thomas; Meike Schuster
This image illustrates a novel presentation of pneumocephalus in a laboring patient and the importance of maintaining a broad differential.

**RESEARCH LETTERS**

362 **Atomic force microscopy: a promising aid in diagnosis of uterine smooth muscle neoplasms**
Leonardo A. Peñuela; Ezio Fulcheri; Valerio G. Vellone; Roberto Fiocca; Gian M. Vigliercio; Roberto Raiteri; Simone Ferrero

364 **Impact of a structured obstetrics and gynecology residency research program**
Maryam Guiahi; Sara Mazzoni; Torri Metz; Meredith Alston

365 **Transvaginal ultrasound is superior to transabdominal ultrasound in the identification of a short cervix**
Jenani S. Jayakumaran; Sue Egan; Mallika Tatkola; Meike Schuster; Christina M. Duzyj; Justin S. Brandt; Cande V. Ananth
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LETTERS TO THE EDITORS

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Yijie Zhou; Hui Huang

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370 Breastfeeding outcomes after assisted conception
Jhia J. Teh; Kanapath Oungpasuk

371 Improving treatment of opioid use disorder in pregnancy: first define the workforce
Aimee R. Eden; Tyler W. Barreto; Joshua St. Louis
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372 Should we absolutely reject the hypothesis that epithelium-based Candida biofilms contribute to the pathogenesis of human vulvovaginal candidiasis?
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374 In women with transplantable euploid blastocysts, age does not affect transplant potential
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Mohamad Irani; Nikica Zaninovic; Zev Rosenwaks; Kangpu Xu

CORRECTION

358 May 2019 (vol. 220, no. 5, page 504)
A sentence and citation were omitted in a Letter to the Editors published in the May 2019 issue.

SOCIETY FOR MATERNAL-FETAL MEDICINE

B2 Executive summary: Reproductive Services for Women at High Risk for Maternal Mortality Workshop, February 11—12, 2019, Las Vegas, Nevada
Society for Maternal-Fetal Medicine (SMFM)
This executive summary briefly reviews the primary discussion points and findings from the SMFM workshop "Reproductive Services for Women at High Risk for Maternal Mortality."

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