

APRIL 2019 ■ Volume 220, Number 4

EDITORIAL

293 Standard vs population reference curves in obstetrics: which one should we use?

Cande V. Ananth; Justin S. Brandt; Anthony M. Vintzileos

➤ Related article, page 383

SPECIAL REPORT

297 Automated early detection of obstetric complications: theoretic and methodologic considerations



Gabriel J. Escobar; Neeru R. Gupta; Eileen M. Walsh; Lauren Soltesz; Stephanie M. Terry; Patricia Kipnis

This article addresses key theoretic and methodologic questions that scientists and obstetricians must consider when developing automated electronic early warning systems for use in the labor and delivery service and in postpartum units.

308 Inflammatory Bowel Disease in Pregnancy Clinical Care Pathway: A Report From the American Gastroenterological Association IBD Parenthood Project Working Group

Uma Mahadevan; Christopher Robinson; Nana Bernasko; Brigid Boland; Christina Chambers; Marla Dubinsky; Sonia Friedman; Sunanda Kane; Jacob Manthey; Jason Sauberan; Joanne Stone; Rajeev Jain

EXPERT REVIEWS

324 Ecological dynamics of the vaginal microbiome in relation to health and disease

Shirley Greenbaum; Gili Greenbaum; Jacob Moran-Gilad; Adi Y. Weintraub
Ecological theories can describe dynamics in the vaginal microbiome, and can deepen our understanding of the relation between the microbiome and states of health and disease.

(continued)



Selected papers presented at the February 2019 meeting of the Society for Maternal-Fetal Medicine and sped to press for the benefit of our readers.

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

AJOG CITATION CLASSICS

Dr Kegel's perineometer

Having experimented with perineal muscle exercise for 15 years and published his recommendations in 1942, Arnold H. Kegel, MD, described in the August 1948 issue of the Journal the perineometer, an instrument for measuring pelvic floor muscle strength in the doctor's office.

Dr Kegel, of Hollywood Presbyterian Hospital, Olmstead Memorial, Los Angeles, wrote: "A restudy of the problems of the lax perineum in relation to modern concepts of muscle-cell regeneration and function reveals that birth-canal musculature is especially responsive to an improved method of conserving and restoring function."

His paper is among the pioneering articles collectively entitled "AJOG Eponyms," newly posted to our website in celebration of AJOG's 150th anniversary. Each author's name is associated with what became a commonly used test, device, method, syndrome, maneuver, or other medical entity.

To read Dr Kegel's article, click the Collections tab along the top of the home page at ajog.org, then AJOG Eponyms.

REFERENCE

Kegel AH. Progressive resistance exercise in the functional restoration of the perineal muscles. 1948;56:238-48.

AJOG Roundup at ajog.org

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Infectious Diseases Society for Obstetrics and Gynecology

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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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SYSTEMATIC REVIEWS

336 Trial of labor after cesarean delivery in twin gestations: systematic review and meta-analysis



Doron Kabiri; Razan Masarwy; Natali Schachter-Safrai; Reem Masarwa;



Bruria Hirsh Raccach; Yossef Ezra; Ilan Matok

A planned vaginal birth for women with twin gestation and previous cesarean delivery may be a safe alternative to a planned repeat cesarean.

CLINICAL OPINION

348 Threshold of metabolic acidosis associated with newborn cerebral palsy: medical legal implications

Michael G. Ross

A threshold level of umbilical artery metabolic acidosis, expressed as base deficit_{extracellular fluid}, is associated with an increased risk of cerebral palsy, although the rate of cerebral palsy does not significantly increase within the base deficit range of 12–20 mmol/L.

CALL TO ACTION

354 Clinical diagnosis of endometriosis: a call to action

Sanjay K. Agarwal; Charles Chapron; Linda C. Giudice; Marc R. Laufer; Nicholas Leyland; Stacey A. Missmer; Sukhbir S. Singh; Hugh S. Taylor

Long delays common in the diagnosis of endometriosis warrant reconsidering standard practices, historically rooted in surgery, in favor of accessible, expedient, and noninvasive clinical approaches.

VIEWPOINT

365 The American Gynecological and Obstetrical Society—reinvigorating for the 21st century

Laurel W. Rice; Charles J. Lockwood; Maureen Phipps; John O. L. Delancey; Ronald D. Alvarez; Marcelle I. Cedars

This report reviews a strategic plan designed to reinvigorate the American Gynecological and Obstetrical Society to address, together with partner organizations, the pressing issues and challenges in women's reproductive health.

ORIGINAL RESEARCH

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

GYNECOLOGY

367 Effect of postoperative partial bladder filling after minimally invasive hysterectomy on postanesthesia care unit discharge and cost: a single-blinded, randomized controlled trial



Gaby Moawad; Paul Tyan; Cherie Marfori; Elias Abi Khalil; Daniel Park

Partial bladder filling after minimally invasive hysterectomy is associated with shorter postanesthesia care unit stay and significant cost reduction.

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ORIGINAL RESEARCH (continued from page 6A)

369 Cystoscopy at the time of benign hysterectomy: a decision analysis

 Lauren A. Cadish; Beri M. Ridgeway; Jonathan P. Shepherd
Selective cystoscopy minimally increases cost per hysterectomy at baseline, but once intraoperative urinary tract injury risk exceeds a modest threshold, selective cystoscopy becomes cost saving.

371 The effect of body mass index on retropubic midurethral slings

Fiona Bach; Simon Hill; Philip Tooze-Hobson
Midurethral slings for stress urinary incontinence were less effective in obese women in an analysis of 11,859 cases from the British Society of Urogynaecology database.

373 Intravenous acetaminophen vs saline in perioperative analgesia with laparoscopic hysterectomy

Noah B. Rindos; Suketu M. Mansuria; Amanda M. Ecker; Mallory A. Stuparich; Cara R. King
No differences were demonstrated between intravenous acetaminophen and placebo in measures of postoperative pain, intraoperative or postoperative opioid consumption, nausea, or satisfaction after laparoscopic hysterectomy.

376 Predictors of contraceptive switching and discontinuation within the first 6 months of use among Highly Effective Reversible Contraceptive Initiative Salt Lake study participants

 Rebecca G. Simmons; Jessica N. Sanders; Claudia Geist; Lori Gawron; Kyl Myers; David K. Turok
One in 5 women who were provided no-cost reversible contraception and the ability to change methods without cost either switched or discontinued their initial method within 6 months after initiation.

379 Does maternal age at retrieval influence the implantation potential of euploid blastocysts?

 Mohamad Irani; Nikica Zaninovic; Zev Rosenwaks; Kangpu Xu
Maternal age at retrieval influences the number of euploid embryos but does not affect their implantation potential.

381 Survival outcome prediction in cervical cancer: Cox models vs deep-learning model

Koji Matsuo; Sanjay Purushotham; Bo Jiang; Rachel S. Mandelbaum; Tsuyoshi Takiuchi; Yan Liu; Lynda D. Roman
Deep-learning neural network model may be a useful analytic tool to predict survival in women with cervical cancer.

OBSTETRICS

383 From population reference to national standard: new and improved birthweight charts

Liset Hoftiezer; Michel H. P. Hof; Joyce Dijs-Elsinga; Marije Hogeveen; Chantal W. P. M. Hukkelhoven; Richard A. van Lingen
Excluding risk factors that cause lower birthweights results in prescriptive birthweight charts more akin to fetal-weight charts, enabling proper discrimination between normal and abnormal birthweight.

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ORIGINAL RESEARCH (continued from page 8A)

385 Obesity and laboratory aspirin resistance in high-risk pregnant women treated with low-dose aspirin



Matthew M. Finneran; Veronica M. Gonzalez-Brown; Devin D. Smith; Mark B. Landon; Kara M. Rood

Obese pregnant women have lower rates of complete thromboxane B₂ inhibition with low-dose (60-mg) aspirin treatment.

387 Vaginal assessment and expedited amniotomy in oral misoprostol labor induction in nulliparas: a randomized trial

Sandar Tin Win; Peng Chiong Tan; Imelda Balchin; Su Yen Khong; Khaing Si Lay; Siti Zawiah Omar

Vaginal examinations with expedited amniotomy during oral misoprostol labor induction shorten interval to vaginal birth; satisfaction score is similar, but women prefer a restricted regimen.

389 Time from neuraxial anesthesia placement to delivery is inversely proportional to umbilical arterial cord pH at scheduled cesarean delivery

Rebecca R. Rimsza; William M. Perez; Shilpa Babbar; Megan O'Brien; Laura K. Vricella

Increased time interval from neuraxial anesthesia placement to delivery is associated with lower umbilical arterial pH values during scheduled cesarean delivery.

391 Delivery-associated sepsis: trends in prevalence and mortality



Anthony M. Kendle; Jason L. Salemi; Jean Paul Tanner; Judette M. Louis

The rate of delivery-associated sepsis has increased in recent years, but sepsis-related mortality has decreased.

393 Inherited predisposition to stillbirth: an intergenerational analysis of 26,788 mother-daughter pairs



Andrea M. F. Woolner; Edwin Amalraj Raja; Siladitya Bhattacharya; Peter Danielian; Sohinee Bhattacharya

No inherited predisposition to stillbirth that is transmitted from mother to daughter was found in this study.

395 Unexpected term NICU admissions: a marker of obstetrical care quality?



Mark A. Clapp; Kaitlyn E. James; Sara V. Bates; Anjali J. Kaimal

There is wide variation in unexpected term neonatal intensive care unit admission rates among hospitals; however, systematic differences between hospitals do not explain the observed variation.

397 Hyperoxygenation in pregnancy exerts a more profound effect on cardiovascular hemodynamics than is observed in the nonpregnant state



Ann McHugh; Afif El-Khuffash; Neidin Bussmann; Anne Doherty; Orla Franklin; Fionnuala Breathnach

Hyperoxygenation during the third trimester of pregnancy is associated with significant changes in maternal hemodynamics.

ORIGINAL RESEARCH *(continued)***399** Association between gestational age and severe maternal morbidity and mortality of preterm cesarean delivery: a population-based cohort study

Julie Blanc; Noémie Resseguier; François Goffinet; Elsa Lorthé; Gilles Kayem; Pierre Delorme; Christophe Vayssière; Pascal Auquier; Claude D'Ercole

Obstetricians should know about the higher severe maternal morbidity and mortality associated with cesarean delivery before gestational age 26 weeks, integrate it into the decision regarding cesarean delivery, and be prepared to manage these complications.

IMAGES IN GYNECOLOGY

401 Persistence of elevated betaHCG after uterine curettage: unexpected diagnosis for a young woman

Agnese Palmeri; Gloria D'Alessandro; Sergio Costantini

An accurate transvaginal ultrasound image during the first trimester of pregnancy is important to recognize ectopic pregnancies, to minimize the diagnosis delay, and to allow optimal management.

403 Vestibular papillomatosis: a normal variation commonly misdiagnosed as genital condylomata

Razmi T. Muhammed; T. P. Afra; Dipankar De

A woman in her 30s was referred to the authors' venereal disease clinic with a diagnosis of genital condylomata.

RESEARCH LETTERS

404 A stepwise approach for the management of short cervix: time to evolve beyond progesterone treatment in the presence of progressive cervical shortening

George Daskalakis; Dimitrios Loutradis; Aris Antsaklis; Vasilios Pergialiotis

405 Delivery type, opioid prescribing, and the risk of persistent opioid use after delivery

Sarah S. Osmundson; Andrew D. Wiese; Jea Young Min; Robert E. Hawley; Stephen W. Patrick; Marie R. Griffin; Carlos G. Grijalva

LETTERS TO THE EDITORS

408 The dangers of parental consent start before obstetric care

Anuja Singh

408 Are early screening biomarkers for endometrial cancer needed to reduce health disparities?

Marina R. S. Walther-Antonio; Andrea Mariani

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Kemi M. Doll; Barbara A. Goff; Scott D. Ramsey

410 Screening tools for obstructive sleep apnea in extremely obese women during pregnancy

Tiago Aguiar; Nuno Montenegro; Tiago Ferraz

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Jennifer E. Dominguez; Mary Cooter; Ashraf S. Habib

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SOCIETY FOR MATERNAL-FETAL MEDICINE

B2 SMFM Consult Series #47: Sepsis during pregnancy and the puerperium



Society for Maternal-Fetal Medicine (SMFM); Lauren A. Plante; Luis D. Pacheco; Judette M. Louis

The purpose of this guideline is to summarize what is known about sepsis and to provide guidance for the management of sepsis in pregnancy and the postpartum period.

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