Giants in Obstetrics and Gynecology Series: a profile of Linda C. Giudice, MD, PhD, MSc

Roberto Romero

Expert Reviews

New developments in fetal and neonatal alloimmune thrombocytopenia

James B. Bussel; Emilie L. Vander Haar; Richard L. Berkowitz

This is an expert review of new developments in fetal and neonatal alloimmune thrombocytopenia, including updates in screening, prophylaxis, and treatment.

Systematic Reviews

Cephalad-caudad versus transverse blunt expansion of the low transverse hysterotomy during cesarean delivery decreases maternal morbidity: a meta-analysis

Vasilios Pergialiotis; Dimitra Mitsopoulou; Eirini Biliou; Ioannis Bellos; Vasilios Karagiannis; Angeliki Papapanagiotou; Alexandros Rodolakis; George Daskalakis

Cephalad-caudad blunt expansion of the uterine incision might help reduce unintended incision extension and uterine vessel injuries.

Clinical Opinion

Bridging the postpartum gap: best practices for training of obstetrical patient navigators

Lynn M. Yee; Brittney Williams; Hannah M. Green; Viridiana Carmona-Barrera; Laura Diaz; Ka’Derricka Davis; Michelle A. Korniarcik; Joe Feinglass; Chloe A. Zera; William A. Grobman

We have described core principles and training practices to equip postpartum patient navigators with the skill set to guide patients through the postpartum period.

(continued)
Effect of sacrospinous hysteropexy with graft vs vaginal hysterectomy with uterosacral ligament suspension on treatment failure in women with uterovaginal prolapse: 5-year results of a randomized clinical trial

Charles W. Nager; Anthony G. Visco; Holly E. Richter; Charles R. Rardin; Yuko Komesu; Heidi S. Harvie; Halina M. Zyczynski; Marie Fidela R. Paraiso; Donna Mazloomdoost; Amaanti Sridhar; Sonia Thomas; On behalf of the National Institute of Child Health and Human Development Pelvic Floor Disorders Network

For women with uterovaginal prolapse, a sacrospinous hysteropexy with graft is superior to a vaginal hysterectomy with uterosacral ligament suspension through 5 years.

Clinical pregnancy rates and experience with in vitro fertilization after uterus transplantation: Dallas Uterus Transplant Study

J. Michael Putman; Lilly Zhang; Anthony R. Gregg; Giuliano Testa; Liza Johannesson

Women with absolute uterine-factor infertility who have surgically successful uterus transplantation and in vitro fertilization have high clinical pregnancy rates.

Intrauterine device use, sexually transmitted infections, and fertility: a prospective cohort study

Jeffrey F. Peipert; Qiuhong Zhao; Courtney A. Schreiber; Stephanie Teal; David K. Turok; Melissa Natavio; Sabrina Cordon; Joanne Daggy

We found no association between intrauterine device use and time to conception; however, past Mycoplasma genitalium infection was associated with a longer time to conception.

Association between postmenopausal vulvovaginal discomfort, vaginal microbiota, and mucosal inflammation

Caroline M. Mitchell; Nanxun Ma; Alissa J. Mitchell; Michael C. Wu; D. J. Valint; Sean Proll; Susan D. Reed; Katherine A. Guthrie; Andrea Z. Lacroix; Joseph C. Larson; Robert Pepin; Daniel Raftery; David N. Fredricks; Sujatha Srinivasan

The vaginal microbiome, vaginal cytokines, and vaginal fluid metabolites were not different between postmenopausal women with large improvements in bothersome symptoms and those with no response to treatment for bothersome symptoms.

EVO100 prevents chlamydia and gonorrhea in women at high risk of infection

B. Todd Chappell; Leandro A. Mena; Basem Maximos; Scott Mollan; Kelly Culwell; Brandon Howard

EVO100, a novel antimicrobial pH-modulating vaginal gel, significantly reduced rates of chlamydia and gonorrhea infection in women at high risk of infection.
ORIGINAL RESEARCH (continued)

164 Urinary incontinence, body mass index, and physical activity in young women
Tayla J. Lamerton; Gregore I. Mielke; Wendy J. Brown
Rates of urinary incontinence have increased in line with increasing levels of excess weight and obesity in young adult women.

166 Prevalence and trends in urinary incontinence among women in the United States, 2005–2018
Mohammad Abufaraj; Tianlin Xu; Chao Cao; Abdelmuez Siyam; Ula Isleem; Abdulla Massad; Francesco Soria; Shahrokh F. Shariat; Siobhan Sutcliffe; Lin Yang
The prevalence of stress urinary incontinence remained stable from 2005 to 2018, whereas urgency and mixed urinary incontinence significantly increased in women aged 60 years and older.

169 Recommended standardized anatomic terminology of the posterior female pelvis and vulva based on a structured medical literature review
Audra Jolyn Hill; Sunil Balgobin; Kavita Mishra; Peter C. Jeppson; Thomas Wheeler II; Donna Mazlloodooost; Mallika Anand; Cara Ninivaggio; Jennifer Hamner; Katarzyna Bochenska; Safiuddin T. Mama; Ethan M. Balk; Marlene M. Corton; John Delaney; On behalf of the Society of Gynecologic Surgeons Pelvic Anatomy Group
This study reviewed published literature related to the standardized anatomic terminology of the posterior female pelvic anatomy and vulva.

OBSTETRICS

171 Intrapartum sonographic assessment of the fetal head flexion in protracted active phase of labor and association with labor outcome: a multicenter, prospective study
Andrea Dall’Asta; Giuseppe Rizzo; Bianca Masturzo; Elvira Di Pasquo; Giovanni Battista Luca Schera; Giovanni Morganelli; Ruben Ramirez Zegarra; Pavjola Maquina; Ilenia Mappa; Giulia Parrinelle; Rossella Attinni; Enrica Roletti; Guido Menato; Tiziana Frusca; Tullio Ghi
The sonographic indicators of deflexed fetal head are associated with labor dystocia leading to cesarean delivery in women with protracted active phase of labor.

173 Predicting obstetrical anal sphincter injuries in patients who undergo vaginal birth after cesarean delivery
Douglas Luchristt; Oluwateniola Brown; Mahati Pidaparti; Kimberly Kenton; Christina Lewicky-Gaupp; Emily S. Miller
We have provided a validated predictive model to risk stratify women undergoing vaginal birth after cesarean delivery.

175 The modified radical peripartum cesarean hysterectomy (Soleymani-Alazzam-Collins technique): a systematic, safe procedure for the management of severe placenta accreta spectrum
Hooman Soleymani majd; Sally L. Collins; Susan Addley; Esme Weeks; Sujay Chakravarti; Sunil Halder; Móiad Alazzam
Modified radical peripartum cesarean hysterectomy (Soleymani-Alazzam-Collins technique) is a safe procedure for managing severe placenta accreta spectrum.

(continued on page 9A)
177 Unfolding the pathophysiology of congenital thrombotic thrombocytopenic purpura in pregnancy: lessons from a cluster of familial cases

Shayna Miodownik; Oleg Pikovsky; Offer Erez; Yarden Kezerle; Oleg Lavon; Anat Rabinovich

A novel variant of the ADAMTS13 gene identified in our cohort may have a specific functional impact on the placenta.

179 Utility of follow-up cervical length screening in low-risk women with a cervical length of 26 to 29 mm

Rupsa C. Boelig; Varsha Kripalu; Sarah L. Chen; Yuri Cruz; Amanda Roman; Vincenzo Berghella

Approximately 15% of low-risk women with singleton pregnancies with a midtrimester cervical length of 26 to 29 mm will experience cervical shortening of ≤25 mm before 24 weeks' gestation.

181 Cervical length distribution and other sonographic ancillary findings of singleton nulliparous patients at midgestation

Maged M. Costantine; Lynda Ugwu; William A. Grobman; Brian M. Mercer; Alan T. N. Tita; Dwight J. Rouse; Yoram Sorokin; Ronald J. Wapner; Sean C. Blackwell; Jorge E. Tolosa; John M. Thorp; Steve N. Caritis; On behalf of the Eunice Kennedy Shriver National Institute of Child Health and Human Development Maternal-Fetal Medicine Units Network

We describe the distribution of cervical lengths and rates of funneling and debris in nulliparous women in the United States per gestational age, race, and ethnicity.


Peter T. Merkt; Michael R. Kramer; David A. Goodman; Mary D. Brantley; Chloe M. Barrera; Lindsay Eckhaus; Emily E. Petersen

The pregnancy-related mortality ratio rose with increasing rurality, and disparities existed in urban-rural categories, including by age group and by race and ethnicity.

185 Cerebral perfusion pressure and autoregulation in eclampsia—a case control study

Lina Bergman; Catherine Cluver; Niclas Carlberg; Michael Belfort; Mary C. Tolcher; Ronney B. Panerai; Teelkien van Veen

Dynamic cerebral autoregulation was less effective and cerebral perfusion pressure increased in pregnant women with eclampsia compared with those with preeclampsia and those with normal blood pressure.

187 Patterns of discordant growth and adverse neonatal outcomes in twins

Liran Hiersch; Jon Barrett; Amir Aviram; Elad Mei-Dan; Eugene W. Yoon; Arthur Zaltz; John Kingdom; Nir Melamed

Four distinct discordance growth patterns among twins were identified that demonstrated a dose-response relationship with adverse outcomes.
Diagnostic quality of 3Tesla postmortem magnetic resonance imaging in fetuses with and without congenital heart disease
Barbara Ulm; Gregor O. Dovjak; Anke Scharrer; Dana A. Muin; Daniel Zimpfer; Daniela Prayer; Michael Weber; Vanessa Berger-Kulemann
3Tesla postmortem magnetic resonance imaging is highly accurate for the examination of the normal and abnormal fetal heart compared with conventional autopsy.

Images in Gynecology

Uterine rupture and shock: an unusual presentation of gestational trophoblastic neoplasm
Ferjaoui Mohamed Aymen; Khedhri Slim; Neji Khaled
Gestational trophoblastic neoplasm can be complicated with uterine rupture.

Research Letters

Cord blood antibodies following maternal coronavirus disease 2019 vaccination during pregnancy
Leena B. Mithal; Sebastian Otero; Elisheva D. Shanes; Jeffery A. Goldstein; Emily S. Miller

Decrease in Florida’s pregnancy-related mortality from 2009 to 2018: reducing the Black-White disparity
Dikea Roussos-Ross; Washington Hill; Leticia Hernandez; Angela Thompson; Isaac Delke; William M. Sappenfield

Serial surveillance for SARS-CoV-2 in hospitalized antepartum women
Noelia M. Zork; Amrita Markan; Jean-Ju Sheen; Janice Aubey; Lisa Saiman; Dena Goffman

Neonatal intensive care unit admission is associated with lower breastfeeding in late preterm infants
Sunitha C. Suresh; Annie Dude

The use of a validated obstetrical risk score for maternal morbidity to predict postpartum hemorrhage for women in labor
Mark A. Clapp; Kaitlyn E. James; Thomas H. McCoy Jr; Roy H. Perlis; Anjali J. Kaimal

The effect of maternal body mass index on fetal ultrasound image quality
Mohammad Yaqub; Brenda Kelly; J. Alison Noble; Aris T. Papageorghiou

Current practices in gestational diabetes mellitus diagnosis and management in the United States: survey of maternal-fetal medicine specialists
Caroline Davitt; Kathryn E. Flynn; Rachel K. Harrison; Amy Pan; Anna Palatnik
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