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Gestational surrogacy: medical, psychosocial, and legal considerations
S. C. Klock and S. R. Lindheim
Chicago, Illinois; Dayton, Ohio; and Shanghai, People’s Republic of China
An overview of the medical, psychological, legal, and international perspectives of gestational surrogacy is presented.

Selecting the optimal gestational carrier: medical, reproductive, and ethical considerations
H. H. Kim
Chicago, Illinois
This review covers recommendations from clinical guidelines regarding gestational surrogacy, along with updates from current literature to provide guidance for selecting a gestational carrier based on medical, reproductive, and ethical considerations.

Psychological assessment of gestational carrier candidates: current approaches, challenges, and future considerations
M. P. Riddle
University Park, Pennsylvania
Emerging research suggests that using a multimethod approach in the psychological assessment of gestational carriers may yield a more comprehensive psychological profile of candidates. This could allow mental health professionals to determine psychological appropriateness with more confidence.

Postdelivery adjustment of gestational carriers, intended parents, and their children
V. Jadva
Cambridge, United Kingdom
A focus on the psychological adjustment of the surrogate, the parents, and the child highlights gaps in our current understanding and points to future directions for research.

Legal principles and essential surrogacy cases every practitioner should know
S. L. Crockin, M. A. Edmonds, and A. Altman
Washington, DC; and Cambridge, Massachusetts
Gestational surrogacy challenges constitutional, contract, family, negligence, and malpractice law. This article explores legislative and judicial efforts to protect participants, address professionals’ duties of care, and create legally secure families.

Legal and ethical issues in cross-border gestational surrogacy
N. Igareda González
Bellaterra, Barcelona, Spain
International surrogacy entails ethical and legal issues. Various legal provisions are in place when parents return home with children conceived through international surrogacy. Whereas the interest of the child always prevails, there is a need for an international legal framework.
INKLINGS

COVID-19: lessons from the Italian reproductive medical experience
A. La Marca, C. Niederberger, A. Pellicer, and S. M. Nelson
Modena and Rome, Italy; Chicago, Illinois; and Glasgow, Bristol, Oxford, United Kingdom

Progesterone is a physiological trigger of ovulatory gonadotropins
D. Dozortsev, A. Pellicer, and M. P. Diamond
Houston, Texas; Rome, Italy; Valencia, Spain; and Augusta, Georgia

REFLECTIONS

Paternal health and perinatal morbidity: increasing evidence for the influence of paternity on fertility outcomes
J. A. Halpern and R. E. Brannigan
Chicago, Illinois

Human papilloma virus: to what degree does this sexually transmitted infection affect male fertility?
J. R. Kohn, A. T. Gabrielson, and T. P. Kohn
Baltimore, Maryland

Microribonucleic acids in sperm and spent culture media: a new direction in predictive diagnostics or another disappointment?
J. Franasiak
Basking Ridge, New Jersey; and Philadelphia, Pennsylvania

How important is it to know about endometriosis during pregnancy?
E. Zupi, G. Centini, and L. Lazzeri
Siena, Italy

Investigating the impact of fertility treatment on child health: the struggle is real!
E. H. Yeung and S. Robinson
Bethesda, Maryland

Unraveling the “double whammy” dilemma: do concomitant tubal infertility and previous ectopic pregnancy shrink the possibility of live birth?
S. G. Vitale, G. Riemma, and A. Cianci
Catania and Naples, Italy

Shifting from weight loss to well-being
C. E. Boots and A. Swanson
Chicago, Illinois

Choose your partners for the next dance: implied PGRMC1 roles in membrane trafficking and mitochondrial modulation
M. A. Cahill
Wagga Wagga, New South Wales, and Canberra, Australian Capital Territory, Australia

Bone marrow in the pathophysiology of endometriosis
H. S. Taylor
New Haven, Connecticut

Human female meiosis checkpoints: how much DNA damage is allowed?
E. Fragouli and N. Garrido
Oxford, United Kingdom; and Valencia, Spain

FERTILITY AND STERILITY: 50 YEARS AGO TODAY

The chicken or the egg: parallel interests
O. Carpinello and A. DeCherney
Bethesda, Maryland

ORIGINAL ARTICLES

ANDROLOGY

Association of preconception paternal health on perinatal outcomes: analysis of U.S. claims data
A. M. Kasman, C. A. Zhang, S. Li, D. K. Stevenson, G. M. Shaw, and M. L. Eisenberg
Stanford, California

Poor paternal health has a negative impact on peripartum and neonatal outcomes and therefore could be optimized before pregnancy.
Evaluation of human papilloma virus in semen as a risk factor for low sperm quality and poor in vitro fertilization outcomes: a systematic review and meta-analysis

M. Weinberg, C. Sar-Shalom Nahshon, I. Feferkorn, and J. Bornstein
Nahariya and Haifa, Israel

The presence of human papilloma virus DNA in semen was found to be associated with reduced sperm parameters and increased miscarriage rates and should be further studied to evaluate the clinical significance.

MicroRNAs in combined spent culture media and sperm are associated with embryo quality and pregnancy outcome

M. Abu-Halima, Z. A. Khaizaran, B. M. Ayesh, U. Fischer, S. A. Khaizaran, F. Al-Battah, M. Hammadeh, A. Keller, and E. Meese
Homburg/Saar and Saarbruecken, Germany; and Bethlehem, Gaza, and Jenin, Palestine

Analysis reveals abundant levels of miRNAs in combined spent culture media of embryos of different quality grades and that sperm and spent culture media–derived miRNAs can potentially be used as biomarkers to predict pregnancy outcome.

Trophectoderm biopsy protocols can affect clinical outcomes: time to focus on the blastocyst biopsy technique

P. Rubino, L. Tapia, R. Ruiz de Assin Alonso, K. Mazmanian, L. Guan, L. Dearden, A. Thiel, C. Moon, B. Kolb, J. M. Norian, J. Nelson, J. Wilcox, and T. Tan
Pasadena, California

We reported higher clinical outcomes after a blastocyst biopsy protocol that bypasses hatching on day 3 versus the protocol based on day 3 prehatching.

Endometrial compaction before frozen euploid embryo transfer improves ongoing pregnancy rates

E. Zilberberg, R. Smith, D. Nayot, J. Haas, J. Meriano, E. Barzilay, and R. F. Casper
Toronto, Ontario, Canada; and Tel-Hashomer, Tel Aviv, Assuta Ashdod, and Beer-Sheva, Israel

Significantly higher ongoing pregnancy rates are achieved in frozen embryo transfer cycles of euploid embryos when compaction of the endometrial thickness occurred after administration of progesterone.

Pregnancy outcomes in women with history of surgery for endometriosis

M. Farella, I. Chanavaz-Lacheray, E. Verspick, B. Merlot, C. Klapczynski, C. Hennetier, J.-J. Tuech, and H. Roman
Milan, Italy; Bordeaux and Rouen, France; and Aarhus, Denmark

The risk of small for gestational age babies and preterm delivery is increased in women with a history of surgery for endometriosis, although conception with the use of ART may affect outcomes.

Pregnancy registry: three-year follow-up of children conceived from letrozole, clomiphene, or gonadotropins

R. S. Legro, M. P. Diamond, C. Coutifaris, W. D. Schlaff, R. Alvero, P. Casson, G. M. Christman, R. M. Rosen, M. I. Cedars, K. R. Hansen, R. Robinson, V. Baker, R. Usadi, W. C. Dodson, S. J. Estes, A. Kunselman, C. Stetter, K. T. Barnhart, R. M. Coward, J. C. Trussell, S. A. Krawetz, N. Santoro, H. Huang, H. Zhang, and E. Eisenberg, for the Reproductive Medicine Network
Hershey and Philadelphia, Pennsylvania; Augusta, Georgia; Denver, Colorado; Burlington, Vermont; Ann Arbor and Detroit, Michigan; San Francisco and Palo Alto, California; Oklahoma City, Oklahoma; San Antonio, Texas; Charlotte and Raleigh, North Carolina; Syracuse, New York; New Haven, Connecticut; and Rockville, Maryland

We report the 3-year developmental and neurodevelopmental data, growth, and medical history data from a group of children conceived in two large infertility trials (PPCOS II and AMIGOS) with gonadotropin, clomiphene, or letrozole.

Ninth-grade school achievement in Danish children conceived following fertility treatment: a population-based cohort study

L. S. Wienecke, S. K. Kjær, K. Frederiksen, M. Hargreave, S. O. Dalton, and A. Jensen
Copenhagen and Næstved, Denmark

Fertility treatment per se is likely not associated with lower school marks. Instead, factors related to both infertility and cognitive development may explain the slightly lower academic performance among children conceived after fertility treatment.
GYNECOLOGY

1024  Sexual function and quality of life after the creation of a neovagina in women with Mayer-Rokitansky-Küster-Hauser syndrome: comparison of vaginal dilation and surgical procedures
J. Kang, N. Chen, S. Song, Y. Zhang, C. Ma, Y. Ma, and L. Zhu
Beijing, People’s Republic of China
Although the vaginal length was shorter in the dilation therapy group than in the surgical therapy group, sexual function and quality of life, were comparable between these two groups of patients with Mayer-Rokitansky-Küster-Hauser syndrome.

INFERTILITY

1032  Tubal factor infertility with prior ectopic pregnancy: a double whammy? A retrospective cohort study of 2,892 women
H. Cai, B. W. Mol, P. Li, X. Liu, A. Watrelot, and J. Shi
Xi’an, People’s Republic of China; Melbourne, Victoria, Australia; and Lyon, France
Prior tubal ectopic pregnancy does not increase the probability of adverse fertility outcomes in in vitro fertilization treatment, which will help clinicians to counsel infertile women with an ectopic first pregnancy.

MENTAL HEALTH

1039  Obesity and depression are risk factors for future eating disorder-related attitudes and behaviors in women with polycystic ovary syndrome
E. A. Greenwood, L. A. Pasch, M. I. Cedars, and H. G. Huddleston
San Francisco, California
Obesity and depression are risk factors for future eating disorder symptoms in polycystic ovary syndrome.

REPRODUCTIVE SCIENCE

1050  Novel nonclassic progesterone receptor PGRMC1 pulldown-precipitated proteins reveal a key role during human decidualization
S. Salsano, R. González-Martín, A. Quínonero, S. López-Martín, A. P. Gómez-Escribano, S. Pérez-Debén, M. Yañez-Mo, and F. Domínguez
Valencia and Madrid, Spain
In nondecidualized and decidualized endometrial stromal cells, GST-PGRMC1 precipitates multiple proteins mainly implicated in adenosine triphosphate generation/transport activity, protein biosynthesis/posttranslational processing, and protection against oxidative stress.

1067  Protein kinase CK2 participates in estrogen-mediated endothelial progenitor cell homing to endometriotic lesions through stromal cells in a stromal cell–derived factor-1–CXCR4-dependent manner
R. Zhao, D. Feng, G. Zhuang, Y. Liu, S. Chi, J. Zhang, X. Zhou, W. Zhang, and H. Wang
Wuhan and Jinan, People’s Republic of China
Protein kinase CK2 activates stromal cell–derived factor-1–CXCR4 to participate in estrogen-mediated endothelial progenitor cell homing to endometriosis.

1080  Human oocytes harboring damaged DNA can complete meiosis I
G. Rémillard-Labrosse, N. L. Dean, A. Allais, A. I. Mihajlović, S. G. Jin, W.-Y. Son, J.-T. Chung, M. Pansera, S. Henderson, A. Mahfoudh, N. Steiner, K. Agapitou, P. Marangos, W. Buckett, J. Ligeti-Ruiter, and G. FitzHarris
Montreal, Quebec, Canada; and Ioannina and Athens, Greece
Mouse oocytes with damaged DNA arrest in meiosis I. Strikingly, DNA damage in human oocytes does not prevent progression to metaphase II and therefore persists in morphologically normal human eggs.

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