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FROM THE EDITORS

VIEWS AND REVIEWS

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REFLECTIONS

FERTILITY AND STERILITY: 50 YEARS AGO TODAY

ORIGINAL ARTICLES

ANDROLOGY

ASSISTED REPRODUCTION

86 **Autologous mitochondrial transfer as a complementary technique to intracytoplasmic sperm injection to improve embryo quality in patients undergoing in vitro fertilization—a randomized pilot study**

E. Labarta, M. J. de los Santos, S. Herraiz, M. J. Escribá, A. Marzal, A. Buigues, and A. Pellicer
Valencia, Spain; and Rome, Italy

In patients with a background of low embryo quality, autologous mitochondrial transfer did not improve the pregnancy outcome or the blastocyst formation or euploid embryo rate compared with conventional ICSI.

97 **Effect of in vitro culture period on birth weight after vitrified-warmed transfer cycles: analysis of 4,201 singleton newborns**

J. Zhang, Y. Wang, H. Liu, X. Mao, Q. Chen, Y. Fan, Y. Xiao, and Y. Kuang
Shanghai, People's Republic of China

Birth weights of singletons following blastocyst transfer were higher than those after cleavage-stage embryo transfer in vitrified-warmed cycles.

105 **Developmental potential of slow-developing embryos: day-5 morulae compared with day-5 cavitating morulae**

J. Haas, J. Meriano, R. Bassil, E. Barzilay, E. Zilberberg, and R. F. Casper
Toronto, Ontario, Canada; and Tel Aviv, Israel

Transfer of fresh slow-developing embryos seems to improve the cycle outcomes compared with culturing for another day and then vitrifying and thawing later.

ENVIRONMENT

112 **Phthalates exposure and uterine fibroid burden among women undergoing surgical treatment for fibroids: a preliminary study**

A. R. Zota, R. J. Geller, A. M. Calafat, C. Q. Marfori, A. A. Baccarelli, and G. N. Moawad
Washington, DC; Atlanta, Georgia; and New York, New York

Some phthalate biomarkers, including di(2-ethylhexyl) phthalate metabolites, are positively associated with uterine volume among women undergoing surgery for fibroids. Results support the hypothesis that phthalate exposures are associated with fibroid outcomes.

EPIDEMIOLOGY

122 **Links between age at menarche, antral follicle count, and body mass index in African American and European American women**

S. M. Schuh, J. Kadie, M. P. Rosen, B. Sternfeld, R. A. Reijo Pera, and M. I. Cedars
Moraga, San Francisco, and Oakland, California; and Bozeman, Montana

Earlier age of menarche is associated with both higher BMI and higher antral follicle counts in adulthood in both African American and European American women.

GENETICS

132 **What are patients doing with their mosaic embryos? Decision making after genetic counseling**

A. G. Besser, D. H. McCulloh, and J. A. Grifo
New York, New York

Patient decisions regarding mosaic-embryo transfer were assessed. More than one-fourth of patients without euploid embryos pursued transfer; those who pursued additional treatment had a greater chance of ongoing pregnancy.

INFERTILITY

138 **Self-reported infertility, metabolic dysfunction, and cardiovascular events: a cross-sectional analysis among U.S. women**

J. L. Gleason, E. D. Shenassa, and M. E. Thoma
College Park and Baltimore, Maryland; and Providence, Rhode Island

After adjusting for demographic, lifestyle, and behavioral factors, women who reported ever experiencing infertility had higher odds of reporting symptoms consistent with metabolic syndrome and cardiovascular events.

MENTAL HEALTH

147 **Clinical course of depression symptoms and predictors of enduring depression risk in women with polycystic ovary syndrome: Results of a longitudinal study**

E. A. Greenwood, L. A. Pasch, K. Shinkai, M. I. Cedars, and H. G. Huddleston
San Francisco, California

Obesity is a predictor of enduring depression in polycystic ovarian syndrome.

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Cover image provided by Marta Shahbazi, laboratory of Magdalena Zernicka-Goetz. A human embryo cultured in the laboratory until embryonic day 10 in the absence of maternal tissues. At this stage the embryonic epiblast cells have initiated the formation of the amniotic cavity. These cells are surrounded by the developing extra-embryonic tissues (hypoblast and trophoblast). To view a color version of the image please visit: https://www.fertstert.org/cover_v111. © **2018 Marta Shahbazi**