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SOME HIGHLIGHTS OF THE 27TH ANNUAL MEETING OF THE EUROPEAN SOCIETY OF HUMAN REPRODUCTION & EMBRYOLOGY (ESHRE)



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1/ Embryo culture represents one of the most important ous breakdown of standard glutamine during culture and determinants of success in In- vitro Fertilization(IVF). Alstorage produces ammonium, affecting both shelf-life and though **OXYGEN** is necessary for aerobic metabolism. performance of the medium. EMBRYOASSIST contains Currently embryo culture systems utilize O2 concentraa stable Glutamine source which does not produce amtions higher than those in vivo. The need to mimic the monium. EMBRYOASSIST allows easier selection of top physiological environment of the oviduct has led to the quality embryos for single embryo transfer and for cryodevelopment of low O2 embryo culture systems (5% O2), preservation (while comparing EMBRYOASSIST and the effectiveness of which has not yet been adequately BLASTASSIST System Medium) evaluated. Mitsoli et al (Thessaloniki, Greece) underwent a prospective randomized controlled study on 463 oocytes 4/ Hammoud et al (Salt Lake City Utah, USA) presented from 56 patients to examine if embryo quality score (ema study on 170 men showing that men with VITAMIN D bryo grade score multiplied by the number of blastomeres) levels < 20 ng/ml or > 50 ng/ml exhibited abnormal semen after IVF/ICSI is associated with O2 concentration durparameters. Vitamin D levels were not correlated to reproing embryo culture . They found that low-oxygen culture ductive hormone values indicating that the deleterious efconditions are associated with improved embryo quality fect on sperm parameters is not hormonally mediated. on day 3 of embryo culture when compared with high O2 culture conditions (p=0.02)

5/ Scientific evidence suggests that environmental endocrine-disrupting chemicals adversely affect reproductive 2/ EMBRYOGEN is a new medium with Granulocyte function. **BISPHENOL A** (BPA) is a synthetic chemical Macrophage-Colony Stimulation Factor (GM-CSF), inwith endocrine disrupting properties, widely used in lintroduced by ORIGIO company as the world's 1st natural ing of food cans and in the manufacture of polycarbongrowth factor medium with proven effect as a new solution ate plastics. Chronic low-level exposure to BPA is very for women who have suffered miscarriage. More than 20% prevalent and poses a potential risk to public. In experiof all pregnancies end in miscarriage, often due to Growth mental animals, there is accumulating evidence that BPA factor deficiency, impaired natural cell signaling, subopadversely affects the reproductive system by alteration of

timal embryo development and poor uterus-embryo compatibility. A large 14 centers study enrolling 1,332 patients showed a 44% ongoing implantation increase at week 7 in women with previous miscarriage who used EMBRYO-GEN (p=0.0001)

3/ EMBRYOASSIST (ORIGIO Company) is a sophisticated medium for cleavage (D2/D3) culture containing nutrients, antioxidants, vitamins and amino acids. Glutamine is a crucial component of IVF media. However, spontane-



ovarian steroidogenesis, meiotic spindle formation, and early oogenesis. Souter et al (Harvard, USA) found that tients can be considered as "poor responders". BPA was detected in over 80% of 202 women undergoing fertility treatment. They found that there was a suggestive, 11/ ELONVA (Corifollitropin alpha) was introduced by non-significant trend towards lower antral follicle counts MSD pharmaceutical company as the Leaping forward and a smaller ovarian volume with higher levels of BPA. of the IVF therapy. One injection replaces 7 daily injec-Based on data on experimental animals that BPA may alter steroid signaling, there is the potential concern in humans of an accelerated follicle loss and reproductive aging.

6/ Filipini et al (Lugano/Switzerland) performed a study on 816 semen samples in men undergoing ICSI and found a higher incidence of miscarriages in couples with HIGH-ER DNA FRAGMENTATION without reaching statistical significance. These results also show that the Pregnancy Rate is independent from DNA fragmentation index.

7/ Munoz et al (Valencia, Spain) showed on 15 patients with RECURRENT PREGNANCY LOSS and homozygocity of MTHFR that lowering of **HOMOCYSTEINE** with Folic acid (5-MTHF) resulted in substantial reduction Technologies.

of endometrial levels of Vascular endothelial Growth Factor (VEGF) both at mRNA and protein level. This suggests that hyperhomocystinemia-induced endothelial dysfunction could promote the development of infertility and recurrent pregnancy loss through VGEF induction of the maternal endometrium, causing a chronic vascular damage.

8/ Leonardi et al (Milano, Italy) showed that **OVARIAN HYPERSTIMULATION** during IVF does not modify the dimension of subserosal and intramural leiomyomas.

9/ Jo Varghese (Stockholm, Sweden) found leiomyomas regression upon MIFEPRIS-TONE treatment by down regulation of proliferation rather than induction of apoptosis. Alterations in gene expression are due to its anti-progestin nature rather than its anti-glucocorticoid action.

10/ Verstraeten (Ghent, Belgium) showed on 1,654 cycles that there is no clear correlation between high serum ANTI-MUL-LERIAN HORMONE (AMH) and the risk of ovarian hyperstimulation syndrome,

although it is a meaningful marker in estimating which pa-

tions of conventional Gonadotropin. The Engage trial is a double blind, randomized, multicenter trial comparing ongoing pregnancy rates and retrieved oocytes of ELONVA versus r-FSH. 1,506 patients were treated by ELONVA and 750 received r-FSH. The study showed 38.9% ongoing pregnancy rate per started cycle versus 38.1% with daily r-FSH with no statistical significance (p=0.71).

12/ MENOPUR 600 IU (menotropin/ Ferring) is a highly purified menotropin containing 600 IU FSH + 600 IU LH while MENOPUR 1,200 IU (menotropin) is a highly purified menotropin containing 1,200 IU FSH + 1,200 IU LH.MENOPUR therapy should start within the initial 7 days of the menstrual cycle in Assisted Reproductive

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