65th Annual Meeting of the ASRM

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Abstract Category: 27. Reproductive Biology: Human Studies (RBPG)
Abstract Topic: 42. Sperm Biology
Poster presentation only? No
Are you a fellow in training in an American Board of Obstetrics and Gynecology approved program leading to certification in Reproductive Endocrinology and Infertility? No
Data are submitted for a separate scientific abstract and video presentation: No

Awards:
In-Training Awards for Research
SRS In-Training Award for Research

IRB Approval: The study material in this abstract has been approved by the local Institutional Review Board (IRB) if any human subjects or any human material was utilized.

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Six Author Rule: All authors named in this abstract have agreed to its submission for presentation at the 65th Annual Meeting of the American Society for Reproductive Medicine and are familiar with the 6-author rule.

Accept Complete Responsibility: I accept complete responsibility for the data at the time of submission.

Title: SPERM EQUILIBRATION WITH A NOVEL TRIPLE ACTION CRYOPROTECTANT IMPROVES SPERM KINETICS COMPARED TO TWO COMBINATIONS STANDARD

1Center for Reproductive Medicine, Glickman Urological and Kidney Institute and Ob-Gyn and Women's Health Institute, Cleveland Clinic, Desk A-19.1, 9500 Euclid Avenue, Cleveland, OH, United States, 44195; 2Center of Surgical Innovation, Technology and Education, Cleveland Clinic, 9500 Euclid Avenue, Cleveland, OH, United States, 44195 and 3Department of Obstetrics & Gynecology, Alexandria University, ElShatby, ElGeish St. Alexandria, Alexandria, Egypt, 00000.

Objective: To compare the effect of equilibrating sperm with a new triple cryoprotectant media on the sperm viability, motility and motility parameters.

Design: Prospective study.

Materials and Methods: Donor sperm samples were used. Each sample was equilibrated with either: Media A: Cryosperm (Gly20%, 18% raffinose); Media B: Gly16%/Raffinose 9% in TYB extender and Media C: Gly12% in TYB extender. The equilibrated samples were compared with control (no media) for viability and by motion parameters by CASA. Differences from the baseline were compared between the 3 different media preparation.

Results: Media B resulted in significant improvement in rapid motility and linearity compared to Media A. Media C also resulted in significant improvement in linearity compared to Media A compared to both baseline and comparing differences from baseline.
Conclusions: The new triple combination provides protection at lower concentrations of individual cryoprotectants and results in better pre-freezing sperm quality compared to standard 2 cryoprotectant combination.

Support: None.

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Yes - Neither I nor my spouse/partner have a commercial or financial interest or relationship with manufacturers of pharmaceuticals, laboratory supplies and/or medical devices.

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