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65th Annual Meeting of the ASRM

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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

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

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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.

Parameter	Baseline value	Media A		Media B		Media C	
		Value	Difference from baseline	Value	Difference from baseline	Value	Difference from baseline
Motility (%)	64.7 ± 15.00	67.5 ± 13.01	2.8 ± 19.65	74.4 ± 10.48	9.7 ± 19.30	67.7 ± 12.82	3.0 ± 21.66
Rapid Motility (%)	23.9 ± 8.45	24.9 ± 10.61	1.0 ± 7.87	32.9 ± 8.48	9.0 ± 9.02	28.0 ± 8.07	4.1 ± 8.13
				(P = 0.03) [insert sup] a	(P = 0.05) [insert sup] b		
Linearity	47.2 ± 5.12	48.1 ± 5.59	0.9 ± 4.36	53.9 ± 5.28	6.7 ± 5.38	53.0 ± 6.32	5.8 ± 4.24
			(P = 0.02) [insert sup] c	(P = 0.01) [insert sup] a	(P = 0.02) [insert sup] b	(P = 0.04) [insert sup] a	
Viability (%)	63.6 ± 11.12	53.0 ± 15.64	-10.6 ± 17.48	59.5 ± 14.63	-4.1 ± 12.13	59.8 ± 9.37	-3.8 ± 10.66

A = compared to baseline; b = comparison between media A vs. B; c = comparison between media A vs. C.

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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