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Dana Ley¹, Jeffrey Jones^{2,3}, John Parrish⁴, Sana Salih⁵, Freddy Caldera⁷, Edna Tirado⁶, Benjamin Leader⁶, and Sumona Saha⁷

¹University of Wisconsin School of Medicine and Public Health, ²Department of Obstetrics and Gynecology, University of Wisconsin School of Medicine and Public Health, ³UWHealth Generations Fertility Care, ⁴Department of Animal Sciences, University of Wisconsin-Madison, ⁵Department of Obstetrics and Gynecology, West Virginia University School of Medicine, ⁶Clinical Research Division, ReproSource, Inc., Woburn, MA, ⁷Division of Gastroenterology and Hepatology, Department of Medicine, University of Wisconsin School of Medicine and Public Health

Corresponding Author Contact Information: Sumona Saha
ssaha@medicine.wisc.edu

Conflicts of Interest:

These authors disclose the following:

Dr. Saha is a consultant for UCB Biosciences, Inc.

Drs. Leader and Tirado are employees of ReproSource, Inc.

The remaining authors disclose no conflicts.

Author Contributions to Manuscript:

Ms. Ley contributed to the analysis and interpretation of the data, drafting the manuscript, and statistical analysis. Drs. Jones and Caldera contributed to data acquisition and critical revision of the manuscript for important intellectual content. Drs. Parrish and Salih contributed to study concept and design, the institutional review board, and critical revision of the manuscript. Dr. Tirado contributed to manuscript review, scientific development of assay methodology, and oversight and acquisition of sperm testing data. Dr. Leader contributed to study concept and design, analysis and interpretation of data, and critical revision of the manuscript for important intellectual content. Dr. Saha contributed to study concept and design, acquisition of data, analysis and interpretation of data, drafting of the manuscript, critical revision of the manuscript for important intellectual content, statistical analysis, obtaining funding, and study supervision.

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