

Below is a presentation of current publications relevant to ART procedure outcomes associated with use of ZyMöt devices for sperm sample preparation. These publications are categorized according to the ART procedures outcomes topics shown to facilitate review of the literature by topic.

## Clinical Pregnancy

- 1 UTILIZING SPERMATOZOA WITH THE HIGHEST GENOMIC INTEGRITY ENHANCES ICSI OUTCOME.  
Keating, D., Tavares, D., Rosenwaks, Z., Palermo, G. *Fertility and Sterility* Vol. 116, E67-E68(2021). doi: <https://doi.org/10.1016/j.fertnstert.2021.07.190>
- 2 ICSI OUTCOMES USING SPERMATOZOA WITH OPTIMAL GENOMIC INTEGRITY  
Parrella, Alessandra. ASRM 2020  
<https://www.zymotfertility.com/wp-content/uploads/2021/01/Parrella-et-al-ASRM-2020-abstract-O-69.pdf>
- 3 SUPERIOR SPERM SELECTION? MICROFLUIDIC SPERM SORTING IMPROVES EUPLOID EMBRYO ONGOING PREGNANCY RATE COMPARED TO DENSITY GRADIENT CENTRIFUGATION  
Palmerola, Katherine L. *et al.* ASRM 2020  
<https://www.zymotfertility.com/wp-content/uploads/2021/01/Palmerola-et-al-ASRM-2020-abstract-P45.pdf>
- 4 EUPLOIDY RATES AND PREGNANCY OUTCOMES USING THE ZYMOT DEVICE FOR SPERM PREPARATION  
Anderson, Anthony R. *et al.* ASRM 2020  
<https://www.zymotfertility.com/wp-content/uploads/2021/01/Anderson-et-al-ASRM-2020-abstract-O-104.pdf>
- 5 COMPARISON OF MICROFLUID SPERM SORTING CHIP AND DENSITY GRADIENT METHODS FOR USE IN INTRAUTERINE INSEMINATION CYCLES  
Gode, F., Bodur T., Güntürkün F., *et al.* *Fertility and Sterility*. Volume 112, Issue 5, November 2019, Pages 842-848.e1. <https://doi.org/10.1016/j.fertnstert.2019.06.037>
- 6 MICROFLUIDIC SELECTION OF SPERMATOZOA RETAINS CHROMATIN INTEGRITY AND YIELDS HIGHER PREGNANCY RATES  
Parrella A., Xie P., Keating D., *et al.* ASRM 2018. <https://doi.org/10.1016/j.fertnstert.2018.07.957>
- 7 IMPROVING PREGNANCY RATE IN IVF CYCLES BY PREPARING SPERM VIA MICROFLUIDIC SPERM CHIPS  
Alagöz O., Özkara G., Koçer Yazıcı M. G., *et al.* ESHRE 2017  
<https://www.zymotfertility.com/wp-content/uploads/2020/01/improving-pregnancy-rate-in-ivf-cycles-f%C4%B1%C3%A7%C4%B1c%C4%B1o%C4%9Flu-eshre-2017.pdf>
- 8 MACS Vs MICROFLUIDICS SPERM SORTING FOR RAISED SPERM DFI - A RCT  
Durga Rao, Krishna Chaitanya M., Oasis Fertility – Hyderabad, India  
[https://academic.oup.com/humrep/article/37/Supplement\\_1/deac104.108/6620288](https://academic.oup.com/humrep/article/37/Supplement_1/deac104.108/6620288)
- 9 MICROFLUIDIC SPERM SELECTION DEVICE INCREASES CLINICAL PREGNANCY RATE IN IVF/PGT-A CYCLES  
C.Z. Berton<sup>1</sup>, I. Yoshida<sup>1</sup>, P. Carvalho<sup>1</sup>, R. Souza<sup>1</sup>, L.D.C. Onoda<sup>1</sup>, E.B. Cordts<sup>2</sup>, C.P. Barbosa<sup>2</sup>.  
<sup>1</sup>Instituto Ideia Fértil de Saúde Reprodutiva, Embryology, São Paulo, Brazil, <sup>2</sup>Instituto Ideia Fértil de Saúde Reprodutiva, Gynecology, São Paulo, Brazil.  
[https://academic.oup.com/humrep/article/37/Supplement\\_1/deac107.115/6619906](https://academic.oup.com/humrep/article/37/Supplement_1/deac107.115/6619906)
- 10 MICROFLUIDIC PREPARATION OF SPERMATOZOA FOR ICSI PRODUCES SIMILAR EMBRYO QUALITY TO DENSITY-GRADIENT CENTRIFUGATION: A PRAGMATIC, RANDOMIZED CONTROLLED TRIAL  
Molly M. Quinn<sup>1</sup>, Salustiano Ribeiro<sup>2</sup>, Flor Juarez-Hernandez<sup>2</sup>, Rhodel K. Simbulan<sup>2</sup>, Liza Jalalian<sup>2</sup>, Marcelle I. Cedars<sup>2</sup>, and Mitchell P. Rosen<sup>2</sup>  
<sup>1</sup>Department of Obstetrics and Gynecology, University of Southern California, Los Angeles, CA, <sup>2</sup>Department of Obstetrics, Gynecology and Reproductive Sciences, University of California San Francisco, San Francisco, CA, USA  
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## Embryo Euploidy

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Keating, D., Tavares, D., Rosenwaks, Z., Palermo, G. Fertility and Sterility Vol. 116, P-53(2021). doi:  
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Palmerola, Katherine L. *et al.* ASRM 2020  
<https://www.zymotfertility.com/wp-content/uploads/2021/01/Palmerola-et-al-ASRM-2020-abstract-P45.pdf>
- 5 MICROFLUIDIC SPERM SELECTION IS AN EFFECTIVE METHOD FOR IMPROVING EMBRYO DEVELOPMENTAL COMPETENCE IN IVF WITH OLDER PATIENTS  
Mastunga, Rie *et al.* ASRM 2020  
<https://www.zymotfertility.com/wp-content/uploads/2021/01/Matsunaga-et-al-OCHI-YUME-Clinic-Nagoya-Japan-ASRM-2020-Poster-498.pdf>
- 6 EMBRYOLOGIC OUTCOMES IN INTRACYTOPLASMIC SPERM INJECTION (ICSI) CYCLES UTILIZING SPERM SELECTED VIA A MICROFLUIDICS DEVICE COMPARED TO STANDARD SELECTION  
Godiwala, Prachi *et al.* ASRM 2020  
<https://www.zymotfertility.com/wp-content/uploads/2021/01/Godiwala-et-al-ASRM-abstract-P96.pdf>
- 7 MICROFLUIDIC DEVICE-BASED SEMEN PREPARATION INFLUENCES EUPLOIDY RATES OF HUMAN BLASTOCYSTS.  
Beyhan, Z. *et al.* ASRM 2020  
<https://www.zymotfertility.com/wp-content/uploads/2021/01/Beyhan-P48.pdf>
- 8 EUPLOIDY RATES AND PREGNANCY OUTCOMES USING THE ZYMOT DEVICE FOR SPERM PREPARATION  
Anderson, Anthony R. *et al.* ASRM 2020  
<https://www.zymotfertility.com/wp-content/uploads/2021/01/Anderson-et-al-ASRM-2020-abstract-O-104.pdf>
- 9 A TREATMENT APPROACH FOR COUPLES WITH DISRUPTED SPERM DNA INTEGRITY AND RECURRENT ART FAILURE  
Parrella, A., Keating, D., Cheung, S. *et al.* J Assist Reprod Genet 36, 2057–2066 (2019).  
<https://doi.org/10.1007/s10815-019-01543-5>
- 10 A THERAPEUTIC APPROACH FOR COUPLES WITH COMPROMISED SPERM DNA INTEGRITY AND A HISTORY OF ANEUPLOID EMBRYOS  
Petrini A., Parrella A., Xie P., *et al.* ESHRE 2019  
<https://www.zymotfertility.com/wp-content/uploads/2020/01/ESHRE-2019-Palermo-Sperm-DNA-Integrity-ZyMot-850.pdf>
- 11 EFFECTS OF THE MICROFLUIDIC CHIP TECHNIQUE IN SPERM SELECTION FOR INTRACYTOPLASMIC SPERM INJECTION FOR UNEXPLAINED INFERTILITY: A PROSPECTIVE, RANDOMIZED CONTROLLED TRIAL

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- Yetkinel, S., Kilicdag, E.B., Aytac, P.C. et al. J Assist Reprod Genet 36, 403–409 (2019).  
<https://doi.org/10.1007/s10815-018-1375-2>
- 12 LABORATORY AND CLINICAL OUTCOMES OF SPERMATOZA PREPARED THROUGH A MICROFLUIDIC DEVICE: A PROSPECTIVE PILOT SIBLING OOCYTE STUDY  
Akçay B., Findikli N., Aksoy T., et al. ASRM 2018. <https://doi.org/10.1016/j.fertnstert.2018.07.958>
- 13 A MICROFLUIDIC DEVICE FOR SELECTING THE MOST PROGRESSIVELY MOTILE SPERMATOZOA YIELDS A HIGHER RATE OF EUPLOID EMBRYOS  
Parrella A., Choi D., Keating D., et al. ASRM 2018. <https://doi.org/10.1016/j.fertnstert.2018.07.955>
- 14 IMPACT OF MICROFLUIDIC SPERM SORTING ON EMBRYO QUALITY AND COMPREHENSIVE CHROMOSOME SCREENING OUTCOMES OF COUPLES WITH REPEATED IMPLANTATION FAILURE  
Pabuccu E., Pabuccu R., Sertyel S., et al. ESHRE 2018  
<https://www.zymotfertility.com/wp-content/uploads/2020/01/impact-of-microfluidic-sperm-sorting-sahin-eshre-2018.pdf>
- 15 A PROPOSED METHOD TO MINIMIZE MALE GAMETE CONTRIBUTION TO ANEUPLOIDY IN THE EMBRYO COHORT  
Melnick A., Parrella A., Cheung S., et al. ESHRE 2018  
<https://www.zymotfertility.com/wp-content/uploads/2020/01/proposed-method-to-minimize-palermo-eshre-2018.pdf>
- 16 DOES ZYMOT SPERM SEPARATION IMPROVE EMBRYO DEVELOPMENT OUTCOMES WHEN APPLIED TO ALL INFERTILITY PATIENTS COMPARED TO DENSITY GRADIENT WASHING OR SURGICALLY ATTAINED SPERM? Mitchel C. Schiewe, MS, PhD, Ahmad Morsi Abu Maizar, M.Sc, Melanie Nordbak, BS, Michelle Alcoer, BS, Andrew W. Dinsmore, BS, Claudia De Romana, BS, Pedro J. Toledo, BS, Kelly Baek, MD, Guy E. Ringler, MD, Korine Chung, MD, Richard Marrs, MD California Fertility Partners, Los Angeles, CA.  
<https://pesquisa.bvsalud.org/global-literature-on-novel-coronavirus-2019-ncov/resource/pt/covidwho-1446634>
- 17 DOES MICROFLUIDIC SPERM SORTING IMPROVE EMBRYO DEVELOPMENT AND EUPLOIDY RATES IN PATIENTS UNDERGOING ICSI? Alex Robles, M.D.,<sup>1</sup> Evan Akiva Reshef, MD,<sup>1</sup> Robert W. Prosser, MSc,<sup>1</sup> Eric J. Forman, M.D.,<sup>2</sup> Zev Williams, M.D., PhD.<sup>1</sup> <sup>1</sup>Columbia University Fertility Center, New York, NY; <sup>2</sup>Columbia University Fertility Center.  
[https://www.fertstert.org/article/S0015-0282\(21\)00991-2/fulltext#:~:text=a%20new%20tab-Conclusion,rates%20and%20higher%20euploidy%20rates.](https://www.fertstert.org/article/S0015-0282(21)00991-2/fulltext#:~:text=a%20new%20tab-Conclusion,rates%20and%20higher%20euploidy%20rates.)
- 18 A TREATMENT APPROACH FOR COUPLES WITH DISRUPTED SPERM DNA INTEGRITY AND RECURRENT ART FAILURE. Alessandra Parrella, Derek Keating, Stephanie Cheung, Philip Xie, Joshua D. Stewart, Zev Rosenwaks, Gianpiero D. Palermo  
Journal of Assisted Reproduction and Genetics volume 36, pages2057–2066 (2019).  
<https://link.springer.com/article/10.1007/s10815-019-01543-5>
- 19 MICROFLUIDIC PREPARATION OF SPERMATOZOA FOR ICSI PRODUCES SIMILAR EMBRYO QUALITY TO DENSITY-GRADIENT CENTRIFUGATION: A PRAGMATIC, RANDOMIZED CONTROLLED TRIAL  
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<sup>1</sup>Department of Obstetrics and Gynecology, University of Southern California, Los Angeles, CA, <sup>2</sup>Department of Obstetrics, Gynecology and Reproductive Sciences, University of California San Francisco, San Francisco, CA, USA  
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## Embryo Euploidy

- 20 CAN A SPERM SELECTION TECHNIQUE IMPROVE EMBRYO PLOIDY?  
Olena M. Kocur, Philip Xie, Stephanie Cheung, Sydney Souness, Mary McKnight, Zev Rosenwaks, Gianpiero D. Palermo  
<https://doi.org/10.1111/andr.13362>
- 21 EVALUATION OF OOCYTE FERTILIZATION AND IN VITRO EMBRYO DEVELOPMENT AFTER SPERM PREPARATION USING ZYMOT PRIOR TO INTRACYTOPLASMIC SPERM INJECTION (ICSI) AND IN VITRO FERTILIZATION (IVF).  
Daneshmand, S, Richter, KS, Callies, HL, Kokjohn S, Fertility and Sterility, Vol. 118, P-100 (2022).  
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Parrella A., Choi D., Keating D., et al. ASRM 2018. <https://doi.org/10.1016/j.fertnstert.2018.07.955>
- 6 IMPACT OF MICROFLUIDIC SPERM SORTING ON EMBRYO QUALITY AND COMPREHENSIVE CHROMOSOME SCREENING OUTCOMES OF COUPLES WITH REPEATED IMPLANTATION FAILURE  
Pabuccu E., Pabuccu R., Sertyel S., et al. ESHRE 2018  
<https://www.zymotfertility.com/wp-content/uploads/2020/01/impact-of-microfluidic-sperm-sorting-sahin-eshre-2018.pdf>
- 7 SPERM DNA FRAGMENTATION AND FUNCTIONAL FEATURES OF HUMAN SPERM SELECTED BY MICROFLUIDIC SORTING FOR CLINICAL USE. Nami Morishita, Ph.D., Natsumi Hyogo, M.A., Yukari Kurasaki, B.A., Rio Sakuma, M.A., Hiromi Morita, M.A., Megumi Miura, M.A, Yuki Kobayashi, B.A., Rie Matsunaga, M.A., Tomoko Maeda, Ph.D., Hiroshi Makino, Ph.D., Masanori Ochi, Ph.D., Toshitaka Horiuchi, Ph.D. OCHI YUME CLINIC NAGOYA, Nagoya, Japan. [https://www.fertstert.org/article/S0015-0282\(21\)01361-3/fulltext](https://www.fertstert.org/article/S0015-0282(21)01361-3/fulltext)
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- 10 FERTILIZATION RATE AND EMBRYONIC DEVELOPMENT AFTER INTRACYTOPLASMIC SPERM INJECTION USING A MICROFLUIDIC SPERM SELECTION DEVICE WITHOUT CENTRIFUGATION  
Haruhisa Tsuji<sup>1</sup>, Hiroya Kitasaka<sup>1</sup>, Noritaka Fukunaga<sup>1,2</sup> and Yoshimasa Asada<sup>1,2</sup>

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## Fertilization / Blastulation

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## DNA Fragmentation – Genomic Integrity

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<https://www.zymotfertility.com/wp-content/uploads/2020/01/ESHRE-2019-Palermo-Sperm-DNA-Integrity-ZyMot-850.pdf>
- 7 MICROFLUIDIC SPERM SELECTION BY THE ZYMÖT SPERM SEPARATION DEVICE CONCENTRATES SPERM WITH SIGNIFICANTLY LESS DNA DAMAGE FOR SUBSEQUENT ART PROCEDURES  
Hodge D., Vermilyea M., O’Leary R., *et al.* ESHRE 2019  
<https://www.zymotfertility.com/wp-content/uploads/2020/01/ESHRE-2019-Hodge-Sperm-DNA-damage.pdf>
- 8 MICROFLUIDIC SPERM SELECTION ENHANCES ICSI OUTCOMES BY SELECTING SPERMATOZOA WITH THE HIGHEST CHROMATIN INTEGRITY  
Hancock K., Parrella A., Goldman M., *et al.* ESHRE 2019  
<https://www.zymotfertility.com/wp-content/uploads/2020/01/ESHRE-2019-Palermo-ICSI-Outcomes.pdf>
- 9 SPERM DNA FRAGMENTATION (SDF) WAS MOST EFFECTIVELY IMPROVED BY A SPERM SEPARATION DEVICE COMPARED TO DIFFERENT GRADIENT AND SWIMUP METHODS  
Broussard A., Leader B., Tirado E. *et al.* Fertility and Sterility. April 2019 Volume 111, Issue 4, Supplement, Page e15. <https://doi.org/10.1016/j.fertnstert.2019.02.054>
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Quinn M. M., Jalalian L., Ribeiro S., et al. Human Reproduction, Volume 33, Issue 8, August 2018, Pages 1388–1393. <https://doi.org/10.1093/humrep/dey239>
- 13 IMPACT OF MICROFLUIDIC SPERM SORTING ON EMBRYO QUALITY AND COMPREHENSIVE CHROMOSOME SCREENING OUTCOMES OF COUPLES WITH REPEATED IMPLANTATION FAILURE  
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- 14 SELECTION OF SPERMATOZOA WITH HIGHER CHROMATIN INTEGRITY THROUGH A MICROFLUIDICS DEVICE  
Parrella A., Pereira N., Chow S., et al. ESHRE 2017  
<https://www.zymotfertility.com/wp-content/uploads/2020/01/selection-of-spermatozoa-microfluidics-device-palermo-eshre-2017-1.pdf>
- 15 SELECTION OF FUNCTIONAL HUMAN SPERM WITH HIGHER DNA INTEGRITY AND FEWER REACTIVE OXYGEN SPECIES  
Asghar W., Velasco V., Kingsley J.L., et al. Advanced Healthcare Materials. Volume 3, Issue 10, October 2014.  
<https://doi.org/10.1002/adhm.201400058>
- 16 CAN MICROFLUIDIC SPERM SORTING HELP SEPARATION OF SPERMS WITH GOOD QUALITY DNA? Krishna Mantravadi, Sr. MBBS, PGDHOM, Masters in clinical embryology, Durga Gedela Rao, Sr. MRCOG Oasis fertility, Hyderabad, India.  
[https://www.fertstert.org/article/S0015-0282\(21\)01369-8/fulltext](https://www.fertstert.org/article/S0015-0282(21)01369-8/fulltext)
- 17 SPERM DNA FRAGMENTATION AND FUNCTIONAL FEATURES OF HUMAN SPERM SELECTED BY MICROFLUIDIC SORTING FOR CLINICAL USE. Nami Morishita, Ph.D., Natsumi Hyogo, M.A., Yukari Kurasaki, B.A., Rio Sakuma, M.A., Hiromi Morita, M.A., Megumi Miura, M.A, Yuki Kobayashi, B.A., Rie Matsunaga, M.A., Tomoko Maeda, Ph.D., Hiroshi Makino, Ph.D., Masanori Ochi, Ph.D., Toshitaka Horiuchi, Ph.D. OCHI YUME CLINIC NAGOYA, Nagoya, Japan.  
[https://www.fertstert.org/article/S0015-0282\(21\)01361-3/fulltext](https://www.fertstert.org/article/S0015-0282(21)01361-3/fulltext)
- 18 DOES ZYMOT SPERM SEPARATION IMPROVE EMBRYO DEVELOPMENT OUTCOMES WHEN APPLIED TO ALL INFERTILITY PATIENTS COMPARED TO DENSITY GRADIENT WASHING OR SURGICALLY ATTAINED SPERM? Mitchel C. Schiewe, MS, PhD, Ahmad Morsi Abu Maizar, M.Sc, Melanie Nordbak, BS, Michelle Alcoer, BS, Andrew W. Dinsmore, BS, Claudia De Romana, BS, Pedro J. Toledo, BS, Kelly Baek, MD, Guy E. Ringler, MD, Korine Chung, MD, Richard Marrs, MD California Fertility Partners, Los Angeles, CA.  
<https://pesquisa.bvsalud.org/global-literature-on-novel-coronavirus-2019-ncov/resource/pt/covidwho-1446634>
- 19 MICROFLUIDIC SPERM SEPARATION DEVICE DRAMATICALLY LOWERS DFI. M. Bastuba,<sup>1</sup>M. Cohen,<sup>1</sup>A. Bastuba,<sup>2</sup>P. Campbell.<sup>3</sup> <sup>1</sup>Male Fertility and Sexual Medicine Specialists, San Diego, CA, USA; <sup>2</sup>Fertility Center of California, San Diego, CA, USA; <sup>3</sup>Department of Urology, Naval Medical Center San Diego, San Diego, CA, USA.  
[https://www.fertstert.org/article/S0015-0282\(20\)30188-6/fulltext](https://www.fertstert.org/article/S0015-0282(20)30188-6/fulltext)
- 20 A TREATMENT APPROACH FOR COUPLES WITH DISRUPTED SPERM DNA INTEGRITY AND RECURRENT ART FAILURE. Alessandra Parrella, Derek Keating, Stephanie Cheung, Philip Xie, Joshua D. Stewart, Zev Rosenwaks, Gianpiero D. Palermo  
[Journal of Assisted Reproduction and Genetics volume 36, pages2057–2066 \(2019\)](https://doi.org/10.1093/humrep/dey239)



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## DNA Fragmentation – Genomic Integrity

- 21 MACS VS MICROFLUIDICS SPERM SORTING FOR RAISED SPERM DFI - A RCT  
Durga Rao, Krishna Chaitanya M., Oasis Fertility – Hyderabad, India  
[https://academic.oup.com/humrep/article/37/Supplement\\_1/deac104.108/6620288](https://academic.oup.com/humrep/article/37/Supplement_1/deac104.108/6620288)
- 22 MALE AGE IS ASSOCIATED WITH SPERM DNA INTEGRITY: SELECTION OF HIGH DNA INTEGRITY SPERM BY MICROFLUIDICS SORTING IS CRITICAL TO CLINICAL OUTCOMES IN OLDER PATIENTS  
Nami Morishita, Megumi Miura, Yuki Kobayashi, Rie Matsunaga, Tomoko Maeda, Masanori Ochi, Toshitaka Horiuchi, Ochi Yume Clinic Nagoya, Nagoya, Japan  
[https://academic.oup.com/humrep/article/37/Supplement\\_1/deac107.036/6619771](https://academic.oup.com/humrep/article/37/Supplement_1/deac107.036/6619771)
- 23 ASSESSING THE INTEGRITY OF THE MALE GAMETE GENOME TO IMPROVE ART CLINICAL OUTCOMES  
Kocur OM., Xie P., Sung C., Souness S., Rosenwaks Z., Palermo GD., Ronald O. Perelman and Claudia Cohen  
Center for Reproductive Medicine, New York, New York USA  
[https://academic.oup.com/humrep/article/37/Supplement\\_1/deac107.067/6620626](https://academic.oup.com/humrep/article/37/Supplement_1/deac107.067/6620626)
- 24 MICROFLUIDIC-BASED DEVICE SELECTS SPERM WITH LESS DNA DAMAGE AND HIGHER MOTILITY, WHAT ELSE?  
Pardiñas ML.<sup>1</sup>, De los Santos JM.<sup>2</sup>, Vilorio T.<sup>2</sup>, Ortega-Jaen D.<sup>1</sup>, Martín A.<sup>1</sup>, Rivera-Egea R.<sup>2</sup>, De los Santos MJ.<sup>1,2</sup>, <sup>1</sup>IVI Foundation-IIS La Fe, Research and Innovation, Valencia, Spain, <sup>2</sup>IVI RMA Valencia, IVF Laboratory, Valencia, Spain.  
[https://academic.oup.com/humrep/article/37/Supplement\\_1/deac107.078/6620717](https://academic.oup.com/humrep/article/37/Supplement_1/deac107.078/6620717)
- 25 GENOTYPIC SPERM SORTING: A LESS INVASIVE “ART” TO PREVENT GENETIC DISORDERS IN NEWBORNS  
<sup>\*1,3</sup>Olumide O. Adenmosun, PhD, MBA (oadenmos@fau.edu) <sup>2</sup>Waseem Asghar, PhD, <sup>3</sup>Michael Matilsky, PhD, HCLD and <sup>1</sup>James Kumi-Diaka, DVM, PhD, <sup>1</sup>Florida Atlantic University, Biological Sciences, Davie, USA, <sup>2</sup>Florida Atlantic University, Electrical Engineering and Computer Science, Boca Raton, USA, <sup>3</sup>Boca Fertility, Andrology/Embryology Laboratory, Boca Raton, USA  
[https://academic.oup.com/humrep/article/37/Supplement\\_1/deac107.086/6620459](https://academic.oup.com/humrep/article/37/Supplement_1/deac107.086/6620459)
- 26 SPERM DNA INTEGRITY AND MALE INFERTILITY: A NARRATIVE REVIEW AND GUIDE FOR THE REPRODUCTIVE PHYSICIANS  
Farkouh A, Salvio G, Kuroda S, Saleh R, Vogiatzi P, Agarwal A. Transl Androl Urol 2022;11(7):1023-1044. DOI: 10.21037/TAU-22-149  
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC9360512/>
- 27 CAN A SPERM SELECTION TECHNIQUE IMPROVE EMBRYO PLOIDY?  
Olena M. Kocur, Philip Xie, Stephanie Cheung, Sydney Souness, Mary McKnight, Zev Rosenwaks, Gianpiero D. Palermo  
<https://doi.org/10.1111/andr.13362>
- 28 RAISED SPERM DNA FRAGMENTATION INDEX, IS THERE AN EFFICIENT INTERVENTION TO OPTIMIZE REPRODUCTIVE OUTCOMES? – A FOUR ARM RANDOMIZED CONTROL TRIAL. Mantravadi, K, Rao, DG, J Kumar, J, Veera, M, Sunanda, P. Fertility and Sterility, Vol. 118, P-455. (2022).  
<https://doi.org/10.1016/j.fertnstert.2022.09.055>
- 29 OPTIMAL INTERVENTION TO OBTAIN SPERMS WITH GOOD DNA QUALITY – ROLE OF MACS VS MICROFLUIDICS IN SPERM SORTING  
Mantravadi K, Tayawade AV, Rao DG Fertility and Sterility Vol. 18, P.92 (2022).  
<https://doi.org/10.1016/j.fertnstert.2022.08.434>

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## Centrifugation / Density Gradient Centrifugation

- 1 SPERM DNA FRAGMENTATION (SDF) WAS MOST EFFECTIVELY IMPROVED BY A SPERM SEPARATION DEVICE COMPARED TO DIFFERENT GRADIENT AND SWIMUP METHODS  
Broussard A., Leader B., Tirado E. et al. Fertility and Sterility. April 2019 Volume 111, Issue 4, Supplement, Page e15. <https://doi.org/10.1016/j.fertnstert.2019.02.054>
- 2 MICROFLUIDIC SORTING SELECTS SPERM FOR CLINICAL USE WITH REDUCED DNA DAMAGE  
Quinn M. M., Jalalian L., Ribeiro S., et al. Human Reproduction, Volume 33, Issue 8, August 2018, Pages 1388–1393. <https://doi.org/10.1093/humrep/dey239>
- 3 DOES ZYMOT SPERM SEPARATION IMPROVE EMBRYO DEVELOPMENT OUTCOMES WHEN APPLIED TO ALL INFERTILITY PATIENTS COMPARED TO DENSITY GRADIENT WASHING OR SURGICALLY ATTAINED SPERM? Mitchell C. Schiewe, MS, PhD, Ahmad Morsi Abu Maizar, M.Sc, Melanie Nordbak, BS, Michelle Alcoer, BS, Andrew W. Dinsmore, BS, Claudia De Romana, BS, Pedro J. Toledo, BS, Kelly Baek, MD, Guy E. Ringler, MD, Korine Chung, MD, Richard Marrs, MD California Fertility Partners, Los Angeles, CA.  
<https://pesquisa.bvsalud.org/global-literature-on-novel-coronavirus-2019-ncov/resource/pt/covidwho-1446634>
- 4 FERTILIZATION RATE AND EMBRYONIC DEVELOPMENT AFTER INTRACYTOPLASMIC SPERM INJECTION USING A MICROFLUIDIC SPERM SELECTION DEVICE WITHOUT CENTRIFUGATION  
Haruhisa Tsuji<sup>1</sup>, Hiroya Kitasaka<sup>1</sup>, Noritaka Fukunaga<sup>1,2</sup> and Yoshimasa Asada<sup>1,2</sup>  
<sup>1</sup> Asada Ladies Clinic, Aichi, Japan, <sup>2</sup> Asada Institute for Reproductive Medicine, Aichi, Japan  
[https://academic.oup.com/humrep/article/37/Supplement\\_1/deac107.045/6620379](https://academic.oup.com/humrep/article/37/Supplement_1/deac107.045/6620379)
- 5 ASSESSING THE INTEGRITY OF THE MALE GAMETE GENOME TO IMPROVE ART CLINICAL OUTCOMES  
Kocur OM., Xie P., Sung C., Souness S., Rosenwaks Z., Palermo GD., Ronald O. Perelman and Claudia Cohen  
Center for Reproductive Medicine, New York, New York USA  
[https://academic.oup.com/humrep/article/37/Supplement\\_1/deac107.067/6620626](https://academic.oup.com/humrep/article/37/Supplement_1/deac107.067/6620626)
- 6 MICROFLUIDIC-BASED DEVICE SELECTS SPERM WITH LESS DNA DAMAGE AND HIGHER MOTILITY, WHAT ELSE?  
Pardiñas ML.<sup>1</sup>, De los Santos JM.<sup>2</sup>, Vilorio T.<sup>2</sup>, Ortega-Jaen D.<sup>1</sup>, Martin A.<sup>1</sup>, Rivera-Egea R.<sup>2</sup>, De los Santos MJ.<sup>1,2</sup>, <sup>1</sup>IVI Foundation-IIS La Fe, Research and Innovation, Valencia, Spain, <sup>2</sup>IVI RMA Valencia, IVF Laboratory, Valencia, Spain.  
[https://academic.oup.com/humrep/article/37/Supplement\\_1/deac107.078/6620717](https://academic.oup.com/humrep/article/37/Supplement_1/deac107.078/6620717)
- 7 MICROFLUIDIC PREPARATION OF SPERMATOZOA FOR ICSI PRODUCES SIMILAR EMBRYO QUALITY TO DENSITY-GRADIENT CENTRIFUGATION: A PRAGMATIC, RANDOMIZED CONTROLLED TRIAL  
Molly M. Quinn<sup>1</sup>, Salustiano Ribeiro<sup>2</sup>, Flor Juarez-Hernandez<sup>2</sup>, Rhodel K. Simbulan<sup>2</sup>, Liza Jalalian<sup>2</sup>, Marcelle I. Cedars<sup>2</sup>, and Mitchell P. Rosen<sup>2</sup>  
<sup>1</sup>Department of Obstetrics and Gynecology, University of Southern California, Los Angeles, CA, <sup>2</sup>Department of Obstetrics, Gynecology and Reproductive Sciences, University of California San Francisco, San Francisco, CA, USA  
<https://academic.oup.com/humrep/article-abstract/37/7/1406/6581839?redirectedFrom=fulltext>
- 8 SPERM PARAMETERS AMONG SEMEN SAMPLES PROCESSED BY MICROFLUIDICS COMPARED TO DENSITY GRADIENT CENTRIFUGATION (DGC): A SECONDARY ANALYSIS OF A DOUBLE-BLINDED PROSPECTIVE RANDOMIZED TRIAL.  
Godiwala PN, Kwieraga JL, Almanza E, Grow DR, Bartolucci A, Engmann L. Fertility and Sterility Vol. 18, P.98 (2022).  
<https://doi.org/10.1016/j.fertnstert.2022.08.439>
- 9 MICROFLUIDIC SPERM SORTING COMPARED WITH TRADITIONAL DENSITY GRADIENT CENTRIFUGATION: A COST ANALYSIS. Ogbejesi, C, Koniars K, Godiwala, PN, Grow, DR, Engmann, L, Benadiva, CA, Bartolucci A. Fertility and Sterility Vol. 18, P.78 (2022).  
<https://doi.org/10.1016/j.fertnstert.2022.08.418>

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## Reactive Oxygen Species (ROS) / Cellular Stress

- 1 SPERM DNA FRAGMENTATION (SDF) WAS MOST EFFECTIVELY IMPROVED BY A SPERM SEPARATION DEVICE COMPARED TO DIFFERENT GRADIENT AND SWIMUP METHODS  
Broussard A., Leader B., Tirado E. et al. Fertility and Sterility. April 2019 Volume 111, Issue 4, Supplement, Page e15. <https://doi.org/10.1016/j.fertnstert.2019.02.054>
- 2 SELECTION OF FUNCTIONAL HUMAN SPERM WITH HIGHER DNA INTEGRITY AND FEWER REACTIVE OXYGEN SPECIES  
Asghar W., Velasco V., Kingsley J.L., et al. Advanced Healthcare Materials. Volume 3, Issue 10, October 2014. <https://doi.org/10.1002/adhm.201400058>
- 3 MICROFLUIDIC SPERM SEPARATION DEVICE DRAMATICALLY LOWERS DFI. M. Bastuba,<sup>1</sup>M. Cohen,<sup>1</sup>A. Bastuba,<sup>2</sup>P. Campbell.<sup>3</sup> <sup>1</sup>Male Fertility and Sexual Medicine Specialists, San Diego, CA, USA; <sup>2</sup>Fertility Center of California, San Diego, CA, USA; <sup>3</sup>Department of Urology, Naval Medical Center San Diego, San Diego, CA, USA. [https://www.fertstert.org/article/S0015-0282\(20\)30188-6/fulltext](https://www.fertstert.org/article/S0015-0282(20)30188-6/fulltext)

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## Patient Outcomes

- 1 COMPARISON OF MICROFLUIDIC SPERM SORTING CHIP AND DENSITY GRADIENT METHODS FOR USE IN INTRAUTERINE INSEMINATION CYCLES  
Gode, F., Bodur T., Güntürkün F., et al. Fertility and Sterility. Volume 112, Issue 5, November 2019, Pages 842-848.e1. <https://doi.org/10.1016/j.fertnstert.2019.06.037>
- 2 UTILIZING SPERMATOZOA WITH THE HIGHEST GENOMIC INTEGRITY ENHANCES ICSI OUTCOME.  
Keating, D., Tavares, D., Rosenwaks, Z., Palermo, G. Fertility and Sterility Vol. 116, E67-E68(2021). doi: <https://doi.org/10.1016/j.fertnstert.2021.07.190>
- 3 ICSI OUTCOMES USING SPERMATOZOA WITH OPTIMAL GENOMIC INTEGRITY  
Parrella, Alessandra. ASRM 2020  
<https://www.zymotfertility.com/wp-content/uploads/2021/01/Parrella-et-al-ASRM-2020-abstract-O-69.pdf>
- 4 EUPLOIDY RATES AND PREGNANCY OUTCOMES USING THE ZYMOT DEVICE FOR SPERM PREPARATION  
Anderson, Anthony R. et al. ASRM 2020  
<https://www.zymotfertility.com/wp-content/uploads/2021/01/Anderson-et-al-ASRM-2020-abstract-O-104.pdf>
- 5 A TREATMENT APPROACH FOR COUPLES WITH DISRUPTED SPERM DNA INTEGRITY AND RECURRENT ART FAILURE  
Parrella, A., Keating, D., Cheung, S. et al. J Assist Reprod Genet 36, 2057–2066 (2019).  
<https://doi.org/10.1007/s10815-019-01543-5>
- 6 A THERAPEUTIC APPROACH FOR COUPLES WITH COMPROMISED SPERM DNA INTEGRITY AND A HISTORY OF ANEUPLOID EMBRYOS  
Petrini A., Parrella A., Xie P., et al. ESHRE 2019  
<https://www.zymotfertility.com/wp-content/uploads/2020/01/ESHRE-2019-Palermo-Sperm-DNA-Integrity-ZyMot-850.pdf>
- 7 LABORATORY AND CLINICAL OUTCOMES OF SPERMATOZA PREPARED THROUGH A MICROFLUIDIC DEVICE: A PROSPECTIVE PILOT SIBLING OOCYTE STUDY  
Akçay B., Findikli N., Aksoy T., et al. ASRM 2018. <https://doi.org/10.1016/j.fertnstert.2018.07.958>
- 8 MALE AGE IS ASSOCIATED WITH SPERM DNA INTEGRITY: SELECTION OF HIGH DNA INTEGRITY SPERM BY MICROFLUIDICS SORTING IS CRITICAL TO CLINICAL OUTCOMES IN OLDER PATIENTS  
Nami Morishita, Megumi Miura, Yuki Kobayashi, Rie Matsunaga, Tomoko Maeda, Masanori Ochi, Toshitaka Horiuchi, Ochi Yume Clinic Nagoya, Nagoya, Japan  
[https://academic.oup.com/humrep/article/37/Supplement\\_1/deac107.036/6619771](https://academic.oup.com/humrep/article/37/Supplement_1/deac107.036/6619771)
- 9 OPTIMIZING SPERM SELECTION AND REPRODUCTIVE OUTCOMES BY MICROFLUIDICS FOR COUPLES WITH RAISED DFI  
G. Gedela, Durga Rao, Krishna Chaitanya M., Oasis Fertility – Hyderabad, India  
[https://academic.oup.com/humrep/article/37/Supplement\\_1/deac107.005/6619929](https://academic.oup.com/humrep/article/37/Supplement_1/deac107.005/6619929)
- 10 MICROFLUIDIC PREPARATION OF SPERMATOZOA FOR ICSI PRODUCES SIMILAR EMBRYO QUALITY TO DENSITY-GRADIENT CENTRIFUGATION: A PRAGMATIC, RANDOMIZED CONTROLLED TRIAL  
Molly M. Quinn<sup>1</sup>, Salustiano Ribeiro<sup>2</sup>, Flor Juarez-Hernandez<sup>2</sup>, Rhodel K. Simbulan<sup>2</sup>, Liza Jalalian<sup>2</sup>, Marcelle I. Cedars<sup>2</sup>, and Mitchell P. Rosen<sup>2</sup>  
<sup>1</sup>Department of Obstetrics and Gynecology, University of Southern California, Los Angeles, CA, <sup>2</sup>Department of Obstetrics, Gynecology and Reproductive Sciences, University of California San Francisco, San Francisco, CA, USA  
<https://academic.oup.com/humrep/article-abstract/37/7/1406/6581839?redirectedFrom=fulltext>

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- 11 CAN A SPERM SELECTION TECHNIQUE IMPROVE EMBRYO PLOIDY?  
Olena M. Kocur, Philip Xie, Stephanie Cheung, Sydney Souness, Mary McKnight, Zev Rosenwaks, Gianpiero D. Palermo  
<https://doi.org/10.1111/andr.13362>