



BOSTONIVF

Research Articles 2020-2024

2020

Title

Author(s)

Citation (APA)

<p>DNA fragmentation of sperm: a radical examination of the contribution of oxidative stress and age in 16 945 semen samples</p>	<p>D. A. Vaughan, E. Tirado, D. Garcia, V. Datta, and D. Sakkas</p>	<p>Vaughan, D. A., Tirado, E., Garcia, D., Datta, V., & Sakkas, D. (2020). DNA fragmentation of sperm: a radical examination of the contribution of oxidative stress and age in 16 945 semen samples. <i>Human reproduction (Oxford, England)</i>, 35(10), 2188–2196. https://doi.org/10.1093/humrep/deaa159</p>
<p>A major increase in oocyte cryopreservation cycles in the USA, Australia and New Zealand since 2010 is highlighted by younger women but a need for standardized data collection</p>	<p>Molly Johnston, Nadine M. Richings, Angela Leung, Denny Sakkas, and Sally Catt</p>	<p>Johnston, M., Richings, N. M., Leung, A., Sakkas, D., & Catt, S. (2021). A major increase in oocyte cryopreservation cycles in the USA, Australia and New Zealand since 2010 is highlighted by younger women but a need for standardized data collection. <i>Human reproduction (Oxford, England)</i>, 36(3), 624–635. https://doi.org/10.1093/humrep/deaa320</p>
<p>Infertility remains top stressor despite the COVID-19 pandemic</p>	<p>Lauren A. Murphy, Emily A. Seidler, Denis A. Vaughan, Nina Resetkova, Alan S. Penzias, Thomas L. Toth, Kim L. Thornton, and Denny Sakkas</p>	<p>Vaughan, D. A., Shah, J. S., Penzias, A. S., Domar, A. D., & Toth, T. L. (2020). Infertility remains a top stressor despite the COVID-19 pandemic. <i>Reproductive biomedicine online</i>, 41(3), 425–427. https://doi.org/10.1016/j.rbmo.2020.05.015</p>
<p>A multi-centre international study of salivary hormone</p>	<p>Denny Sakkas, Colin M. Howles, Leslie Atkinson, Andrea Borini, Ernesto A. Bosch, Crystal Bryce, Monica Cattoli, Alan B. Copperman, Astrid Finet de Bantel, Brian</p>	<p>Sakkas, D., Howles, C. M., Atkinson, L., Borini, A., Bosch, E. A., Bryce, C., Cattoli, M., Copperman, A. B., de Bantel, A. F., French, B., Gerris, J., Granger, S. W., Grzegorzczuk-Martin, V., Lee, J. A., Levy, M. J., Matin, M. J., Somers, S., Widra, E. A., & Alper, M. M.</p>

<p>oestradiol and progesterone measurements in ART monitorin</p>	<p>French, Jan Gerris, Steve W. Granger, Veronika Grzegorzczuk-Martin, Joseph A. Lee, Michael J. Levy, Marla J. Matin, Sara Somers, Eric A. Widra, Michael M. Alper</p>	<p>(2021). A multi-centre international study of salivary hormone oestradiol and progesterone measurements in ART monitoring. <i>Reproductive biomedicine online</i>, 42(2), 421–428. https://doi.org/10.1016/j.rbmo.2020.10.012</p>
<p>Choice of statistical model in observational studies of ART</p>	<p>Laura E. Dodge, Leslie V. Farland, Katharine F.B. Correia, Stacey A. Missmer, Emily A. Seidler, Jack Wilkinson, Anna M. Modest, and Michele R. Hacker</p>	<p>Dodge, L. E., Farland, L. V., Correia, K. F. B., Missmer, S. A., Seidler, E. A., Wilkinson, J., Modest, A. M., & Hacker, M. R. (2020). Choice of statistical model in observational studies of ART. <i>Human reproduction (Oxford, England)</i>, 35(7), 1499–1504. https://doi.org/10.1093/humrep/deaa050</p>
<p>Non-invasive imaging of mouse embryo metabolism in response to induced hypoxia</p>	<p>Emily A. Seidler, & T. Sanchez & M. Venturas & D. Sakkas & D. J. Needleman</p>	<p>Seidler, E. A., Sanchez, T., Venturas, M., Sakkas, D., & Needleman, D. J. (2020). Non-invasive imaging of mouse embryo metabolism in response to induced hypoxia. <i>Journal of assisted reproduction and genetics</i>, 37(8), 1797–1805. https://doi.org/10.1007/s10815-020-01872-w</p>
<p>Placenta Accreta Spectrum: In Vitro Fertilization and Non-In Vitro Fertilization and Placenta Accreta Spectrum in a Massachusetts Cohort</p>	<p>Roisin Mortimer, K. James, C. L. Bormann, A. L. Harris., J. Yeh, T. L. Toth, I. Souter, D. J. Roberts, C. R. Sacha</p>	<p>Modest, A. M., Toth, T. L., Johnson, K. M., & Shanker, S. A. (2021). Placenta Accreta Spectrum: In Vitro Fertilization and Non-In Vitro Fertilization and Placenta Accreta Spectrum in a Massachusetts Cohort. <i>American journal of perinatology</i>, 38(14), 1533–1539. https://doi.org/10.1055/s-0040-1713887</p>

<p>Multicenter prospective study of concordance between embryonic cell-free DNA and trophoctoderm biopsies from 1301 human blastocysts</p>	<p>Carmen Rubio, PhD ; Luis Navarro-Sánchez, PhD ; Carmen M. García-Pascual, PhD; Olcay Ocali, BS; Danilo Cimadomo, PhD; William Venier, MSc; Gerardo Barroso, MD; Laura Kopcow, MD; Mustafa Bahçeci, MD; Marcos Iuri Roos Kulmann, BSc; Lourdes López, MD; Emilio De la Fuente, MSc; Roser Navarro, MSc; Diana Valbuena, MD, PhD; Denny Sakkas, PhD; Laura Rienzi, MSc; Carlos Simón, MD, PhD</p>	<p>Rubio, C., Navarro-Sánchez, L., García-Pascual, C. M., Ocali, O., Cimadomo, D., Venier, W., Barroso, G., Kopcow, L., Bahçeci, M., Kulmann, M. I. R., López, L., De la Fuente, E., Navarro, R., Valbuena, D., Sakkas, D., Rienzi, L., & Simón, C. (2020). Multicenter prospective study of concordance between embryonic cell-free DNA and trophoctoderm biopsies from 1301 human blastocysts. <i>American journal of obstetrics and gynecology</i>, 223(5), 751.e1–751.e13. https://doi.org/10.1016/j.ajog.2020.04.035</p>
<p>Vaginal cuff dehiscence following transvaginal oocyte retrieval: a case report</p>	<p>Sarah K. O'Connor, David A. Ryley, Charles W. Obasiolu, Katharine M. Esselen, Christine C. Skiadas and Wendy Kuohung</p>	<p>O'Connor, S. K., Ryley, D. A., Obasiolu, C. W., Esselen, K. M., Skiadas, C. C., & Kuohung, W. (2020). Vaginal cuff dehiscence following transvaginal oocyte retrieval: a case report. <i>Fertility research and practice</i>, 6, 16. https://doi.org/10.1186/s40738-020-00085-0</p>

2021

Title

Author(s)

Citation (APA)

<p>Characterization of an artificial intelligence model for ranking static images of blastocyst stage embryos</p>	<p>Kevin Loewke, Ph.D., Justina Hyunjii Cho, M.S., M.A., Camelia D. Brumar, B.S., Paxton Maeder-York, M.S., M.B.A., Oleksii Barash, Ph.D., Jonas E. Malmsten, D.P.S., Nikica Zaninovic, Ph.D., Denny Sakkas, Ph.D., Kathleen A. Miller, D.H.Sc., Michael Levy, M.D., and Matthew David VerMilyea, Ph.D.</p>	<p>Loewke, K., Cho, J. H., Brumar, C. D., Maeder-York, P., Barash, O., Malmsten, J. E., Zaninovic, N., Sakkas, D., Miller, K. A., Levy, M., & VerMilyea, M. D. (2022). Characterization of an artificial intelligence model for ranking static images of blastocyst stage embryos. <i>Fertility and sterility</i>, 117(3), 528–535. https://doi.org/10.1016/j.fertnstert.2021.11.022</p>
<p>Black race associated with lower live birth rate in frozen-thawed blastocyst transfer cycles: an analysis of 7,002 Society for Assisted Reproductive Technology frozen-thawed blastocyst transfer cycles</p>	<p>Reeva Makhijani, M.D., Prachi Godiwala, M.D., James Grady, Dr.P.H., Alicia Christy, M.D., Kim Thornton, M.D., Daniel Grow, M.D., and Lawrence Engmann, M.D</p>	<p>Makhijani, R., Godiwala, P., Grady, J., Christy, A., Thornton, K., Grow, D., & Engmann, L. (2022). Black race associated with lower live birth rate in frozen-thawed blastocyst transfer cycles: an analysis of 7,002 Society for Assisted Reproductive Technology frozen-thawed blastocyst transfer cycles. <i>Fertility and sterility</i>, 117(2), 360–367. https://doi.org/10.1016/j.fertnstert.2021.11.019</p>
<p>Severe acute respiratory syndrome coronavirus 2 immunity: infective and naive incidence in fertility clinics after lockdown</p>	<p>Russel Foulk, Denny Sakkas, Refik Kayali, Diana Valbuena, Carlos Simon, Juliana Cuzzi</p>	<p>Foulk, R., Sakkas, D., Kayali, R., Valbuena, D., Simon, C., & Cuzzi, J. (2021). Severe acute respiratory syndrome coronavirus 2 immunity: infective and naive incidence in fertility clinics after lockdown. <i>American journal of obstetrics and gynecology</i>, 225(1), 103–105. https://doi.org/10.1016/j.ajog.2021.03.008</p>
		<p>Leung, A. Q., Baker, K., Vaughan, D., Shah, J. S., Korkidakis, A., Ryley, D. A.,</p>

<p>Clinical outcomes and utilization from over a decade of planned oocyte cryopreservation</p>	<p>Elizabeth L. Wolfe, M.D., Denis Vaughan, M.D., Wendy Craig, Ph.D., Brianna Amaral, B.A., Alan Penzias, M.D., Denny Sakkas, Ph.D., and Thomas L. Toth, M.D</p>	<p>Sakkas, D., & Toth, T. L. (2021). Clinical outcomes and utilization from over a decade of planned oocyte cryopreservation. <i>Reproductive biomedicine online</i>, 43(4), 671–679. https://doi.org/10.1016/j.rbmo.2021.06.024</p>
<p>Barriers and factors associated with significant delays to initial consultation and treatment for infertile patients and partners of infertile patients</p>	<p>Alice Domar, Rita Vassena, Marjorie Dixon, Mauro Costa, Elena Vegni, Barbara Collura, Marie Markert, Carl Samuelsen, Jillian Guiglotto, Eva Roitmann, Jacky Boivin</p>	<p>Domar, A., Vassena, R., Dixon, M., Costa, M., Vegni, E., Collura, B., Markert, M., Samuelsen, C., Guiglotto, J., Roitmann, E., & Boivin, J. (2021). Barriers and factors associated with significant delays to initial consultation and treatment for infertile patients and partners of infertile patients. <i>Reproductive biomedicine online</i>, 43(6), 1126–1136. https://doi.org/10.1016/j.rbmo.2021.09.002</p>
<p>Elevated serum progesterone during in vitro fertilization treatment and the risk of ischemic placental disease</p>	<p>Anna M. Modest, Katherine M. Johnson, Ashley Aluko, Ashwini Joshi, Lauren A. Wise, Matthew P Fox, Michele R. Hacker, Denny Sakkas</p>	<p>Modest, A. M., Johnson, K. M., Aluko, A., Joshi, A., Wise, L. A., Fox, M. P., Hacker, M. R., & Sakkas, D. (2021). Elevated serum progesterone during in vitro fertilization treatment and the risk of ischemic placental disease. <i>Pregnancy hypertension</i>, 24, 7–12. https://doi.org/10.1016/j.preghy.2021.02.004</p>
<p>Navigating the Challenges of Fertility and Reproductive Planning for Terminal Cancer Patients</p>	<p>Joanna Sharpless MD, David Ryley MD, Sarah Byrne-Martelli DMin, BCC, and Bethany-Rose Daubman MD</p>	<p>Sharpless, J., Ryley, D., Byrne-Martelli, S., & Daubman, B. R. (2021). Navigating the Challenges of Fertility and Reproductive Planning for Terminal Cancer Patients. <i>Journal of pain and symptom management</i>, 62(4),</p>

		843–847. https://doi.org/10.1016/j.jpainsymman.2021.02.005
Fertility—a human right worthy of mandated insurance coverage: the evolution, limitations, and future of access to care	Jennifer F. Kawwass, M.D., Alan S. Penzias, M.D., and Eli Y. Adashi, M.D., M.S.	Kawwass, J. F., Penzias, A. S., & Adashi, E. Y. (2021). Fertility—a human right worthy of mandated insurance coverage: the evolution, limitations, and future of access to care. <i>Fertility and sterility</i> , 115(1), 29–42. https://doi.org/10.1016/j.fertnstert.2020.09.155
In vitro fertilization and andrology laboratory in 2030: expert visions	Alison Campbell, Ph.D., David K. Gardner, D.Phil., Marcos Meseguer, Ph.D., Kathleen A. Miller, D.H.Sc., Markus Montag, Ph.D., Gianpiero D. Palermo, M.D., Ph.D., Stephanie Cheung, B.S., Derek Keating, B.A., Philip Xie, B.S., Zev Rosenwaks, M.D., Laura Rienzi, M.Sc., Federica Innocenti, Ph.D., Danilo Cimadomo, M.Sc., Ph.D., Filippo Maria Ubaldi, M.D., Ph.D., Denny Sakkas, Ph.D., Michael J. Tucker, Ph.D., Liesl Nel-Themaat, Ph.D., H.C.L.D., and Carlos Simon, M.D., Ph.D.	Campbell, A., Gardner, D. K., Meseguer, M., Miller, K. A., Montag, M., Palermo, G. D., Cheung, S., Keating, D., Xie, P., Rosenwaks, Z., Rienzi, L., Innocenti, F., Cimadomo, D., Ubaldi, F. M., Sakkas, D., Tucker, M. J., Nel-Themaat, L., & Simon, C. (2021). In vitro fertilization and andrology laboratory in 2030: expert visions. <i>Fertility and sterility</i> , 116(1), 4–12. https://doi.org/10.1016/j.fertnstert.2021.05.088
The effect of rapid and delayed insemination on reproductive outcome in conventional insemination and intracytoplasmic sperm injection in vitro fertilization cycles	Fredrick M. Esiso, Donna Cunningham, FangFang Lai, Desiree Garcia, C. Brent Barrett, Kim Thornton, Denny Sakkas	Esiso, F. M., Cunningham, D., Lai, F., Garcia, D., Barrett, C. B., Thornton, K., & Sakkas, D. (2021). The effect of rapid and delayed insemination on reproductive outcome in conventional insemination and intracytoplasmic sperm injection in vitro fertilization cycles. <i>Journal of assisted reproduction and genetics</i> , 38(10), 2697–2706.

		https://doi.org/10.1007/s10815-021-02344-5
Male factor infertility and placental pathology in singleton live births conceived with in vitro fertilization	Anna M. Modest, PhD, MPH, Thomas L. Toth, MD, Katherine M. Johnson, MD, Scott A. Shinker, DO, MS	Mortimer, R., James, K., Bormann, C. L., Harris, A. L., Yeh, J., Toth, T. L., Souter, I., Roberts, D. J., & Sacha, C. R. (2021). Male factor infertility and placental pathology in singleton live births conceived with in vitro fertilization. <i>Journal of assisted reproduction and genetics</i> , 38(12), 3223–3232. https://doi.org/10.1007/s10815-021-02344-5
Research-supported mobile applications and internet-based technologies to mediate the psychological effects of infertility: a review	Alison J. Meyers, Alice D. Domar	Meyers, A. J., & Domar, A. D. (2021). Research-supported mobile applications and internet-based technologies to mediate the psychological effects of infertility: a review. <i>Reproductive biomedicine online</i> , 42(3), 679–685. https://doi.org/10.1016/j.rbmo.2020.12.004
Multiple cryopreservation–warming cycles, coupled with blastocyst biopsy, negatively affect IVF outcomes	Ashley Aluko, Denis A. Vaughan, Anna M. Modest, Alan S. Penzias, Michele R. Hacker, Kim Thornton, Denny Sakkas	Aluko, A., Vaughan, D. A., Modest, A. M., Penzias, A. S., Hacker, M. R., Thornton, K., & Sakkas, D. (2021). Multiple cryopreservation-warming cycles, coupled with blastocyst biopsy, negatively affect IVF outcomes. <i>Reproductive biomedicine online</i> , 42(3), 572–578. https://doi.org/10.1016/j.rbmo.2020.11.019
Fertility technologies and how to optimize laboratory	Giovanni Coticchio & Barry Behr & Alison Campbell & Marcos Meseguer & Dean E	Coticchio, G., Behr, B., Campbell, A., Meseguer, M., Morbeck, D. E., Pisaturo, V., Plancha, C. E., Sakkas, D., Xu, Y., D'Hooghe, T., Cottell, E., & Lundin, K. (2021). Fertility technologies and how

<p>performance to support the shortening of time to birth of a healthy singleton: a Delphi consensus</p>	<p>Morbeck, & Valerio Pisaturo & Carlos E Plancha & Denny Sakkas, & Yanwen Xu & Thomas D’Hooghe, & Evelyn Cottell & Kersti Lundin</p>	<p>to optimize laboratory performance to support the shortening of time to birth of a healthy singleton: a Delphi consensus. <i>Journal of assisted reproduction and genetics</i>, 38(5), 1021–1043. https://doi.org/10.1007/s10815-021-02077-5</p>
<p>Perinatal outcomes in singleton pregnancies after in vitro fertilization cycles over 24 years</p>	<p>Jaimin S. Shah, M.D., Denis A. Vaughan, M.D., Angela Leung, M.D.,a,b,c Ann Korkidakis, M.D., M.P.H., Francesc Figueras, M.D., Ph.D., Desiree Garcia, Ph.D., Alan S. Penzias, M.D., and Denny Sakkas, Ph.D</p>	<p>Shah, J. S., Vaughan, D. A., Leung, A., Korkidakis, A., Figueras, F., Garcia, D., Penzias, A. S., & Sakkas, D. (2021). Perinatal outcomes in singleton pregnancies after in vitro fertilization cycles over 24 years. <i>Fertility and sterility</i>, 116(1), 27–35. https://doi.org/10.1016/j.fertnstert.2021.01.043</p>
<p>Pursuit of pregnancy by lesbian women: an opportunity to create best practice</p>	<p>Kim L. Thornton, M.D. Nina Resetkova, M.D., M.B.A.</p>	<p>Thornton, K. L., & Resetkova, N. (2021). Pursuit of pregnancy by lesbian women: an opportunity to create best practice. <i>F&S reports</i>, 2(3), 263–264. https://doi.org/10.1016/j.xfre.2021.07.006</p>
<p>Routine ketorolac at oocyte retrieval decreases postoperative narcotic use by more than 50%</p>	<p>Emily A. Seidler, M.D., Denis A. Vaughan, M.D., Angela Q. Leung, M.D., Denny Sakkas, Ph.D., David A. Ryley, M.D., and Alan S. Penzias, M.D.</p>	<p>Seidler, E. A., Vaughan, D. A., Leung, A. Q., Sakkas, D., Ryley, D. A., & Penzias, A. S. (2021). Routine ketorolac at oocyte retrieval decreases postoperative narcotic use by more than 50. <i>F&S reports</i>, 2(2), 156–160. https://doi.org/10.1016/j.xfre.2021.02.003</p>
		<p>Leung, A. Q., Bell, A. D., Mello, C. J., Penzias, A. S., McCarroll, S. A., & Sakkas, D. (2021). Single cell analysis of DNA in more than 10,000</p>

<p>Single cell analysis of DNA in more than 10,000 individual sperm from men with abnormal reproductive outcomes</p>	<p>Angela Q. Leung, Avery Davis Bell, Curtis J. Mello, Alan S. Penzias, Steven A. McCarroll, Denny Sakkas</p>	<p>individual sperm from men with abnormal reproductive outcomes. <i>Journal of assisted reproduction and genetics</i>, 38(11), 2975–2983. https://doi.org/10.1007/s10815-021-02300-3</p>
<p>Infertility and the power of word choice</p>	<p>Katherine G. Koniaries & Ann K. Korkidakis & Alan S. Penzias</p>	<p>Koniaries, K. G., Korkidakis, A. K., & Penzias, A. S. (2021). Infertility and the power of word choice. <i>Journal of assisted reproduction and genetics</i>, 38(8), 2107–2108. https://doi.org/10.1007/s10815-021-02234-w</p>
<p>The use of propensity score matching to assess the benefit of the endometrial receptivity analysis in frozen embryo transfers</p>	<p>Keri Bergin, M.D., Yael Eliner, M.D., M.P.H., Daniel W. Duvall Jr., B.A., Sarah Roger, B.S., Sonia Elguero, M.D., Alan S. Penzias, M.D., Denny Sakkas, Ph.D., and Denis A. Vaughan, M.D</p>	<p>Bergin, K., Eliner, Y., Duvall, D. W., Jr, Roger, S., Elguero, S., Penzias, A. S., Sakkas, D., & Vaughan, D. A. (2021). The use of propensity score matching to assess the benefit of the endometrial receptivity analysis in frozen embryo transfers. <i>Fertility and sterility</i>, 116(2), 396–403. https://doi.org/10.1016/j.fertnstert.2021.03.031</p>
<p>Validation study of the Access antimüllerian hormone assay for the prediction of poor ovarian response to controlled ovarian stimulation</p>	<p>Valerie L. Baker, M.D., Michael J. Glassner, M.D., Kevin Doody, M.D., Vicki L. Schnell, M.D., Clarisa Gracia, M.D., Sanghyuk S. Shin, Ph.D., Millie A. Behera, M.D., Cecile Maria Le Saint, Ph.D., Michael M. Alper, M.D., Mary Ellen Pavone, M.D., Edward A. Zbella, M.D., Charles C. Coddington, M.D., Lorna A. Marshall, M.D., Ronald F. Feinberg, M.D., Ph.D., Amber R. Cooper, M.D., Joely A. Straseski, Ph.D., and Dennis L. Broyles, M.S.H.S</p>	<p>Baker, V. L., Glassner, M. J., Doody, K., Schnell, V. L., Gracia, C., Shin, S. S., Behera, M. A., Le Saint, C. M., Alper, M. M., Pavone, M. E., Zbella, E. A., Coddington, C. C., Marshall, L. A., Feinberg, R. F., Cooper, A. R., Straseski, J. A., & Broyles, D. L. (2021). Validation study of the Access antimüllerian hormone assay for the prediction of poor ovarian response to controlled ovarian stimulation. <i>Fertility and sterility</i>, 116(2), 575–582.</p>

2022

Title

Author(s)

Citation (APA)

<p>Metabolic state of human blastocysts measured by fluorescence lifetime imaging microscopy</p>	<p>Marta Venturas, Jaimin S. Shah, Xingbo Yang, Tim H. Sanchez, William Conway, Denny Sakkas, and Dan J. Needleman</p>	<p>Venturas, M., Shah, J. S., Yang, X., Sanchez, T. H., Conway, W., Sakkas, D., & Needleman, D. J. (2022). Metabolic state of human blastocysts measured by fluorescence lifetime imaging microscopy. <i>Human reproduction (Oxford, England)</i>, 37(3), 411–427. https://doi.org/10.1093/humrep/deab283</p>
<p>Impact of empathic physician contact on patient anxiety and distress during the waiting period after embryo transfer: a randomized controlled trial</p>	<p>Jaimin S. Shah, Laura E. Dodge, Denis A. Vaughan, Kristin L. Rooney, Alan S. Penzias, Alice D. Domar</p>	<p>Shah, J. S., Dodge, L. E., Vaughan, D. A., Rooney, K. L., Penzias, A. S., & Domar, A. D. (2022). Impact of empathic physician contact on patient anxiety and distress during the waiting period after embryo transfer: a randomized controlled trial. <i>Reproductive biomedicine online</i>, 45(3), 425–431. https://doi.org/10.1016/j.rbmo.2022.04.021</p>
<p>Long-term reproductive outcomes in patients with unexplained infertility: follow-up of the Fast Track and Standard Treatment Trial participants</p>	<p>Alice D. Domar, Jaimin S. Shah, Annika Gompers, Alison J. Meyers, Darya R. Khodakhah, Michele R. Hacker, Alan S. Penzias, Denny Sakkas, Thomas L. Toth, Denis A. Vaughan</p>	<p>Vaughan, D. A., Goldman, M. B., Koniars, K. G., Nesbit, C. B., Toth, T. L., Fung, J. L., & Reindollar, R. H. (2022). Long-term reproductive outcomes in patients with unexplained infertility: follow-up of the Fast Track and Standard Treatment Trial participants. <i>Fertility and sterility</i>, 117(1), 193–201. https://doi.org/10.1016/j.fertnstert.2021.09.012</p>
	<p>Michael Fanton, Ph.D., Veronica Nutting, Funmi Solano, Paxton Maeder-York, M.S., M.B.A., Eduardo</p>	<p>Fanton, M., Nutting, V., Solano, F., Maeder-York, P., Hariton, E., Barash, O., Weckstein, L., Sakkas, D., Copperman, A. B., & Loewke, K. (2022). An interpretable</p>

<p>An interpretable machine learning model for predicting the optimal day of trigger during ovarian stimulation</p>	<p>Hariton, M.D., M.B.A., Oleksii Barash, Ph.D., Louis Weckstein, M.D., Denny Sakkas, Ph.D., Alan B. Copperman, M.D., and Kevin Loewke, Ph.D</p>	<p>machine learning model for predicting the optimal day of trigger during ovarian stimulation. <i>Fertility and sterility</i>, 118(1), 101–108. https://doi.org/10.1016/j.fertnstert.2022.04.003</p>
<p>Fluorescence lifetime imaging microscopy (FLIM) detects differences in metabolic signatures between euploid and aneuploid human blastocysts</p>	<p>Jaimin S. Shah, Marta Venturas, Tim H. Sanchez, Alan S. Penzias, Daniel J. Needleman, and Denny Sakkas</p>	<p>Shah, J. S., Venturas, M., Sanchez, T. H., Penzias, A. S., Needleman, D. J., & Sakkas, D. (2022). Fluorescence lifetime imaging microscopy (FLIM) detects differences in metabolic signatures between euploid and aneuploid human blastocysts. <i>Human reproduction (Oxford, England)</i>, 37(3), 400–410. https://doi.org/10.1093/humrep/deac016</p>
<p>The Psychological Impact of the COVID-19 Pandemic on Women Pregnant Following Infertility Treatment: A Longitudinal Study</p>	<p>Denis A. Vaughan, M.D., Marlene B. Goldman, Ph.D., Katherine G. Koniars, M.D., Carleigh B. Nesbit, D.O., Thomas L. Toth, M.D., June L. Fung, Ph.D., and Richard H. Reindollar, M.D</p>	<p>Domar, A. D., Shah, J. S., Gompers, A., Meyers, A. J., Khodakhah, D. R., Hacker, M. R., Penzias, A. S., Sakkas, D., Toth, T. L., & Vaughan, D. A. (2022). The psychological impact of the coronavirus disease 2019 pandemic on women who become pregnant after receiving treatment for infertility: a longitudinal study. <i>F&S reports</i>, 3(1), 71–78. https://doi.org/10.1016/j.xfre.2022.01.004</p>
<p>Day after rescue ICSI: eliminating total fertilization failure after conventional IVF with high live birth rates following cryopreserved blastocyst transfer</p>	<p>Sara Batha, Goli Ardestani, Olcay Ocali, Pam Jarmuz, Denis A. Vaughan, C. Brent Barrett, and Denny Sakkas</p>	<p>Batha, S., Ardestani, G., Ocali, O., Jarmuz, P., Vaughan, D. A., Barrett, C. B., & Sakkas, D. (2023). Day after rescue ICSI: eliminating total fertilization failure after conventional IVF with high live birth rates following cryopreserved blastocyst transfer. <i>Human reproduction</i></p>

		(Oxford, England), 38(7), 1277–1283. https://doi.org/10.1093/humrep/dead097
Sperm selection by the oviduct: perspectives for male fertility and assisted reproductive technologies	Sandra Soto-Heras, Denny Sakkas and David J. Miller	Soto-Heras, S., Sakkas, D., & Miller, D. J. (2023). Sperm selection by the oviduct: perspectives for male fertility and assisted reproductive technologies†. <i>Biology of reproduction</i> , 108(4), 538–552. https://doi.org/10.1093/biolre/i oac224
Telemedicine for reproductive medicine: pandemic and beyond	Angela Q. Leung, Katherine Baker, Denis Vaughan, Jaimin S. Shah, Ann Korkidakis, David A. Ryley, Denny Sakkas, Thomas L. Toth	Vaughan, D. A., Yin, S. H., Shah, J. S., Gompers, A., Hacker, M. R., Sakkas, D., Domar, A., & Toth, T. L. (2022). Telemedicine for reproductive medicine: pandemic and beyond. <i>Journal of assisted reproduction and genetics</i> , 39(2), 327–329. https://doi.org/10.1007/s10815-021-02383-y

2023

Title

Author(s)

Citation (APA)

<p>The complexity of addressing racial and ethnic disparities</p>	<p>Alexandra Huttler, M.D. & Kim L. Thornton, M.D</p>	<p>Huttler, A., & Thornton, K. L. (2023). The complexity of addressing racial and ethnic disparities. <i>Fertility and sterility</i>, 120(5), 987–988. https://doi.org/10.1016/j.fertnstert.2023.09.002</p>
<p>Meeting the demand for fertility services: the present and future of reproductive endocrinology and infertility in the United States</p>	<p>Eduardo Hariton, M.D., M.B.A., Ruben Alvero, M.D., Micah J. Hill, D.O., Jennifer E. Mersereau, M.D., M.S.C.I., Shana Perman, P.A., David Sable, M.D., Fiona Wang, P.A., Geoffrey David Adamson, M.D., Christos Coutifaris, M.D., Ph.D., LaTasha B. Craig, M.D., Pardis Hosseinzadeh, M.D., Anthony N. Imudia, M.D. Erica B. Johnstone, M.D., M.H.S., Ruth B. Lathi, M.D., Paul C. Lin, M.D., Erica E. Marsh, M.D., M.S.C.I., Michele Munch, C.R.N.P., Gloria Richard-Davis, M.D., Lauren W. Roth, M.D., Amy K. Schutt, M.D., Kim Thornton, M.D., Lauren Verrilli, M.D., M.S.C.I., Rachel S. Weinerman, M.D., Steven L. Young, M.D., Ph.D., and Kate Devine, M.D</p>	<p>Hariton, E., Alvero, R., Hill, M. J., Mersereau, J. E., Perman, S., Sable, D., Wang, F., Adamson, G. D., Coutifaris, C., Craig, L. B., Hosseinzadeh, P., Imudia, A. N., Johnstone, E. B., Lathi, R. B., Lin, P. C., Marsh, E. E., Munch, M., Richard-Davis, G., Roth, L. W., Schutt, A. K., ... Devine, K. (2023). Meeting the demand for fertility services: the present and future of reproductive endocrinology and infertility in the United States. <i>Fertility and sterility</i>, 120(4), 755–766. https://doi.org/10.1016/j.fertnstert.2023.08.019</p>
<p>ART outcomes in lean compared to obese phenotypes of polycystic ovarian syndrome</p>	<p>Yuval Fouks, Werner Neuhausser, David Ryley, Alan Penzias, Denny Sakkas, Denis Vaughan</p>	<p>Fouks, Y., Neuhausser, W., Ryley, D., Penzias, A., Sakkas, D., & Vaughan, D. (2023). ART outcomes in lean compared to obese phenotypes of polycystic ovarian syndrome. <i>Journal of assisted reproduction and genetics</i>, 40(6), 1437–1445. https://doi.org/10.1007/s10815-023-02804-0</p>
		<p>Go, K. J., Romanski, P. A.,</p>

<p>Meeting the challenge of unclaimed cryopreserved embryos</p>	<p>Kathryn J. Go, Ph.D., H.C.L.D., Phillip A. Romanski, M.D., M.Sc., Pietro Bortoletto, M.D., M.Sc., Jay C. Patel, T.S., Serene S. Srouji, M.D., and Elizabeth S. Ginsburg, M.D.</p>	<p>Bortoletto, P., Patel, J. C., Srouji, S. S., & Ginsburg, E. S. (2023). Meeting the challenge of unclaimed cryopreserved embryos. <i>Fertility and sterility</i>, 119(1), 15–20. https://doi.org/10.1016/j.fertnstert.2022.09.323</p>
<p>Double strand DNA breaks in sperm: the bad guy in the crowd</p>	<p>Juan G. Alvarez, Agustin García-Peiró, Alberto Barros, Luís Ferraz, Mário Sousa, Denny Sakkas</p>	<p>Alvarez, J. G., García-Peiró, A., Barros, A., Ferraz, L., Sousa, M., & Sakkas, D. (2023). Double strand DNA breaks in sperm: the bad guy in the crowd. <i>Journal of assisted reproduction and genetics</i>, 40(4), 745–751. https://doi.org/10.1007/s10815-023-02748-5</p>
<p>Endometrial receptivity array before frozen embryo transfer cycles: a systematic review and meta-analysis</p>	<p>Sara E. Arian, M.D., M.S.C.I., Kamran Hessami, M.D., Ali Khatibi, M.D., Ph.D., Alvin K. To, M.D., Alireza A. Shamshirsaz, M.D., and William Gibbons, M.D</p>	<p>Arian, S. E., Hessami, K., Khatibi, A., To, A. K., Shamshirsaz, A. A., & Gibbons, W. (2023). Endometrial receptivity array before frozen embryo transfer cycles: a systematic review and meta-analysis. <i>Fertility and sterility</i>, 119(2), 229–238. https://doi.org/10.1016/j.fertnstert.2022.11.012</p>
<p>Fertility Preservation in Endometriosis: Does Patient Symptomatology Affect the Extent of the Ovarian Response?</p>	<p>Yuval Fouks, Sher Goaz, David Ryley, Guy Kern, Foad Azem, Yoni Cohen, Yossi Hasson, Ziv Shapira, Aviad Cohen</p>	<p>Fouks, Y., Goaz, S., Ryley, D., Kern, G., Azem, F., Cohen, Y., Hasson, Y., Shapira, Z., & Cohen, A. (2023). Fertility Preservation in Endometriosis: Does Patient Symptomatology Affect the Extent of the Ovarian Response?. <i>Reproductive sciences (Thousand Oaks, Calif.)</i>, 30(8), 2439–2448. https://doi.org/10.1007/s43032-023-01180-5</p>
		<p>Malcov, M., Blickstein, O.,</p>

<p>The association between a carrier state of FMR1 premutation and numeric sex chromosome variations</p>	<p>Mira Malcov, Ophir Blickstein, Dana Brabbing-Goldstein, Adi Reches, Yael Kalma, Yuval Fouks, Foad Azem, Yoni Cohen</p>	<p>Brabbing-Goldstein, D., Reches, A., Kalma, Y., Fouks, Y., Azem, F., & Cohen, Y. (2023). The association between a carrier state of FMR1 premutation and numeric sex chromosome variations. <i>Journal of assisted reproduction and genetics</i>, 40(3), 683–688. https://doi.org/10.1007/s10815-023-02730-1</p>
<p>From oocytes to a live birth: Are we improving the biological efficiency?</p>	<p>Riwa Sabbagh, M.D., Sara Mulligan, B.S., Jaimin Shah, M.D., Ann Korkidakis, M.D., M.P.H., Alan Penzias, M.D., Denis Vaughan, M.D., Pasquale Patrizio, M.D., and Denny Sakkas, Ph.D.</p>	<p>Sabbagh, R., Mulligan, S., Shah, J., Korkidakis, A., Penzias, A., Vaughan, D., Patrizio, P., & Sakkas, D. (2023). From oocytes to a live birth: Are we improving the biological efficiency?. <i>Fertility and sterility</i>, 120(6), 1210–1219. https://doi.org/10.1016/j.fertnstert.2023.08.972</p>
<p>Modified natural and optimized programmed frozen embryo transfers have equivalent live birth rates: an analysis of 6,682 cycles</p>	<p>Denis A. Vaughan, Jaimin S. Shah, Alan S. Penzias, Alice D. Domar, Thomas L. Toth</p>	<p>Wolfe, E. L., Vaughan, D., Craig, W., Amaral, B., Penzias, A., Sakkas, D., & Toth, T. L. (2023). Modified natural and optimized programmed frozen embryo transfers have equivalent live birth rates: an analysis of 6,682 cycles. <i>Fertility and sterility</i>, 120(1), 80–88. https://doi.org/10.1016/j.fertnstert.2023.02.020</p>
<p>Acceptance of genetic editing and of whole genome sequencing of human embryos by patients with</p>	<p>Werner M. Neuhausser, Yuval Fouks, Si Won Lee, Anliz Macharia, Insoo Hyun, Eli Y. Adashi, Alan S. Penzias,</p>	<p>Neuhausser, W. M., Fouks, Y., Lee, S. W., Macharia, A., Hyun, I., Adashi, E. Y., Penzias, A. S., Hacker, M. R., Sakkas, D., & Vaughan, D. (2023). Acceptance of genetic editing and of whole genome sequencing of human embryos by patients with</p>

<p>infertility before and after the onset of the COVID-19 pandemic</p>	<p>Michele R. Hacker, Denny Sakkas, Denis Vaughan</p>	<p>infertility before and after the onset of the COVID-19 pandemic. <i>Reproductive biomedicine online</i>, 47(1), 157–163. https://doi.org/10.1016/j.rbmo.2023.03.013</p>
<p>Developing Human Embryos Imaged at High Resolution</p>	<p>Miryam Naddaf</p>	<p>Naddaf M. (2023). Developing human embryos imaged at highest-ever resolution. <i>Nature</i>, 619(7970), 448. https://doi.org/10.1038/d41586-023-02222-3</p>
<p>Compared with conventional insemination, intracytoplasmic sperm injection provides no benefit in cases of nonmale factor infertility as evidenced by comparable euploidy rate</p>	<p>Karishma Patel, M.D., Denis A. Vaughan, M.D., Angie Mae Rodday, Ph.D., M.S., Alan Penzias, M.D., and Denny Sakkas, Ph.D</p>	<p>Patel, K., Vaughan, D. A., Rodday, A. M., Penzias, A., & Sakkas, D. (2023). Compared with conventional insemination, intracytoplasmic sperm injection provides no benefit in cases of nonmale factor infertility as evidenced by comparable euploidy rate. <i>Fertility and sterility</i>, 120(2), 277–286. https://doi.org/10.1016/j.fertnstert.2023.04.020</p>
<p>Global in vitro fertilization utilization: How does the United States compare?</p>	<p>Benjamin J. Peipert, M.D., Eli Y. Adashi, M.D., M.S., Alan Penzias, M.D., Tarun Jain, M.D</p>	<p>Peipert, B. J., Adashi, E. Y., Penzias, A., & Jain, T. (2023). Global in vitro fertilization utilization: How does the United States compare?. <i>F&S reports</i>, 4(3), 326–327. https://doi.org/10.1016/j.xfre.2023.06.005</p>
<p>Dyes illuminate live human embryogenesis</p>	<p>Adel Al Jord, and Marie-Hélène Verlhac</p>	<p>Al Jord, A., & Verlhac, M. H. (2023). Dyes illuminate live human embryogenesis. <i>Cell</i>, 186(15), 3143–3145. https://doi.org/10.1016/j.cell.2023.06.011</p>
		<p>Sakkas, D., Gulliford, C., Ardestani, G., Ocali, O.,</p>

<p>Metabolic imaging of human embryos is predictive of ploidy status but is not associated with clinical pregnancy outcomes: a pilot trial</p>	<p>Denny Sakkas, Colwyn Gulliford, Goli Ardestani, Olcay Ocali, Marion Martins, Nitya Talasila, Jaimin S. Shah, Alan S. Penzias, Emily A. Seidler, and Tim Sanchez</p>	<p>Martins, M., Talasila, N., Shah, J. S., Penzias, A. S., Seidler, E. A., & Sanchez, T. (2024). Metabolic imaging of human embryos is predictive of ploidy status but is not associated with clinical pregnancy outcomes: a pilot trial. <i>Human reproduction (Oxford, England)</i>, 39(3), 516–525. https://doi.org/10.1093/humrep/dead268</p>
<p>Noninvasive metabolic profiling of cumulus cells, oocytes, and embryos via fluorescence lifetime imaging microscopy: a mini-review</p>	<p>Marta Venturas, Xingbo Yang, Denny Sakkas, and Dan Needleman</p>	<p>Venturas, M., Yang, X., Sakkas, D., & Needleman, D. (2023). Noninvasive metabolic profiling of cumulus cells, oocytes, and embryos via fluorescence lifetime imaging microscopy: a mini-review. <i>Human reproduction (Oxford, England)</i>, 38(5), 799–810. https://doi.org/10.1093/humrep/dead063</p>
<p>Essential role of Mg²⁺ in mouse preimplantation embryo development revealed by TRPM7 channel-deficient gametes</p>	<p>Neha Gupta, Cristina Soriano-Úbeda, Paula Stein, Virginia Savy, Brian N Papas, Goli Ardestani, Ingrid Carvacho, Dominique Alfandari, Carmen J Williams, Rafael A Fissore</p>	<p>Gupta, N., Soriano-Úbeda, C., Stein, P., Savy, V., Papas, B. N., Ardestani, G., Carvacho, I., Alfandari, D., Williams, C. J., & Fissore, R. A. (2023). Essential role of Mg²⁺ in mouse preimplantation embryo development revealed by TRPM7 channel-deficient gametes. <i>Cell reports</i>, 42(10), 113232. https://doi.org/10.1016/j.celrep.2023.113232</p>
	<p>Ana Domingo-Muelas, Robin M Skory, Adam A Moverley, Goli Ardestani, Oz Pomp, Carmen Rubio, Piotr Tetlak, Blake Hernandez, Eric A</p>	<p>Domingo-Muelas, A., Skory, R. M., Moverley, A. A., Ardestani, G., Pomp, O., Rubio, C., Tetlak, P., Hernandez, B., Rhon-Calderon, E. A., Navarro-Sánchez, L., García-Pascual, C. M., Bissiere, S.,</p>

<p>Human embryo live imaging reveals nuclear DNA shedding during blastocyst expansion and biopsy</p>	<p>Rhon-Calderon, Luis Navarro-Sánchez, Carmen M García-Pascual, Stephanie Bissiere, Marisa S Bartolomei, Denny Sakkas, Carlos Simón, Nicolas Plachta</p>	<p>Bartolomei, M. S., Sakkas, D., Simón, C., & Plachta, N. (2023). Human embryo live imaging reveals nuclear DNA shedding during blastocyst expansion and biopsy. <i>Cell</i>, 186(15), 3166–3181.e18. https://doi.org/10.1016/j.cell.2023.06.003</p>
<p>The impact of a reminder email on the return to care behavior of infertility patients after a first office visit: A quality improvement project</p>	<p>Alice D. Domar, Daniel Duvall, Natalie Gulrajani, Kristin Rooney</p>	<p>Domar, A. D., Duvall, D., Gulrajani, N., & Rooney, K. (2023). The impact of a reminder email on the return to care behavior of infertility patients after a first office visit: A quality improvement project. <i>Heliyon</i>, 9(9), e19705. https://doi.org/10.1016/j.heliyon.2023.e19705</p>
<p>Reproductive surgery: revisiting its origins and role in the modern management of fertility</p>	<p>Pietro Bortoletto, M.D., M.Sc., Phillip A. Romanski, M.D., M.Sc. John C. Petrozza, M.D., and Samantha M. Pfeifer, M.D</p>	<p>Bortoletto, P., Romanski, P. A., Petrozza, J. C., & Pfeifer, S. M. (2023). Reproductive surgery: revisiting its origins and role in the modern management of fertility. <i>Fertility and sterility</i>, 120(3 Pt 1), 539–550. https://doi.org/10.1016/j.fertnstert.2023.02.031</p>
<p>Making and selecting the best embryo in the laboratory</p>	<p>David K. Gardner, D. Phila, and Denny Sakkas, Ph.D.</p>	<p>Gardner, D. K., & Sakkas, D. (2023). Making and selecting the best embryo in the laboratory. <i>Fertility and sterility</i>, 120(3 Pt 1), 457–466. https://doi.org/10.1016/j.fertnstert.2022.11.007</p>
<p>Simulation-based training for embryo transfer for clinicians with differing levels of</p>	<p>Katherine M. Baker, M.D., Angela Q. Leung, M.D., Jaimin S. Shah, M.D., Ann</p>	<p>Baker, K. M., Leung, A. Q., Shah, J. S., Korkidakis, A., Sakkas, D., Penzias, A., & Toth, T. L. (2022). Simulation-based training for embryo transfer for clinicians with</p>

<p>expertise: an application of the American Society for Reproductive Medicine Embryo Transfer Simulator</p>	<p>Korkidakis, M.D., Denny Sakkas, Ph.D., Alan Penzias, M.D., and Thomas L. Toth, M.D.</p>	<p>differing levels of expertise: an application of the American Society for Reproductive Medicine Embryo Transfer Simulator. <i>F&S reports</i>, 4(1), 29–35. https://doi.org/10.1016/j.xfre.2022.08.002</p>
<p>Supporting patients in the transition to the revised pexidartinib dosing regimen: perspectives from the multidisciplinary clinical and allied health professional team</p>	<p>Colleen McCabe, Hillary Wright, Kathleen Polson and Andrew J. Wagner</p>	<p>McCabe, C., Wright, H., Polson, K., & Wagner, A. J. (2023). Supporting patients in the transition to the revised pexidartinib dosing regimen: perspectives from the multidisciplinary clinical and allied health professional team. <i>Orphanet journal of rare diseases</i>, 18(1), 313. https://doi.org/10.1186/s13023-023-02926-9</p>
<p>The nuclear lamina couples mechanical forces to cell fate in the preimplantation embryo via actin organization</p>	<p>Robin M. Skory, Adam A. Moverley, Goli Ardestani, Yanina Alvarez, Ana Domingo-Muelas, Oz Pomp, Blake Hernandez, Piotr Tetlak, Stephanie Bissiere, Claudio D. Stern, Denny Sakkas & Nicolas Plachta</p>	<p>Skory, R. M., Moverley, A. A., Ardestani, G., Alvarez, Y., Domingo-Muelas, A., Pomp, O., Hernandez, B., Tetlak, P., Bissiere, S., Stern, C. D., Sakkas, D., & Plachta, N. (2023). The nuclear lamina couples mechanical forces to cell fate in the preimplantation embryo via actin organization. <i>Nature communications</i>, 14(1), 3101. https://doi.org/10.1038/s41467-023-38770-5</p>
<p>Deafening Silence of Male Infertility</p>	<p>Catherine S. Nam, Kevin J. Campbell, Chiara Acquati, Raevti Bole, Ava Adler, David J. Collins, Erica Collins, Mary Samplaski, Jake Anderson-Bialis, Juan J. Andino, Denise Asafu-Adjei, Audrey J. Gaskins, Pietro Bortoletto,</p>	<p>Nam, C. S., Campbell, K. J., Acquati, C., Bole, R., Adler, A., Collins, D. J., Collins, E., Samplaski, M., Anderson-Bialis, J., Andino, J. J., Asafu-Adjei, D., Gaskins, A. J., Bortoletto, P., Vij, S. C., Orwig, K. E., & Lundy, S. D. (2023). Deafening Silence of Male Infertility. <i>Urology</i>, 182, 111–</p>

	Sarah C. Vij, Kyle E. Orwig, and Scott D. Lundy	124. https://doi.org/10.1016/j.urolog v 2023.09.018
Intra-patient analysis of individual weight gain or loss between IVF cycles: cycle now and transfer later	Yuval Fouks, Denis A Vaughan, Werner Neuhausser, Yoni Cohen, Alan S Penzias, and Denny Sakkas	Fouks, Y., Vaughan, D. A., Neuhausser, W., Cohen, Y., Penzias, A. S., & Sakkas, D. (2024). Intra-patient analysis of individual weight gain or loss between IVF cycles: cycle now and transfer later. <i>Human reproduction (Oxford, England)</i> , 39(1), 93–101. https://doi.org/10.1093/humre p/dead244

2024

Title

Author(s)

Citation (APA)

<p>Utilization of Cryopreserved Oocytes in Patients With Poor Ovarian Response After Planned Oocyte Cryopreservation</p>	<p>Yuval Fouks, MD, MPH; Denny Sakkas, PhD; Pietro E. Bortoletto, MD, MSc; Alan S. Penzias, MD; Emily A. Seidler, MD; Denis A. Vaughan, MD</p>	<p>Fouks, Y., Sakkas, D., Bortoletto, P. E., Penzias, A. S., Seidler, E. A., & Vaughan, D. A. (2024). Utilization of Cryopreserved Oocytes in Patients With Poor Ovarian Response After Planned Oocyte Cryopreservation. <i>JAMA network open</i>, 7(1), e2349722. https://doi.org/10.1001/jamaneetworkopen.2023.49722</p>
<p>Characterization of multiple human papillomavirus types in the human vagina following ovarian hormonal stimulation</p>	<p>Endrya do Socorro Foro Ramos, Roseane da Silva Couto, Tania Regina Tozetto-Mendoza, Pietro Bortoletto, Erick Matheus Garcia Barbosa, Noely Evangelista Ferreira, Iara M. Linhares, Steven D. Spandorfer, Antonio Charlys da Costa, Elcio Leal, Maria Cassia Mendes-Correa, Steven S. Witki</p>	<p>Foro Ramos, E. D. S., da Silva Couto, R., Tozetto-Mendoza, T. R., Bortoletto, P., Barbosa, E. M. G., Ferreira, N. E., Linhares, I. M., Spandorfer, S. D., da Costa, A. C., Leal, E., Mendes-Correa, M. C., & Witkin, S. S. (2024). Characterization of multiple human papillomavirus types in the human vagina following ovarian hormonal stimulation. <i>Virology journal</i>, 21(1), 229. https://doi.org/10.1186/s12985-024-02507-7</p>