

1. Internal ERA Papers

RCT

A 5-year multicentre randomized controlled trial comparing personalized, frozen and fresh blastocyst transfer in IVF.

Simón, C., Gómez, C., Cabanillas, S., Vladimirov, I., Castellón, G., Giles, et al.
Reproductive BioMedicine Online, 2020; 41(3):402-415.

Prospective studies with clinical outcome after pET

The endometrial receptivity array for diagnosis and personalized embryo transfer as a treatment for patients with repeated implantation failure.

Ruiz-Alonso M, Blesa D, Díaz-Gimeno P, Gómez E, Fernández-Sánchez M, Carranza F, Carrera J, Vilella F, Pellicer A, Simón C.
Fertil Steril. 2013 Sep;100(3):818-24. doi: 10.1016/j.fertnstert.2013.05.004. Epub 2013 Jun 4. PMID:23756099

Retrospective studies with clinical outcome after pET

What a difference two days make: "personalized" embryo transfer (pET) paradigm: a case report and pilot study.

Ruiz-Alonso M, Galindo N, Pellicer A, Simón C.
Hum Reprod. 2014 Jun;29(6):1244-7. doi: 10.1093/humrep/deu070. Epub 2014 Apr 15. PMID:24737781

Window of implantation transcriptomic stratification reveals different endometrial subsignatures associated with live birth and biochemical pregnancy.

Díaz-Gimeno P, Ruiz-Alonso M, Sebastian-Leon P, Pellicer A, Valbuena D, Simón C.
Fertil Steril. 2017 Oct;108(4):703-710.e3. doi: 10.1016/j.fertnstert.2017.07.007. Epub 2017 Aug 30. PMID:28863933

Do clinical outcomes differ for day-5 versus day-6 single embryo transfers controlled for endometrial factor?

Simón, C., Gómez, C., Cabanillas, S., Vladimirov, I., Castellón, G., Giles, et al.
Reprod Biomed Online. 2022 Mar;44(3):478-485.

Other internal publications related to the RA development and research

A genomic diagnostic tool for human endometrial receptivity based on the transcriptomic signature.

Díaz-Gimeno P, Horcajadas JA, Martínez-Conejero JA, Esteban FJ, Alamá P, Pellicer A, Simón C.
Fertil Steril. 2011 Jan;95(1):50-60, 60.e1-15. doi: 10.1016/j.fertnstert.2010.04.063. Epub 2010 Jul 8. PMID:20619403

The accuracy and reproducibility of the endometrial receptivity array is superior to histology as a diagnostic method for endometrial receptivity.

Díaz-Gimeno P, Ruiz-Alonso M, Blesa D, Bosch N, Martínez-Conejero JA, Alamá P, Garrido N, Pellicer A, Simón C.
Fertil Steril. 2013 Feb;99(2):508-17. doi: 10.1016/j.fertnstert.2012.09.046. Epub 2012 Oct 23. PMID:23102856

The impact of using the combined oral contraceptive pill for cycle scheduling on gene expression related to endometrial receptivity.

Bermejo A, Iglesias C, Ruiz-Alonso M, Blesa D, Simón C, Pellicer A, García-Velasco J.
Hum Reprod. 2014 Jun;29(6):1271-8. doi: 10.1093/humrep/deu065. Epub 2014 Apr 4. PMID:24706003

Timing the window of implantation by nucleolar channel system prevalence matches the accuracy of the endometrial receptivity array.

Nejat EJ, Ruiz-Alonso M, Simón C, Meier UT.

Fertil Steril. 2014 Nov;102(5):1477-81. doi: 10.1016/j.fertnstert.2014.07.1254. Epub 2014 Sep 17. PMID:25241377

Impact of final oocyte maturation using gonadotropin-releasing hormone against triggering and different luteal support protocols on endometrial gene expression.

Bermejo A, Cerrillo M, Ruiz-Alonso M, Blesa D, Simón C, Pellicer A, Garcia-Velasco JA.

Fertil Steril. 2014 Jan;101(1):138-146.e3. doi: 10.1016/j.fertnstert.2013.09.033. Epub 2013 Oct 29. PMID:24182413

Is endometrial receptivity transcriptomics affected in women with endometriosis? A pilot study.

Garcia-Velasco JA, Fassbender A, Ruiz-Alonso M, Blesa D, D'Hooghe T, Simon C.

Reprod Biomed Online. 2015 Nov;31(5):647-54. doi: 10.1016/j.rbmo.2015.07.014. Epub 2015 Aug 11. PMID:26385059

Intrauterine human chorionic gonadotropin infusion in oocyte donors promotes endometrial synchrony and induction of early decidual markers for stromal survival: a randomized clinical trial.

Strug MR, Su R, Young JE, Dodds WG, Shavell VI, Díaz-Gimeno P, Ruíz-Alonso M, Simón C, Lessey BA, Leach RE, Fazleabas AT.

Hum Reprod. 2016 Jul;31(7):1552-61. doi: 10.1093/humrep/dew080. Epub 2016 Apr 26. PMID:27122490

Does an increased body mass index affect endometrial gene expression patterns in infertile patients? A functional genomics analysis.

Comstock IA, Diaz-Gimeno P, Cabanillas S, Bellver J, Sebastian-Leon P, Shah M, Schutt A, Valdes CT, Ruiz-Alonso M, Valbuena D, Simon C, Lathi RB.

Fertil Steril. 2017 Mar;107(3):740-748.e2. doi: 10.1016/j.fertnstert.2016.11.009. Epub 2016 Dec 2. PMID:27919438

Window of implantation is significantly displaced in patients with adenomyosis with previous implantation failure as determined by endometrial receptivity assay.

Mahajan N, Kaur S, Ruiz-Alonso M.

Journal of human reproductive sciences. 2018; 11(4):353.

Effect of mifepristone on the transcriptomic signature of endometrial receptivity.

von Grothusen C, Lalitkumar PG, Ruiz-Alonso M, Boggavarapu NR, Navarro R, Miravet-Valenciano J, Gemzell-Danielsson K, Simon C.

Hum Reprod. 2018 Aug 22. doi: 10.1093/humrep/dey272. [Epub ahead of print] PMID: 30137464

Inter-cycle consistency versus test compliance in endometrial receptivity analysis test.

Stankewicz T, Valbuena D, Ruiz-Alonso M.

J Assist Reprod Genet. 2018 May 26. doi: 10.1007/s10815-018-1212-7

2.Independent ERA Papers

Meta-Analysis

The Clinical Efficacy of Personalized Embryo Transfer Guided by the Endometrial Receptivity Array/Analysis on IVF/ICSI Outcomes: A Systematic Review and Meta-Analysis.

Liu et al

Front Physiol. 2022;13:841437. Published 2022 Apr 27. doi:10.3389/fphys.2022.841437.

Prospective studies with clinical outcome after pET

Role of endometrial receptivity array for implantation failure in in-vitro fertilization & intracytoplasmic sperm injection.

Nafees R. et al

Biomedica, 37(4), 220-226.

Retrospective studies with clinical outcome after pET

Live birth after embryo transfer in an unresponsive thin endometrium.

F. Cruz, J. Bellver.

Gynecol Endocrinol. 2014 Jul;30(7):481-4. doi: 10.3109/09513590.2014.900747. Epub 2014 Mar 20.

Endometrial receptivity array: Clinical application.

Mahajan N.

J Hum Reprod Sci. 2015 Jul-Sep;8(3):121-9. doi: 10.4103/0974-1208.165153. Review. PMID:26538853

Efficacy of the endometrial receptivity array for repeated implantation failure in Japan: A retrospective, two-centers study.

Hashimoto T, Koizumi M, Doshida M, Toya M, Sagara E, Oka N, Nakajo Y, Aono N, Igarashi H, Kyono K. Reprod Med Biol. 2017 Jun 27;16(3):290-296. doi: 10.1002/rmb2.12041. eCollection 2017 Jul. PM

The role of endometrial receptivity array (ERA) in patients who have failed euploid embryo transfers.

Tan J, Kan A, Hitkari J, Taylor B, Tallon N, Warrach G, Yuzpe A, Nakhuda G.

J Assist Reprod Genet. 2018;35(4):683-692. doi:10.1007/s10815-017-1112-2.

Does the endometrial receptivity array really provide personalized embryo transfer?

Bassil R. et al

J Assist Reprod Genet. 2018; 35(7):1301-1305.

Personalized Embryo Transfer Helps in Improving In vitro Fertilization/ICSI Outcomes in Patients with Recurrent Implantation Failure.

Patel JA, Patel AJ, Banker JM, Shah SI, Banker MR. J

Hum Reprod Sci. 2019; 12(1):59-66. doi: 10.4103/jhrs.JHRS_74_18.

Endometrial Receptivity Analysis - a tool to increase an implantation rate in assisted reproduction.

Hromadová L; Tokareva I; Veselá K; Trávník P; Veselý J.

Ceska Gynekol. 2019; 84(3): 177-183.

What is the clinical impact of the endometrial receptivity array in PGT-A and oocyte donation cycles?

Neves AR. et al

J Assist Reprod Genet. 2019; 36: 1901

Evaluation of the endometrial receptivity assay and the preimplantation genetic test for aneuploidy in overcoming recurrent implantation failure.

Cozzolino M. et al

J Assist Reprod Genet. 2020; 37(12):2989-2997.

Comparing endometrial receptivity array to histologic dating of the endometrium in women with a history of implantation failure.

Cohen AM. et al

Syst Biol Reprod Med. 2020; 66(6):347-354.

Does personalized embryo transfer based on ERA improve the outcomes in patients with thin endometrium and RIF in Self Versus Donor Programme?

Selvaraj P. et al

Journal of Gynecological Research and Obstetrics, 6(3), 076-080.

Clinical utility of the endometrial receptivity analysis in women with prior failed transfers.

Eisman LE. et al

J Assist Reprod Genet. 2021; 38(3):645-650.

Evaluation of Pregnancy Outcomes of Vitrified-Warmed Blastocyst Transfer before and after Endometrial Receptivity Analysis in Identical Patients with Recurrent Implantation Failure.

Kasahara Y. et al

Fertility & Reproduction. 2020; 3(2):35-41.

The use of propensity score matching to assess the benefit of the endometrial receptivity analysis in frozen embryo transfers.

Bergin K. et al

Fertil Steril. 2021; 116(2):396-403.

Role of endometrial receptivity array in current implantation failure.

Samadhiya R. et al

Fertility Science and Research, 8(2), 180.

Comparison of the Effectiveness of Endometrial Receptivity Analysis (ERA) to Guide Personalized Embryo Transfer with Conventional Frozen Embryo Transfer in 281 Chinese Women with Recurrent Implantation Failure.

Jia et al

Med Sci Monit. 2022;28:e935634. Published 2022 Mar 22. doi:10.12659/MSM.935634.

Case report

Live birth after embryo transfer in an unresponsive thin endometrium.

Cruz F., Bellver J.
Gynecol Endocrinol. 2014; 30(7):481-4.

Different Endometrial Receptivity in Each Hemiuterus of a Woman With Uterus Didelphys and Previous Failed Embryo Transfers.

Carranza F, González-Ravina A, Blasco V, Fernández-Sánchez M. J
Hum Reprod Sci. 2018;11(3):297- 299. doi: 10.4103/jhrs.JHRS_113_18.

Why results of endometrial receptivity assay testing should not be discounted in recurrent implantation failure?

Simrandeep K., Padmaja N.
The Onco Fertility Journal. 2019; 2(1): 46-49.

The Reproductive Outcomes for the Infertile Patients with Recurrent Implantation failures May be improved by Endometrial Receptivity Array Test.

Ota, T., Funabiki, M., Tada, Y., Karita, M., Hayashi, T., Maeda, K. et al.
Journal of Medical Cases. 2019; 10(5), 138-140. doi: <https://doi.org/10.14740/jmc3282>

Letter to editor

Inpatient variability in the endometrial receptivity assay (ERA) test.

Cho K. et al
J Assist Reprod Genet. 2018; 35(5):929-930.

Variations in the Endometrial Receptivity Assay (ERA) May Actually Represent Test Error.

Dahan MH. et al
J Assist Reprod Genet. 2018; 35(10):1923-1924.

3. Abstracts

2016

Endometrial thickness does not predict endometrial receptivity.

Valbuena D. et al

ESHRE poster

2017

Endometrial injury does not affect the endometrial transcriptomic.

Miravet J. et al

ESHRE poster

2018

El perfil de receptividad endometrial no está asociado al origen étnico de la paciente.

Ruiz-Alonso M. et al

SEF poster

Consistencia del diagnóstico de receptividad endometrial. Caso clínico.

Ruiz-Alonso M. et al

SEF poster

Improved pregnancy rates following endometrial receptivity analysis and personalized embryo transfer in patients with previous failed implantation after euploid embryo transfer.

Leondires M. et al

ESHRE poster

What is the real length of the window of implantation (WOI) in humans?

Rincon A. et al

ESHRE poster

Endometrial receptivity analysis (ERA) using a next generation sequencing (NGS) predictor improves reproductive outcome in recurrent implantation (RIF) patients when compared to ERA arrays.

Clemente-Ciscar M. et al

ESHRE oral communication

Obesity affects endometrial receptivity by inducing a displacement of the personalized WOI that after correction by personalized embryo transfer normalize clinical results.

Bellver J. et al

ASRM oral communication