

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

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.

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

Stankewicz T, Ruiz-Alonso M, Soler-Ibañez M, Simón C, Valbuena D.
Reprod Biomed Online. 2022 Mar;44(3):478-485.

Other internal publications related to the ERA 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. PMID25241377

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, Ruiz-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

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

SUPPORTING ERA

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 Z, Liu X, Wang M, Zhao H, He S, Lai S. 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, Khan H, Khan Y, Awais A, Farooqi M, Nissar R.

Biomedica, 37(4), 220-226.

Retrospective studies with clinical outcome after pET

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, Warraich G, Yuzpe A, Nakhuda G.

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

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 Gynecol. 2019; 84(3): 177-183.

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

Selvaraj P, Selvaraj K, Sivakumar M, Chandrasekar H, Srinivasan V.

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

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

Eisman LE, Pisarska MD, Wertheimer S, Chan JL, Akopians AL, Surrey M. 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, Hashimoto T, Yokomizo R, Takeshige Y, Yoshinaga K, Toya M. et al
Fertility & Reproduction. 2020; 3(2):35-41.

Role of endometrial receptivity array in current implantation failure.

Samadhiya R, Swarnkar G, Singh A, Chittawar P.
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 Y, Sha Y, Qiu Z, Guo Y, Tan A, Huang Y. 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>