



BioER | ENDOMETRIAL RECEPTIVITY TEST

PRECISION EMBRYO TRANSFER

BioER determines the functional stage of the endometrium in order to schedule the embryo transfer on the most suitable date, consequently increasing the chances of embryo implantation and pregnancy.

WHAT IS BioER FOR?

A woman's endometrium is receptive when it is ready for the embryo implantation, which generally occurs between days 19-21 of every menstrual cycle. This receptivity interval is known as **window of implantation** and takes place 7 days after the endogenous LH peak (LH+7). Performing the embryo transfer outside this window is one of the causes for **recurrent implantation failure**.

Approximately 30% of the patients have a shifted window of implantation. Detecting this situation allows **to adapt the embryo transfer for the optimal time of each patient**, thus preventing implantation failures.








WHEN IS BioER INDICATED?

For any assisted reproduction treatment **BioER** will provide clinically useful information regarding the status of the patient's window of implantation. This being valuable to schedule the embryo transfer in a personalized manner.

It is specially indicated for couples who, even if having good morphology and/or chromosomally normal (PGT-A) embryos, they experience recurrent implantation failure, since a shift in the window of implantation may be the underlying cause.

HOW IS IT PERFORMED?

BioER requires an endometrial biopsy obtained 7 days post endogenous LH peak (LH+7) if a natural cycle, or 5.5 days after the first progesterone dose (P+5.5) in a hormone replacement cycle. The biopsy is smoothly obtained by a gynecologist and sent in the cryotube provided by **Bioarray**.

-  1. ENDOMETRIAL BIOPSY ON DAY P+5,5 / LH+7
-  2. PLACEMENT IN THE BioER CRYOTUBE
-  3. STORAGE AT 4°C (FOR AT LEAST 4 HOURS)
-  4. SHIPMENT AT ROOM TEMPERATURE
-  5. RNA HIGH THROUGHPUT SEQUENCING
-  6. RESULTS IN 10-15 DAYS
-  7. PRECISELY SCHEDULED EMBRYO TRANSFER

- BioER** is a more sensitive and objective test than the classical endometrial dating method, based on histological criteria, with a high level of subjectivity.
- BioER** analyzes the expression of more than **300 genes** associated with endometrial receptivity and immune response linked to embryo implantation.
- BioER** is optimized for the use with patients of any ethnic background.
- Recent research has shown 51-63% pregnancy rates in patients with previous recurrent implantation failure who have used an endometrial receptivity test.
- Bioarray** has captured in **BioER** over ten years of experience in the development of gene expression assays (transcriptomics).