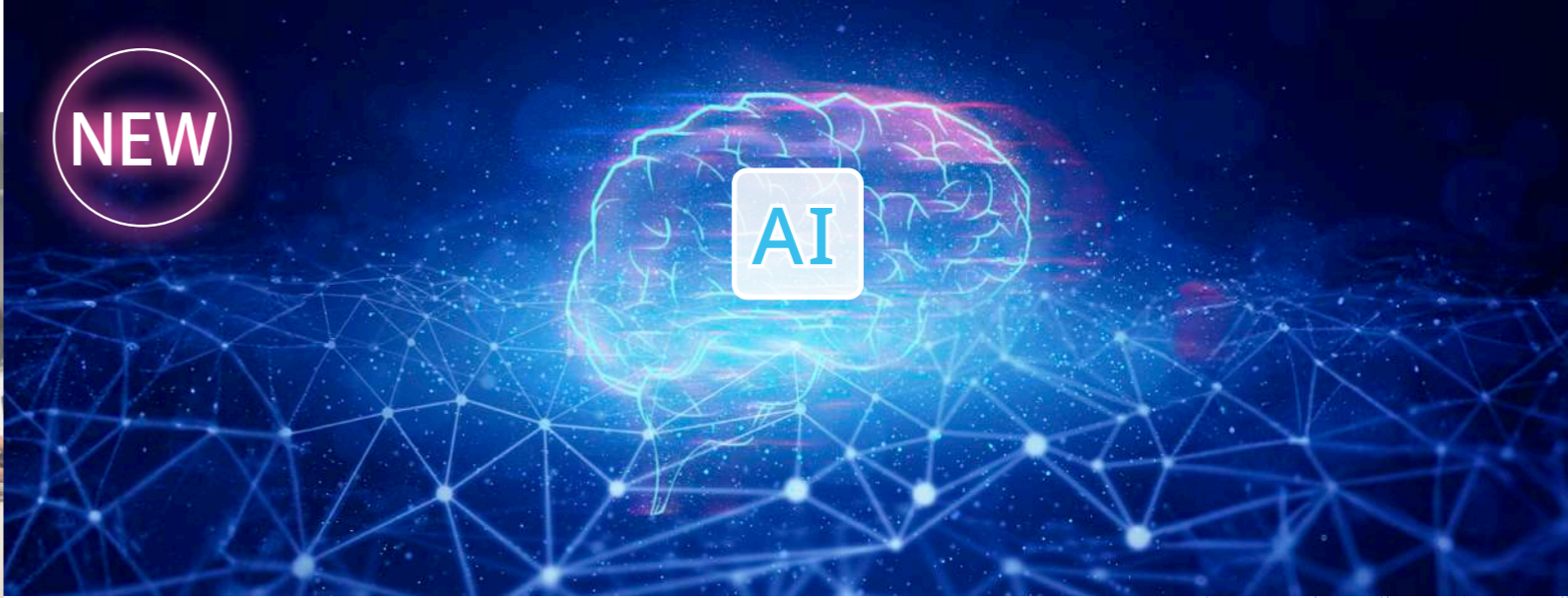


- This product is a service provided by UK-based IVF2.0.
It can be used with an inverted microscope, a PC, and an internet connection.
For more details, please refer to the specifications below.
- SiD™ and ERICA™ are sold as a set under an annual contract and can be used without limitations on image volume or data capacity. They are not available for purchase separately.
- SiD™ exclusively links with external cameras and does not retrieve data from the PC
- ERICA™ requires embryo images to be uploaded via the internet, but personal information is not required. Additionally, the data is strongly encrypted for security.
- Handling of personal information complies with GDPR and HIPAA.



IVF 2.0

Advanced Sperm Selection AI



SiD
SPERM SELECTION ASSISTANT
BY IVF 2.0 LIMITED

Blastocyst Grading AI



ERICA
EMBRYO RANKING INTELLIGENT CLASSIFICATION ASSISTANT

Recommended PC Specifications and Connectivity

SiD™

- **OS** : Windows10 or more
(Minimum requirements : Updated Windows 8.1 or later)
- **CPU** : Intel Core i7-12700 or higher
(Minimum requirements: Intel Core i5 with 8GB RAM, 4 multi-threaded cores, or 8 single cores)
*Series with T, F, P, or Y at the end, such as Intel Core i5-9400T,
do not have integrated graphics unless the computer has a dedicated GPU.
It is recommended to have a GPU (Nvidia RTX3060 or higher)
- **Memory** : 16GB RAM or more
- **Storage** : SSD or NVME storage (10GB of available space for software use)
- **Must be compatible with microscope capture function installed** (Equipped with DirectX)
- **The following devices have been confirmed to be compatible.**
 - Hamilton Thorn
 - WAT-902H Ultimate
 - OCTAX 1.3 MPixel
 - LUMENERA LW1135c
 - Octax EYE Camera
 - JAI

ERICA™

PC capable of transferring images over the internet and within the hospital network.

For a free trial and service consultation,
please apply from the product website.

<https://kitazato.co.jp/en/products/SiD-ERICA/>



Kitazato Corporation
◀ SiD™/ERICA™ Product website

Specification may change without pre-notice for purpose of product improvement.

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ver. 1.0_01 2025.3.14

Inquiries/orders regarding products

Kitazato Corporation

TOKYO : 1-1-8 Shibadaimon, Minato-ku, Tokyo 105-0012 JAPAN

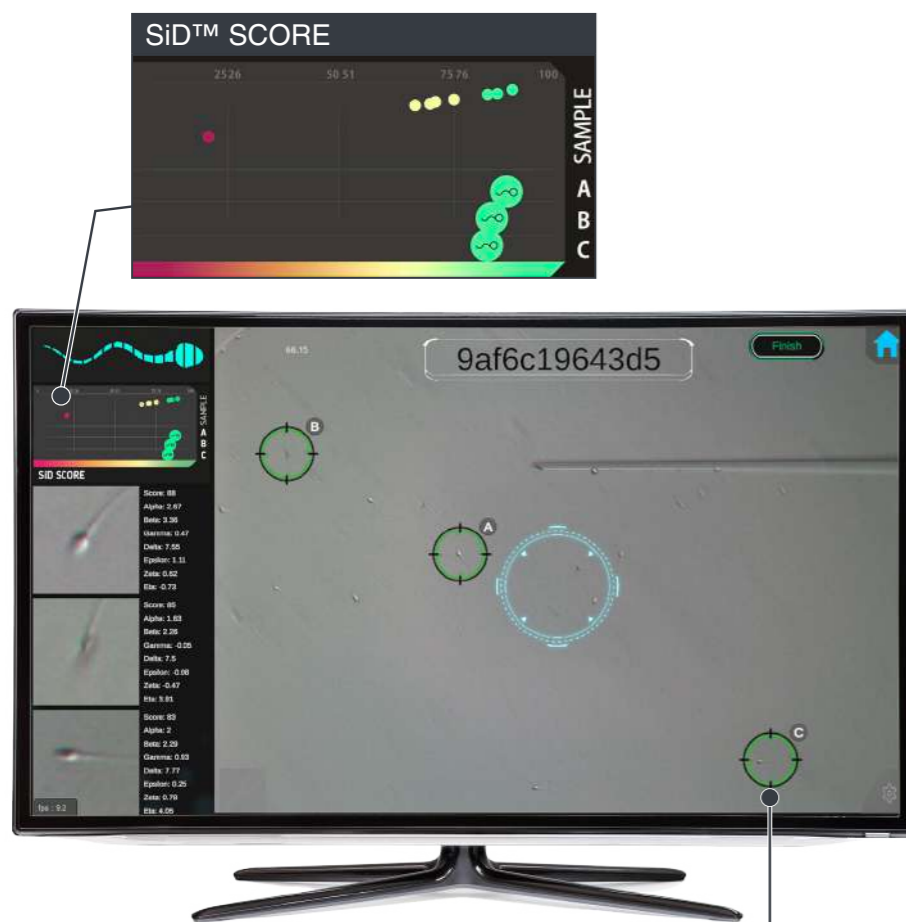
URL <https://www.kitazato.co.jp/> **Mail** contact@kitazato.co.jp

KITAZATO®

Advanced Sperm Selection AI

Real-time sperm detection and tracking AI software that automatically selects high-quality sperm based on motion parameters and ranks them.

- Reduced work time
- Consistent sperm selection
- Decreased variability in subjective assessment
- Improved fertilization and blastocyst formation rate
- Clear selection criteria, and easy patient explanation
- Selection from a wide field at low magnification
- Simple installation



Classified into 4 levels, the top 3 sperm displayed.

Best Good Medium Low

Real-time automatic detection criteria:

Utilizing straight-line speed (VSL), curvilinear velocity (LIN), and head movement frequency (HMP) to calculate a unique SiD™ score and select the top three within the field of view.

The excellent parameters presented by SiD™ ensure to lead good fertilization and blastocyst formation rates.

Using SiD™ resolves challenges related to embryologist proficiency leading to improved and stabilized outcomes.

Table 1:
Comparison of ICSI Results after Sperm Selection
by SiD™ and Embryologists

	SiD™ (n=326)	ICSI (n=320)
Fertilization Rate	83.1%	82.4%
Cleavage Rate	97.6%	97.2%
Day2 Embryo Development Rate	70.6%	74.6%
Day3 Embryo Development Rate	72.9%	70.6%
Blastocyst Development rate on day5	49.0%	44.8%
Good-quality blastocyst development rate on day5	45.1%	41.5%

Sperm selection using SiD™ demonstrates comparable outcomes to those of embryologists.

Please watch the demo video
for a better understanding.



REFERENCE :

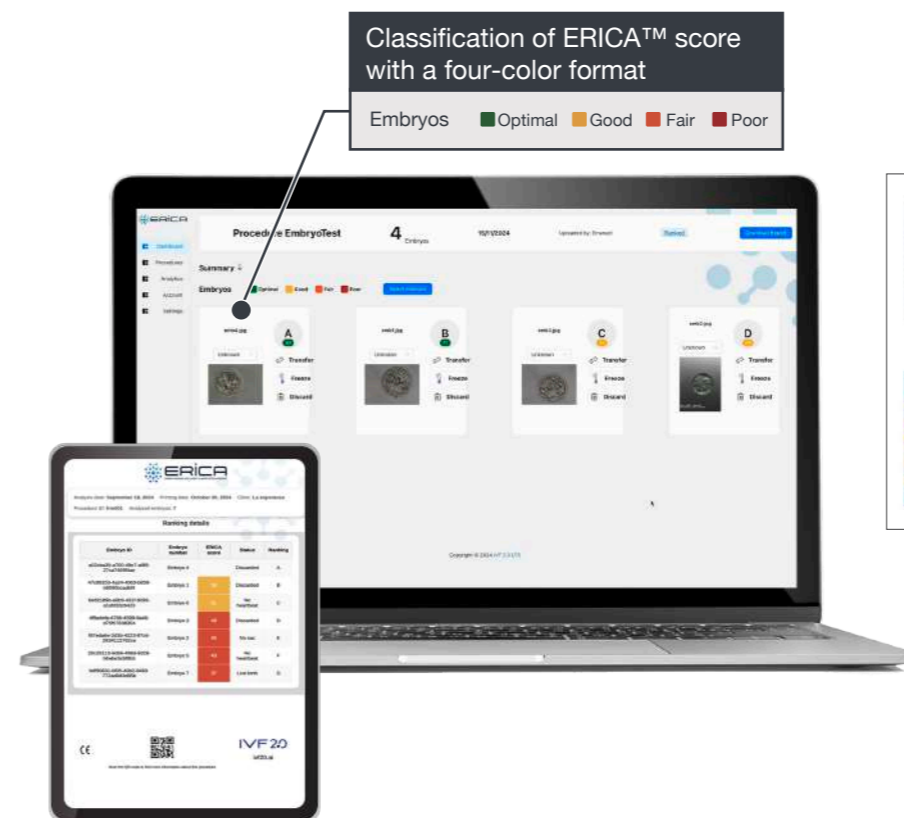
Montjean, D. et al. Automated Single-Sperm Selection Software (SiD) during ICSI: A Prospective Sibling Oocyte Evaluation. Medical Sciences 12, 19 (2024).
Mendizabal-Ruiz, G. et al. Computer software (SiD) assisted real-time single sperm selection associated with fertilization and blastocyst formation. Reprod. Biomed. Online 45, 703–711 (2022).

AI for Automatic Blastocyst Grading

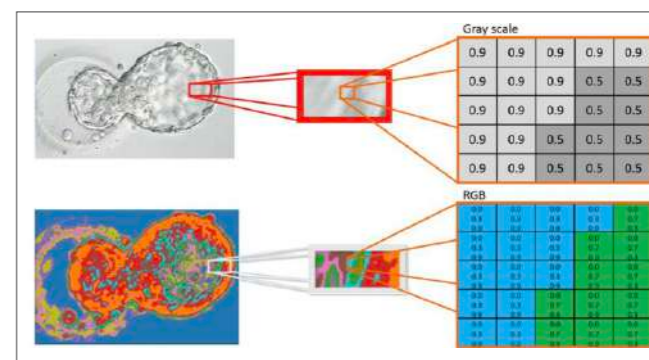
ERICA™ is an artificial intelligence application trained to look for aneuploidy and implantation potential that is specifically designed to assist reproductive medicine clinicians to select the best embryo for transfer. ERICA™ analyzes computerized image data for each embryo and provides a ranking.

Classification of ERICA™ score
with a four-color format

Embryos Optimal Good Fair Poor



- Automatic report generation
- Non-invasive evaluation
- Embryo selection support
- No additional hardware purchase



ERICA™ identifies and evaluates more than 100 morphological features of embryos that cannot be detected through microscope observation alone, scoring and ranking them accordingly.

Miscarriage Rates Classified by ERICA™ Score

Classification	ERICA™ Score	Miscarriage Rate* (%) (n=506)
Optimal	Above 70	11.2
Good	50 to 69	17.9
Fair	30 to 49	22.2
Poor	Less than 30	22.9

*Average age 35.4 years.

Blastocysts with higher ERICA™ scores have a lower early miscarriage rate (before 9 weeks of pregnancy).

ERICA™ analyzes blastocyst images to predict embryo euploidy with ERICA™ score, which is displayed in a four-color format. By helping to identify embryos with higher implantation potential, it is expected to improve pregnancy and live birth rates while reducing miscarriage rates. ERICA™ also helps simplify daily operations by reducing the workload of embryo selection for transfer.

Upload images from your microscope or time-lapse system to obtain results quickly. In addition to evaluating expanded blastocysts on Day 5-6, ERICA™ also assesses hatching blastocysts, providing broader applicability in clinical practice.



REFERENCE :

Chavez-Badiola, A. et al. O-235 ERICA (Embryo Ranking Intelligent Classification Assistant) AI predicts miscarriage in poorly ranked embryos from one static, non-invasive embryo image assessment. Hum. Reprod. 36, (2021).
Glatstein, I., Chavez-Badiola, A. & Curchoe, C. L. New frontiers in embryo selection. J. Assist. Reprod. Genet. 40, 223–234 (2023).
Chavez-Badiola, A. et al. Predicting pregnancy test results after embryo transfer by image feature extraction and analysis using machine learning. Sci. Rep. 10, 4394 (2020).
Farias, A. F.-S. et al. Automated identification of blastocyst regions at different development stages. Sci. Rep. 13, 15 (2023).
Chavez-Badiola, A., Flores-Saiffe-Farias, A., Mendizabal-Ruiz, G., Drakeley, A. J. & Cohen, J. Embryo Ranking Intelligent Classification Algorithm (ERICA™): artificial intelligence clinical assistant predicting embryo ploidy and implantation. Reprod. Biomed. Online 41, 585–593 (2020).
Chavez-Badiola, A. et al. ERICA™ (Embryo Ranking Intelligent Classification Assistant) AI predicts miscarriage in poorly ranked embryos from one static, non-invasive embryo image assessment. Hum.Reprod. 36.i135(2021)

Please watch the demo video
for a better understanding.

