

Life Whisperer Viability

A CLEARER PICTURE OF EMBRYO VIABILITY

Select viable embryos with confidence

Improve embryo selection with Life Whisperer Viability, an objective, non-invasive web application based on artificial intelligence (AI) to assess Day 5 embryo morphological features correlating with the likelihood of clinical pregnancy—including those invisible to the human eye.



Objective

Increased consistency, accuracy & confidence

Receive a confidence score from 0 to 10 correlating with the likelihood of clinical pregnancy and improve selection of viable embryos by up to 25%¹ vs. embryologist assessment

Easy-to-Use

Drag-and-drop functionality helps you make key decisions almost instantly

Image-based drag and drop functionality helps you make key decisions almost instantly

Cost-Effective

No expensive equipment, maintenance, or subscription fees

No capital outlay is required with minimal to no disruption to the IVF workflow

Gain a clearer picture of embryo viability

Grading embryos is a necessary step in evaluating embryo viability in order to achieve successful implantation. Traditional methods rely on subjective manual assessment that can result in inconsistent grading. Life Whisperer Viability may help improve selection of viable embryos by up to 25% above embryologist efforts¹ by delivering objective assessment of embryo viability.

Improve embryo selection by up to 25%¹

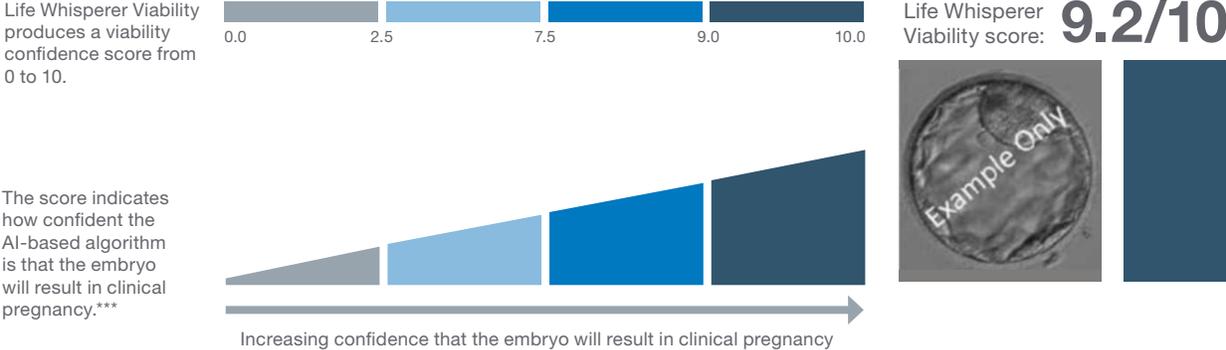
Figure 1. Life Whisperer Viability vs. Standard Embryo Grading

	Life Whisperer Viability Accuracy	Embryologist Accuracy (Gardner Grading Method)
Blind Test (n=801):	474 correct	380 correct
Accuracy:*	59.2%	47.4%
Accuracy Improvement:**	24.7%	

Objective embryo assessment for predicting the likelihood of clinical pregnancy

Life Whisperer Viability produces a confidence score from 0 to 10. The score indicates how confident the AI-based algorithm is in determining if the embryo will lead to a successful clinical pregnancy.

Figure 2. What Does Your Report Tell You About Your Embryo Viability Status



A demonstrated sensitivity of 70.1% for viable embryos, a specificity of 60.5% for nonviable embryos, and overall accuracy of 64.3% was seen across three independent blind test sets from multiple clinics.¹

Figure 3. Life Whisperer Viability Provides a High Level of Sensitivity for Embryo Selection

n=1667	Percentage
Sensitivity: # of embryos correctly predicted as Viable	70.1%
Specificity: # of embryos correctly predicted as Nonviable	60.5%
Overall Accuracy: * # of embryos that were correctly predicted as either Viable or Nonviable	64.3%

Easy-to-use technology

Life Whisperer Viability harnesses an AI-based algorithm to deliver a stress-free and non-invasive method to assist in embryo selection. The software is intuitive and very easy to use—simply drag and drop an image into the application for analysis and receive a confidence score in less than one minute.

*The theoretical maximum accuracy for prediction of this endpoint based on evaluation of embryo quality is estimated to be ~80%, with the remaining 20% affected by patient-related clinical factors, such as endometriosis, or laboratory process errors in embryo handling, etc., that could lead to a negative pregnancy outcome despite a morphologically favorable embryo appearance.²

**Accuracy improvement = $\frac{(\text{Life Whisperer Viability accuracy} - \text{embryologist accuracy})}{\text{embryologist overall accuracy}} \times 100\%$

***The confidence score reflects the confidence of the AI-based algorithm that the embryo may or may not result in clinical pregnancy. It does not provide any information on the probability of a live birth. The accuracy of the Life Whisperer Viability prediction does not take into account any patient-specific factors that may influence pregnancy outcome.

Affordable technology you can implement today

With a user-friendly interface and cloud-based web platform, Life Whisperer Viability enables you to bring AI-based technology to the bench without complicated equipment or additional costs. A standard optical light microscope, camera, and internet access are all you need to bring Life Whisperer Viability into your embryo assessment workflow.



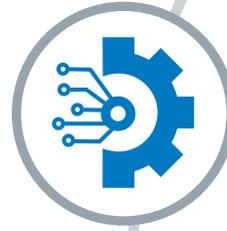
IVF labs across the globe are constantly challenged to best identify embryos which will successfully develop into healthy children. Used as a non-invasive adjunct tool to help select embryos with the highest potential for success, the Life Whisperer AI technology will certainly assist in this critical selection process.

*Matthew VerMilyea PhD, HCLD/CC (ABB),
Vice President of Scientific Advancement – Ovation Fertility;
Scientific Director – Texas Fertility Centers;
Laboratory and Operations Director – Ovation Fertility Austin & San Antonio*

Developed using embryo images with known clinical pregnancy outcomes determined through fetal heartbeat detection.



The AI-based algorithm was developed using >20,000 globally sourced 2D embryo images.



Diverse data sourced globally from 16 leading IVF clinics ensures unbiased, accurate embryo assessment.



Compliant with HIPAA and GDPR, and ISO-13485 certified. Regional cloud servers and high encryption standards ensure data stays safe.



Life Happens in a Moment

Life Whisperer Viability is a software application for assessment of embryo images, intended to be used for clinical decision support to aid in the selection of embryos during in vitro fertilization (IVF) procedures. Not intended to be used as direct diagnostics. Any treatment decisions should be made in combination with other methods of embryo evaluation, and the user's own expert opinion, according to institutional procedure.

References:

1. VerMilyea M, Hall JMM, Diakiw SM, et al. Development of an artificial intelligence-based assessment model for prediction of embryo viability using static images captured by optical light microscopy during IVF. Hum Reprod. 2020;35(4):770-784.
2. Annan JJ, Gudi A, Bhide P, Shah A, Homburg R. Biochemical pregnancy during assisted conception: a little bit pregnant. J Clin Med Res. 2013;5(4):269-274.

Ask us how Life Whisperer Viability can help you improve embryo selection. Contact your FUJIFILM Irvine Scientific representative today at lifewhisperer@fujifilm.com to learn more.

www.irvinesci.com

FUJIFILM
Value from Innovation

 IrvineScientific

Available from FUJIFILM Irvine Scientific, sole worldwide distributor, in select regions of Europe and Asia Pacific. Life Whisperer Viability is not authorized for sale in the US.

FUJIFILM Irvine Scientific and its logo are registered trademarks of FUJIFILM Irvine Scientific, Inc. in various jurisdictions. All other trademarks are the property of their respective owners.

©2021 FUJIFILM Irvine Scientific P/N 011936 Rev.00

FUJIFILM Irvine Scientific – Corporate
1830 E Warner Avenue, Santa Ana, CA 92705 USA
Phone: 1 (949) 261-7800
Toll Free: 1 (800) 437-5706
Fax: 1 (949) 261-6522
Support: fisitmrequest@fujifilm.com