



Life Whisperer Viability AI-Assisted Embryo Selection Frequently Asked Questions

What is Life Whisperer Viability?

Life Whisperer Viability uses artificial intelligence (AI) based analysis to assess embryo viability. It identifies morphological features of embryos that correlate with the likelihood of clinical pregnancy, including those invisible to the human eye. Life Whisperer Viability gives a score to each embryo to assist in selecting embryos with the greatest likelihood of clinical pregnancy.

How does it work?

Life Whisperer Viability is a web application. Embryo images for a given patient can be dragged and dropped onto the application where the AI-based algorithm scores the embryos in real time. The score is a value from 0 – 10, where 10 denotes the highest quality embryo with the greatest likelihood of clinical pregnancy. The analysis completes in less than a minute.

How will my patients benefit from Life Whisperer Viability?

Patients benefit by improved selection of the most suitable embryo for transfer first time round, meaning a shortened time to pregnancy, and reduced emotional and financial stress. A printed or electronic report of the AI-based assessment can be provided to your patient, enabling transparency of the embryo selection process, confidence in the use of an evidence-based approach, and a great value added service to better connect with your patients.

How will my clinic benefit from Life Whisperer Viability?

Life Whisperer Viability standardizes and improves embryo assessment for clinics, with the potential to reduce time to pregnancy for patients. This in turn can improve IVF success rates and allow clinics to service more patients. Life Whisperer Viability is provided at no cost to clinics and there is no requirement for specialized hardware. Life Whisperer Viability also allows clinics to market the use of cutting-edge AI-based technology to improve patient outcomes.

Are there published studies for Life Whisperer Viability?

Yes, we care about publishing our research and clinical studies. We often present at key fertility conferences including ASRM and ESHRE, and have a seminal publication in Human Reproduction published in 2020 entitled “Development of an artificial intelligence-based assessment model for prediction of embryo viability using static images captured by optical light microscopy during IVF, by VerMilyea et al.”

When should I use Life Whisperer Viability?

Life Whisperer Viability is a Day 5 embryo application. Images of blastocyst-stage embryos on Day 5 are required and should be taken prior to embryo freezing or biopsy. The results can be used to inform embryo selection for fresh transfer or for future freeze-thaw cycles. Life Whisperer Viability works best when the image is taken as close as possible to the time of transfer (or time of freezing, if not performing fresh transfer).

Is it the same as embryo grading?

Life Whisperer Viability is not the same as standard embryo morphology grading. Life Whisperer Viability uses an AI-based algorithm that has been trained on a dataset of thousands of embryo images where ground-truth clinical pregnancy outcomes were known. The application was developed and tested on a globally diverse dataset of images from multiple clinics in multiple regions, where images were taken using multiple cameras and imaging systems. When compared with traditional morphological grading methods, Life Whisperer Viability can improve the accuracy at predicting pregnancy outcome by up to 25%. The AI-based technology approach provides a robust, evidence-based, objective assessment of embryo quality.

Does Life Whisperer Viability replace Embryologist assessment?

No, Life Whisperer Viability is a clinical decision support tool that removes subjectivity and provides an additional objective assessment of embryo quality. This can be used by the embryologist, together with their own expert scientific knowledge, to make the best possible decision about which embryo to transfer.

Should Life Whisperer Viability be used if I am conducting PGT-A?

Yes. Life Whisperer Viability uses AI-based analysis to assess Day 5 embryo morphology features that correlate with the likelihood of clinical pregnancy, including those invisible to the human eye. The potential for clinical pregnancy is not the same as genetic integrity, which is measured by PGT-A. Life Whisperer Viability should be used prior to embryo biopsy to select embryos with the greatest likelihood of clinical pregnancy for PGT-A assessment.

Does Life Whisperer Viability require time-lapse equipment?

No, Life Whisperer Viability is a web-based application that does not require any specialized hardware, just an account login. It does not require specific incubators or costly imaging equipment. Images from standard camera and optical microscopes are sufficient to run the analysis. Life Whisperer Viability can, however, also be used with images extracted from time-lapse equipment.

How is Life Whisperer Viability different from time-lapse imaging for embryo selection?

Time-lapse imaging provides standardized, uninterrupted embryo culture and image capture by use of specialized incubators. It is useful for tracking and predicting embryo development through to blastocyst stage, and has some ability to predict the likelihood of clinical pregnancy based on developmental parameters. By contrast, the Life Whisperer Viability AI-based analysis is independent of developmental chronology. It provides an end-point analysis of the likelihood of clinical pregnancy at the time the image was taken, enabling better selection of embryos for transfer at Day 5 of development. Time-lapse imaging frequently requires manual annotation and other inputs, whereas Life Whisperer Viability performs all image processing, annotation, and analysis automatically, removing the effects of user bias, error, and subjectivity. Life Whisperer Viability and time-lapse imaging systems are complementary, and can be used together if desired to provide an overall improved experience for the patient.

Is my data secure?

Life Whisperer Viability is compliant with HIPAA and GDPR, and is ISO-13485 certified. Local cloud servers are used in each region so that your data generally does not leave the region of origin, as per applicable regional regulations. Data is always encrypted in the application to the highest standards. Note that Life Whisperer Viability provides ongoing customer and technical support, and our staff are constantly working to safely improve the algorithm and maintain the security of the application.

Are there opportunities to collaborate with Life Whisperer on future projects?

Yes, we strive to use AI to improve the end to end IVF process. For new AI projects, we invite collaborators to contribute data and expertise, with a royalty payment shared to those data contributors when the products are validated and brought to market. Please contact lifewhisperer@fujifilm.com.

How much does it cost?

Life Whisperer Viability is provided to clinics with no upfront cost. There are no license costs or maintenance fees, and no hardware costs. The cost to the patient is per cycle (cohort of embryo images) assessed by Life Whisperer and is a fraction of the cost of an IVF cycle.

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 procedures.

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.

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