



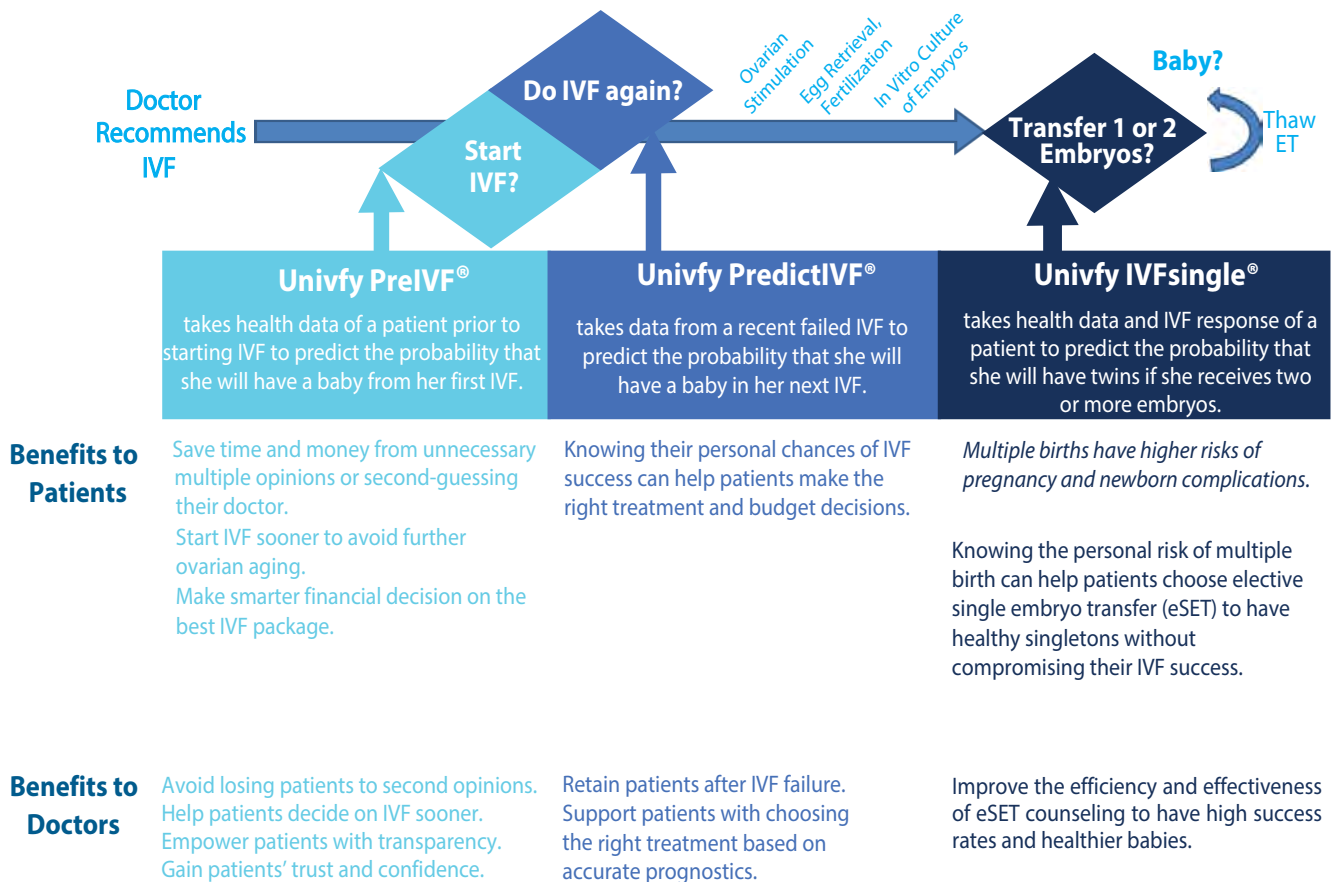
BETTER PREDICTION.  
MORE CONFIDENT DECISIONS.



Support your patients' IVF decisions with accurate and personalized predicted probabilities of IVF success and multiple births.

## IMPROVED PREDICTIVE POWER AND ACCURACY

- 1,000- times (likelihood scale) more powerful in predicting the probability of live birth compared to age-estimates\*.
- More than half of patients analyzed by Univfy tests had higher probabilities of IVF success than predictions based on age alone\*.
- Factors from a previous cycle can be analyzed to predict IVF success in the next IVF.



\* PreIVF-D is the validated prediction model used by the Univfy PreIVF test. PredictIVF-D is the validated prediction model used by the Univfy PredictIVF test. The research methods and findings for PreIVF-D and PredictIVF-D are reported in Choi et al., Fertil Steril 2013 and in an abstract presented by Choi et al., at the Society for Gynecologic Investigations Annual Meeting, Orlando, FL, 2013, respectively. Patent pending.

Make IVF A Choice For More Women By  
Helping Them Make More Confident Decisions.



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# PATIENTS WHO WILL BENEFIT FROM TAKING UNIVFY IVF PREDICTION TESTS

**UNIVFY PREIVF** utilizes reproductive health data available prior to starting IVF, to predict the probability of having a live birth with the first IVF treatment. This test is useful for patients:

- receiving recommendation from their physician to have their first IVF treatment
- new to fertility treatment and wanting to know their probability of having a baby with IVF
- considering their first FSH/IUI, but wanting to know their prognosis with IVF
- considering IVF after failing other treatments such as FSH/IUI or Clomid/IUI

**UNIVFY PREDICTIVF** utilizes reproductive health data, and prior IVF response and embryo data, to predict the probability of having a live birth in the next IVF cycle. This test is useful for patients:

- deciding whether to try IVF again, after one or more previous IVF treatments
- deciding whether to have another IVF treatment with their own eggs or IVF with donor eggs

## Recommended Eligibility Criteria and Required Data for Prediction Testing

	Univfy PreIVF	Univfy PredictIVF	Univfy IVFsingle
<b>Univfy IVF Test Prediction</b>	Personalized probability of having a baby with her first IVF cycle	Personalized probability of having a baby with her next IVF cycle	Personalized probability of having multiple births when 2 or more embryos are transferred.
<b>Eligibility criteria</b>	< 43 years of age Day 3 FSH < 14 IU/L AFC >= 6	< 45 years of age; < 43 years of age at first IVF Last IVF cycle was within the past 18 months Up to 4 failed IVF cycles with own eggs Day 3 FSH < 14 IU/L AFC >= 6	< 45 years of age Currently in a fresh IVF treatment cycle with own eggs Have at least two viable fresh embryos for transfer into your own uterus Day 3 FSH < 14 IU/L; AFC >= 6
<b>Predictors (Data required unless indicated as 'optional')</b>	<u>Patient's health profile:</u> Age, body mass index, smoking history Gravida, para Use of donor or male sperm <u>Male partner's profile (if using male partner's sperm):</u> Age, smoking history Total motile sperm count (optional) <u>Ovarian reserve tests:</u> Day 3 FSH AFC, AMH (optional) Clinical Diagnosis (e.g. DOR, PCOS, Fibroids, Endometriosis etc.)	<u>Patient's health profile:</u> Age, body mass index, smoking history, gravida, para Use of donor or male sperm <u>Male partner's profile (if using male partner's sperm):</u> Age, smoking history Total motile sperm count (optional) <u>Ovarian reserve tests:</u> Day 3 FSH AFC, AMH (optional) Clinical Diagnosis (e.g. DOR, PCOS, Fibroids, Endometriosis etc.)  <u>IVF Stimulation Data (from the most recent IVF cycle with own eggs):</u> Amt. of gonadotropins Peak estradiol (optional) Endometrial thickness (optional)  <u>Embryology data from the most recent IVF cycle including:</u> No. of oocytes, no. of fertilized eggs No. of embryos, embryo cell number, embryo transfer day No. of embryos transferred/ frozen  Prior IVF history and outcome from all past IVF cycles	<u>Patient's health profile:</u> Age, body mass index, smoking history, gravida, para Use of donor or male sperm <u>Male partner's profile (if using male partner's sperm):</u> Age, smoking history Total motile sperm count (optional) <u>Ovarian reserve tests:</u> Day 3 FSH AFC, AMH (optional) Clinical Diagnosis (e.g. DOR, PCOS, Fibroids, Endometriosis etc.)  <u>IVF Stimulation Data (from current IVF cycle with own eggs):</u> No. of days of ovarian stimulation Amt. of gonadotropins Peak estradiol Endometrial thickness  <u>Embryology Data from current IVF cycle including:</u> No. of oocytes, no. of fertilized eggs No. of embryos, embryo cell number, embryo transfer day No. of embryos transferred/ frozen

Special Pricing Schemes Available For Clinics.  
Call Us At 1-650-961-1307 To Learn About The Univfy Clinic Program.

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# HOW DO I USE UNIVFY IVF PREDICTION TESTS IN MY FERTILITY PRACTICE?

## Enrollment

### Enroll Your IVF Center in the Univfy Clinic Program

You and your staff can receive live birth and multiple birth predictions personalized to your patients online, via a HIPAA-secure platform that is dedicated to your IVF center. You can have this up and running within days. Co-branding opportunities are available. Contact us to receive more information.

## Analytics

### Confidential Analytics by Univfy

Gain insight to improve your IVF success rates or power your own risk-share program with analytics performed by the top IVF data research group. Affordable pricing, professional recommendations, and continuous support translate analytics into clinical results.

## Customization

### Customization Service

Prefer to use prediction tests that are customized to your center's own data? Ask about our customization and validation services.

## User-friendly

### Have your patients take Univfy IVF Prediction Tests on their own?

Refer patients to [www.univfy.com](http://www.univfy.com) to take the Univfy PreIVF or Univfy PredictIVF, and ask them to bring the prediction test report to you. To take the Univfy PreIVF test, go to [www.univfy.com/predictiontests/preivf](http://www.univfy.com/predictiontests/preivf). To take the Univfy PredictIVF test, go to [www.univfy.com/predictiontests/predictivf](http://www.univfy.com/predictiontests/predictivf). Contact us to receive program pricing and useful fact sheets to make this easy for you and your patients.

## How were Univfy IVF Prediction Tests developed?

Prediction Tests: Development & Validation	Univfy PreIVF	Univfy PredictIVF	Univfy IVFsingle
No. Training cases	>10,000	>20,000	>3,500
No. Test Cases	>1,000	1025	999
No. Predictors	13	32	26

Each IVF Prediction Test is based on a unique prediction model that is designed to answer a very specific question to support decision-making at critical junctures of a patient's fertility path. These tests utilize advanced statistics and proprietary processes to produce prediction models, which are then subjected to rigorous validation processes. The end results are tests which report the performance of validated (i.e., proven) prediction models based on objective and quantitative parameters. Detailed methods are available from research papers that have been published in top peer-reviewed clinical research journals, including Banerjee et al. PNAS 2010, Lannon et al., Fertil Steril 2012, Choi et al., Fertil Steril 2013, Choi et al., abstract presented at the Society for Gynecologic Investigation, 2013.

For more information on Univfy's research program, visit The Science behind Univfy at: [www.univfy.com/fertility-research/](http://www.univfy.com/fertility-research/)

#### Disclaimers and Test Limitations

1. Univfy IVF Prediction Test results are not medical care, treatment, treatment recommendation, or diagnosis. No employee of Univfy will provide persons who receive Prediction Test reports with a diagnosis of any disease or health condition, or any advice regarding current or future treatment decisions. Prediction Test results should be assessed by the healthcare provider in conjunction with, and in the context of, past and current medical history and other relevant medical, socio-economical and psychological factors pertaining to the patient, her partner and her family.
2. Univfy IVF Prediction Tests cannot inform healthcare providers or their patients whether a patient will or will not have a live birth as a result of a certain treatment. Only a probability of live birth, and an error range, can be provided.
3. Univfy IVF Prediction Tests have not been evaluated and are not regulated by the U. S. Food and Drug Administration. These tests are not intended to diagnose, treat, cure or prevent any disease or health condition.
4. Univfy generates its prediction models from historical data sets from each clinic, with updates. It is not possible to develop Prediction Tests based on clinical data from the current year, because live birth outcomes for the current year would typically not be available until one year after the last treatment date for that year. Therefore, Univfy IVF Prediction Tests cannot account for new factors that have arisen in the current year.

Predictive Modeling To Enhance Success  
The Science To Build Your Confidence

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# MEET OUR TEAM



## **MYLENE W. M. YAO, M.D.** Co-founder and CEO; [mylene.yao@univfy.com](mailto:mylene.yao@univfy.com)

Dr. Mylene W. M. Yao has over 15 years of experience in research in reproductive medicine and embryo and uterine biology. Her publications span clinical and basic science research journals, including Fertility and Sterility, the Proceedings of the National Academy of Sciences, Molecular Endocrinology, Developmental Biology, and Molecular Systems Biology. In her previous roles as National Institutes of Health (NIH)-funded principal investigator and faculty at Stanford University, Dr. Yao, together with her scientific collaborator and Co-Founder Professor Wing H. Wong and their research teams, developed IVF prediction models that can personalize success rates for IVF patients. She co-founded Univfy Inc. to translate that research into user-friendly online tests to bring personalized prediction to patients and doctors.

Dr. Yao received her medical degree from the University of Toronto, Canada in 1993 and completed her residency training in obstetrics and gynecology at McGill University, Montreal, Canada in 1998. She received her clinical subspecialty training in reproductive endocrinology and infertility and post-doctoral training in development biology in the laboratory of Dr Richard L Maas, both at Brigham and Women's Hospital, Harvard University, Boston, MA., from 1998 to 2001. In 2003, she joined the faculty at Stanford University to lead basic science research on early embryo development.



## **WING H. WONG, PH.D.** Co-founder and Scientific Advisor

Professor Wong is Professor of Statistics in the Departments of Statistics, Health Research Policy, and by courtesy, Department of Biology. He played a critical role in developing the technology that forms the basis of Univfy's intellectual property. Professor Wong's seminal contributions to theoretical statistics -- most notably, Bayesian network structures, machine learning, Monte Carlo, and applied statistics in computational biology -- have been recognized with numerous awards and honors. In 2009, he was elected to the National Academy of Sciences, for developing innovative high throughput genomics analysis tools that have been pivotal in driving genomics research in the past decade. Professor Wong's

international research leadership is exemplified by his role as Chairman of the International Advisory Committee of the Center for Statistical Sciences at Peking University, and appointment to the Bioinformatics and Systems Biology Chair Professor Team at Tsinghua University, also in Beijing. As Univfy's Co-founder and Scientific Advisor, Professor Wong advises Univfy's scientific team to ensure rigorous quality control of current prognostic tests and projects in the R&D pipeline.



## **BOKYUNG CHOI, PH.D.** VP of Statistics and Technology; [bokyung.choi@univfy.com](mailto:bokyung.choi@univfy.com)

Dr. Choi graduated with a Ph.D. in Applied Physics from Prof. Wong's laboratory at Stanford University. He performed statistical exploration and analysis that contributed to Univfy's discoveries and technology. Dr.

Choi's expertise in machine learning and in-depth understanding of complex clinical IVF data positions him well to lead the statistical aspects of R&D and implementations of prediction tools.



## **PRAJNA BANERJEE, PH.D.** Product Specialist; [prajna.banerjee@univfy.com](mailto:prajna.banerjee@univfy.com)

Dr. Banerjee provides support and information about Univfy IVF Prediction Tests to doctors and health consumers. Prior to joining Univfy, she was post-doctoral fellow in Dr. Mylene Yao's laboratory at Stanford University, where she contributed to Univfy's early discoveries and technology. Dr. Banerjee had worked in women's health programs, IVF laboratories, and clinical research. She received her doctorate degree in Reproductive Physiology from the University of Illinois at Chicago.



## **YIN ZHU, B.S.** VP of Finance and Operations; [yin.zhu@univfy.com](mailto:yin.zhu@univfy.com)

Mr. Zhu oversees finance and operations and supports Univfy's business development. Prior to joining Univfy,

Mr. Zhu worked in the Healthcare Investment Banking Group at RBC Capital Markets in San Francisco. Mr. Zhu has a B.S. in Business Administration from the Haas School of Business at University of California, Berkeley.



## **KENNETH SANTO-DOMINGO, M.S.** Data Scientist; [kenneth.santo-domingo@univfy.com](mailto:kenneth.santo-domingo@univfy.com)

Mr. Santo-Domingo received his Master's degree in Applied Mathematics from Santa Clara University. He brings valuable programming, data processing and mathematics experience to our research and development teams at Univfy. Together with Dr. Choi, Mr. Santo-Domingo generates and validates prediction models that form the basis of Univfy's fertility prognostic tools.



## **JULIE WESTLUND, B.S., M.A.** VP of Client Services; [julie.westlund@univfy.com](mailto:julie.westlund@univfy.com)

As Univfy's Client Services lead, Julie coordinates product implementation, promotes new product offerings and most importantly, oversees customer service and support at the provider level both nationally and internationally. Julie earned her Bachelor's degree from the University of Missouri-Columbia and her Master of Arts in Marketing from Webster University.



## **KELLY KELTNER, B.S.,** Social Media Manager; [kelly.keltner@univfy.com](mailto:kelly.keltner@univfy.com)

Ms. Keltner manages Univfy's social media platforms and also assists with communications and analytics. Prior to this, she worked as the Social Media Community Manager at Hightail Inc. and as Sales and Marketing Support at Robson Technologies Inc.

Please contact us at **1-650-961-1307** between the hours of 8 a.m. and 4 p.m. Pacific time, Monday through Friday, excluding major holidays, or email us at [support@univfy.com](mailto:support@univfy.com) for more information on these programs.

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