



JULY 2024  
ISSUE NO 2  
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# EMBRYO EXPRESS



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# EMBRYO EXPRESS 2.0 JULY 2024

## WORLD EMBRYOLOGIST DAY 2024 SPECIAL EDITION



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### FROM THE EDITOR DESK


Dear Colleagues,

On this joyous occasion of World Embryologist Day, celebrated on July 20th, 2024, in Hyderabad, I extend my warmest greetings and heartfelt wishes to each one of you. Today, we come together to honor our collective dedication and passion for the field of embryology, a field that brings hope and joy to countless families.

As we celebrate our achievements, I am excited to announce the special edition of EmbryoExpress 2.0 magazine. This edition is dedicated to showcasing the latest advancements, innovative research, and inspiring stories from our community. It is a testament to our continuous efforts to push the boundaries of science and improve reproductive health worldwide.

Thank you for your unwavering commitment and tireless work. Together, we are shaping the future of embryology and making dreams come true for so many. Here's to celebrating our successes and looking forward to even greater accomplishments in the years to come.

With warm regards,

  
Dr M Prasad

# Welcome, Embryonauts!

Welcome to the Second Edition of Embryo Express - Celebrating World Embryologist Day

Dear Explorers,

As we chart our course further into the microscopic realms of life's origins, we are thrilled to present the second issue of Embryo Express. Your enthusiastic responses to our inaugural issue have not only validated our vision but have fueled our passion for delving deeper into the wonders of embryology.

In this commemorative issue, we dive deep into the heart of embryology, bringing you closer to the people who make the magic happen. From exclusive interviews with leading embryologists to in-depth features on their groundbreaking work, this edition is a tribute to their dedication and the profound impact of their discoveries.

We also bring to light the voices of those at the forefront of this field. From seasoned researchers to emerging talents, meet the trailblazers who dare to push the boundaries further. Their dedication and discoveries are not just propelling their careers; they are steering the future of all humanity.

Embryo Express is more than a newsletter; it's a platform for connection and inspiration. Today, we invite you to join in the celebration, to learn from these pioneers, and to appreciate the intricate dance of science and life they choreograph each day.

Let us inspire you with tales of dedication and success that highlight the day-to-day efforts of embryologists around the world. And let's foster a community of learners and leaders who are as passionate about the promise of the future as they are respectful of the ethical dimensions that guide our path forward.

Whether you're a researcher, a practitioner, or simply a curious mind, there's something in here for you. Let's inspire and be inspired, as we together forge a path of discovery and wonder.

Welcome aboard the special world embryologist day edition of Embryo Express let the voyage of discovery continue!

## Objective:

Embryo Express aims to demystify embryology by making complex research accessible and engaging. The newsletter seeks to inspire innovation, foster a professional community, promote ethical awareness, and increase public engagement with embryology.

## Target Audience:

Embryo Express is tailored for embryologists, researchers, clinicians, academics, and anyone interested in embryology. It caters to both professionals in the field and the general public who are curious about the science of life's beginnings.

## Disclaimer

Embryoexpress newsletter is for informational purposes only and is not intended as a substitute for professional medical advice, diagnosis, or treatment. All content, including text, graphics, images, and information, is provided on an "as is" basis. While we strive to keep the information up to date and correct, we make no representations or warranties of any kind, express or implied, about the completeness, accuracy, reliability, suitability, or availability with respect to the newsletter or the information, products, services, or related graphics contained within.

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# CALL FOR CONTRIBUTIONS



## Join Our Community of Creators

At Embryologist Professional Magazine, we're dedicated to fostering a vibrant community where voices from diverse backgrounds and perspectives in the field of embryology can share their knowledge, experiences, and creativity. As we continue to grow and evolve, we're thrilled to invite submissions for our upcoming issues.

### Current Acceptance Policy

We're now open to a wide range of contributions that resonate with, inform, and inspire embryologists and those interested in embryology. However, it's important to note our current submission guidelines.

**Original Research Articles:** At this moment, we are not in a position to accept original research articles. Our focus is on providing content that, while informative, is also accessible and engaging to a broad readership beyond the academic community.

### Submission Guidelines

**Originality:** All contributions must be original and unpublished elsewhere.

**Review Process:** Submissions will undergo a review process to ensure they align with our magazine's values and standards. We appreciate your patience during this time.

### How to Submit

Interested contributors can submit their articles, poems, stories, or other embryology-related content to our email [info@embryoconnect.net](mailto:info@embryoconnect.net). Please include a brief bio and contact information with your submission.

**Articles:** Insightful pieces on topics related to embryology, career advice, technological advancements, ethical considerations, and personal experiences in the field.

**Poetry and Stories:** Creative works that reflect the beauty, challenges, and intricacies of embryology. Whether it's a poem inspired by the miracle of life or a short story that delves into the life of an embryologist, we welcome your artistic expressions.

**Other Embryology-Related Content:** Are you working on something that doesn't fit into the categories above? We're open to innovative and original ideas that can spark interest and conversation within our community.

### Why Contribute?

Contributing to Embryologist Professional Magazine offers you the opportunity to share your voice and expertise with a dedicated audience passionate about embryology. It's a chance to make an impact, share your insights, and contribute to the broader conversation surrounding this fascinating field.

### Join Us

We look forward to welcoming your contributions and sharing them with our readers. Together, let's build a platform that celebrates the art and science of embryology!

**For any questions or further information, please contact our editorial team at [info@embryoconnect.net](mailto:info@embryoconnect.net).**

Enjoy our magazine!

*Team embryoconnect*

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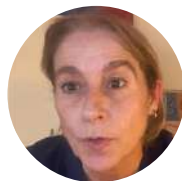


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# WISHES FROM THE WORLD



**DR M PRASAD**

"Happy World Embryologist Day! Today, we unveil 'Embryo Express 2.0', a beautiful reminder of the miracles we create every day. May this magazine enlighten, inspire, and bring joy to all who turn its pages. Congratulations to the entire team!"



**DR KRISHNA CHAITANYA M**

Congratulations on launching 'Embryo Express 2.0'! Happy World Embryologist Day to all the visionaries shaping the future of embryology!

**DR CHARULATA C**



Happy World Embryologist Day! Today, we celebrate our vital work with the launch of 'Embryo Express 2.0'. May this magazine inspire and unite us as we continue creating miracles.

**DR AKASH AGARWAL**



"As we celebrate World Embryologist Day, let's embrace the journey of discovery and innovation that 'Embryo Express 2.0' represents. This magazine is a beacon of hope and a source of cutting-edge knowledge for everyone passionate about embryology. Congratulations on this grand launch!"

**DR P DURAI**



On this World Embryologist Day, we celebrate the incredible achievements and dedication of embryologists worldwide. Your work, often behind the scenes, transforms hopes into reality for countless families, bringing the miracle of life into the world. Today, we proudly launch 'Embryo Express 2.0', a testament to our collective passion and expertise. This magazine is more than just a publication; it is a beacon of knowledge, featuring cutting-edge research, inspiring stories, and the latest advancements in reproductive science. Our goal is to foster community, collaboration, and continuous learning. As we celebrate, let us reflect on the profound impact of our work and look forward to future innovations. Together, we will continue to push the boundaries of science, striving for excellence and compassion in all we do. Happy World Embryologist Day and congratulations on the launch of 'Embryo Express 2.0'. May it inspire and unite us all. With heartfelt gratitude and best wishes,



**DR PATRICIA FRIAS  
BOLIVIA**

Launching 'Embryo Express 2.0' on World Embryologist Day is a beautiful reminder of the wonders we create every day. May this magazine be a beacon of knowledge and hope for all. Congratulations to the entire team



**DR ROXNA NAPOLITANO  
ARGENTINA**

On World Embryologist Day, we not only celebrate the miracles we help create but also the knowledge we share. 'Embryo Express 2.0' marks a new chapter in our collective journey, filled with hope and innovation. Congratulations on this remarkable achievement!



**DR LAURA DE LA CRUZ CARRASCO  
MEXICO**

Happy World Embryologist Day 2024! As we gather in Hyderabad, I'm filled with pride and joy to be part of such a dedicated community. Your relentless efforts make miracles happen every day. Here's to celebrating our passion and the launch of Embryo Express Magazine Special Edition 2.0. Together, we continue to change lives!



**YOLANDA CABELLO  
SPAIN**

"Today, we honor the relentless pursuit of knowledge and the joy of creating life. With the launch of 'Embryo Express 2.0', may this World Embryologist Day be filled with pride and a sense of accomplishment for all. Congratulations to everyone involved!"



**DR SUVARCHALA**

Happy World Embryologist Day! Today, we celebrate the dedication and achievements of embryologists around the world. Your work is the foundation of countless dreams realized and lives transformed. In honor of this special day, we proudly launch 'Embryo Express 2.0'.



**PROF D SWAMINATHAN**

Happy World Embryologist Day! Today, we celebrate the wizards of the lab who turn tiny cells into bouncing babies. Your magic is real, and your dedication is unmatched.

In the spirit of fun and science, we proudly launch 'Embryo Express 2.0'! Think of it as the Hogwarts Gazette for embryologists – filled with enchanting research, spellbinding stories, and the latest tricks of our trade.

TSAP EMBRYOLOGIST FORUM WELCOMES YOU ALL TO CELEBRATE

# WORLD EMBRYOLOGIST DAY 2024

## SPEAKERS



### Ms Carla Ribeiro

QC Lab Manager  
Fertipro, Belgium

- 7:30 pm** on zoom • Quality control in the IVF Lab: Improvement of culture systems through improvement of the quality control programme

Chair: Dr Suvarchala, Ms Nandhita, Mr Sivanandh



### Alayamani Kannan

Managing Director  
MES India Pvt Ltd

- 7:45 pm** • Standardization of semen Analysis

Chairs: Mr Nandhan, Ms Beena Rawat, Mr Jai Ganesh

## AGENDA

### 5:40 pm Embryology Journey

- Mr Madhu sudhan
- Mr Valluri Lenin Babu

Chair: Praveen Shinde, Rajasekhar, Hemanth V, Alekya Reddy

### 6:00 pm Lamp lighting

- Dr Prasad, Dr Krishna C M, Dr Charulatha C, Dr Suvarchala, Alayamani K

### 6:05 pm Welcome Address: P Durai

### 6:10 pm Where I come from: Dr Prasad

Chair: Amir Javeed, Mr Kishore, Dr Shivakrishna K, Mr Siddesh

### 6:20 pm Panel Discussion

- The Efficacy of Add Ons in Embryology lab- Present & Future

#### Moderators

Lakshmi Narasimharao P; Sanketh Dhumal Satya

- Mr Sangeeth kumar
- Dr. Akash A
- Dr Ramkumar KY
- Mr Venkateswararao N
- Mrs Rajalakshmi A
- Dr. Sridevi N
- Mr P Dileep Kumar
- Mrs Shalini R

8.00 pm



## LAUNCH EVENT: EMBRYO EXPRESS 2.0 MAGAZINE

Prof Swaminathan D, Dr Krishna Chaitanya, Dr M Prasad, Dr P Durai  
Dr V Durga Rao, Director, Genes & Life, Health care Pvt Ltd, (Co-Ordinator, Janasena Party)



8.05 pm

- Fun activities and games - V J . Ms Reena



9.05 pm

- Vote of thanks - Dr Charulatha C

9.10 pm

- Dinner



**20 July 2024**  
**5.40 - 11.00 pm**



**Hotel Green Park, Ameerpet**  
**Hyderabad**

Registration is mandatory; Fill out this Google sheet to secure your spot

## Academic partners



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expert  
interview  
on p. 12

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**An Embryologist's Heart**

a poem on embryologist

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# Understanding in semen analysis and role of technology advancements



ALAYAMANI KANNAN

## Enhance Laboratory Productivity....

Manual semen analysis is a highly-skilled, time-consuming task that can be hard to train and learn for many Technologists. Depending on the technique, sperm assessment can take anywhere between one hour and multiple days to complete.

Hospital, diagnostic or reproductive healthcare laboratory found it challenging to obtain and sustain the technical expertise required to perform a manual semen analysis. "Performing a manual semen analysis requires more technical labour than we can justify and a standard of technical expertise that is difficult to obtain and sustain. Standardization between technologists and proficiency testing is now a problem from the past."

Diagnostic and reproductive laboratories are busy places. Every day you need to balance clinical work on the bench, paperwork, meetings, patient interactions, and much more.

On a busy day, a few semen samples can pull the focus of several full-time employees for prolonged periods. This means they're not free to help with other tasks, and the resulting workloads can become overwhelming.

## How can reduce Workplace Stress?

In the past few years, there has been an increased focus on minimizing workplace stress.

Stress is bad for the staff, bad for team building, and bad for business overall. It's estimated that around one million employees miss work every day due to stress, costing companies billions of dollars and lots of wasted time.

Busy Diagnostic and Reproductive Healthcare Laboratories can be hectic and stressful places to work. Between the long hours, hefty workloads, and steep quality control requirements, it's easy to feel worn out.

## Why is Speed so Critical in Semen Analysis?

From the moment of collection, it's a race against time to complete your semen analysis before the sample quality starts to degrade. The World Health Organization (WHO) recommends that testing be completed within one hour. The sooner you can begin testing the sample after collection, the better!

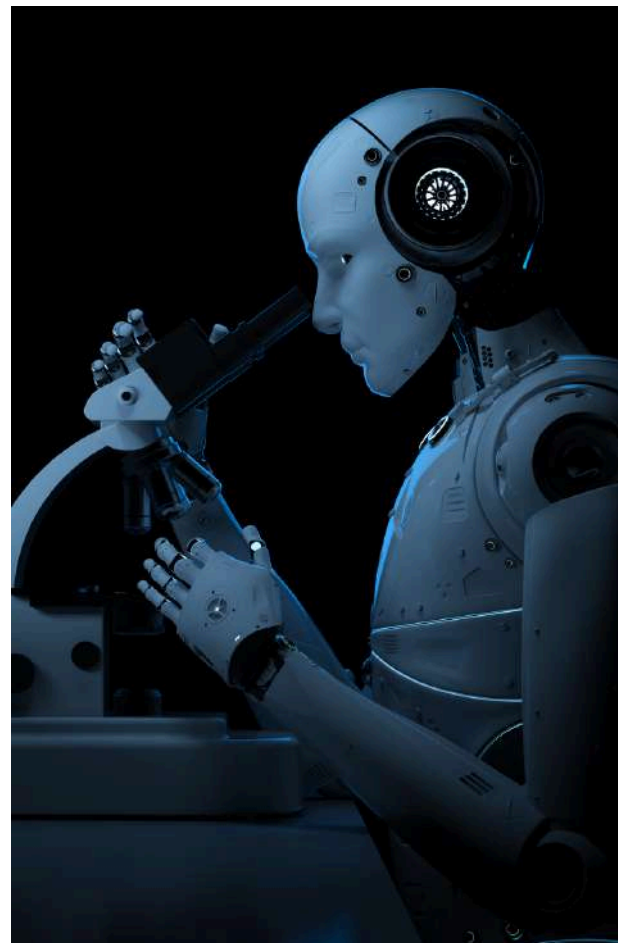
## Increase Accuracy by Increasing Speed!

In a routine semen analysis, you'll assess the motility, concentration, morphology, and other key traits and parameters of the semen sample.

As time passes, the percentage of motile sperm decreases steadily, and overall sample stability may diminish. The longer the time between collection and analysis, the less representative the sample will become compared to when it was first collected.

*"The World Health Organization (WHO) recommends that testing be completed within one hour. The sooner you can begin testing the sample after collection, the better!"*

*"Let us streamline your workflow by increasing the accuracy of your reports, enhancing your laboratory productivity, reducing your workplace stress, and lowering the wait times of doctor and patient."*



Time delays can lead to inaccurate assessment of the most critical fertility parameters. In some instances, a sample may even be classified as abnormal when it would have been in the normal range if tested sooner.

Delays may lead to additional doctor appointments and lab visits for the patient. Or, in some cases, a man may even be prescribed a fertility treatment program that does not suit his needs correctly.

#### Why do need automation for Semen Analysis

#### Accuracy - Precision - Objectivity - Standardization

Time is precious. Whether you work in a hospital, diagnostic or reproductive healthcare laboratory, quick turnaround times are essential. Help keep your lab lowing productively with fast and accurate automated semen analysis using the SQA-Sperm Quality Analyzer

The SQA greatly reduces human errors, which is more likely to happen performing the manual method. We have found that automation provides standardization, accuracy, and repeatability in our testing.

The fully automated SQA - Sperm Quality Analyzer is a revolutionary automated semen analysis instrument that can deliver complete results in as little as 75 seconds, replacing hours or even days of manual testing time.

Let us streamline your workflow by increasing the accuracy of your reports, enhancing your laboratory productivity, reducing your workplace stress, and lowering the wait times of doctor and patient.

#### Improved Turnaround Time and Lower Patients Wait Times!

Increased laboratory efficiency by using the SQA will allow you to see more patients in a day. In fact, the average laboratory can run ten samples per hour on the SQA quite easily.

#### Final Thoughts. . .

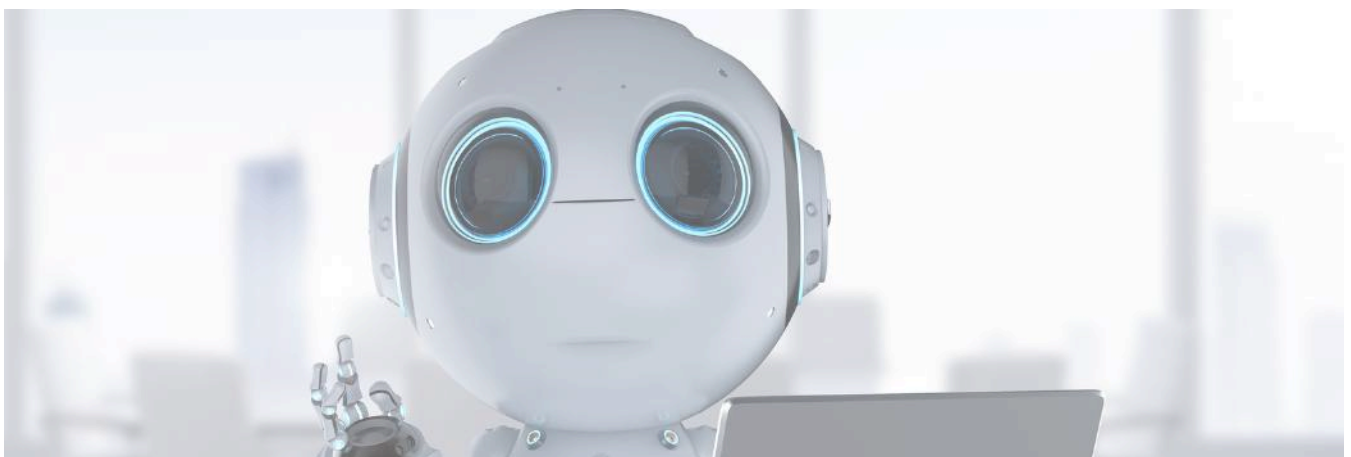
In a world where we've all got too much to do and not enough time to do it, a busy day doing semen analysis testing is the last thing we need. Let the SQA take some pressure off your team and create a happier and more efficient place to work.



**World Leader in  
Automated Sperm Quality Analyzer**



*"Time is precious. Whether you work in a hospital, diagnostic or reproductive healthcare laboratory, quick turnaround times are essential."*



# INTERVIEWS WITH EXPERTS-1

DR A RAJESH KUMAR,  
Lab Manager, Embryology,  
A4 Fertility centre, Chennai



01

What do you believe are the primary drivers of growth in the Indian embryology market?

The primary drivers of growth in the Indian embryology market include increased awareness and acceptance of fertility treatments, advancements in ART technologies, and a growing middle class with better access to healthcare. Additionally, societal shifts towards later marriages and delayed childbearing contribute to the rising demand for fertility services.

02

Can you discuss any market trends that you expect to significantly impact the embryology field in the next few years?

Emerging trends such as non-invasive genetic screening, AI-assisted embryo selection, and advanced cryopreservation techniques are expected to significantly impact the embryology field.



03

What advice would you give to new graduates entering the field of embryology today?

My advice to new graduates is to gain as much hands-on experience as possible through internships and training programs. Stay updated with the latest advancements in the field, and never stop learning.

04

How do you stay updated with the latest techniques and advancements in embryology?

I stay updated by regularly reading scientific journals, attending professional conferences, and participating in workshops and webinars. Networking with colleagues and engaging in continuous education programs also helps me stay abreast of the latest developments in the field.



05

What measures do you take to maintain the confidentiality and trust of your patients?

Maintaining confidentiality and trust involves strict adherence to privacy laws and ethical guidelines. We ensure that patient information is securely stored and only accessible to authorized personnel. Transparent communication and providing thorough explanations about procedures also help build and maintain patient trust.

06

What are the biggest challenges you face in your day-to-day work as an embryologist?

The biggest challenges include staying updated with rapidly advancing technologies, managing complex cases with unique patient needs, and balancing the emotional aspects of patient care. Ensuring regulatory compliance and maintaining high standards of practice are also ongoing challenges.

# INTERVIEWS WITH EXPERTS-2

DR P DURAI, Lead, Embryologist,  
KIMS Fertility centre, Hyderabad



01

What opportunities do you see for improving patient outcomes in the field of embryology?

Opportunities for improving patient outcomes include adopting advanced genetic screening techniques, personalized medicine approaches, and integrating AI for better embryo selection. Continuous research and innovation are key to enhancing success rates and patient satisfaction

02

How important is continuing education in the field of embryology, and what resources do you recommend for ongoing professional development?

Continuing education is crucial to stay abreast of evolving technologies and methodologies. I recommend attending workshops, online courses, and professional conferences. Subscribing to reputable journals and participating in webinars also provide valuable learning opportunities.



03

What inspired you to pursue a career in embryology, and what keeps you motivated in this field?

My fascination with cell biology and the potential to help people start families inspired me to pursue embryology. The continuous advancements in the field and the profound impact we have on patients' lives keep me motivated every day.

04

How can the embryology community better support each other to advance the field and improve patient care?

The embryology community can enhance support by fostering open communication, sharing research findings, and collaborating on best practices. Establishing mentorship programs and creating forums for discussion can also help address common challenges and improve overall patient care.



05

Can you share a particularly memorable experience or breakthrough in your career?

One memorable breakthrough was successfully implementing a new non-invasive genetic testing method. Seeing the joy on patients' faces when they finally achieved their dream of parenthood was incredibly rewarding.

06

What role do professional organizations and conferences play in your professional development?

Professional organizations and conferences are vital for staying updated with the latest advancements and best practices in embryology. They provide a platform for networking, knowledge exchange, and collaborative research, which are essential for continuous professional growth.

# ENVIRONMENTAL TOXINS AND THEIR IMPACT ON EMBRYO DEVELOPMENT

Infertility affects millions globally, with one in six people experiencing it in their lifetime. Environmental toxins, such as heavy metals, pesticides, endocrine-disrupting chemicals, air pollutants, alcohol, drugs, and industrial chemicals, are major contributors. These toxins can negatively affect human health, particularly during prenatal development, making understanding them crucial for clinical embryologists to ensure optimal outcomes in embryonic and fetal development.

Embryos are highly vulnerable due to rapid cell division and differentiation. Toxins can lead to congenital anomalies and developmental disorders. They affect reproductive health at all life stages, causing birth defects, puberty disruptions, menstrual irregularities, miscarriages, infertility, and premature reproductive aging. Males are particularly susceptible, with toxins decreasing sperm concentration, reducing sperm quality, causing abnormal sperm morphology, and increasing sperm DNA fragmentation.

Assisted Reproductive Technology (ART) labs, crucial in supporting infertile couples, face exposure to environmental factors like chemicals, temperature fluctuations, and poor air quality. These can impact embryo development and success rates. Chemicals used in ART procedures, such as culture media and cryopreservation agents, can affect embryo viability. Poor air quality, including particulate matter and volatile organic compounds, may compromise embryo health.



SRIDEVI NARAKULA

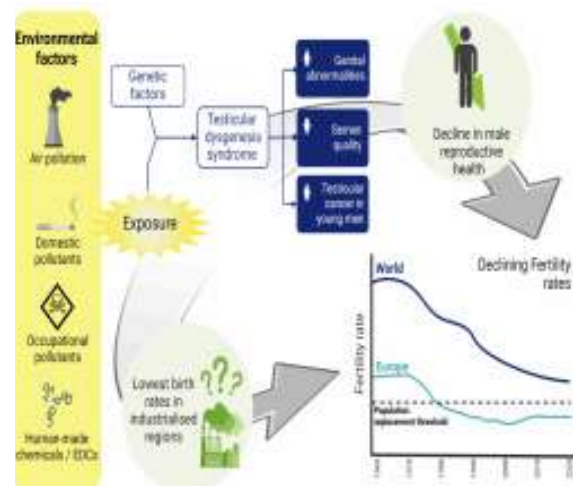
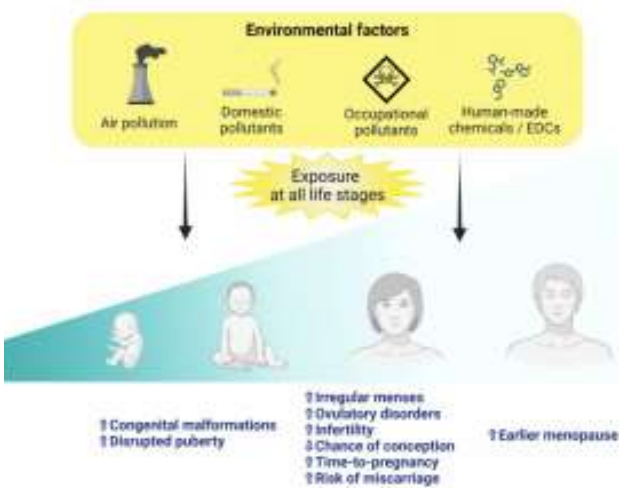


MOUNEESHA R

Oxidative stress caused by reactive oxygen species (ROS) is a major concern. Reviews by Ashok Agarwal and Péter Mauchart highlight ROS's detrimental effects on gametes and embryos, leading to issues like meiotic spindle damage and early pregnancy loss.

Other toxins, such as poor air quality, poor maternal diet, and endocrine-disrupting chemicals, also impact embryo development. The Cairo consensus on IVF lab air quality and Denis A. Seli's and Xiaoming Xu's works underscore how environmental pollutants like VOCs and heavy metals reduce ovarian reserve, impair sperm quality, and decrease embryo implantation rates. Mitigation strategies in ART labs include using HEPA and activated carbon filters, non-toxic cleaning agents, regular air quality monitoring, maintaining optimal temperature and humidity, and appropriate lighting. Preventive measures involve stricter regulations on hazardous substances, informing patients about risks, creating guidelines for safe practices, and ongoing research.

In conclusion, environmental toxins significantly impact embryo development and clinical embryology. Continued research, policy changes, and patient education are essential to mitigate these risks and protect embryonic and fetal health..



IMAGES FROM ESHRE FACTSHEET

# UNDERSTANDING SOCIAL EGG FREEZING: PRESERVING FERTILITY



LAKSHMI NARASIMHARAO PUTLA

Understanding the concept of Egg Freezing; Preserving Fertility The practice of freezing oocytes has been a development, in the realm of in vitro fertilization (IVF). Assisted reproductive technology (ART). In years there has been a shift in societal views towards gender equality and womens rights leading to progress in empowering women and promoting their economic independence. With more women focusing on education and career pursuits the average age of motherhood has been on the rise resulting in a number of women over 40 giving birth compared to those under 20. Oocyte freezing plays a role in assisted technology by providing women with the option to preserve their fertility for various reasons such as ensuring the possibility of having biological children in the future. Factors like career aspirations, personal goals, absence of a partner or medical conditions that may affect function – such as chemotherapy or radiation therapy, endometriosis or polycystic ovary syndrome (PCOS) specific genetic conditions like BRCA mutations or Turner syndrome affecting ovarian reserve premature ovarian failure before age 40 fibroids, autoimmune disorders like lupus – all contribute to why women opt for egg freezing. The decline in ovarian reserve is an occurrence linked to aging. Tends to accelerate around mid 30s. This decline is a factor associated with decreased fertility, as one ages. As women age their fertility decreases, leading to chances of miscarriage and chromosomal abnormalities. To address these issues technologies, like in vitro fertilization (IVF) and egg freezing have been developed to help women preserve their ability to conceive.



The process starts with stimulating the ovaries using fertility drugs to encourage the production of eggs. The next step involves retrieving the eggs through a procedure. Vitrification, a method of egg freezing has proven successful in increasing egg survival rates and boosting pregnancy success. This innovation has paved the way for social egg freezing (SEF) enabling women to freeze their eggs at an age for use. SEF empowers women by giving them control over their choices and allowing them to postpone motherhood while reducing the risks associated with declining fertility as they age. SEF raises considerations spanning social, economic, legal and ethical realms. Cryopreserving eggs is also relevant for onco fertility patients undergoing treatment or facing conditions often requiring permission from regulatory bodies if stored for more than ten years. From a perspective older maternal age brings about increased risks of obstetric complications. Therefore careful timing of SEF is crucial, for achieving outcomes. Single women often opt for Social Egg Freezing (SEF) to maintain their fertility citing reasons such, as career priorities or the absence of a partner. From a legal standpoint SEF can be a cost choice if done at a certain age taking into account success rates and storage constraints. Ethically SEF prompts discussions on autonomy, societal expectations and the potential consequences of eggs. In summary SEF provides women with an opportunity to safeguard their fertility and expand their timeframe. While it may be advantageous for some women, thorough counseling and informed decision making are necessary due to the implications involved. Clear guidelines and supportive structures are crucial to ensure ethical use of SEF without any exploitation for gains. Ultimately each womans decision regarding SEF should be tailored based on a grasp of the social, economic, legal and ethical dimensions, at play.



# ADVANCES IN IMAGING METHODS FOR EMBRYOS



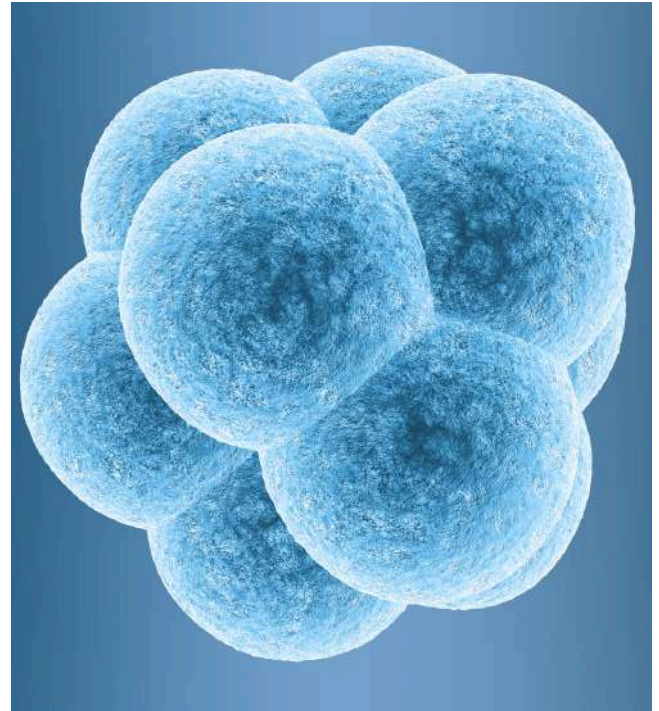
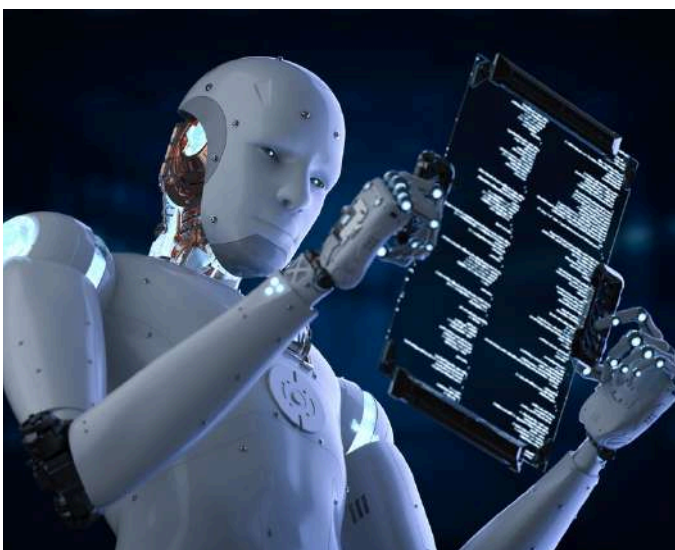
**BAVATHARANI G**

## Traditional Imaging Practices

In the past, imaging techniques relied on microscopy to observe characteristics. Innovations like time-lapse imaging have enabled continuous monitoring without disruption, improving embryo selection and pregnancy success rates.

## High Quality Imaging

Technologies like microscopy and optical coherence tomography (OCT) provide detailed three cross sectional images that enhance our knowledge of cellular structures and the internal architecture of embryos.



## Incorporating AI and Machine Learning

By incorporating intelligence (AI) and machine learning (ML) into embryo imaging experts can analyze data accurately and predict embryo viability with greater precision. This reduces bias in assessments. Enhances decision making.

## Metabolomic Imaging Without Invasiveness

A new technique involves analyzing embryos metabolic profiles through culture media analysis without causing harm. This method offers insights into embryo health that could lead to improved criteria for selection and success rates in ART procedures.

## Looking Towards the Future

Future advancements are likely to involve a combination of high quality imaging techniques, integration of AI technologies and metabolomic analysis. This integration will provide insights into embryo viability. Refine evaluation processes, in the field.



# Retrieval of oocyte cohorts and post ICSI additional outcomes



**DR. FAIRY PRIYANK SALECHA**

Natural cycles were the first IVF live births, but their success rate was low. Stimulated cycles were used, with clomiphene citrate and FSH added. Controlled ovarian stimulation (COS) yield more embryos, but it has drawbacks. In vitro maturation (IVM) offers advantages like avoiding OHSS, lower costs, and simpler therapy. In vitro fertilisation (IVM) has been explored to address issues with oocyte collection, potentially establishing clinical pregnancy by transferring blastocysts from mature oocytes. Research shows positive or negative correlations between oocyte yield and high-quality embryos, crucial for the effectiveness of stimulated cycles. The study aimed to determine if previous stimulation protocols and delayed transfer at the blastocyst stage were valid for more recent protocols, by retrospectively analysing fertilization, cleavage, and blastocyst rates in relation to the quantity of oocytes obtained.

## Methodology

This retrospective study analysed data from 318 patients with COS, focusing on oocyte retrieval, maturity, fertilisation rates, and blastocyst rates. The primary focus was the relationship between retrieved MII oocytes and embryos formed. The study categorized oocytes into five groups based on the number of recovered oocytes, and performed regression analysis on the data.

## Results

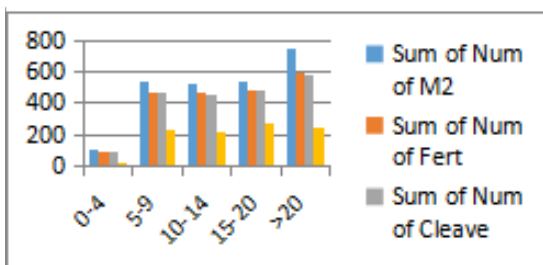
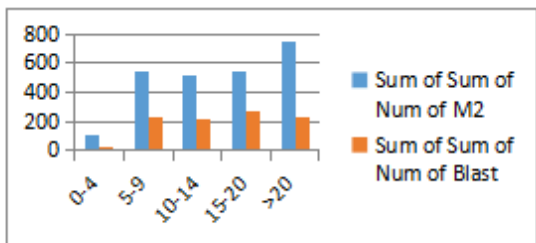
3584 oocytes in all were obtained from 318 IVF cycles. The fertilization rate and blastocyst formation rates were similar across the 2nd, 3rd and 4th groups, with a significant decline in group 1. Table I - Shows comparison of fertilization, cleavage and blastocyst development in oocytes derived from five groups

Table II- Clinical results for patients receiving blastocysts developed from oocytes retrieved from in vitro maturation cycles. Table III-Multivariable analysis.

There was a clear significance statistically with the OCC, MII rates, %FR with p value <0.001, while the blast formation was equal to 0.05.

## Discussion

The study found that the number of matured oocytes retrieval is crucial for successful pregnancy outcomes. Low ovarian stimulation methods may yield higher-quality embryos. The study suggests that the number of oocytes predicts their cleavage and blastocyst development in ovarian-stimulated cycles, potentially influencing technological advancements in oocyte development. The study suggests that increased oocyte retrieval may impact blastocyst rate, potentially changing the focus to collect the "appropriate" number of oocytes. However, the data's sparseness limits the ability to show a substantial increase in blast rates around 20 oocytes.



A shows 5 groups of OCC comparing the MII and blastocysts formed, while B shows multivariate segregation amongst the groups.

# Gene Editing for Enhancing Production Traits in Livestock



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Livestock agriculture is crucial for global food security, especially with the global population projected to exceed 9 billion by 2050 [1]. In India, the situation is critical, with 73% of the population currently protein-deficient and a projected population of 1.668 billion by 2050. This necessitates a 1.5-fold increase in milk production, a 3-fold increase in meat production, and a 4.7-fold increase in egg production [2]. Genetic engineering, combined with assisted reproductive techniques such as DNA microinjection, electroporation of Cas9 RNP/plasmid into early zygotes, somatic cell nuclear transfer (SCNT), and handmade cloning (HMC), holds immense promise for boosting farm animal productivity.

India is a pioneer in animal cloning, with significant achievements like the birth of a live cloned offspring at the National Dairy Research Institute (NDRI), Karnal, and the world's first cloned buffalo calf using handmade cloning in 2009. This was followed by the birth of the first Pashmina goat clone, "Noori," in 2012 at SKUAST-Kashmir [3].

Currently, at least 16 institutions in India are actively involved in gene editing research, with most focusing on crops. Only a few, namely, ICAR-NDRI, NIAB, ICAR-CIRG, and SKUAST-Kashmir, work on animal genome editing. SKUAST-Kashmir as part of the ICAR-NASF consortium project, successfully edited the MSTN gene in sheep and also knocked out the FGF5 gene in Pashmina goats to increase fiber length



## Gene editing and Transgenesis:

Over the last decade, genome editing using designer nucleases like Zinc Finger Nucleases (ZFN), Transcription Activator-Like Effector Nucleases (TALEN), and the CRISPR/Cas9 system has emerged as a promising approach in genetic engineering. CRISPR/Cas9 stands out for its simplicity and predictability, and its capability to target multiple genomic sites simultaneously has made it widely applicable for livestock editing. This system allows precise genetic modifications, significantly enhancing the ease and speed of producing genetically modified livestock.

One prominent example is the knockout of the myostatin (MSTN) gene, associated with growth and muscle development. CRISPR/Cas9 has successfully knocked out MSTN in sheep, goats, and pigs. Another significant accomplishment is the production of tuberculosis-resistant cattle and PRRS virus-resistant pigs.

Tuberculosis-resistant cattle were produced by inserting the NRAMP1 gene into bovine fetal fibroblasts, followed by somatic cell nuclear transfer (SCNT). Additionally, CRISPR/Cas9 has been used to knock in human albumin cDNA at the pig's endogenous albumin locus, resulting in transgenic piglets with human albumin in their blood. Pigs are considered ideal models for studying human diseases due to their anatomical and physiological similarities to humans. CRISPR/Cas9 has enabled the creation of pigs modeling various human diseases: LDL-R and Apo-E double knockout pigs for atherosclerosis, double and triple knockout pigs for Parkinson's disease, and a Huntingtin knock-in pig model for Huntington's disease. Additionally, deletion of the TPH2 gene in pigs produced reduced serotonin levels, aiding the study of neuropsychiatric disorders. Bi-allelic mutation of the TYR gene in pigs resulted in a complete loss of pigmentation, useful for studying human skin pigmentation genetics. Recently, CRISPR/Cas9 was used to create otoferlin gene-edited sheep, a model for genetic human deafness. Mutations in the sheep BMPR-IB (Fec-B) gene and the goat GDF9 gene increased ovulation rates and litter sizes, highlighting their potential for improving reproductive traits.

## Legal landscape of genome-edited animals in India

In India, the regulation of genome-edited animals is primarily governed by the 'Rules for the Manufacture, Use, Import, Export, and Storage of Hazardous Microorganisms, Genetically Engineered Organisms, or Cells' (1989), under the Environment (Protection) Act (1986). Additional relevant laws include the Prevention of Cruelty to Animals Act (1960), which ensures animal welfare in research, and the Wildlife Protection Act (1972), which restricts the hunting and trade of wildlife. The Biotechnology Regulatory Authority of India (BRAI) Bill (2013) aims to establish a regulatory framework for biotechnology, including genome-edited animals.

India is a signatory to the Convention on Biological Diversity (CBD) and the Cartagena Protocol on Biosafety, promoting biological diversity conservation and regulating the transboundary movement of genetically modified organisms. Recently, the Department of Biotechnology published draft guidelines proposing strict regulation of gene-edited organisms. The Genetic Engineering Appraisal Committee (GEAC) is responsible for approving genetically engineered organisms for research, development, and cultivation.

The Ministry of Environment, Forest, and Climate Change has exempted products derived from site-directed nuclease (SDN)-1 and SDN-2 gene editing techniques from GMO regulations. These products, which do not introduce new genetic material, will now be regulated under the Seeds Act rather than the Environment Protection Act. However, SDN-3 products, which involve introducing foreign genes, will still be classified as GMOs. Despite this progress, a comprehensive policy for gene-edited products and organisms remains absent, with no definitive statutory provisions or guidelines established

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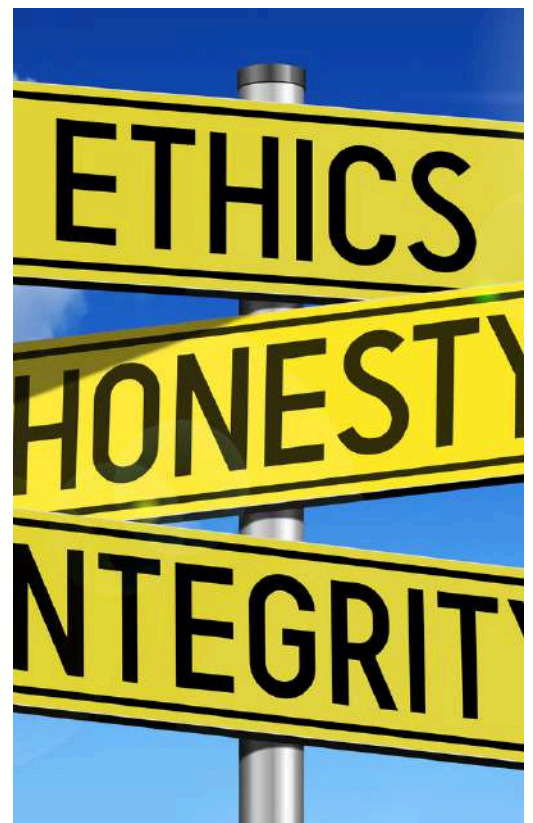
# ETHICAL EMBRYOLOGISTS

MS. ARCHANA MANIKERE



Ethical responsibility is fundamental for every embryologist in all aspects of their work in Reproductive Medicine. These experts perform delicate procedures such as in-vitro fertilization (IVF) and the manipulation of embryos outside the body. Ethical standards are crucial in these practices to ensure patient safety, protect confidentiality, and maintain respect for potential life. Gametes are integral to one's identity; handling them requires meticulous care and precision. These scientists bear a very significant responsibility, as even a slight error could impact the future generations of the patient. Embryologists must make complex decisions, such as selecting embryos for transfer and genetic testing, with the highest level of transparency and respect for patients.

Ethical integrity also extends to donor gametes and embryo disposal, where informed consent and privacy are of top priority. Beyond regulations & compliance, ethics builds trust between embryologists and patients, ensuring treatments align with moral principles and societal norms. Adhering to ethical guidelines safeguards patient welfare and maintains the integrity of scientific research and advances in ART. In a field where decisions impact lives profoundly, moral consciousness is not just a requirement but a cornerstone of responsible practice and innovation in embryology.



# TEAM WORK IN EMBRYOLOGY

MR. RAJESH KUMAR



Embryology Team work coordination play the major role in giving best services and better outcome for infertility patients. Team Work reduces the work pressure and maintains the best quality in embryology work place. The finest team will be able to satisfy the clinical team and patient's utmost level. A collaborative approach ensures precision and reduces the risk of errors.

Teamwork facilitates through quality control and troubleshooting. Different perspectives can help identify and address potential issues, ensuring higher standards of care. Complex cases often require collaborative problem-solving, where the collective expertise and creativity of the team can lead to effective solutions. Embryology teamwork enhances precision, quality, innovation and patient care, making it essential for success in the field.



Embryologists we are  
Believe me we don't do a job we take it as a  
responsibility,  
Working with doctors and producing baby is  
what we claim,  
Bringing smiles, happiness and heaven to the  
couple is our only aim.  
The brain of a scientist, the heart of a nurse  
and hands of a surgeon,  
Developing babies in petri dish is what we  
urge-on.  
Doctors are believed to be the bhramas, As  
the ones who saves life.  
Then embryologists are scrutinized as mini-  
bhramas as the one who creates life.  
Dusk and dawn taking care of gametes, people  
at times call us artists.  
Fertility specialist working behind the  
curtains, We are also recognised as scientists.



SIDDHANTH MORVADIA  
Ferty9 Fertility Center

## SPERM VALUE PARADOX (S VALUE PARADOX)

As we explore biological complexity, it's common to assume that larger species have proportionally larger organs like the brain, heart, and liver. Similarly, it was once believed that smaller animals would have smaller genomes, and as organism size and complexity increased, so would their genome size. However, advanced genetic tools have shifted our understanding. Genome sequencing of various species revealed that genome size does not correlate with organism size or complexity. For instance, the tiny fruit fly (*Drosophila melanogaster*) has a genome size of about 180 million base pairs, while humans have around 3.2 billion base pairs. Despite its small size, the fruit fly has about 14,000 functional genes compared to approximately 20,000 in humans. This discovery shows that genome size and gene count do not directly reflect an organism's complexity, leading to the unveiling of the C Value Paradox.

Species	Sperm Size (µm)	Number of Functional genes	Total Genome Size (Gb)	S Value Paradox Index
Human	50-60	~20,000	~3.2	~0.00034
Mouse	120	~23,000	~2.7	~0.012
Rat	170	~22,000	~2.75	~0.017
Frog ( <i>Xenopus</i> )	50-60	~20,000	~1.5	~0.004
Fruit Fly( <i>Drosophila</i> )	1.8mm	~14,000	~0.18	~0.6
Sea Urchin	50	~23,000	~0.8	~0.00125
Dog	60-70	~19,000	~2.4	~0.0017
Cat	60-70	~20,000	~2.7	~0.0017
Cow	50-70	~22,000	~3.2	~0.0016
Chicken	100	~17,000	~1.2	~0.0029
Zebra Fish	50-60	~26,000	~1.7	~0.0018

*The S Value Paradox denotes the intriguing phenomenon where sperm size varies independently of organismal complexity, often leading to simpler organisms possessing unexpectedly large sperm compared to their more complex counterparts.*

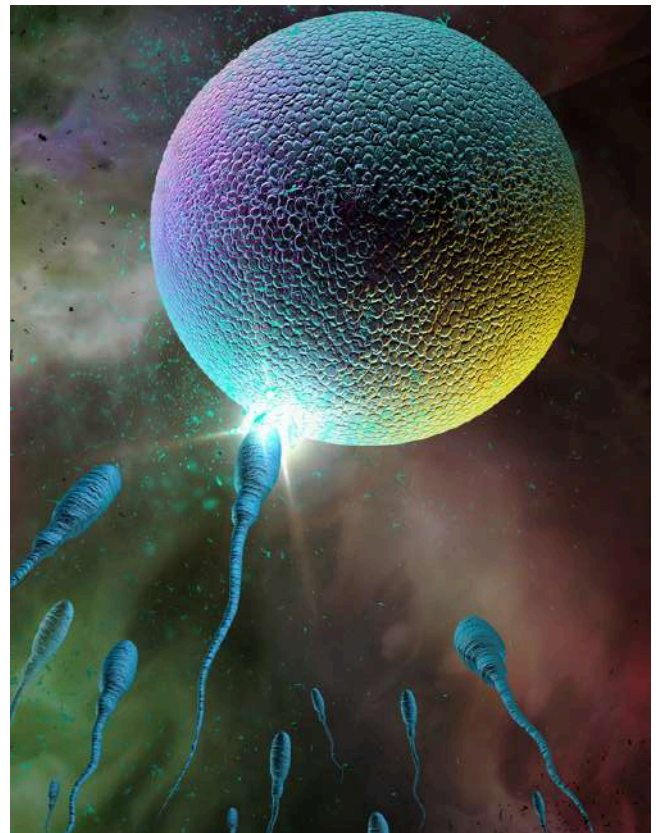


### SANKETH DHUMAL SATYA

As a biologist and embryologist, I started taking deep dives into the world of sperm biology from my initial days in embryology. I noticed that a similar paradox exists with sperm sizes and organism complexity. Let me put it simply: for instance, the fruit fly has a sperm length of 1.8 mm, whereas human sperm is only about 50-60 micrometers long. This counterintuitive observation led me to name this phenomenon the S Value Paradox.

*The C Value Paradox refers to the observation that there is no consistent correlation between the genome size (measured as the total amount of DNA, or the "C value") of an organism and its perceived complexity or number of functional genes.*

Understanding how evolution has established these benchmarks remains a profound mystery. As embryologists, we understand many facets of sperm mechanics, yet we've only scratched the surface. Just like the C Value and S Value Paradoxes, countless other paradoxes await discovery. These enigmas highlight the wonders of nature and evolution, revealing complex mysteries that continue to captivate and challenge our understanding.



# The quiet struggle: The story of embryologists you've never heard



**DR. PUSHYAMI GORRIPATI**



**Burnout in embryology**

In the world of assisted reproductive era (ART), Embryologists are like unseen heroes, cautiously guiding the adventure from idea to implantation. Behind the scenes, those devoted Embryologists deal with a mix of feelings, duties, and pressures. But regrettably, their intellectual fitness frequently receives omitted.

Embryologists work at the intersection of science and emotions. Every decision they make affects the hopes of many couples. This responsibility, along with the complex nature of ART procedures, creates a significant amount of stress. They constantly feel the pressure to achieve the best results, and the fear of making a mistake adds to their anxiety. Additionally, dealing with emotionally vulnerable patients in fertility clinics makes their job even more challenging.

The fast-paced environment of fertility clinics and the high volume of procedures mean they must make quick decisions, leaving no room for errors. This constant rush can leave them feeling overwhelmed and exhausted.

More and more embryologists are experiencing burnout. Their work is demanding, and they spend long hours in the lab, which makes them physically and emotionally drained. Unlike other medical jobs, they don't always see immediate results in ART procedures. This uncertainty adds to their stress. Also, supporting patients emotionally through their fertility journey takes a toll on their mental health. Despite their best efforts, they may not always see the desired outcomes, leaving them feeling disappointed and questioning the purpose of their work.

## **Stress about results**

A significant part of an embryologist's job is selecting embryos for transfer. This is a huge responsibility because each embryo represents the hopes of becoming a parent. The process of selecting embryos is full of uncertainty, and embryologists must rely on their expertise to make the best choices. The fear of making a wrong choice or delivering bad news to patients can create a lot of stress and anxiety for them.

## **Lack of appreciation**

Embryologists work tirelessly, but their efforts often go unnoticed. They play a vital role in ART procedures, but they don't always get the recognition they deserve. This lack of appreciation can affect their confidence and make them lose interest in their work.

## **Positive aspects of being an embryologist**

Despite the challenges, being an embryologist is highly rewarding. Every successful embryo transfer brings hope and happiness to hopeful parents. When couples achieve pregnancy through assisted reproductive strategies, it is immensely satisfying for embryologists. They feel proud, knowing that their work directly contributes to building families.

## **Continuous learning and innovation**

Embryology is constantly evolving with new technologies and research. Embryologists have the opportunity to continue learning and stay updated with the latest developments. This keeps their work exciting and allows them to find new ways to improve ART outcomes.

## **Strong bonds with patients and colleagues**

Even though they work behind the scenes, embryologists build strong connections with their patients and other clinical staff. They become trusted allies for couples going through fertility treatments. Working closely with doctors, nurses, and healthcare professionals creates a supportive environment where everyone's efforts are appreciated.

## **Celebrating successes and milestones**

While the job has its challenges, embryologists also celebrate successes along the way. Every successful pregnancy and birth is a reason to celebrate and feel proud. These moments remind embryologists of the positive impact they have on people's lives and motivate them to keep going, even during tough times.



# MARVELS OF MACS

DR.G.DIVYASHREE

**Magnetic Activated Cell Sorting (MACS), It acts as a magical tool that has an immense impact on sperm preparations, more than just being a magnet.**

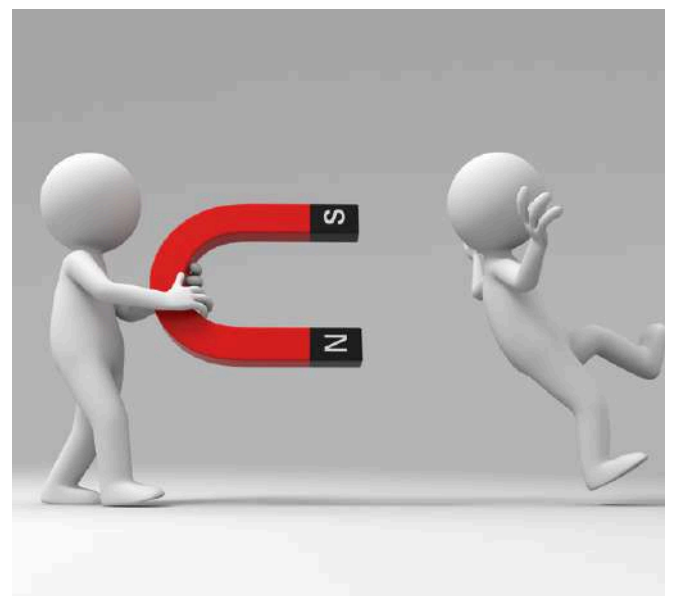
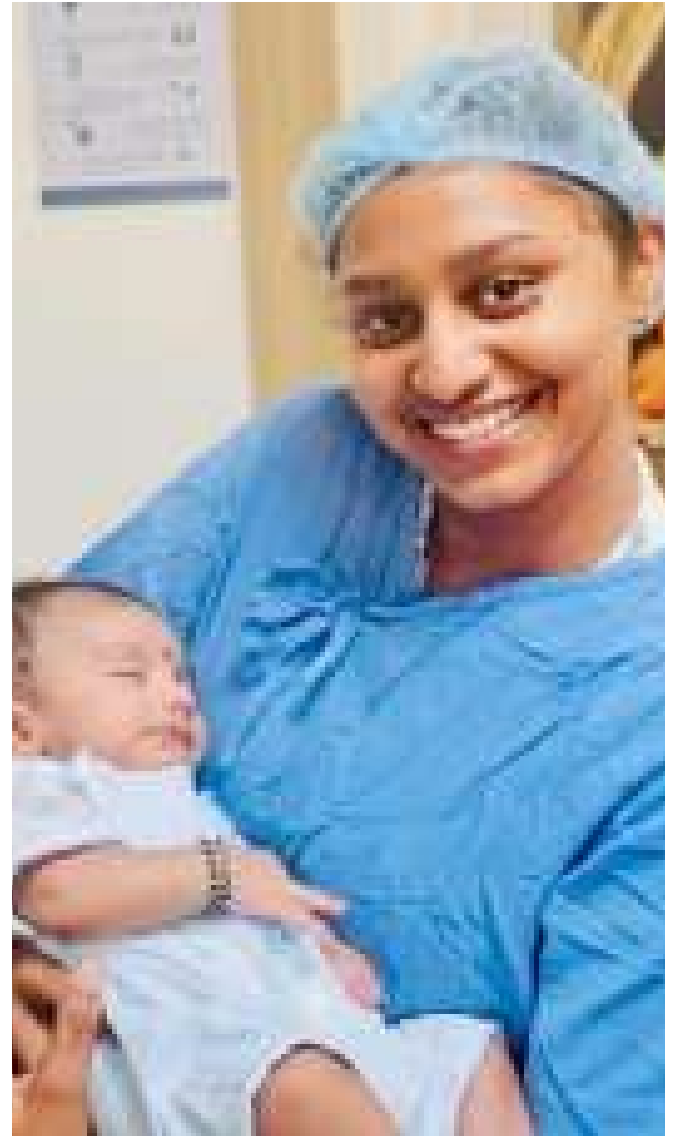
I'm thrilled to tell you a little Magical MACS story. As a young homoeopathic physician and embryologist, I am constantly curious about the case's history because it enables us to the unlock new techniques rather than going with the traditional methods. This was an unfortunate instance from a year ago; that the patient husband's semen sample had a high DFI, and conventional ICSI and traditional sperm preparations were used which encountered an embryonic arrest on Day -3. A year later, the same couple wished to try one more IVF cycle, their faith has created such a wonderful miracle and they were blessed with a handsome BABY BOY. The innovative technique in sperm preparations, MACS, solely rendered this magic possible!

On the day of ovum pickup, we proceeded with the meticulous preparation of the semen sample as directed in the instruction manual. The MACS principle technique distinguishes apoptotic spermatozoa from healthy sperms. Spermatozoa which are apoptotic will be retained inside the preparation column and the remaining healthy viable sperms are passed through the column and collected in a new conical tube.

Every spermatozoon has a certain amount of vitality, and they all undergo a process known as apoptosis which causes their death. If an oocyte is fertilized by an apoptotic sperm cell, the resulting embryo will probably develop abnormally or fail to develop at all. An early miscarriage is the common outcome of such a pregnancy. To avoid that, the spermatozoa that are still viable and shows no signs of apoptosis will be collected and passed through a magnetic column for later use. "Healthy" sperm can be utilized for IUI, IVF, and ICSI, among various infertility treatment techniques.

Following the MACS semen preparations, the ICSI procedure was performed using a PICSI dish. And it felt like years of exile to wait for the five days of culture. I was so excited to see the embryo's Day-5 status that it seemed as though my heartbeat was filling the entire lab. We were astonished to see three beautiful blastocysts which we did vitrification and later we did frozen embryo transfer which developed into a beautiful BABY BOY.

This success, in my opinion, can only be attributed to the equal participation of both the embryologist and the clinician, who managed the case with great ease and made some unconventional decisions rather than using the standard conventional IVF techniques.







## IT'S NOT YOU, IT'S ME!

Sakshi Patwardhan



Imagine a sperm telling an oocyte, it's not you it's me! Weird, isn't it? You must be wondering how this gen-z phrase so common in these times, holds relevance in infertility. Let me tell you how!

Lets brush up your knowledge about human gametes first, commonly referred as ovum/oocyte/egg produced in females and spermatozoa/sperms produced in males. Female releases one oocyte per month whereas male produces millions of sperms every day. Yes god has been very careful there! Uterus makes itself ready to receive the oocyte, nourish it and grow it into a baby. It produces multiple layers of cushion by thickening its inner layers to make it comfortable for the growing baby. If the egg and sperm fuses together, it results in fertilization. This fusion results into zygote formation which grows up to form a baby. It comfortably grows and flourishes in uterus. But if oocyte fails to fertilize, it will be degenerated and all the layers of uterus are flushed out of the body in the form of blood, which we commonly call as periods or menstruation.

Now let's talk about genetics. Every human body comprises of 23 pairs of chromosomes. These chromosomes contain DNA, the helical structure which makes humans a human and, monkeys a monkey. This DNA, consists genes, not jeans though they are pronounced same, but a gene. The basic physical and functional unit of heredity. Out of these 23 pairs of chromosomes, 22 pairs are autosomal chromosomes which are needed for survival and proper functioning of the body. The remaining one pair is the hero as it is a sex chromosome or allosome which is involved in sex determination of the baby. Yes this is the thing that decides if you will ever need a nose job in your life. And these genes also decide if you will be a male or a female. Though it gives you full freedom to identify yourself as per your choice but your outer appearance is governed by these genes. A baby gets these genes from both the parents equally. No matter how much we hate algebra in our school, but finding X and Y will be an eternal problem in our live.

Throwing baby showers and gender reveal has become a new trend. There are numerous videos on social media celebrating the gender reveal with blue and pink color theme party. It's a girl if it's pink and a boy if it's blue. But the actual question is do we know which parent determines the gender of the baby?

Lets see, a female has XX chromosome and a male has XY chromosome along with 22 pairs of autosomal chromosomes. The baby will receive only one chromosome from the mother. It's going to be one X as woman has both X's. The other half, comes from the father, which can be either X or a Y. If it's Y, it's a boy making it XY chromosome. But if its X, it's a girl as its XX chromosome. It's the man who is responsible for the gender determination of the baby. Yes you heard me right, it's the male partner.

In many counties it's believed that woman is responsible for the gender of the baby and therefore society needs to be educated. Countries like India and UK have banned pre-natal sex determination and have imposed strict penalties if found to do so, completely defying cultural preference of a male child over a female child. China, Nepal, and Vietnam has explicitly prohibited sex-selective abortions whereas other countries have made sex determination illegal to prevent female foeticide and infanticide. Child irrespective of their gender is a blessing and should be celebrated and accepted whole heartedly in the family. Experiencing parenthood is magical. Seeing your child grow and learn is every parents dream. Not only it strengthens the bond for a couple but also brings immense joy in the family. So let's begin the journey of parenthood armoured with this new piece of information.



# DNA FRAGMENTATION IN SPERMS



MS.SALMA MEHAR  
CAIRO UNIVERSITY, EGYPT

DNA fragmentation is one of the many factors that affect the success of IVF cycles.

The exact reason why DNA fragmentation happens is still not quite clear but there are some suggested scenarios.

One of them hypothesize that the replacement of histone with protamine during the process of spermatogenesis can lead to DNA breakage . This replacement ( also called the process of protamination ) results in a greater compaction of the DNA molecule than what usually occurs in the somatic cells .

This results in a forced twisting of the DNA molecule and eventually break , if controlled DNA nicking and repair did not happen by topoisomerase II.

Another scenario suggests that excessive oxidative stress in the male reproductive tract can lead to DNA fragmentation.

An inflammatory response that leads to leukocytes and macrophages activation and subsequent release of high quantities of ROS ( reactive oxygen species ) or the presence of many immature sperms with excessive amounts of residual cytoplasm may also lead to induction of endogenous redox reactions leading to elevated oxidation level.

Whatever the case is , A test called DNA fragmentation test is done to detect the percentage of the fragmentation.

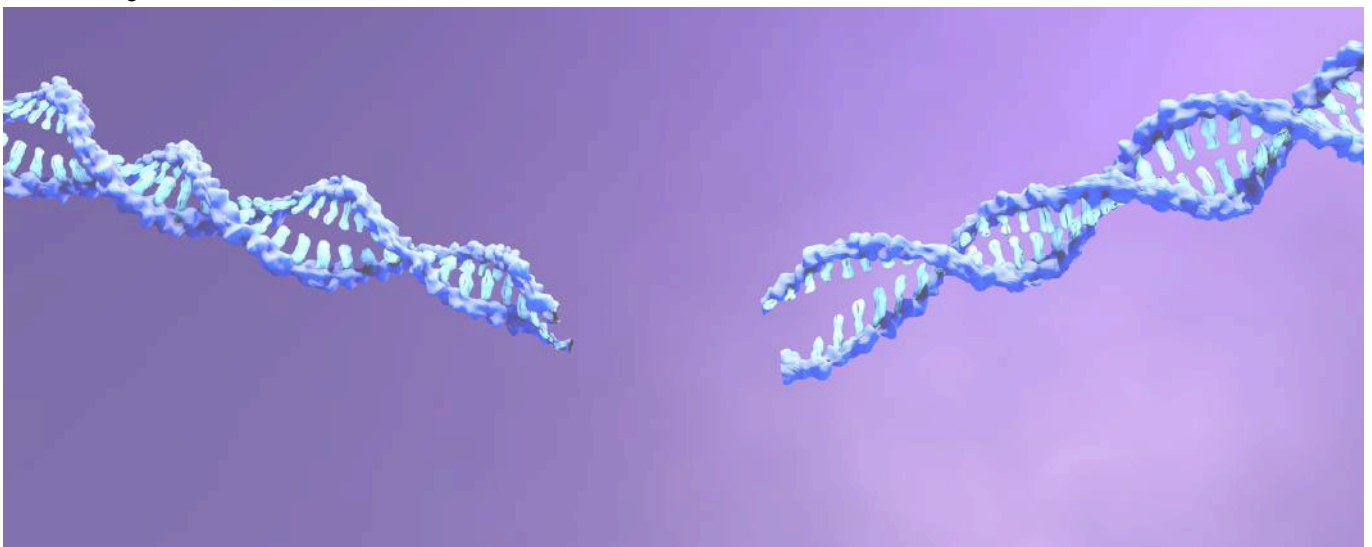
Sperm DNA fragmentation test or sperm chromatin dispersion test (SCD) is based on the principle that normal sperm with normal DNA produce characteristic halo when the DNA loops are dispersed after denaturation by acid and removal of nuclear proteins by lysis solution.

Sperm with fragmented DNA fails to produce the characteristic halo of dispersed DNA loops.

The interpretation of the test is as follows:

- Sperm with a large or medium halo is considered of non-fragmented DNA.
- Sperm with small or no halo is considered of fragmented DNA.
- Sperm with low staining or pale in color is considered degraded.

- *Sperm with a large or medium halo is considered of non-fragmented DNA.*
- *Sperm with small or no halo is considered of fragmented DNA.*
- *Sperm with low staining or pale in color is considered degraded.*



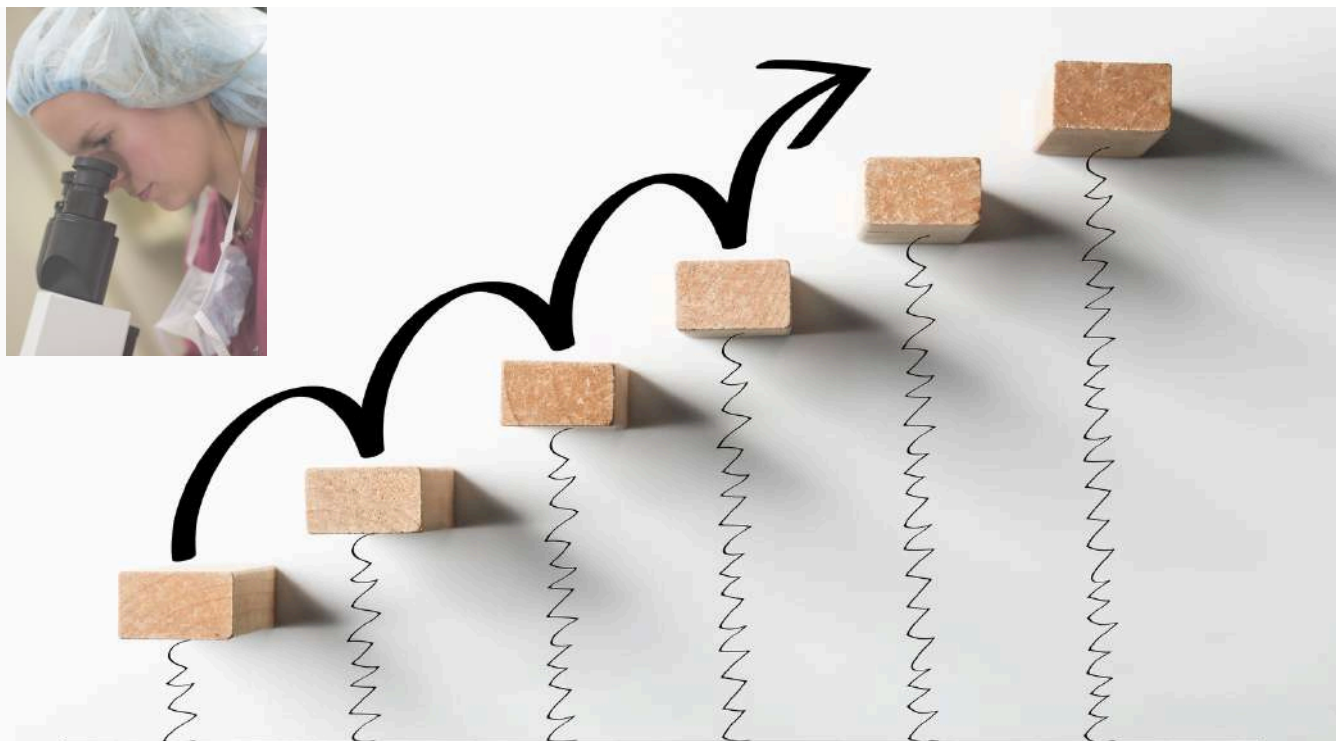
# BECOMING A SUCCESSFUL EMBRYOLOGIST: KEY STEPS



VENKATESWARA RAO NAMBULA

- **Choose a High-Throughput IVF Centre:** Opt for a center performing at least 15 cycles per month for diverse hands-on experience.
- **Get More Education and Skills:** Obtain a master's in clinical embryology and master IVF basics and advanced techniques like IMSI and PGS.
- **Get into Specialized Training:** Engage in short to long-term training programs to enhance skills and stay updated.
- **Fit Into Demanding Work Conditions:** Be prepared for high-stress, odd hours, and maintain flexibility and resilience.
- **Learn Advanced Techniques:** Master emerging techniques like time-lapse imaging and artificial oocyte activation.
- **Foster Honesty and Collaboration:** Maintain transparent communication with staff and patients.
- **Exercise Meticulousness and Accountability:** Ensure precision in lab work, admit mistakes, and learn from them.
- **Prioritize Health and Well-being:** Manage stress through exercise, healthy habits, and mental fitness.
- **Develop Personal Qualities:** Uphold ethics, honesty, concentration, and trustworthiness.
- **Stay Active:** Engage in research, write articles, and stay updated with the latest scientific developments.

Education, hands-on experience, continuous learning, and self-growth are essential for becoming a successful senior embryologist.



## THE VITAL SYNERGY BETWEEN EMBRYOLOGISTS AND CLINICIANS IN FERTILITY SUCCESS



**DR M NIHARIKA**

In fertility treatments, the collaboration between embryologists and clinicians is essential. Both play unique but interconnected roles that are critical for success.

### IMPORTANCE OF COLLABORATION

Clear communication between embryologists and clinicians is essential for sharing patient information, lab results, and treatment plans, ensuring that everyone is on the same page. Joint decision-making, which combines medical insights with lab findings, helps in selecting the best treatment options. Coordinated efforts ensure timely and accurate procedures, minimizing errors and ensuring that procedures are performed at the right time. This collaboration also allows for customized treatments tailored to each patient's needs, increasing the chances of success. A unified team approach provides consistent support, offering better emotional support to patients and reducing their stress throughout the fertility treatment process.

### ENHANCING TEAMWORK

- **Regular Meetings:** Frequent discussions keep everyone updated and aligned.
- **Shared Health Records:** Real-time access to patient data improves coordination.
- **Continuous Education:** Ongoing training helps both teams stay current with the latest advancements.
- **Standard Protocols:** Following standardized procedures reduces variability and increases consistency.
- **Feedback Systems:** Regular feedback helps in refining practices and improving outcomes.

*'Effective collaboration leads to better patient outcomes, higher success rates, and a more supportive experience for patients.'*

## CONTINUOUS EDUCATION AND TRAINING FOR EMBRYOLOGISTS



**DR KY RAMKUMAR**

In the rapidly evolving field of reproductive medicine, continuous education and training for embryologists are essential. Staying updated with the latest advancements and techniques not only enhances their expertise but also significantly improves patient outcomes.

- **Reproductive medicine technologies are constantly advancing.** New equipment, software, and laboratory techniques require embryologists to be proficient and adaptable.
- **Regular training helps embryologists refine their skills, ensuring they are adept at handling the latest procedures and protocols in the lab.**
- **Up-to-date knowledge allows embryologists to implement the most effective and innovative techniques, leading to higher success rates in fertility treatments.**
- **Continuous education ensures that embryologists are aware of and comply with the latest regulatory and ethical standards in reproductive medicine.**

**Continuous education and training** for embryologists include various essential methods to stay updated with advancements in reproductive medicine. Attending workshops and conferences provides hands-on experience with new technologies and insights from leading experts. Online courses and webinars offer flexible learning opportunities, while peer collaboration and networking foster knowledge exchange. Engaging with scientific research and publications keeps embryologists at the forefront of innovations. Regular on-the-job training and mentorship programs help them apply new techniques in their daily work, ensuring they remain highly skilled and improve patient outcomes in fertility treatments.

# THE EMBRYOLOGIST



## RAMYA NAYAK

In the quiet of the laboratory,  
Under the glow of gentle light,  
Embryologists weave their magic,  
Bringing hope into the night.

From a single cell they witness,  
The miracle of life unfold,  
A symphony of creation,  
A zygote forms, the first small sign,  
Of the miracle in the human line.

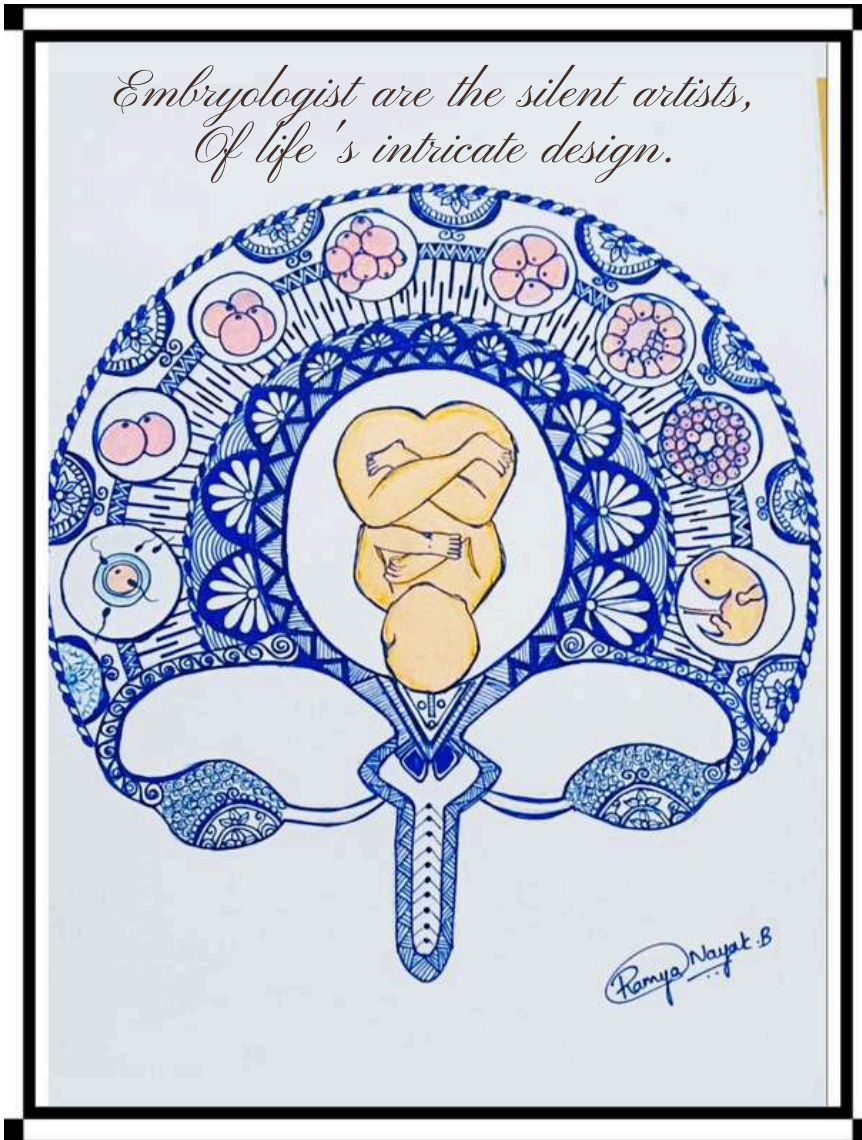
Embryo in a nurturing home,  
Prepares to carve its flesh and bone.  
A story written in every cell,  
Of mysteries only time will tell.

Heartbeats echo, limbs extend,  
Nature's marvel, without end.  
From sperm and egg, an embryo starts,  
A testament to life's fine arts.

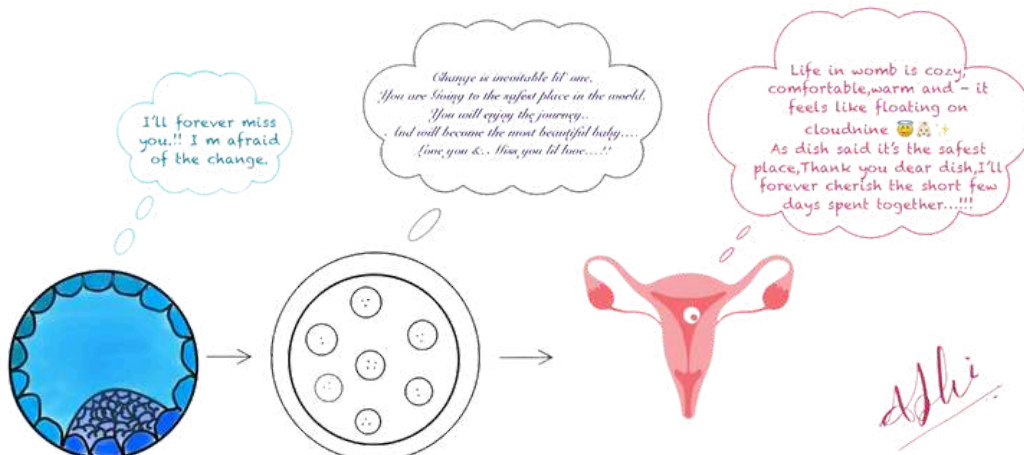
Embryologist are the silent artists,  
Of life's intricate design,  
Transforming dreams and wishes,  
Into realities that shine.

With patience and precision,  
They nurture every spark,  
Illuminating pathways,  
Through the vast and unknown dark.

In their work, there lies a promise,  
Of futures bright and new,  
For every life they touch upon,  
A legacy to pursue.



### A little Embryo's Big Adventure



# TROPHECTODERM BIOPSY ENIGMA: EMBRYO JEOPARDY

**MRIDULA NAIR**



*Trophectoderm biopsy, a procedure used in preimplantation genetic testing, involves removing a few cells from the outer layer of a blastocyst. This technique allows for genetic analysis without harming the inner cell mass that will develop into the fetus.*

*The enigma of trophectoderm biopsy lies in balancing its invaluable benefits with the potential risks to embryo health. Continuous advancements in technology and research are essential to mitigate these risks and enhance the safety and accuracy of this crucial procedure in reproductive medicine.*

## EXCHANGE KNOWLEDGE

Join our community for dynamic knowledge sharing and discussion.

## RESEARCH PROJECT

Collaborate and engage in innovative academic projects in embryology.

## KNOW ABOUT THE LEGENDS

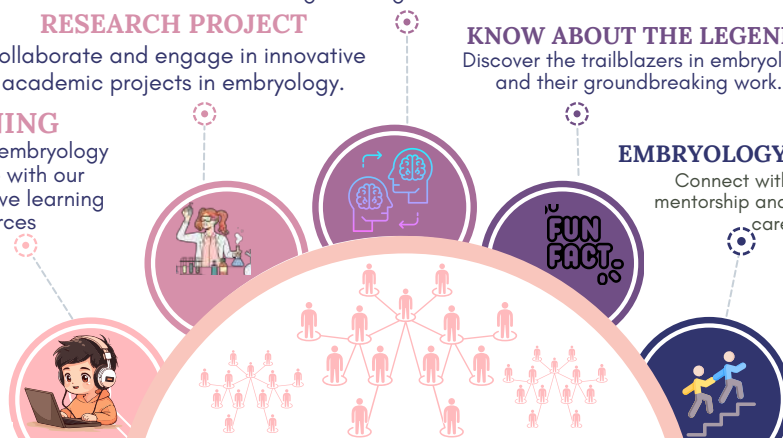
Discover the trailblazers in embryology and their groundbreaking work.

## LEARNING

Expand your embryology knowledge with our comprehensive learning resources

## EMBRYOLOGY MENTORSHIP

Connect with experts for mentorship and advance your career.



[WWW.EMBRYOCONNECT.NET](http://WWW.EMBRYOCONNECT.NET)



# P. Thodre Jones

## Embryologist

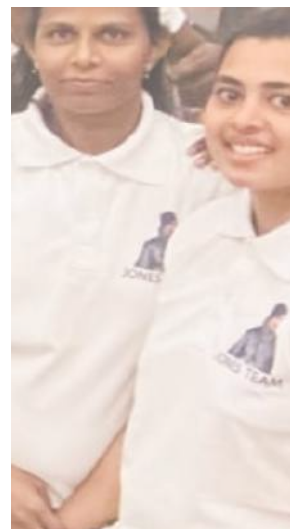


*"In his memory, a friend established the Jones Academy of Clinical Embryology in Chennai, Tamil Nadu. This academy serves as a testament to Jones' commitment to nurturing talent and advancing the field of embryology".*

P. Thodre Jones was a dedicated and passionate embryologist whose legacy continues to inspire many in the field. Born on 1975 in Bangalore, India, he pursued his education with a strong focus on medical laboratory technology. After completing his Diploma in Medical Laboratory Technology in 1995, he ventured into the field of embryology, a journey that would define his life's work. Jones began his career as a Reproductive Biologist at the IVF unit of Almana General Hospital in Dammam, Saudi Arabia, in March 1998. Here, he honed his skills in andrology and embryology, working tirelessly for six years and contributing significantly to the hospital's success in infertility treatments. His expertise in IVF-ICSI, and quality control set him apart as a skilled professional in the field.

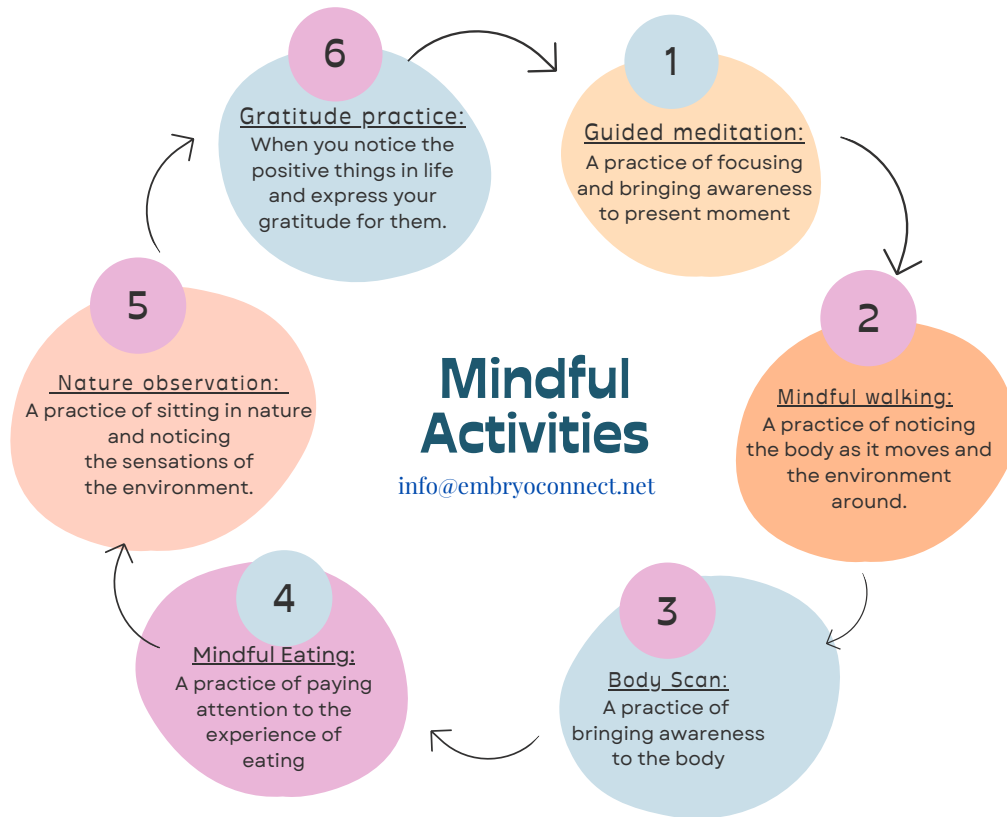
P. Thodre Jones' influence extended beyond his direct work in fertility centers and freelancing. In his memory, a friend established the Jones Academy of Clinical Embryology in Chennai, Tamil Nadu. This academy serves as a testament to Jones' commitment to nurturing talent and advancing the field of embryology. Through this academy, his legacy continues to inspire and educate future generations of embryologists, ensuring that his passion for the field lives on.-

Beyond his professional achievements, Jones was known for his loving heart and caring nature. He touched the lives of many with his kindness and compassion, leaving a lasting impression on all who knew him. Despite his passing on May 1, 2019, his legacy lives on, inspiring others to pursue excellence in the field of embryology.



# EMBRYOLOGIST WELLNESS CLUB

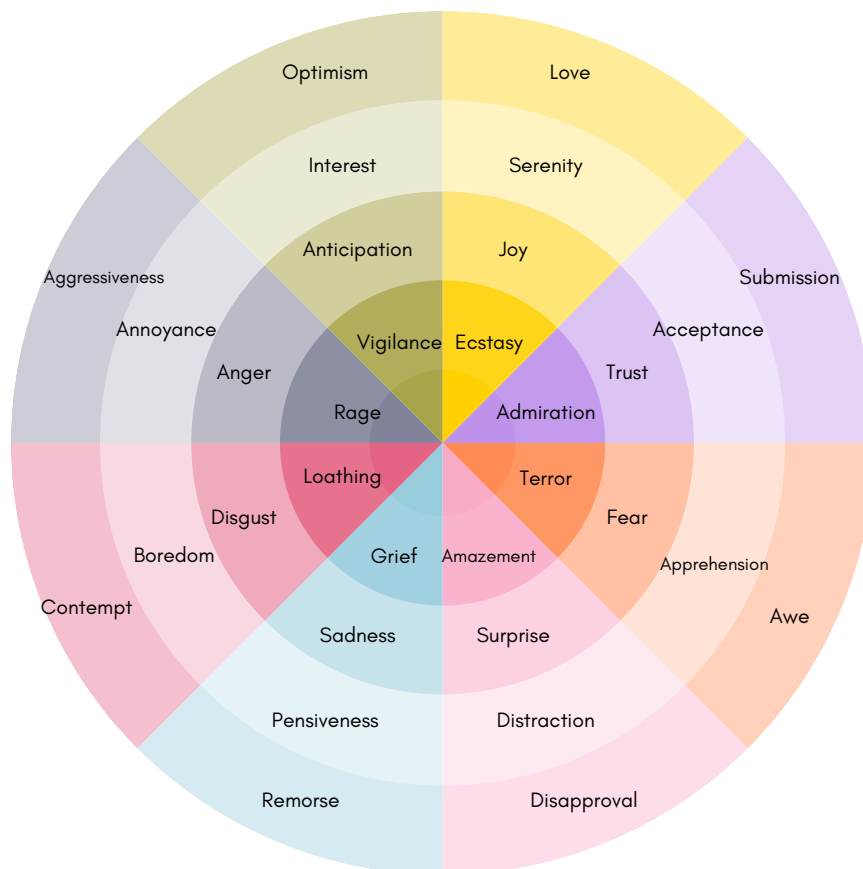
WE TALK MORE ABOUT SCIENTIST



Connect, Recharge, Inspire

A World's First Initiative for Professional Growth and Balance for Embryologist

## Wheel Of Emotions





# BOOK REVIEW



Durai P.'s "Quality Control in ART Laboratories," published by CRC Press, UK, is a vital resource for anyone involved in assisted reproductive technology.

Durai P. brings clarity to the complex world of ART laboratory operations, focusing on practical aspects of quality control, from equipment calibration to procedural consistency. The book stands out for its blend of theory and real-world application, offering actionable insights and examples.

**Dr Prasad**  
**Anu Test tube baby centre,**  
**Hyderabad**

"Quality Control in the Assisted Reproductive Technology Laboratory" by Durai P. The author expertly addresses the importance of standard operating procedures and meticulous documentation, providing clear, practical guidance. The book is both informative and easy to navigate, making it an invaluable resource for maintaining high standards and improving outcomes in ART practices.

A must-have for embryologists and lab managers dedicated to excellence in reproductive medicine.

**Dr Charulata C**  
**Senior Embryologist**



## LIST OF REGISTERED ART CLINICS IN TELANGANA

M SN	Name of the Clinic/Bank	Name of the District	Type of clinic	Email
1	Anu fertility and contraception services and reaserch institute Pvt Ltd	Hyderabad	ART Clinic Level-2	anutesttubebaby@gmail.com
2	Mamata Fertily Hospital (A Unit of Infertility Institute & Research Centre Pvt Ltd)	Hyderabad	ART Clinic Level-2	art@mamatafertility.com
3	Ferty9 Fertility Center A Unit of Star Fertility Pvt .Ltd	Hyderabad	ART Clinic Level-2	jhansieferty9.com
4	Kims Fertility Centre	Hyderabad	ART Clinic Level-2	kimsfertilitycentre3@gmail.com
5	Kims Fertility Centre	Hyderabad	ART Bank	kimsfertilitycentre3@gmail.com
6	Oasis Center for reproductive (A Unit of Sadguru Healthcare Services Pvt (Ltd)	Hyderabad	ART Clinic Level-2	art.sbeoasisindia.in
7	Birth Right Fertily by Rainbow Hospital -Banjarahills	Hyderabad	ART Clinic Level-1	brfrh.bnjarainbowhospitals.in
8	Art Fertily a Unit of Global Fertily Solutions Private Limited	Hyderabad	ART Clinic Level-2	arthyd.legal@artfertilityclinics.com
9	ziva embryology and fertily institute	Hyderabad	ART Clinic Level-2	infoezivafertility.com
10	Southern Gem Hospital	Hyderabad	ART Clinic Level-1	accounts@southernGem.in
11	Hegde Hospital	Hyderabad	ART Clinic Level-2	drvandanahegdehospital.com
12	Medicover Health Thcare Pvt Ltd	Hyderabad	ART Clinic Level-2	medicover.hydrlegalemedicoverfertility.com
13	Indira ivf clinic (a unit of indira ivf hospital pvt. Ltd.)	Hyderabad	ART Clinic Level-1	centerhead.secunderabad@indiraivf.in
14	Ovum Bank	Hyderabad	ART Bank	chandu.lakkireddie@gmail.com
15	Esha IVF Fertily Center	Hyderabad	ART Clinic Level-2	prabhat.lakkie@gmail.com
16	Mira Fertily	Hyderabad	ART Clinic Level-2	info.mirafertility@gmail.com
17	Sudha Fertily and day cae centre	Hyderabad	ART Clinic Level-2	accounts.hyd@sudhahospitals.com
18	Ferticare IVF Asist	Hyderabad	ART Clinic Level-2	shrutimanvikare@gmail.com
19	VIRINCHI Health Care Private limited	Hyderabad	ART Clinic Level-2	ravinder.a@virinchi.com
20	Angels Fertily	Hyderabad	ART Clinic Level-2	asmaayasha1975@gmail.com
21	Hegde Fertily	Hyderabad	ART Clinic Level-1	Centerheadmalakpet@hegdehospital.com
22	Avira Fertily ART Clinic	Hyderabad	ART Clinic Level-2	avirafertilitycenter@gmail.com
23	Felicity Ivf and Fertily Center	Hyderabad	ART Clinic Level-2	maddireddysumanth@gmail.com
24	Birth Right Fertily by Rainbow Hospital -Kondapur	Hyderabad	ART Clinic Level-2	karuna.perainbowhospitals.in
25	Trinity Fertily Services Private Limited	Hyderabad	ART Bank	artbank@trinityfertility.com
26	Southern Gem Hospital	Hyderabad	ART Clinic Level-2	drsweta.agarwal@yahoo.com
27	Sadguru Health Service Pvt. Ltd (Fertily -Madinaguda)	Ranga Reddy	ART Clinic Level-2	art.mypre@oasisindia.in
28	Sadguru Health care Services Pvt Ltd	Ranga Reddy	ART BANK	art.mypre@oasisindia.in
29	Oasis Center for reproductive (A Unit of Sadguru Healthcare Services Pvt (Ltd)	Medchal Malkajgiri	ART Clinic Level-1	art.kmpl@oasisindia.in
30	Sadguru Health Service Pvt. Ltd (Fertily -Madinaguda)	Hyderabad	ART Clinic Level-2	art.dsnr@oasisindia.in
31	indria IVF Hospital Private Limited	Hyderabad	ART Clinic Level-2	centerhead.hyderabad@indiraivf.in
32	Sree Fertily & Gyane Centre Private Ltd	Hyderabad	ART Clinic Level-2	sreefertilitycentre@gmail.com
33	IVF Access ,Hyderabad a Unit of PN IVF Access Private Limited	Hyderabad	ART Clinic Level-2	jbh.art@ivfaccess.com
34	Nova IVF Fertily kukatpally	Medchal Malkajgiri	ART Clinic Level-2	nova.kukatpally@novaivffertility.com
35	Lush fertily	Ranga Reddy	ART Clinic Level-2	lushfertility@gmail.com
36	Genesis Fertily & Laparoscopy	Ranga Reddy	ART Clinic Level-2	doctors@genesishfertilitycentre.co.in
37	Sadguru Health Service Pvt. Ltd )	Hyderabad	ART Clinic Level-2	art.bh1@oasisindia.in
38	Kamineni fertily Clinic	Hyderabad	ART Clinic Level-2	life@kaminenifertility.com
39	Ferty9 Fertily Center A Unit of Star Fertily Pvt .Ltd	Ranga Reddy	ART Clinic Level-2	rahmatunnisa@ferty9.com
40	Morpheus Kasturi International IVF Center	Hyderabad	ART Clinic Level-2	kalpanaathuru@gmail.com
41	Medical Health and research Institute	Hyderabad	ART Clinic Level-2	drroyarozati@gmail.com
42	Akshaya fertily Cilinic	Hyderabad	ART Clinic Level-2	drmeera1962@gmail.com
43	Nova IVF Fertily Banjara Hills	Hyderabad	ART Clinic Level-2	nova.banjarahills@novaivffertility.com
44	Sai Kiran Hispital (A unit of Kiran Inferility Centre Pvt, Ltd	Hyderabad	ART Clinic Level-2	infoekiranivfgenetic.com

45	Sai Kiran Hispital (A unit of Kiran Inferility Centre Pvt, Ltd	Hyderabad	Surrogacy Clinic	info@kiranivfgenetic.com
46	MOM IVF reasearch center Pvt Ltd	Hyderabad	ART Clinic Level-2	dr.poornimakanth@gmail.com
47	Ferty9 Fertility Center A Unit of Star Fertility Pvt .Ltd	Ranga Reddy	Surrogacy Clinic	rahmatunnisaeferty9.com
48	Sree Raghavendera Fertility centre	Ranga Reddy	ART Clinic Level-2	sreeraghavendrafertility@gmail.com
49	Birth Right Fertility by Rainbow Hospital	Medchal Malkajgiri	ART Clinic Level-1	brfrh.kkp@rainbowhospitals.in
50	Ferty9 Fertility Center A Unit of Star Fertility Pvt .Ltd	Medchal Malkajgiri	ART Clinic Level-1	tankarasampatheferty9.com
51	Womb fertility and Maternity Centre	Ranga Reddy	ART Bank	wombfertility.maternitycentre@gmail.com
52	Womb fertility and Maternity Centre	Ranga Reddy	ART Clinic Level-2	wombfertility.maternitycentre@gmail.com
53	Hegde Fertility	Medchal Malkajgiri	ART Clinic Level-1	Centerheadmiyapur@hegdehospital.com
54	Sumuka Fertility center	Medchal Malkajgiri	ART Clinic Level-2	mumsfertility@gmail.com
55	Dr.Bhavani Fertility Center	Hyderabad	Surrogacy Clinic	drbhavanifertilitycentre@gmail.com
56	Dr.Bhavani Fertility Center	Hyderabad	ART Clinic Level-2	drbhavanifertilitycentre@gmail.com
57	Dr.Radhika fertility and surgical center	Medchal Malkajgiri	ART Clinic Level-2	drradhikasfertility@gmail.com
58	Mira Fertility	Hyderabad	Surrogacy Clinic	info.mirafertility@gmail.com
59	Kims Fertility Centre	Hyderabad	Surrogacy Clinic	kimsfertilitycentre3@gmail.com
60	Hegde Fertility	Hyderabad	Surrogacy Clinic	drvandana@hegdehospital.com
61	Gana sree sai IVF Centre	Medchal Malkajgiri	ART Clinic Level-2	gssivf@gmail.com
62	Gana sree sai IVF Centre	Medchal Malkajgiri	Surrogacy Clinic	gssivf@gmail.com
63	Juhi Fertility Center	Hyderabad	Surrogacy Clinic	nopa56@gmail.com
64	Juhi Fertility Center	Hyderabad	ART Clinic Level-2	nopa56@gmail.com
65	Juhi Fertility Center	Hyderabad	ART Bank	nopa56@gmail.com
66	Angels Fertility	Hyderabad	Surrogacy Clinic	asmaayasha1975@gmail.com
67	Ganasree sai IVF Centre	Medchal Malkajgiri	ART Bank	gssivf@gmail.com
68	Genesis Fertility & Laparoscopy	Ranga Reddy	Surrogacy Clinic	doctors@genesishfertilitycentre.co.in
69	Genesis Fertility & Laparoscopy	Ranga Reddy	ART Bank	doctors@genesishfertilitycentre.co.in
70	Janani Fertility Center	Medchal Malkajgiri	ART Clinic Level-2	jananifertilitycentrehyd@gmail.com
71	Sree Nandaka Fertility and Laparoscopy Hospital	Hyderabad	ART Clinic Level-2	sreenandakafertility@gmail.com
72	Shouryas Testtube Baby Center	Medchal Malkajgiri	ART Clinic Level-2	saishouryahospitale@gmail.com
73	The Boon IVF and fertility center	Ranga Reddy	ART Clinic Level-2	srikarahhealthservices@gmail.com
74	Sadguru Health Service Pvt. Ltd (Fertility - Madinaguda)	Ranga Reddy	ART Clinic Level-1	art.gb@oasisindia.in
75	IRA Fertility and Women Health Care	Medchal Malkajgiri	ART Clinic Level-2	irafertility22@gmail.com
76	Fertinova Fertility	Ranga Reddy	ART Clinic Level-1	fertinovafertility@gmail.com
77	Kiran ART Bank	Ranga Reddy	ART Bank	info@kiranartbank.com
78	kiran infertility centre	Ranga Reddy	ART Clinic Level-1	
79	G.B.R Hospital & Fertility	Ranga Reddy	ART Clinic Level-2	gbrhospital4s.2005@gmail.com
80	Hyderabad Women and Fertility Center	Ranga Reddy	ART Clinic Level-2	hyderabadfertility01@gmail.com
81	Hyderabad Women and Fertility Center	Ranga Reddy	ART Clinic Level-1	hyderabadfertility05@gmail.com
82	Indria IVF Clinic ( A unit of Indria IVF Hospital Pvt Ltd	Hyderabad	ART Clinic Level-1	centerhead.dilsukhnagar@indriaivf.in
83	Oasis Center for reproductive (A Unit of Sadguru Healthcare Services Pvt (Ltd)	Medchal Malkajgiri	ART Clinic Level-1	art.upl@oasisindia.in
84	Geetanjali Test Tube Baby Center (Art Clinic)	Medchal Malkajgiri	ART Clinic Level-2	geetanjali_ivf@yahoo.com
85	ZIVA EMBRYOLOGY and Fertility Institute	Ranga Reddy	ART Clinic Level-2	manikonda@zivafertility.com
86	Sadguru Health Service Pvt. Ltd	Hyderabad	Surrogacy Clinic	art.bh1@oasisindia.in

87	Dr.Padmaja Fertility Center & Nursing Home	Hyderabad	ART Clinic Level-2	info@drpadmajaivf.com
88	Dr.Padmaja Fertility Center & Nursing Home	Hyderabad	Surrogacy Clinic	info@drpadmajaivf.com
89	Ferticare IVF Asist	Hyderabad	Surrogacy Clinic	shrutimanvikar@gmail.com
90	Kamineneni fertility Clinic	Hyderabad	Surrogacy Clinic	lifeekaminenifertility.com
91	Kamala Fertility (A unit of Srinivasa Hospital ) ART Clinic	Ranga Reddy	ART Clinic Level-2	srinivasahospitalhyte@gmail.com
92	durgabai deshमुख hospital & research centre	Hyderabad	ART Clinic Level-1	durgabaideshमुखhospital@gmail.com
93	OVA Fertility Centre	Medchal Malkajgiri	ART Clinic Level-2	ovafertilitycentre@gmail.com
94	Dr.Vasavis Hospital Center For Fertility and Birth	Waragal (Urban)	ART Clinic Level-2	drvasavishospital@gmail.com
95	ART Clinic	Waragal (Urban)	ART Clinic Level-2	originshospital359@gmail.com
96	Oasis Center for reproductive (A Unit of Sadguru Healthcare Services Pvt (Ltd)	Waragal (Urban)	Surrogacy Clinic	art.wl@oasisindia.in
97	Oasis Center for reproductive (A Unit of Sadguru Healthcare Services Pvt (Ltd)	Waragal (Urban)	ART Clinic Level-2	art.wl@oasisindia.in
98	Iswarya Fertility Service Private Limited	Hyderabad	ART Clinic Level-1	iswaryamalaket36@gmail.com
99	OM Birth FertilityCentre	Waragal (Urban)	ART Clinic Level-2	sandhyareddydodda@gmail.com
100	Baby life Hospital	Waragal (Urban)	ART Clinic Level-2	ivfblhpraveena@gmail.com
101	Avni fertility andrology	Hyderabad	ART Clinic Level-2	avnifertility@gmail.com
102	VIRINCHI Health Care Private limited	Hyderabad	Surrogacy Clinic	ravinder.aevirinchi.com
103	Avira Fertility Center	Hyderabad	ART BANK	avirafertilitycenter@gmail.com
104	Avira Fertility Center	Hyderabad	Surrogacy Clinic	avirafertilitycenter@gmail.com
105	Institute of Women Health and Fertility	Medchal Malkajgiri	ART Clinic Level-2	healthandfertility@gmail.com
106	Institute of Women Health and Fertility	Medchal Malkajgiri	Surrogacy Clinic	healthandfertility@gmail.com
107	Revive Clinics and fertility Center	Ranga Reddy	ART Clinic Level-2	revivefertility@gmail.com
108	Revive Clinics and fertility Center	Ranga Reddy	ART Bank	revivefertility@gmail.com
109	OM Birth FertilityCentre	Waragal (Urban)	Surrogacy Clinic	sandhyareddydodda@gmail.com
110	Felicity IVF and Fertility Center	Hyderabad	Surrogacy Clinic	maddiredmysumanthegmail.com
111	Wish Fertility	Nizamabad	ART Bank	wishfertilitynzb@gmail.com
112	Wish Fertility	Nizamabad	ART Clinic Level-2	wishfertilitynzb@gmail.com
113	Hegde Fertility	Medchal Malkajgiri	ART Clinic Level-1	drprashant@hegdehospital.com
114	Medical Health and research Institute	Hyderabad	Surrogacy Clinic	drroyarozati@gmail.com
115	Medical Health and research Institute	Hyderabad	ART Bank	drroyarozati@gmail.com
116	Sai Matrika Facility Centre	Waragal (Urban)	ART Clinic Level-2	matrikaivf@yahoo.com
117	Sai Matrika Facility Centre	Waragal (Urban)	ART Clinic Level-1	saimatrikaivflabse@gmail.com
118	Sai Matrika Fertility Centre	Waragal (Urban)	ART Bank	matrikaivf@yahoo.com
119	Sai Matrika Facility Centre	Waragal (Urban)	Surrogacy Clinic	matrikaivf@yahoo.com
120	EVA IVF	Hyderabad	ART Clinic Level-2	info@evaivf.in
121	ZIVA EMBRYOLOGY and Fertility Institute	Hyderabad	Surrogacy Clinic	sanathnagar@zivaivf.com
122	Laxmi Narasimma IVF Center	Waragal (Urban)	ART Clinic Level-2	lh316@gmail.com
123	Tulasi IVF Center	karimnagar	ART Clinic Level-2	tulasiivfcenter@gmail.com
124	Baby life Hospital	Waragal (Urban)	ART Bank	ivfblhpraveena@gmail.com
125	Genesis test tube baby center	Nizamabad	ART Clinic Level-2	drksswamy503001@gmail.com
126	Iswarya Fertility Service Private Limited	Medchal Malkajgiri	ART Clinic Level-1	iswaryakukue@gmail.com
127	Dr.Praveena Fertility Center	Khammam	Surrogacy Clinic	jsuresh972@gmail.com

128	Dr.Praveena Fertility Center	Khammam	ART Clinic Level-2	jsuresh972@gmail.com
129	HIRA Fertility Centre	Hyderabad	ART Clinic Level-2	fazz.encantador143@gmail.com
130	HIRA Fertility Centre	Hyderabad	Surrogacy Clinic	fazz.encantador143@gmail.com
131	ziva embryology and fertility institute	Ranga Reddy	Surrogacy Clinic	manikonda@zivafertility.com
132	Anu fertility and contraception services and reaserch institute Pvt Ltd	Medchal Malkajgiri	ART Clinic Level-1	prasadatbc@gmail.com
133	Anu fertility and contraception services and reaserch institute Pvt Ltd	Hyderabad	ART Bank	miniatbc31@gmail.com
134	Anu fertility and contraception services and reaserch institute Pvt Ltd	Hyderabad	Surrogacy Clinic	anutessttubebaby@gmail.com
135	ZIVA EMBRYOLOGY and Fertility Institute	Hyderabad	ART Clinic Level-2	sanathnagare@zivafertility.com
136	Mother to be Fertility Clinic	Hyderabad	ART Clinic Level-1	svjayanthi69@gmail.com
137	EVA IVF	Hyderabad	ART Bank	info@evaivf.in
138	EVA IVF, Banjarahills,Hyderabad	Hyderabad	Surrogacy Clinic	info@evaivf.in
139	EVA IVF (A Unit of Prashanth Center for Fertility Pvt Ltd	Waragal (Urban)	ART Clinic Level-2	accounts@evaivf.in
140	EVA IVF (A Unit of Prashanth Center for Fertility Pvt Ltd	Waragal (Urban)	ART Bank	accounts@evaivf.in
141	Iswarya Fertility Service Private Limited	Hyderabad	ART Clinic Level-2	ivfhyderabad11@gmail.com
142	AAROOS Fertility	Karimnagar	ART Clinic Level-2	aaroolsfertility@gmail.com
143	Origin Fertility clinic & research center	Hyderabad	ART Clinic Level-2	syed@originfertilitycenter.com
144	Origin Fertility clinic & research center	Hyderabad	Surrogacy Clinic	syed@originfertilitycenter.com
145	Fertivision Health care Pvt Ltd	Karimanagar	ART Clinic Level-2	chary@ferty9.com
146	Aeva Fertility	Hyderabad	ART Clinic Level-2	aevafertility@gmail.com
147	Aeva Fertility	Hyderabad	ART Bank	aevafertility@gmail.com
148	Genesis Fertility & Laparoscopy centre	Hyderabad	ART Clinic Level-1	anurithfertilitysolutionsegmail.com
149	ziva embryology and fertility institute	Medchal Malkajgiri	ART Clinic Level-2	kompally@zivafertility.com
150	Sree Laxmi Testtube Baby & Multispeciality Hospital	Waragal (Urban)	ART Bank	sreelaxmiivf@gmail.com
151	Sree Laxmi Testtube Baby & Multispeciality Hospital	Waragal (Urban)	Surrogacy Clinic	sreelaxmihospitalssurrogacy12@gmail.com
152	Dr.Padmaja Fertility Center & Nursing Home	Hyderabad	ART Bank	info@drpadmajaiivf.com
153	Dr.Neerajas Fertility AND Gynaec Center	Medchal Malkajgiri	ART Clinic Level-2	neervalli@gmail.com
154	Fehmicare Fertility and Research center	Hyderabad	ART Clinic Level-1	fchfertility@gmail.com
155	Sreelaxmi Test Tube Baby Multi speciality Hospital	Waragal (Urban)	ART Clinic Level-2	sreelaxmihospital@gmail.com
156	Mira Fertility Center	Ranga Reddy	ART Clinic Level-1	sreeramreddymannure@gmail.com
157	OM Birth FertilityCentre	Waragal (Urban)	ART Bank	sandhyareddyodda@gmail.com
158	Sree Nandaka Fertility and Laparoscopy Hospital	Hyderabad	ART Bank	sreenandakafertility@gmail.com
159	Secunderabad	Hyderabad	ART Bank	hameedmd10@ymail.com
160	dharmaraju test tube baby centre	Mancherial	ART Clinic Level-2	chittagiri@yahoo.co.in
161	Womb fertility and Maternity Centre	Ranga Reddy	Surrogacy Clinic	wombfertility.maternitycentre@gmail.com
162	Aadya fertility Center	Jagityal	ART Clinic Level-2	drsujithareddy31@gmail.com
163	Sre Devi Hospital	Waragal (Urban)	ART Clinic Level-1	sridevihospitalhanamkonda29@gmail.com
164	Prashanthi IVF Clinic	Yadadri Bhuvanagiri	ART Clinic Level-2	prashanthiivfcentre7191@gmail.com
165	Konark Hospital	Medchal Malkajgiri	ART Clinic Level-2	konarkfertilitycentre@gmail.com
166	Maa fertility and Hospital	Suryapet	ART Clinic Level-2	themaafertility@gmail.com
167	Shreshta Fertility Centre	Hyderabad	ART Clinic Level-2	shreshtafertilitycenter@gmail.com
168	RAJNI Fertility Center	Karimanagar	ART Clinic Level-2	rajniivfhospital@gmail.com
169	Mother Hospitals and IVF Centre	Medchal Malkajgiri	ART Clinic Level-2	kuttiailapuram7@gmail.com

170	Kiranmayee	Ranga Reddy	ART Clinic Level-1	kiranmayeewomenclinic@gmail.com
171	Rekhasaga IVF and Research Center	Karimnagar	ART Clinic Level-2	drrekharaniakula@gmail.com
172	Srijan Fertility Centre	Medchal Malkajgiri	ART Clinic Level-2	kumarkoka@yahoo.com
173	Swapna Health Care 6-3-1111/19, Nishath Bagh Begumpet	Hyderabad	ART Clinic Level-2	accounts.swapnahealthcare@gmail.com
174	Motherhood Fertility Centre	Ranga Reddy	ART Clinic Level-2	motherhoodfertility@gmail.com
175	M/s 9M Fertility centre (A unit of Ankura Fertility centre LLP)	Ranga Reddy	ART Clinic Level-2	sivalingamanenieankurahospital.com
176	Kamineni Fertility	Ranga Reddy	ART Clinic Level-1	life2@kaminenifertility.com
177	Kamineni Fertility center	Medchal Malkajgiri	ART Clinic Level-1	kamineni@kamineni.org
178	Kamineni fertility centre	Hyderabad	ART Bank	life@kaminenifertility.com
179	Prana Fertility Centre A Unit of JJ Hospital	Hyderabad	ART Clinic Level-1	pranajjhospitalhyde@gmail.com
180	ART Clinic	Hyderabad	ART Clinic Level-2	narmadahadigal@yahoo.com
181	Hegde Fertility	Hyderabad	ART Bank	drvandanahegdehospital.com
182	Southern Gem Hospital	Hyderabad	ART Bank	drsweta.agarwal@yahoo.com
183	Plan B Fertility (A Unit of Suchina Health care and Research Pvt.Ltd)	Hyderabad	ART Bank	drdhatrikumarie@gmail.com
184	Surekha Hospital	Hyderabad	ART Clinic Level-1	drrekhaobg@gmail.com
185	Vijaya fertility center	Peddapally	ART Clinic Level-2	vijayabharati102@gmail.com
186	Secunderabad Womens Clinic and Infertility Center	Hyderabad	ART Clinic Level-2	infoeswcc.com
187	Rohit test tube Centre	Khammam	ART Clinic Level-2	muwachandu@yahoo.com
188	Oasis Fertility ( A unit Sadguru Health care Services Pvt Ltd)	Karimnagar	ART Clinic Level-2	art.kngreoasisindia.in
189	Wings Zoya IVF	Khammam	ART Clinic Level-2	wingszoyaivf@gmail.com
190	Plan B Fertility (A Unit of Sushina Health care and Research Pvt.Ltd)	Hyderabad	ART Clinic Level-2	drdhatrikumarie@gmail.com
191	Ferty9 Fertility Center A Unit of Star Fertility Pvt .Ltd	Waragal (Urban)	ART Clinic Level-2	meenakshieferty9.com
192	M/s Haritha Advanced Pediatric ,Gynaecology Hospital	Medchal Malkajgiri	ART Clinic Level-1	hipbilling@gmail.com
193	Ferty9 Fertility Center(Aunit of star Fertility Pvt.Ltd)	Hyderabad	ART Bank	saikumareferty9.com
194	Medicover Health Thcare Pvt Ltd	Hyderabad	ART Clinic Level-1	medicover.scblegalemedicoverfertility.com
195	Medicover Health Thcare Pvt Ltd	Hyderabad	Surrogacy Clinic	medicover.hydelegalemedicoverfertility.com
196	Medicover Health care Pvt Ltd	Ranga Reddy	ART Clinic Level-1	medicover.legalmiyapur@medicoverfertility.com
197	Sri Chandra Hospital	karimnagar	ART Clinic Level-1	srichandrahospital@gmail.com
198	Pratibha Maternity and ent hospital	Hyderabad	ART Clinic Level-1	drprathibharaju@yahoo.com
199	M/s Sadgruru Health care Services Pvt Ltd.	Hyderabad	ART Clinic Level-2	art.tlck@oasisindia.in
200	Jaiswal Multi Speciality Hospital	Hyderabad	Surrogacy Clinic	umajaiswal25@gmail.com
201	Sreelatha Fertility IVF Center	Nalgonda	ART Clinic Level-2	sreelathaivf@gmail.com
202	Hyderabad Fertility & Research Centre	Hyderabad	ART Clinic Level-2	padmahfc@hotmail.com
203	Esha IVF Fertility Center	Hyderabad	Surrogacy Clinic	prabhat.lakki@gmail.com
204	PVR Hospital	Mahabubnagar	ART Clinic Level-2	tchethana92@gmail.com
205	Aanvi Fertility Womens Centre	Medchal Malkajgiri	ART Clinic Level-1	rahul.kamshetty@gmail.com
206	Aanvi Fertility Womens Centre	Medchal Malkajgiri	ART Clinic Level-2	aanviivf@gmail.com
207	Dr. Archana Fertility and Laparoscopy center	Nizamabad	ART Clinic Level-2	archuomc@gmail.com
208	OOGEN IVF & ART Women Health Care	Hyderabad	ART Clinic Level-2	oogenivfcare@gmail.com
209	Indria IVF Clinic ( A unit of Indria IVF Hospital Pvt Ltd)	Waragal (Urban)	ART Clinic Level-1	centerhead.warangal@indriaivf.in
210	Dr.Vasavis Hospital Center For Fertility and Birth	Waragal (Urban)	ART Bank	drvasavishospital@gmail.com
211	Dr.Vasavis Hospital Center For Fertility and Birth	Waragal (Urban)	Surrogacy Clinic	drvasavishospital@gmail.com
212	Sri Venkateshwara Nursing home	Nirmal	ART Clinic Level-2	vamshi261@gmail.com
213	Prannam Hospitals Private Limited	Ranga Reddy	ART Clinic Level-1	manish@pranaamhospitals.in

214	Joythi Test Baby Centre	Nalgonda	ART Clinic Level-2	jyothifertilitycentremlg@gmail.com
215	Kadimi IVF Center	Nalgonda	ART Clinic Level-2	kadimihospitalnl@gmail.com
216	Samyuktha Fertility Solutions	Hyderabad	ART Clinic Level-1	samyukthafertility@gmail.com
217	Diya Fertility Centre	Medchal Malkajgiri	ART Clinic Level-1	info@diyafertility.com
218	Mamata Fertility Hospital (A Unit of Infertility Institute & Research Centre Pvt Ltd)	Hyderabad	Surrogacy Clinic	art@mamatafertility.com
219	Surya Fertility Associates	Ranga Reddy	ART Clinic Level-1	dr.alekhyareddy@gmail.com
220	Susrutha Test Tube Baby Center	Mahabubnagar	ART Clinic Level-2	dr.prathibhapenumalli@gmail.com
221	Sunrich hospital	Hyderabad	ART Clinic Level-2	bujjibabuk@yahoo.com
222	Amurtha Nursing Home	karimnagar	ART Clinic Level-2	amruthaivf@gmail.com
223	Diksha Test Tube Baby Centre	Hyderabad	ART Clinic Level-2	dikshafertility@gmail.com
224	Bhaskar Medical collage & Bhaskar General Hospital	Ranga Reddy	ART Clinic Level-1	bghms2011@gmail.com
225	Anusri Hospital	Hyderabad	ART Clinic Level-2	anusrihospital@gmail.com
226	Vijayasri Hospital	Hyderabad	ART Clinic Level-1	vijayasrihospital@gmail.com
227	Sree Fertility & Gyane Centre Private Ltd	Nizamabad	ART Clinic Level-2	sreefertilitynz@gmail.com
228	Sree Fertility & Gyane Centre Private Ltd	Hyderabad	ART Clinic Level-2	sreefertilitykd@gmail.com
229	Sreefertility & Gyane Centre Private Ltd	Hyderabad	Surrogacy Clinic	sreefertilitykd@gmail.com
230	Feminova Women wellness cilinc(Unit of Ramaiah hospital)	Ranga Reddy	ART Clinic Level-1	sbrhospitals@gmail.com
231	Surya Fertility IVF ICSI & IUI Center	Waragal (Urban)	ART Clinic Level-2	drkothagattu@gmail.com
232	Iswarya Health Private Limited	Hyderabad	ART Clinic Level-1	secuneiswarya.in
233	Iswarya Fertility Service Private Limited	Hyderabad	ART Bank	ivfhyderabad11@gmail.com
234	Avni fertility andrology	Hyderabad	Surrogacy Clinic	avnifertility@gmail.com
235	Indur Cryosperm Bank	Nizamabad	ART Bank	pradeepivf@gmail.com
236	M/s 9M Fertility centre (A unit of Ankura Fertility centre LLP)	Ranga Reddy	ART Bank	sivalingamaneni@ankurahospital.com
237	M/s 9M Fertility centre (A unit of Ankura Fertility centre LLP)	Ranga Reddy	Surrogacy Clinic	sivalingamaneni@ankurahospital.com
238	Diksha Test Tube Baby Centre	Hyderabad	ART Bank	dikshafertility@gmail.com
239	V R Test Tube Baby Center	Jagityal	ART Clinic Level-2	skreddy24@yahoo.in
240	MOM IVF research center Pvt Ltd	Hyderabad	ART Bank	dr.poornimakanth@gmail.com
241	Nest Fertility and IVF	Medchal Malkajgiri	ART Clinic Level-2	shravani.pulluri89@gmail.com
242	Nest Fertility and IVF	Medchal Malkajgiri	Surrogacy Clinic	shravani.pulluri89@gmail.com
243	Institute of Women Health and Fertility	Medchal Malkajgiri	ART Bank	healthandfertility@gmail.com
244	Lakshmi Fertility & Child Surgery Centre	Ranga Reddy	ART Bank	drkrishnaleela@gmail.com
245	Lakshmi Fertility & Child Surgery Centre	Ranga Reddy	ART Clinic Level-1	drkrishnaleela@gmail.com
246	Siri Fertility Center	Jagityal	ART Bank	srilathahospital@gmail.com
247	Siri Fertility Center	Jagityal	ART Clinic Level-2	srilathahospital@gmail.com
248	Laxmi Narasimma IVF Center	Waragal (Urban)	ART Bank	lnh316@gmail.com
249	Avira Fertility	Hyderabad	ART Clinic Level-1	avirafertilitysec@gmail.com
250	Birthroots Hospital	Mancherla	Art Clinic Level-1	birthrootshospitals@gmail.com
251	Rohit test tube Centre	Khammam	Surrogacy Clinic	muvsachandu@yahoo.com
252	Avi fertility & laproscopic centre	Siddipet	ART Clinic Level-2	avifertility@gmail.com
253	Fertility Center(A Unit of Star Fertility Pvt Ltd)	Medchal Malkajgiri	ART Clinic Level-2	naveen@ferty9.com
254	HIRA Fertility Centre	Hyderabad	ART Bank	fazz.encantador143@gmail.com
255	Indira IVF ( A Unit IVF Hospital Private Ltd)	karimnagar	ART Clinic Level-1	centerhead.karimnagareindiraivf.in
256	Apollo Fertility	Hyderabad	ART Clinic Level-2	kondapureapollofertility.com

257	Dr.Archana Fertility and Laparoscopy center	Nizamabad	ART Bank	archuomc@gmail.com
258	Mathrushree fertility centre	Khammam	ART Bank	neeraj.isac@gmail.com
259	Mathrushree fertility centre	Khammam	ART Clinic Level-2	neeraj.isac@gmail.com
260	Surya Fertility Center	Hyderabad	ART Clinic Level-2	opsmanager.ivfbanjarahillsepollofertility.com
261	Anusri Hospital	Hyderabad	ART Bank	anusrihospitals@gmail.com
262	Syamala Hospital	Khammam	ART Clinic Level-1	drramyabodepudi@gmail.com
263	Hyderabad Women and Fertility Center	Ranga Reddy	Surrogacy Clinic	hyderabadfertility01@gmail.com
264	Jayalaxmi Hospital	Waragal (Urban)	ART Clinic Level-1	annapurna.velanki@gmail.com
265	Sree Fertility & Gyane Centre Private Ltd	Hyderabad	ART Clinic Level-2	sreefertilityhmt1@gmail.com
267	Jaiswal Multi Speciality Hospital	Hyderabad	ART Clinic Level-2	umajaiswal25@gmail.com
268	Shreya Fertility Centre	Nizamabad	ART Clinic Level-2	shreyafertilitycentre@gmail.com
269	Department of ART-Unit of Sundari Maternity and General Hospital	Hyderabad	ART Clinic Level-2	deepthiivf@gmail.com
270	Life -Lakshmi's Adavanced Fertility centre	Ranga Reddy	ART Clinic Level-2	lifebylakshmi@gmail.com
271	Tina fertility and IVF Centre	Mahabubnagar	ART Clinic Level-2	drmitheshatina@gmail.com
272	Rohan Fertility Centre	Karimnagar	ART Clinic Level-2	rohannursinghome@gmail.com
273	Hegde Fertility	Hyderabad	Art Clinic Level-1	centerheadattapurehegdehospital.com
274	Sri CS Memorial Hospital Extension block	Bhadradri Kothagudem	ART Clinic Level-2	aishaarav22@gmail.com
275	Dwarka Fertility Clinic	Medchal	ART Clinic Level-1	vlvasu@gmail.com
276	Dr.Smitha Fertility	Ranga Reddy	ART Clinic Level-1	dr.smithafertilitycentre@gmail.com
277	Nova Pulse IVF Clinic Pvt Ltd	Ranga Reddy	ART Clinic Level-1	aaisha.anjum@novaiiffertility.com
278	Sri CS Memorial Hospital extension block	Bhadradri Kothagudem	ART Clinic Level-1	vyshalidevarapalli@gmail.com
279	Blossoms Hospital	Ranga Reddy	ART Clinic Level-1	muzaferali27@gmail.com
280	Ekam fertility and women	Ranga Reddy	ART Clinic Level-2	nischalacheruku.14@gmail.com
281	Continental Hospital	Ranga Reddy	ART Clinic Level-2	smitha.c@continentalhospitals.com
282	Continental Hospital	Ranga Reddy	ART Bank	smitha.c@continentalhospitals.com
283	Ovacare Fertility Centre	Mahabubnagar	ART Clinic Level-2	ovacarefertilitycentre@gmail.com
284	Dr.padmaja institute for fertility center	Karimnagar	ART Clinic Level-2	vinaybura5@gmail.com
285	Mythri Sri Fertility Centre	Medchal Malkajgiri	ART Clinic Level-1	mythrisrifc@gmail.com
286	Mythri Sri Fertility Centre	Medchal Malkajgiri	ART Clinic Level-2	mythrayi_molugu@yahoo.co.in
287	Mythri Sri Fertility Centre	Medchal Malkajgiri	ART Bank	mythrayi_molugu@yahoo.co.in
289	Dr.Bhoom Reddy Fertility Centre	Karimnagar	ART Clinic Level-1	bhoomreddyknregmail.com
290	Sri Kethana Multi specility clinic	Sanga Reddy	ART Clinic Level-1	srikethanahospital@gmail.com
291	Sri Krishnasai Multi specility Hospital	Karimanagar	ART Clinic Level-1	srikrishnasaihospital@gmail.com
296	Shreya Sharadha Fertility and High Risk Pregnancy clinic	Medchal Malkajgiri	ART Clinic Level-1	dr.indirarani65@gmail.com
297	Kavya Shri Nursing Home	Jagityal	ART Clinic Level-1	puttanagaraj1962@gmail.com
298	MNR Medical college Hospital	Sanga Reddy	ART Clinic Level-1	ceo.aher@mnrindia.org
266	M/s. Ankura hospital for women & children (a unit of ankura hospitals lb nagar pvt ltd)	Ranga Reddy	ART Clinic Level-1	admin_lbnagareankurahospital.com
288	Dr.lalitha fertility&laparoscopic center	Sangareddy	ART Clinic Level-2	
292	Kids clinic india limited cloudnine hospital	Hyderabad	ART Clinic Level-2	mrhtcecloudninecare.com
293	Kids clinic india limited cloudnine hospital	Hyderabad	Surrogacy Clinic	mrhtcecloudninecare.com
294	Anil's surgicare hospital	Mahabubnagar	Art Clinic Level-1	
295	m/s sadguru healthcare services pvt.ltd.-oasis fertility	Warangal urban	Art Clinic Level-2	
299	Genesis fertility and laparoscopy centre ( a unit of sarvani fertility solutions llp )	Ranga Reddy	Art Clinic Level-2	infogenesis.03@gmail.com
300	mom ivf and research center pvt ltd	Hyderabad	Surrogacy Clinic	
301	SREE SWAPNA FERTILITY CENTRE	Hyderabad	Art Clinic Level-2	sreeswapna.fertility@gmail.com
302	Birthplace healthcare private limited	Hyderabad	Art Clinic Level-2	medicalrecordscloudninecare.com
303	Birthplace healthcare private limited	Hyderabad	Surrogacy Clinic	medicalrecordscloudninecare.com



304	Birthright Fertility ( A Unit of Rainbow Clinics )	Ranga Reddy	ART Clinic Level-2	brf.lbnagar@rainbowhospitals.in
305	Fertinova Fertility	Ranga Reddy	ART Clinic Level-2	fertinovafertility2024@gmail.com
306	Sai shubha multispeciality hospital	Nizamabad	ART Clinic Level-1	drrahulkumar06@gmail.com
307	Medcy ivf	Ranga Reddy	Art Clinic Level-2	cfoamedcyhospitals.com
308	Medcy ivf	Ranga Reddy	Surrogacy Clinic	cfoamedcyhospitals.com
309	Motherhood hospitals	Hyderabad	ART Clinic Level-1	rafiashaik960@gmail.com
310	Shubha fertility center pvt ltd	Ranga Reddy	Art Clinic Level-2	gvkreddy20@gmail.com
311	Fernandez Hospital (A unit of Fernandez Foundation)	Hyderabad	ART Clinic Level-1	iui_nrefernandez.foundation
312	Jata Fertility Centre	Ranga Reddy	Art Clinic Level-2	jatafertilitycentre@gmail.com
313	Bommineni hospitals	Ranga reddy	Art Clinic Level-2	bomminenihospitals@gmail.com
314	Dharani hospital (a unit of venkatarama health care)	Sangareddy	Art Clinic Level-1	dharanihospitalsrd@gmail.com
315	Amvi hospital	Ranga Reddy	Art Clinic Level-2	amvifertility@gmail.com
316	AVIRA FERTILITY CENTER	Hyderabad	Art Clinic Level-2	avirafertilitysecl2@gmail.com
317	Birla fertility and ivf a unit of c k birla healthcare pvt ltd	Hyderabad	Art Clinic Level-2	operations.hyderabad@birlafertility.com
318	BirthRight Fertility by Rainbow Hospitals (A Unit of Rainbow Childrens Medicare Ltd)	Hyderabad	Art Clinic Level-2	biag.mh@rainbowhospitals.in
319	BirthRight Fertility by Rainbow Hospitals (A Unit of Rainbow Children's Medicare Limited)	Hyderabad	Art Clinic Level-2	medicaldirector@rainbowhospitals.in
320	Dr neerajas fertility and gynaec center	Medchal Malkajgiri	Surrogacy Clinic	neervalli@gmail.com
321	Padma's trinity ivf	Medchal Malkajgiri	Art Clinic Level-2	padmastrinityivf@gmail.com
322	Vijayalaxmi hospital	Nizamabad	ART Clinic Level-1	drbsujatha@gmail.com
323	M/s. Ankura hospital for women & children (a unit of ankura medical & research centre pvt ltd)	Ranga Reddy	ART Clinic Level-1	admin.madinaguda@ankurahospital.com
324	Birthright Fertility by Rainbow hospitals (A Unit of Rainbow Children's Medicare Limited)	Medchal Malkajgiri	Art Clinic Level-2	srinagadeviprasad.l@rainbowhospitals.in
325	Fertilica ivf & women care center	Hyderabad	Art Clinic Level-2	info.fertilica@gmail.com
326	Sai baba nursing home	Ranga Reddy	ART Clinic Level-1	saiabanursinghome1987@gmail.com
327	Shishira hospitals	Hyderabad	ART Clinic Level-1	info@shishirahospitals.com
328	Swapna health care	Hyderabad	ART Clinic Level-1	swapnahealthcare@gmail.com
329	Aarvi fertility centre	Suryapet	Art Clinic Level-2	premprem.prem4@gmail.com
330	Angel wings hospital	Hyderabad	ART level Clinic-1	angelwingsart24@gmail.com
331	Princess Durrushehvar Childrens and General Hospital	Hyderabad	ART level Clinic-1	info@pdscgh.in
332	Ferty9 fertility center (a unit of star fertility pvt.ltd.)	Hyderabad	Surrogacy Clinic	jhansi@ferty9.com
333	Ferty9 fertility center (a unit of star fertility pvt. Ltd.)	Medchal Malkajgiri	Surrogacy Clinic	naveene@ferty9.com
334	Avni Fertility Andrology	Medchal Malkajgiri	Art Clinic Level-2	avnifertilityandrology@gmail.com
335	BirthRight Fertility by Rainbow Hospitals	Hyderabad	ART level Clinic-1	brfrh.fd@rainbowhospitals.in
336	universal hospital	Medchal Malkajgiri	ART level Clinic-1	drswethajahnavi@gmail.com
337	Megha Hospital	Ranga Reddy	ART level Clinic-1	meghahospital13@gmail.com
338	RAJESHWARI HOSPITAL	Nalgonda	ART level Clinic-1	rajeshwarhospitalnlge@gmail.com
339	SRIDEVI NURSING HOME	Karimnagar	ART level Clinic-1	adisridevinursinghome@gmail.com
340	STAR WOMEN&CHILDREN HOSPITAL	Karimnagar	ART level Clinic-1	starchildrenshospital@gmail.com
341	Sri Garbha Fertility Centre (A unit of Sri Gayatri Health Care)	Khammam	Art Clinic Level-2	srigarbhakmm@gmail.com
342	Karthik super speciality hospital	Khammam	ART level Clinic-1	nagavignesh2009@gmail.com
343	Maatrusri hospital	Kamareddy	ART level Clinic-1	maatrusrihospital@gmail.com
344	Art Fertility Clinics, a unit of Global Fertility Solutions Private Limited	Hyderabad	Surrogacy Clinic	arthyd.legal@artfertilityclinics.com
345	Anu fertility and contraception services and research institute private limited	Ranga Reddy	ART level Clinic-1	atbchyd@gmail.com
346	Iswarya health private limited	Waragal (Urban)	ART Clinic Level-2	anand@iswarya.in

# Upcoming Events

**12<sup>th</sup> International Congress of  
Academy of Clinical Embryologists, India**

# ACE 2024

27<sup>th</sup> - 29<sup>th</sup> September **PUNE**

Hyatt Regency Pune & Residences

**EMBRYOLOGY 2.0**  
Embracing Automation  
Quality & Regulation:

REGISTRATION

**ASRM 2024**  
scientific congress & expo

## ASRM 2024

Equity, Access, and Innovation  
Denver, Colorado  
October 19-23, 2024

# fusion 2024

## International Conference on Reproductive Medicine

13-15 September 2024

📍 Jaipur, India

ISFP Newsletter ▼

**8TH BIENNIAL WORLD CONGRESS (2024)**

Tokyo, Japan, November 15-17, 2024

Location: Congresses → Biennial World Congress

Save The Date  
**November 11-13, 2024**  
Detroit, MI, USA

**The 16<sup>th</sup> Annual Conference of The Oncofertility Consortium**

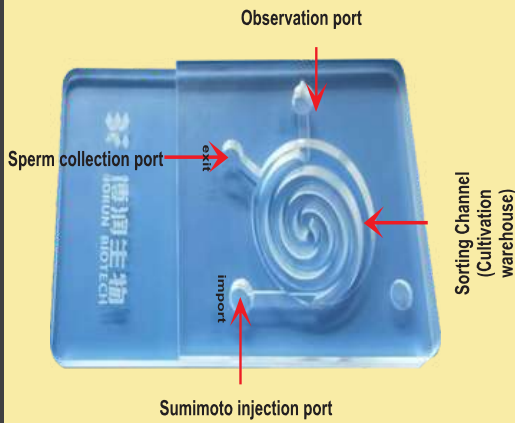
Hosted by Henry Ford Health & Michigan State University Health Sciences  
Detroit Marriott Renaissance Center

**WORLD EMBRYOLOGIST  
DAY 2024 CELEBRATIONS**

July

25

### Sperm Cell Sorter



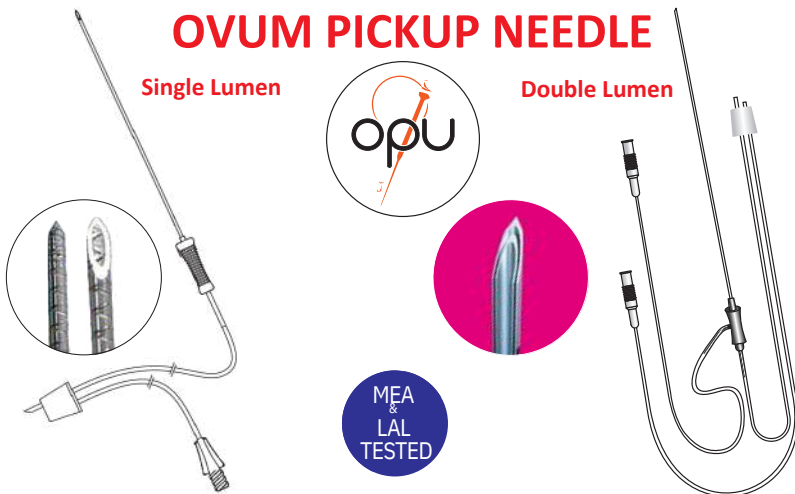
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- Ferticult Aspiration Medium
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- Sil-Select Plus (Gradient Media)
- SpermFreeze

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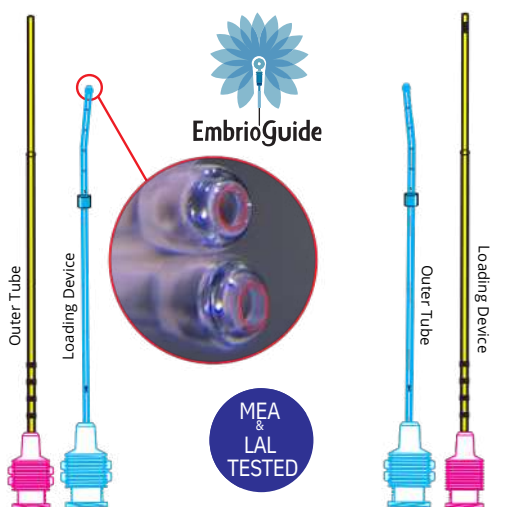


### OD-PET



### Embryo Transfer Catheter

NON ECHOGENIC TIP      ECHOGENIC TIP



### EASY-FLEX

Metal Outer Stylet & Catheter



### IVF Gen

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3ml Transfer Pipette



Petri Dishes



Centrifuge Tubes



25 years  
Research & Development

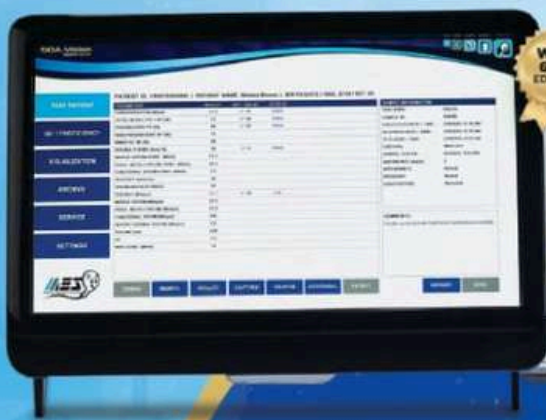
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## SQA-VU



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Remember, it all started with a Sperm!



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