



12th International Congress of Academy of Clinical Embryologists, India

ACE 2024

EMBRYOLOGY 2.0: Embracing Automation,
Quality & Regulations



27th - 29th September



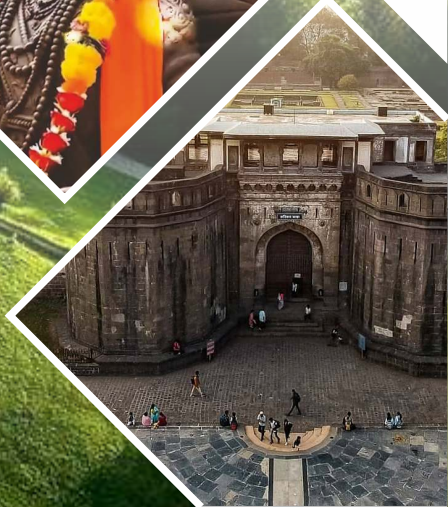
Hyatt Regency Pune & Residences



Pune
Maharashtra



CONFERENCE PROGRAM



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DAY- 1**Saturday
28th September****Conference Program****Hall - A | Ballroom**

Time	Topic	Speaker
Pre-Lunch Hall Coordinators: Sonal Vaidya, Reshma Rathwal, Vijaymala Gawali		
Free Papers in Wenge Hall and Oak Hall		
Session 1 - When things dont work in the Lab		
Chairpersons: Ashwini Kale, Krishna Chaitanya, Bharti Kolhapure		
9:00 - 9:15 AM	Poor Fertilization Rates - what should you do ?	Prabhakar Singh
9:15 - 9:30 AM	Poor Blastocyst formation rates - what should you do ?	Suresh Kattera
9:30 - 9:45 AM	Poor Implantation Rates - what should you do?	Sulbha Arora
9:45 - 10:00 AM	Discussion	
Session 2 - Dr. Subhash Mukherjee Oration		
Chairpersons: Sujatha Ramakrishnan, D Swaminathan, Parasuram Gopinath		
10:00 - 10:30 AM	Update on PGT-A	Santiago Munne
10:30 - 10:45 AM	Coffee Break	
KEYNOTE LECTURES		
Chairpersons: Sujatha Ramakrishnan, D Swaminathan, Parasuram Gopinath		
10:45 - 11:05 AM	Fertility preservation for female patients before chemotherapy	William Ledger
11:05 - 11:25 AM	IVM 2.0	Durga Rao
Session 3 - The Sperm Saga		
Chairpersons: Anand Shinde, Kersi Avari, Rajeev Sharma		
11:30 - 11:50 AM	Improving the clinical value of diagnostic semen analysis	Mathew Tomlinson
11:50 - 12:10 PM	Overcoming Barriers to Achieving higher percentage of cIVF with Non-male factor: Challenges and Solutions	Gaurav Majumdar
12:10 - 12:30 PM	An artificial Intelligence model to assist in sperm searching for severe male factor cases	Dale Goss (Online)
12:30 - 12:45 PM	Discussion	
Session 4 - Panel Discussion		
12:45 - 1:30 PM	Panel Discussion: Poor Oocyte quality and Clinical outcomes Panelists: William Ledger, Manisha Vajpayee, Paresh Makwana, Ramaraju, Ratna Chattopadhyay, Ram Prakash	Moderators: M Venugopal Sujatha Ramakrishnan
1:30 - 2:15 PM	Lunch	

Post-Lunch Hall Coordinators:

Meenal Bauskar, Vrunda Kuchekar, Dimple Desai

Session 5 - Debate- Corporatization is a necessity for IVF**Chairpersons:** M Venugopal, Bharati Dhorepatil

2:15 - 2:30 PM For Rohit Gutgutia

2:30 - 2:45 PM Against Nayana Patel

2:45 - 3:00 PM **Discussion****Session 6 - Preserving Potential: The Art and Science of Cryopreservation in ART****Chairpersons:** Nikhil Gosavi, Goral Gandhi

3:00 - 3:20 PM Human oocyte and embryo survival, early embryo development, metabolic fingerprinting, following ultra-rapid or standard vitrification and warming Birol Aydin

3:20 - 3:35 PM Risk Management in Cryostorage Naval Shah

3:35 - 3:50 PM Nature vs. Nurture: Comparing Natural and HRT Protocols in Frozen Embryo Transfer Bharati Dhorepatil

3:50 - 4:00 PM **Discussion**4:00 - 4:15 PM **Tea****Session 7 - Gametes and Embryos: Building Blocks of New Beginnings****Chairpersons:** Sachin Kulkarni, Ashwini Ganpule

4:15 - 4:30 PM Non-invasive metabolic imaging and AI; a missing puzzle for gamete and embryo selection Fabrizio Horta

4:30 - 4:45 PM TOP - determinants of IVF culture systems - Temperature, Osmolality and pH Shubhashree Uppangala

4:45 - 5:00 PM Embryo development - lessons from time-lapse Ramaraju

5:00 - 5:15 PM **Discussion**

5:15 - 6:00 PM **Panel Discussion:** The Role of AI and Automation in Healthcare: Will Embryologists Be Replaced by 2040? **Moderators:** Keshav Malhotra

Panelists: Alison Campbell, Prateek Makwana, Nishad Chimote, Rajvi Mehta
Carin Huyser, Sarthak Bakshi, Pankaj Kaingade

6:00 - 6:30 PM **ACE-Annual General Body Meeting in Wenge Hall**6:30 - 7:30 PM **Inauguration**
Guest of Honour - Dr. Shailesh Puntambekar

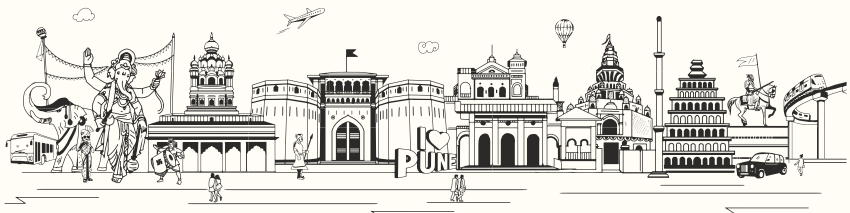
Time	Abstract Title	Name of Presenting Author
10:00-10:10	COMBINING METABOLOMICS AND MACHINE LEARNING TO UNDERSTAND HUMAN PREIMPLANTATION EMBRYO VIABILITY: A NOVEL NON-INVASIVE APPROACH TO PREDICT EMBRYO IMPLANTATION POTENTIAL	Aswathi C
10:10-10:20	SINGLE VERSUS TWO-LAYER GRADIENT IN EXTRACTING FUNCTIONALLY COMPETENT SPERMATOZOA	Huidrom Yaiphaba Meitei
10:20-10:30	EVALUATING EUPLOID SINGLE EMBRYO TRANSFER OUTCOMES: THE ROLE OF EMBRYO GLUE	Jayashree Babu
10:30-10:40	ANALYTICAL AND COMPREHENSIVE STUDY ON THE COMPARISON OF NUMBER OF AVAILABLE EMBRYOS AND EMBRYO QUALITY BETWEEN CONVENTIONAL IVF AND ICSI IN SPLIT INSEMINATION	Anmol Nirola
10:40-10:50	LENSHOOKE CA0 BASED SPERM SEPARATION MAY IMPROVE BLASTULATION RATES : A SIBLING OOCYTE STUDY.	Siddharth Morvadia
10:50-11:00	EFFECTS OF SPERM DNA FRAGMENTATION INDEX ON OUTCOMES OF ASSISTED REPRODUCTIVE TECHNIQUES USING TUNEL ASSAY	Saniya Chamanmalik
11:00-11:10	PREDICTIVE FACTORS FOR SPONTANEOUS CONCEPTION IN WOMEN WITH MODERATE AND SEVERE ENDOMETRIOSIS FOLLOWING OPERATIVE LAPAROSCOPY: A RETROSPECTIVE COHORT STUDY.	Nivedita Gupta
11:10-11:20	THE IMPACT OF EXTENDED HYPOTHERMIC HOLDING ON PREPUBERTAL MOUSE OVARIAN TISSUE TRANSPORTED FOR FERTILITY PRESERVATION	Divya Deeleep Bhagat Amonkar
11:20-11:30	NEGATIVE IMPACT OF ADVANCED PATERNAL AGE ON BLASTULATION RATE AND IVF OUTCOME IN OOCYTE DONATION CYCLES	Suhasini Donthi
11:30-11:40	INVESTIGATION OF POTENTIAL BIOMARKERS FOR THE DIFFERENTIAL DIAGNOSIS OF NON-OBSTRUCTIVE AZOOSPERMIA	Sugandh Saxena
11:40-11:50	A COMPARATIVE INVESTIGATION BETWEEN SPERM DNA FRAGMENTATION AND BODY MASS INDEX	Rachana Bajpai
11:50-12:00	OBSTETRIC OUTCOMES IN WOMEN WITH VERY ADVANCED MATERIAL AGE CONCEIVE FOLLOWING ASSISTED REPRODUCTION.	Raguraman Sivalingarajah

Time	Abstract Title	Name of Presenting Author
10:00-10:10	COMPARISON OF REPRODUCTIVE OUTCOMES USING NON-INVASIVE AND INVASIVE PGT IN INDICATED CASES	Sowmya C
10:10-10:20	IMPACT OF BODY MASS INDEX ON OOCYTES QUALITY IN WOMEN WITH POLYCYSTIC OVARIAN SYNDROME AND ITS REPRODUCTIVE OUTCOME IN ART	Sumitha Madhavan
10:20-10:30	IMPACT OF TERATOZOOSPERMIA ON BLASTULATION IN ASD EMBRYOS	Riya Susan George
10:30-10:40	COMPARISON OF LABORATORY AND CLINICAL PARAMETERS IN HUMID VERSUS DRY INCUBATOR IN DONOR OOCYTE CYCLE PROGRAM	Sujala S
10:40-10:50	"RETROSPECTIVE COMPARATIVE STUDY OF EUPLOID AND PREGNANCY RATES: PHYSIOLOGICAL INTRA-CYTOPLASMIC SPERM INJECTION (PICS) VERSUS CONVENTIONAL ICSI"	Gokul Raman
10:50-11:00	IMPACT OF LASER-ASSISTED HATCHING (LAH) ON CLINICAL PREGNANCY RATES (CPR) AND IMPLANTATION RATES (IR) IN FROZEN-THAWED EMBRYO TRANSFERS: AGE-RELATED DIFFERENCES	Archana Manikere
11:00-11:10	TO STUDY THE IMPACT OF OBESITY ON MALE SEMEN PARAMETERS LIKE SPERM CONCENTRATION, MOTILITY AND MORPHOLOGY.	Shweta Gupta
11:10-11:20	EVALUATING INTRA UTERINE INSEMINATION (IUI) SUCCESS: IMPACT OF NON-CLINICAL INFLUENTIAL FACTORS	Hetalkumar Shukla
11:20-11:30	CHALLENGES IN DEVELOPING NON-INVASIVE DEEP LEARNING MODELS FOR DAY 3 EMBRYO CLASSIFICATION USING STATIC IMAGES	Shubhashree Uppanagla
11:30-11:40	INFLUENCE OF SHORT AND EXTENDED BLASTOCYST CULTURE POST THAWING ON CLINICAL PREGNANCY AND LIVE BIRTH RATE	Lenin Babu Valluri
11:40-11:50	ASSESSING THE PRECISION OF AI-DRIVEN PREDICTIONS IN PREIMPLANTATION GENETIC TESTING THROUGH ADVANCED TIME-LAPSE EMBRYO IMAGING.	Prabhakar Singh
11:50-12:00	UNLOCKING THE ANEUPLOIDY PATTERN OF PGTA-ABNORMAL EMBRYOS AND BLASTOCYSTS	Arth Ladva
12:00-12:10	THE INFLUENCE OF OXIDATIVE STRESS ON MALE INFERTILITY	Harsh Jain

Poster Board Number	Abstract Title	Name of Presenting Author
P-1	MOLECULAR INTERACTION STUDIES ON AVICULARIN TARGETING THE PCODS INHIBITION	Kavyashree Vishnuvardhana
P-2	IN BLASTOCYST TRANSFER CYCLES, WHICH IS A MORE EQUITABLE PREDICTOR OF A FAVORABLE PREGNANCY OUTCOME TROPHOECTODERM GRADE OR INNER CELL MASS GRADE?	Fairy Salecha
P-3	COMPARISON OF OOCYTE QUALITY AND OUTCOMES OF ICSI IN WOMEN WITH AND WITHOUT PCOS	Gyanendra Pradhan
P-4	MICROFLUIDICS: AN INNOVATIVE METHOD FOR SELECTING HIGH-QUALITY SPERM WITH MINIMAL DAMAGE TO SPERM DNA FRAGMENTS FOR IMPROVED ART RESULTS IN TERATOZOOSPERMIA -A SINGLE CENTRE	Radha Krishnan Deventhiran
P-5	DOES THE DURATION OF BLASTOCYST CULTURE BEFORE EMBRYO TRANSFER AFFECT REPRODUCTIVE OUTCOMES IN YOUNG AND ADVANCED MATERNAL AGED FEMALES UNDERGOING ELECTIVE DOUBLE EMBRYO FET?	Akshay Tayawade
P-6	COMPARATIVE ANALYSIS OF INTRAUTERINE PERFUSION OF PERIPHERAL BLOOD MONONUCLEAR CELLS (PBMCs) VERSUS STANDARD PROTOCOLS ON IMPLANTATION RATES BEFORE EMBRYO TRANSFER	Gyanjyoti Phukan
P-7	A COMPARATIVE STUDY BETWEEN MACS VS CONVENTIONAL TREATMENT ON SPERM QUALITY RETRIEVAL IN PATIENTS HAVING NORMOZOOSPERMIA WITH HIGH DFI	Lalit Singh Bisht
P-8	MICROFLUIDIC BASED SPERM SEPARATION ALLOWS FOR THE SELECTION OF HIGHLY MOTILE SPERM WITH IMPROVED MORPHOLOGY AND LOWER DNA FRAGMENTATION	Nandkishor Naik
P-9	CA0 SPERM SORTING DEVICE PRODUCES SIMILAR INTRA CYTOPLASMIC SPERM INJECTION OUTCOMES COMPARED TO DENSITY GRADIENT CENTRIFUGATION.	Siddharth Morvadia
P-10	A PROSPECTIVE STUDY BASED ON INTRAOVARIAN ANDROGENIZATION THERAPY IN PATIENTS HAVING LOW AMH RESERVE	Vidushi Chauhan
P-11	HCG ADMINISTRATION PRIOR TO DAY 5 FROZEN EMBRYO TRANSFER IN PATIENTS WITH PREVIOUS IMPLANTATION FAILURE AND PREGNANCY RATES.	Swathi Krishna
P-12	A FIRST CASE REPORT OF DEXTROCARDIA WITH SITUSINVERSUSTOTALIS (SIT) CONCEIVED VIA IVF TREATMENT IN INDIA	Neha Goswami
P-13	SUCCESSFUL CONCEPTION USING MICRO-TESE AND ICSI IN AN AZOOSPERMIC MALE: A CASE STUDY	Pushpanjali Shahi

Poster Presentation

P-14	EFFECTIVENESS OF HYALURONAN ENRICHED MEDIA IN SINGLE EMBRYO TRANSFER CYCLES	Shangheetha Dillbabu
P-15	OPTIMISING OOCYTE RETRIEVAL: BALANCING QUANTITY AND QUALITY FOR ENHANCED IVF OUTCOMES	Shraddha Shetye
P-16	IMPROVING FERTILITY TREATMENT DECISION-MAKING THROUGH ARTIFICIAL INTELLIGENCE	Biva Prasad
P-17	COMPARATIVE STUDY OF CONVENTIONAL- ICSI AND PIEZO-ICSI TECHNIQUES IN DETERMINING THE SURVIVAL RATE OF GAMETE AND THEIR OUTCOMES	Nerubamaa V S
P-18	COMPARATIVE EFFICACY OF CLOMIPHENE CITRATE THERAPY IN OLIGOASTHENOZOOSPERMIA: IMPACT ON SPERM COUNT, MOTILITY, AND CLINICAL PREGNANCY OUTCOMES	Komal Malik
P-19	EMBRYOLOGICAL OUTCOMES AMONG PATIENTS USING MICROFLUIDICS AND PICSI TO PROCESS SPERM- A COMPARATIVE STUDY	Mayuri Chatterjee
P-20	IMPACT OF PRESENCE OF BACTERIAL GROWTH IN THE SEMEN SAMPLE IN PATIENT WHO UNDERGOES FERTILITY TREATMENT	Narmadha G S
P-21	TO COMPARE MICROFLUIDICS SPERM SORTER AND THE IMPROVEMENT IN THE DFI OF THE SAMPLE AND EMBRYOLOGICAL OUTCOME	Shweta Ratnawat
P-22	PRE-IMPLANTATION GENETIC TESTING- A BOON OR BANE FOR COUPLES TRYING TO CONCEIVE THROUGH IVF?	Kirthana Ravikumar
P-23	A COMPARATIVE STUDY BASED ON INTRATESTICULAR INJECTION OF PLATELET-RICH PLASMA VS M-TESE (MICROSURGICAL TESTICULAR SPERM EXTRACTION) IN PATIENTS WITH NON-OBSTRUCTIVE AZOOSPERMIA	Sakshi Aggrawal



Hall - A

Time	Topic	Speaker
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Session 8

8:00 - 8:45 AM Meet with the Experts in Wenge Hall and Oak Hall

Hall Coordinators:

Komal Barke

Chairpersons: Leena Patankar, Charulata Chatterjee

9:00 - 9:15 AM Using AI to analyse endometrium / ultrasound images Dan Nayot (Online)

9:15 - 9:30 AM How AI embryo scoring systems can enhance the embryological decision Amichai Herman

9:30 - 9:45 AM FertilityY: Revolutionizing Androgenetics through AI Deepak Modi

9:45 - 10:00 AM **Discussion**

Session 9 - Improving efficiency in the laboratory

Chairpersons: Ashwini Dahale, Sandeep Joshi, Subhangi Kakade

10:00 - 10:15 AM ART laboratory workflow efficiency - Rapid Vitrification and Warming of Blastocysts Kelly Tilleman

10:15 - 10:30 AM Global survey results of Clinical Embryologists Carin Huyser

10:30 - 10:45 AM Add Ons in The IVF laboratory: What is the current evidence? Krishna Chaitanya

10:45 - 11:00 AM Discussion

Dr Robert Edwards Oration

Chairpersons: Gaurav Majumdar, Rajvi Mehta, Shrikant Yatnale

11:00 - 11:45 AM Smart and Intelligent Clinical Microscopy for Cell Imaging Applications Renu John

Session 10 - Fertility Frontiers: The Dawn of Revolutionary Reproductive Technologies & Access to Care

Keynote Lectures

Chairpersons: Gaurav Majumdar, Rajvi Mehta, Shrikant Yatnale

11:45 - 12:05 PM Automation of reporting & KPIs. Chaos or clarity? Alison Campbell

12:05 - 12:25 PM Impact of the IVF laboratory on early pregnancy losses in IVF Sharayu Mohite

Session 11 - Advances in the ART landscape

Chairpersons: Deepak Modi, Sonal Vaidya

12:25 - 12:40 PM	Whole genome sequencing of embryos: The ultimate PGT test	Santiago Munne
12:40 - 12:55 PM	Innovating Beyond ICSI: Unlocking the Potential of Piezo-ICSI	Alex C Varghese
12:55 - 1:10 PM	Evaluating Embryo Quality for Biopsy: Is This Embryo Suitable for PGT?	Fernando Bronet Campos
1:10 - 1:20 PM	Discussion	
1:20 - 2:00 PM	Valedictory	
2:00 - 3:00 PM	Lunch	

Hall - B | Wenge Hall

Hall - C | Oak Hall

**Meet
with the Experts**

8:00 AM - 8:45 AM

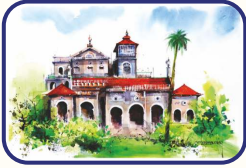
Session Coordinators:

D Swaminathan, Shrikant Yatnale, Sanjay Yatnale, Leena Patankar, Ashwini Kale

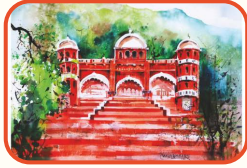
8:00 - 8:45 AM	KPI and process control	Alison Campbell
	PGT	Santiago Munne
	Lab Audit	Kelly Tilleman
	Cryo Management	Mathew Tomlinson
	Trouble shooting in vitrification	Birol Aydin
	Handling sero positive cases	Carin Huyser
	Clinical Dilemmas in ART	William Ledger
	Laboratory management	Fernando Bronet Campos

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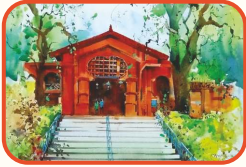
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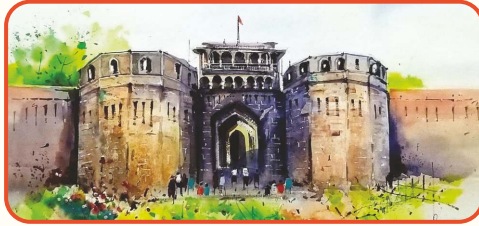
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Kasba Ganpati



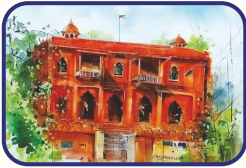
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Sinhagarh Fort



Lal Mahal



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