



Three Months Fellowship Course in

Embryology Laboratory



About Us

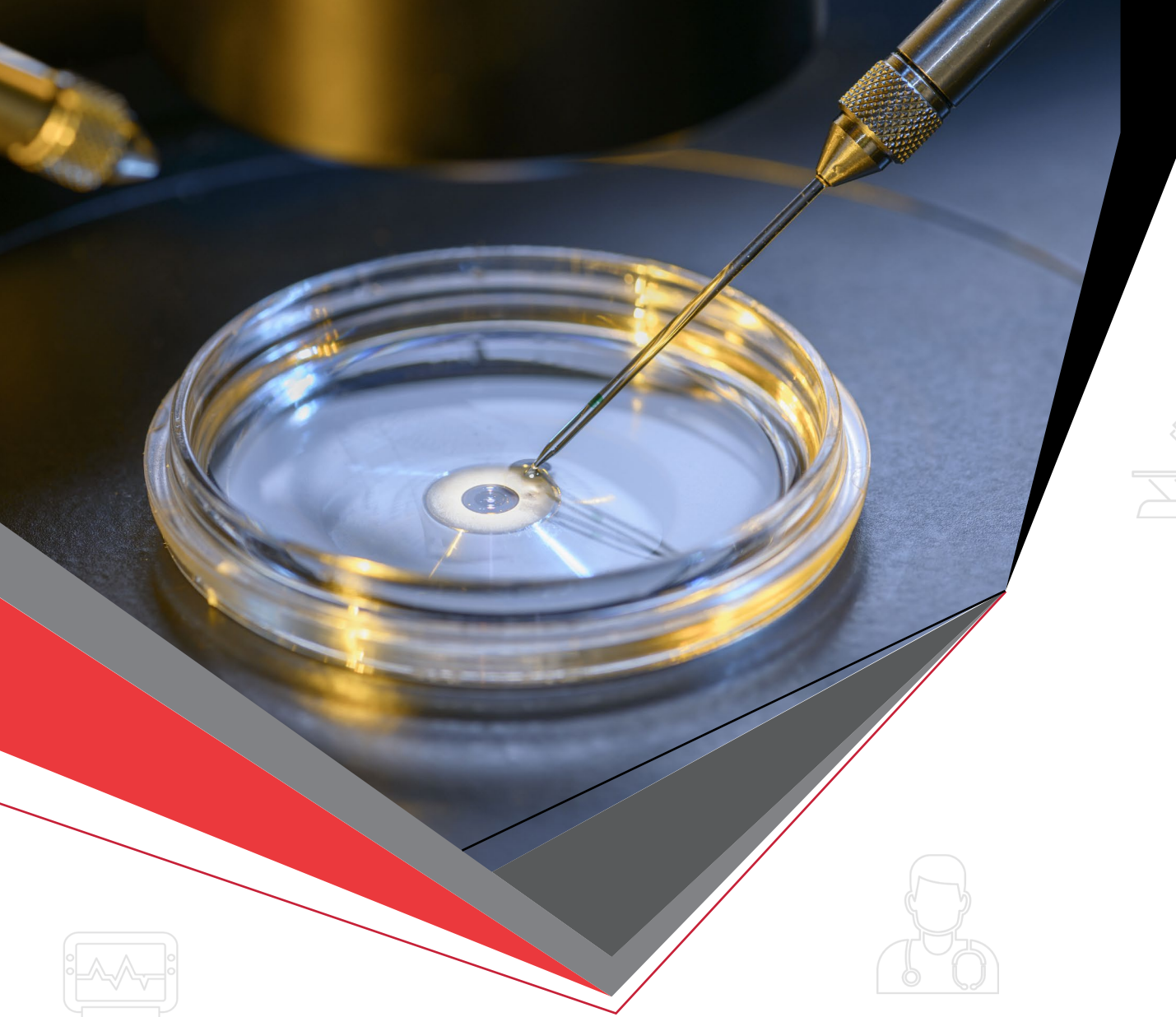
MHPro is a Continuing Medical Education (CME) platform to upskill healthcare professionals with evidence-based knowledge delivered online with immersive learning experience. The MHPro curriculum aims to prepare clinicians to master Basic Sciences, which then empowers them to deal with patients and their problems in a hospital or outpatient milieu. During the program, new clinical skills and considerable medical knowledge, and domain-specific core competencies will be stressed as clinicians acquire both diagnostic and therapeutic skills



MHPro is committed to a competency based curriculum. Learners will be graded and receive pertinent feedback

Welcome to MHPro





Course Introduction

This program is first of its kind designed for embryologist / clinicians involved in Assisted Reproductive Technology (ART) practice where you will learn the basics of procedures and protocols practiced in an IVF laboratory. The module delivered by experts includes lessons on setting up a new lab, acquiring equipment, quality control management, troubleshooting and performance analysis etc. The module involves ample number of video sessions for the audience to familiarize with laboratory routines. The program is designed by internationally acclaimed experts in the field of ART and state of the art lectures and webinars delivered by world renowned faculties across the globe





Learning Objectives:



- To learn about the cell biology and development of gametes and embryos
- Understand the fundamentals and principles of procedures involved in IVF
- Learn how to set up an IVF laboratory
- To impart theoretical and practical knowledge of the skills and techniques used in the micromanipulation of gametes
- Learn about various clinical aspects of assisted reproduction techniques

Learning outcomes:



- Theoretical and technical knowledge of the clinical embryology
- Clinical methodologies in IVF (In vitro Fertilization) and advanced developments
- Operational and Quality Management skills in an IVF laboratory
- Troubleshooting and crisis management





Program Director



Dr. S S Vasan

Uro-Andrologist & Medical
Director, Ankur Healthcare,
Bengaluru, India
President SASSM



Course Directors



Ms. Jayalakshmi Shoraff

Senior Embryologist,
Ankur Healthcare,
Bengaluru, India



Who should take up this course?



Lab technicians in the field of Andrology and Embryology, PG Students in the field of Urology, General Surgery, Gynecology and Reproductive medicine





Curriculum

Module Name	Chapter Name
Cell Biology of Embryology	<ul style="list-style-type: none">• Oogenesis, Spermatogenesis & Embryogenesis
Setting Up an ART Lab	<ul style="list-style-type: none">• Setting up of ART Lab<ol style="list-style-type: none">1. Clean Air System2. Incubators3. Laminar Air Flow System4. Microscopes5. Micromanupulators6. Other essential Equipments
Introduction to IVF and ICSI Procedures	<ul style="list-style-type: none">• Media & Disposables<ol style="list-style-type: none">1. Contents of Media2. Handling of Media3. Types of Disposables4. Usage
Preparing Lab for the ART Procedures	<ul style="list-style-type: none">• Preparing Lab for the ART Procedures<ol style="list-style-type: none">1. Particulate Check2. VOC level Check3. pH Check4. Temperature Check5. CO2 Check





Curriculum

Module Name	Chapter Name
 Preparing Lab for the ART Procedures	6. Daily Check List 7. Monthly Check List 8. Annual check List 
Sperm Preparation Techniques for IVF and ICSI Procedures	<ul style="list-style-type: none">• Sperm Preparation Techniques and Practical Implications <ol style="list-style-type: none">1. Simple Wash2. Density Gradient3. Swim Up Technique4. Retrograde Ejaculate Sample Processing5. Testicular & Epididymal Sperm Processing Techniques 
 ART Procedures and Preparation	<ul style="list-style-type: none">• Ovum Pick Up• Conventional IVF• Denudation• Dish & Media Preparation• ICSI & Oocyte Morphology• Fertilization Check and Embryo Grading• Embryo Transfer 








Curriculum

Module Name	Chapter Name
Cryopreservation Procedures	<ul style="list-style-type: none">• Oocyte & Embryo vitrification & Embryo Warming
 Trouble Shooting in IVF Lab	<ul style="list-style-type: none">• Trouble Shooting in IVF Lab 
Documentation according guidelines	<ul style="list-style-type: none">• Documentation according guidelines
 Upgrading of Skills	<ul style="list-style-type: none">• Upgrading of skills<ol style="list-style-type: none">1. Timelapse technology2. IMSI3. PICSI4. Embryo Biopsy5. Testicular Sperm Selection6. Laser Assisted Hatching7. Artificial activation of Oocyte



Curriculum

Module Name	Chapter Name
 Lab Maintenance	<ul style="list-style-type: none">• Quality Analysis and Quality Check<ol style="list-style-type: none">1. Media and Disposables Handling2. Handling of Liquid Nitrogen3. LN2 Tank Maintenance4. Handling of Sero Positive Samples 
Upskilling	<ul style="list-style-type: none">• CASA• DFI by Flow Cytometry• MACS & U Select Method 





Certificate Sample



mhpro+
THE MEDICS ONLINE ACADEMY

CERTIFICATE OF FELLOWSHIP

This is to certify that **YOUR NAME** has successfully completed the course in
COURSE NAME on DD/MM/YYYY (Completion Date)

Certified by MasterHealthPro Inc., USA


 Dr. SS Vasan
 Program Director


 Suresh Elangovan
 President & CEO

S A M P L E

In Association with


 ACADEMY FOR MEN'S HEALTH
 SINGAPORE


ISFRH
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 REPRODUCTIVE HEALTH


SASSM
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