



Three Months Fellowship Course in

Andrology 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 course helps evaluate semen and its properties and elaborate on semen preparation for various ART procedures. The module delivered by experts includes lessons on all laboratory and Andrology protocols including Semen Analysis, Sperm Preparation Techniques, Semen Freezing, Advanced Sperm Function tests (Fructose, HOS, Vitality, Peroxidase Staining), Sperm DNA Fragmentation, Semen Banking & Sperm Retrieval Techniques. The module involves ample number of video sessions for





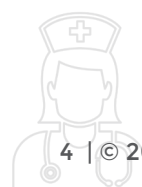
Learning Objectives:

- Learn semen analysis and ancillary tests by the WHO sixth edition criteria
- Learn advanced sperm preparation methods used in assisted reproduction such as : IUI, IVF and ICSI
- Understand advanced sperm function tests
- Learn methods for male fertility preservation for use in ART



Learning outcomes:

- Theoretical and technical knowledge of the clinical Andrology
- Knowledge of setting up Andrology lab
- Operational and Quality Management skills





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
Physiology & Anatomy	Spermatogenesis and Spermiogenesis
Setting up of IUI Lab	- Setting Up of Andrology Laboratory 1. Requirements 2. Guidelines to setup IUI Lab
Lab Maintenance	- Quality Analysis and Quality Check 1. Media and Disposables Handling 2. Handling of Liquid Nitrogen 3. LN2 Tank Maintenance 4. Handling of Sero Positive Samples
Semen Analysis	Macro Evaluation, Micro Analysis & DFI by Flow Cytometry
Sperm Processing Techniques	- Sperm Preparation Techniques and Practical Implications 1. Simple Wash 2. Swim Up 3. Double Density Gradient 4. Microfluidics 5. Retrograde Ejaculation Sample Preparation 6. TESA Sperm processing Technique





Curriculum

Module Name	Chapter Name
Sperm Freezing Techniques	• Sperm Cryopreservation and Sperm Vitrification with fundamentals of cryobiology and implications to practice 1. Slow Freezing Methods 2. Vitrification 3. TESA Sample Freezing
Upskilling	• CASA • MACS & U Select Method





Certificate Sample



USA | INDIA | UAE | UK

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