

Six Months Masters Course in

# Male Infertility



# 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

Structured by renowned national and international experts in the field of Andrology, this course aims at providing basic and advanced knowledge in male infertility and sexual dysfunction with special emphasis on female sexual dysfunction. The course will empower clinicians to understand the core concepts, pathophysiology, diagnostic algorithms, and evidenced-based treatment along with recent advances in the field to upscale clinician knowledge and practice. In our thoughtfully crafted masters course, not only theoretical knowledge but also for a better conceptual knowledge, microsurgical and laboratory videos of various procedures routinely performed in male infertility have been discussed in detail





## Learning Objectives:

- Clinical Implications of Hypothalamus-Pituitary- Gonadal (HPG) axis
- Understanding the workup for male infertility, including the importance of the physical examination
- Semen analysis and its role in clinical diagnosis and decision making
- Restate the limitations of the primary semen analysis and importance of advanced semen analysis
- Assessment of common reversible causes of infertility and their treatments
- Microsurgical videos on various reconstructive procedures in male infertility
- Various laboratory video spectrum of basic and advanced semen analysis, sperm preparation to cryo freezing and thawing
- Embryology laboratory videos of various ART procedures
- Recognize when to refer a patient for ART
- Understanding detailed female sexual cycle
- Detailed assessment of female sexual dysfunction and their treatments



## Learning outcomes:

- Evaluation of male fertility with clinical diagnosis
- Select the appropriate diagnostic investigations for fertility evaluation and formulate a plan for management
- Selection of optimal methods for the management of the infertile couple, surgically or medically, considering the specific characteristics of each case
- Recognize infertility due to a genetic basis
- Select the appropriate treatment methods for minimizing the psychological burden to the couple
- Empower clinicians to perform surgical procedures with confidence at clinical level
- Evaluation of female sexual dysfunction with treatment



# Program Director



**Dr. S S Vasan**

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



# Course Directors



**Dr. Peter HC Lim**

Medical Director, Andrology,  
Urology & Continence Centre,  
Gleneagles Hospital, Singapore



**Dr. Rupin Shah**

Consultant Andrologist &  
Microsurgeon, Lilavati Hospital  
& Research Centre, Mumbai, India



# Who should take up this course?



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





# Curriculum

Module Name	Chapter Name
<b>The need for men's sexual health in today's era</b>	<ul style="list-style-type: none"><li>• The case for men's health</li></ul>
<b>Anatomy of Male Reproductive Tract</b>	<ul style="list-style-type: none"><li>• Anatomy of the male reproductive system</li><li>• Development of the Male Reproductive System</li><li>• Spermatogenesis and Spermiogenesis</li><li>• Sperm Transport and Maturation</li></ul>
<b>Physiology of male reproductive tract</b>	<ul style="list-style-type: none"><li>• HPG axis in Men and its Role in Spermatogenesis</li><li>• Seminal Plasma and Its Role</li><li>• Hypothalamus and Pituitary Disorders</li></ul>
<b>Pathology &amp; Genetics in male reproduction</b>	<ul style="list-style-type: none"><li>• Hypothalamus and Pituitary Disorders, Testicular Disorders &amp; Environmental Factors and Its Influence on Sperm</li><li>• Early diagnosis and interventions in Hypogonadism</li><li>• Male Reproductive Endocrinology : Case Presentation</li><li>• Basics of genetic evaluation of an infertile male:</li></ul>
<b>Semen Analysis and practical utility</b>	<ul style="list-style-type: none"><li>• Semen Analysis: Practical aspects</li><li>• Interpretation Of Abnormal Semen Analysis</li><li>• WHO 5<sup>th</sup> &amp; 6<sup>th</sup> Manual - Differences and Clinical Implications</li></ul>







# Curriculum

Module Name	Chapter Name
 <p><b>Advanced Sperm Function Tests and Techniques</b></p>	<ul style="list-style-type: none"> <li>• <b>Sperm Preparation Techniques and Practical Implications</b></li> <li>• <b>Sperm Cryopreservation and Sperm Vitrification with fundamentals of cryobiology and implications to practice</b></li> <li>• <b>Automation in semen analysis</b></li> <li>• <b>Male factor in recurrent pregnancy loss</b></li> <li>• <b>Clinical decision making in male infertility: Decoding the black box - recent advances</b></li> </ul> 
 <p><b>Clinical History, Examination and Diagnostic Evaluation of an Infertile Male</b></p>	<ul style="list-style-type: none"> <li>• <b>Principles Of Clinical Evaluation in Male infertility</b></li> <li>• <b>Hormonal Evaluation</b></li> <li>• <b>Relevance of Inhibin, 17 Hydroxy Progesterone / FSH Receptor Assay</b></li> <li>• <b>Genetic evaluation - Karyotyping, Y chromosome and CFTR Genetic Testing and Relevance</b></li> <li>• <b>Radiological Evaluation : What, When and Why</b></li> </ul> 
<p><b>Specific conditions and male Infertility</b></p>	<ul style="list-style-type: none"> <li>• <b>Inflammation and Male Infertility</b></li> <li>• <b>Inflammation and Sexual Dysfunction</b></li> </ul>





# Curriculum





Module Name	Chapter Name
 <b>Medical Management of an Infertile Male: Non Azoospermic</b>	<ul style="list-style-type: none"><li>• <b>Functional tests on sperm - Evidence and role in infertility</b></li><li>• <b>Donor Insemination – Principles of banking and Optimizing Success</b></li><li>• <b>Role of Environment in Male Infertility</b></li></ul>
<b>Azoospermia Diagnosis and Management</b>	<ul style="list-style-type: none"><li>• <b>Role of Surgery in Azoospermia – VVA, VEA, TURED</b></li><li>• <b>Surgical Sperm Retrieval techniques and results:</b></li></ul>
<b>Infertility management In Special Situations</b>	<ul style="list-style-type: none"><li>• <b>Treatment of HIV positive males and conception</b></li><li>• <b>Management of Anejaculation &amp; Erection and Ejaculatory Dysfunction Relevant to Fertility</b></li><li>• <b>Spinal Cord Injury and Male Infertility</b></li></ul>
 <b>Optimising Male Infertility Practice</b>	<ul style="list-style-type: none"><li>• <b>Overview of IUI vs IVF vs ICSI and guidelines for clinical practice</b></li><li>• <b>ART law in India and ethics in management</b></li><li>• <b>Adoption</b></li><li>• <b>Optimizing sperm in azoospermia – medical options</b></li></ul>









# Curriculum

Module Name	Chapter Name
 <b>Advances in Andrology and Change in Practice Patterns</b>	<ul style="list-style-type: none"><li>• Fertility preservation strategies in infertile men</li><li>• Male Infertility guidelines</li><li>• Devices in Andrology</li><li>• Low Intensity Shock Wave Therapy - The challenges &amp; utility in Indian subcontinent</li></ul>
 <b>Female Sexual Dysfunction : FSD</b>	 <ul style="list-style-type: none"><li>• History, Investigation &amp; classification of the problem</li><li>• Hypoactive sexual desire disorder (HSSD) in women</li><li>• Medical Management of Female Sexual Dysfunction: Critical Evaluation of Drugs</li><li>• Dont know whether I have orgasms</li><li>• UTI and Sex</li><li>• Treatment of Vaginismus</li><li>• Dyspareunia</li><li>• Urological issues with Sex</li><li>• Flibanserin</li><li>• Mistakes in Use of PDE5 Inhibitors Leading to Failure of Therapy</li><li>• Using PDE5I's</li><li>• Testosterone/DHEA</li><li>• Post-Menopausal Syndrome</li></ul> 
<b>Case Discussions</b>	<ul style="list-style-type: none"><li>• Male Infertility clinical cases</li><li>• Male Infertility clinical cases - Seminal Plasma Abnormalities</li></ul>





# Curriculum

Module Name	Chapter Name
 <b>Azoospermia Evaluation and Management</b>	<ul style="list-style-type: none"><li>• Practical Management of Azoospermia</li><li>• Sperm retrieval techniques: Critical answers for decision making</li><li>• Micro TESE - Clinical challenges</li></ul>
<b>Surgical videos of male infertility management</b>	<ul style="list-style-type: none"><li>• Varicocele and Infertility</li></ul>
<b>Laboratory video on diagnosis, sperm enhancement, ART techniques to facilitate pregnancy</b>	<ul style="list-style-type: none"><li>• Semen analysis, IUI &amp; Vitrification / Cryofreezing</li><li>• New technologies to improve fertility outcomes: U select &amp; ONOVA</li><li>• ICSI-IVF-IMSI-PICSI</li></ul> 
<b>Set up and maximize your practice in sexual medicine</b>	<ul style="list-style-type: none"><li>• Setting up of Sexual Health &amp; Men's Health services in your center - An effective and simple way</li></ul>





# Certificate Sample



THE MEDICS ONLINE ACADEMY

## CERTIFICATE OF MASTERS

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

In Association with



ACADEMY FOR MEN'S HEALTH  
SINGAPORE



INTERNATIONAL SOCIETY OF FERTILITY &  
REPRODUCTIVE HEALTH



SOUTH ASIAN SOCIETY FOR  
SEXUAL MEDICINE

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