

IMA AMS FELLOWSHIP IN ANDROLOGY & SEXUAL MEDICINE





About Us

MasterHealthPro (www.masterhealthpro.com) is an AI-powered healthcare education platform offering comprehensive self-paced online courses in andrology, men's health, and women's health. Our courses are meticulously designed to upskill healthcare professionals with evidence-based knowledge delivered through immersive learning experiences. Our programs empower clinicians to address patient issues in various healthcare settings effectively. By acquiring both diagnostic and therapeutic skills, clinicians are equipped to excel in their practice. Praised by practising doctors across 35 countries, we've earned recognition as a reputable platform, providing top-notch online education in andrology, men's health, and women's health.

Welcome to MHPro



Course Introduction

Fellowship Program in Andrology & Sexual Medicine is an advanced academic and clinical training initiative designed for medical professionals seeking specialization in male reproductive health and sexual medicine. This program offers a comprehensive curriculum backed by the latest research, evidence-based practices, and expert-led clinical exposure. Endorsed by the Indian Medical Association – Academy of Medical Specialties (IMA AMS), the program sets a new benchmark for quality education in men's health and sexual wellness.

Course Content (Theory) Learning Objectives :

- Understanding concepts in male infertility and sexual dysfunction, including evaluation, diagnosis and management
- Understanding Semen analysis and its role in clinical decision-making and its limitations
- 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
- Understanding concepts in sexual cycle its physiological and pathological basis and clinical importance
- Understanding detailed female sexual cycle
- Recent advances in evaluation of sexual dysfunction and its clinical application
- Medical and surgical management for sexual dysfunction with video demonstration

Learning Outcomes :

- Theoretical and technical knowledge of the clinical male infertility and sexual dysfunction
- Upgradation in medical knowledge and surgical skills in male infertility and sexual dysfunction
- Knowledge for setting up Andrology lab, men's health clinic
- Operational and Quality Management skills

Qualification/Target Audience

MBBS, MD/MS in Urology, General Surgery, Obstetrics & Gynaecology, Reproductive Medicine, Endocrinology, Psychology, or an equivalent qualification.

Eligibilty

Must be IMA Life Member & IMA AMS Life Member & Post-Graduation completed in their respective field.

Program Director



Dr. S S Vasan

Uro-Andrologist Medical Director & CEO, Ankur Healthcare Bengaluru, India

Course Directors



Dr. Peter HC Lim

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Ms. Jayalakshmi Shoraff

Senior Embryologist Ankur Healthcare, Bengaluru, India

Module - 1: Male Infertility & Female Sexual Dysfunction	
Chapter :	Lecture Title :
The Need for Men's Sexual Health in Today's Era	• The Case for Men's Health
Anatomy & Physiology of Male Reproductive Tract	 Anatomy of the Male Reproductive System Development of the Male Reproductive System Spermatogenesis and Spermiogenesis Sperm Transport and Maturation HPG Axis in Men and its Role in Spermatogenesis Seminal Plasma and its Role Hypothalamus and Pituitary Disorders
Pathology & Genetics in Male Reproduction	 Hypothalamus and Pituitary Disorders, Testicular Disorders & Environmental Factors and its Influence on Sperm Early Diagnosis and Interventions in Hypogonadism Male Reproductive Endocrinology : Case Presentation Basics of Genetic Evaluation of an Infertile Male : Disorders of Seminal Vesicle and Ejaculatory Duct Klinefelter's Syndrome and Implications to Clinical Practice
Semen Analysis & Practical Utility	 Semen Analysis : Practical Aspects Interpretation of Abnormal Semen Analysis

Module - 1: Male Infertility & Female Sexual Dysfunction	
Chapter :	Lecture Title :
Semen Analysis & Practical Utility	 WHO 5th & 6th Manual - Differences and Clinical Implications
Advanced Sperm Function Tests & Techniques	 Sperm Preparation Techniques and Practical Implications Sperm Cryopreservation and Sperm Vitrification with Fundamentals of Cryobiology and Implications to Practice Automation in Semen Analysis Male Factor in Recurrent Pregnancy Loss Clinical Decision Making in Male Infertility : Decoding the Black Box - Recent Advances Semen Analysis Methodology and Errors in Reporting Management of Seminal Plasma Abnormalities
Clinical History, Examination & Diagnostic Evaluation of an Infertile Male	 Principles of Clinical Evaluation in Male infertility Hormonal Evaluation Relevance of Inhibin, 17 Hydroxy Progesterone / FSH Receptor Assay Genetic evaluation - Karyotyping, Y Chromosome and CFTR Genetic Testing and Relevance Radiological Evaluation : What, When & Why
Specific Conditions & Male Infertility	 Inflammation and Male Infertility Inflammation and Sexual Dysfunction

Module - 1: Male Infertility & Female Sexual Dysfunction	
Chapter :	Lecture Title :
	 Functional Tests on Sperm - Evidence & Role in Infertility
	 Management of Sperm Abnormalities
Medical Management of an	2. Role of ART in Male Infertility
Infertile Male : Non Azoospermic	3. Role of Antioxidants in Male Infertility
	4. Role of Medication in NOA
	 Donor Insemination - Principles of Banking and Optimizing Success
	• Role of Environment in Male Infertility
Azoospermia Diagnosis & Management	 Role of Surgery in Azoospermia - VVA, VEA, TURED Surgical Sperm Retrieval Techniques and Results : 1. Role of Surgery
	 Optimizing Sperm for ART - Surgical Options
	 Ghallenges in Sperm Retrieval Techniques with Special Reference to Micro TESE
	4. Sperm Retrieval Techniques - Excluding Micro TESE
Infertility Management in Special Situations	 Treatment of HIV Positive Males and Conception Management of Anejaculation & Erection and Ejaculatory
	 Dysfunction Relevant to Fertility Spinal Cord Injury and Male Infertility

Module - 1: Male Infertility & Female Sexual Dysfunction	
Chapter :	Lecture Title :
	 Overview of IUI vs IVF vs ICSI and Guidelines for clinical Practice
Optimising Male Infertility Practice	 ART Law in India and Ethics in Management
	Adoption
	 Optimizing Sperm in Azoospermia - Medical Options
	 Fertility Preservation Strategies in Infertile Men Male Infertility Guidelines
Advances in Andrology & Change in Practice Patterns	• Devices in Andrology
	 Low Intensity Shock Wave Therapy The Challenges & Utility in Indian Subcontinent
	 History, Investigation & Classification of the Problem
	 Female Hypoactive Sexual Desire Disorder (HSSD)
Female Sexual Dysfunction : FSD	 Hypoactive Sexual Desire Disorder (HSSD) in Women
	 Medical Management of Female Sexual Dysfunction : Critical Evaluation of Drugs
	• Don't Know Whether I Have Orgasms
	 UTI and Sex
	Treatment of Vaginismus
	FSD - Vaginismus
	Dyspareunia
	 Urological Issues with Sex Flibanserin

Module - 1: Male Infertility & Female Sexual Dysfunction	
Chapter :	Lecture Title :
	 Mistakes in Use of PDE5 Inhibitors Leading to Failure of Therapy
Female Sexual Dysfunction : FSD	 Using PDE5I's
	 Testosterone / DHEA
	 Post Menopausal Syndrome
Case Discussions	Male Infertility Clinical Cases
	 Male Infertility Clinical Cases - Seminal Plasma Abnormalities
	Practical Management of Azoospermia :
	1. Evaluation of the Azoospermic Man
Azoospermia Evaluation &	2. Role of Testicular Biopsy and its Relevance to Practice
Management	3. Unconsummated Marriage
	 Sperm Retrieval Techniques : Critical Answers for Decision Making
	Micro TESE - Clinical Challenges
Surgical Videos of Male Infertility Management	Varicocele and Infertility
Laboratory Video on Diagnosis, Sperm Enhancement, ART Techniques to Facilitate Pregnancy	 Semen Analysis, IUI and Vitrification / Cryofreezing
	 New Technologies to Improve Fertility Outcomes :
	1. U Select
	2. ONOVA
	ICSI-IVF-IMSI-PICSI

Module - 2 : Reproductive Health, Dermatology & Sexual Medicine	
Chapter :	Lecture Title :
	 History of Sexual Medicine - The Evolution
Sexual Development & Sexuality	 Sexual Development Male & Female Sexual Response Cycle and its Determinants
	 Hormones in Sexual Development / Behavior
	Introduction to Sexuality in Adolescents
	Evaluation of Puberty
	 Components of Adolescent Sexuality and Terms related to it
Adolescent Sexual Medicine & Challenges in Management	 Stages of Sexuality Development in Adolescents - Early, Mid and Late
	 Assessing Sexual Health - HEADSSS / Psychosocial History and Sexual Health History
	Sexual Behaviour and STD
	Media and Adolescent sexuality
	Comprehensive Sexuality Education
Evaluation of Sexual Dysfunction in Office Clinical Practice	 Male Sexual Dysfunction - Clinical Challenges Management Strategy for Gynaecologists
	• Effects of Tobacco on Sexual Health
	 Sexual Medicine Clinic - Do's & Don'ts
	- Consents
Sexual Evaluation by Psychologist Perspective	Problem Classification
	 Mindfulness in Sexual Therapy - The New Trend

Module - 2: Reproductive Health, Dermatology & Sexual Medicine	
Chapter :	Lecture Title :
	• Steps of Mx. of Psychogenic ED :
Sexual Evaluation by Psychologist Perspective	Psychotherapy or Drugs - Alone or Combined? How to Choose?
	• Sex Therapy for PME - Is there a Role?
	• Limitations & Concerns of Sex Therapy
Recent concepts in Sexual Dysfunction	• Relevance of Endothelial Testing
	 Quick History Format for Evaluating Male Sexual Dysfunction
	• Using PDE5 Inhibitors Effectively
	 Management of Non-Responders to PDE5 Inhibitors
	 Treatment with Intra-Penile Self-Injection and VED
	 Erectile Dysfunction - Evaluation. A Practical, Therapy-guided Approach for the Urologist
	Introduction to Penile Prosthesis
Management of Sexual Dysfunction / ED in Office Clinical Practice	• Penile Prosthesis - Types and Approaches
	Complications of Penile Prosthesis
	Sex Therapy for Sexual Dysfunction
	Erectile Dysfunction
	Management of Priapism
	 Congenital Penile Curvature & Peyronie's Disease
	Late Onset Hypogonadism
	Case Scenarios

Module - 2 : Reproductive Health, Dermatology & Sexual Medicine	
Chapter :	Lecture Title :
	 Dermatological Conditions those can Adversely Influence the Sexual Relationship
Influence of Dermatological Conditions on Sexual Function	 Genital Dermatoses those can Result in Sexual Dysfunctions
	 Certain Genital Conditions Raises Concern and Sexual Dysfunctions
	• Genital Hygiene
	The Role of Prepuce - Phimosis,
	 Paraphimosis and Circumcision Balanoposthitis and Vulvoginitis
	 Epididymitis, Orchitis, Epididymo-orchitis and Prostatitis
	• Genital Discharges in Men
Influence of STI/HIV & Conital	• Female Genital Discharges
Influence of STI/HIV & Genital Variations on Sexual Function	 Impacts of STI-HIV on Marriage, Parenthood and Resuming Sex after Treatment
	Myths and Misconceptions on STI-HIV
	 Serology of Syphilis and HIV
	 Post Exposure Prophylaxis, Pre-Exposure Prophylaxis & Universal Work Precautions
	 Venerophobia and HIV Phobia
Sexual Evaluation by Dermatologist Perspective	 Role of Female Partners and the Health Care Providers and Others in ED
	 Physiological Discharges and Sexual Dysfunctions
Psychiatry & Sexual Medicine	 Sexual Evaluation by Psychiatrist Perspective

Module - 2 : Reproductive Health, Dermatology & Sexual Medicine	
Chapter :	Lecture Title :
	 Psychiatric Disorders and Sexual Problems - Introduction
	 Treatment of Psychiatric Disorders and Treatment Emergent Sexual Dysfunctions
Psychiatry & Sexual Medicine	 Adult Sexual Violence: Harassment, Assault and Rape
	 Psychiatric Disorder and Sexual Dysfunction
	Sexual Addiction Disorders
	Pornography & Sexuality
Co-Morbidity & Sexual Dysfunction	 Sexual Evaluation & Mx. by General Physician Perspective
	 Sexual Evaluation by Geriatrician Perspective & Mx.
	 Approach to Erectile Dysfunction in Diabetes
	Retrograde Ejaculation - Management
	 Patient Concerns in Young: Shrinkage / Lack of Early Morning / Thin Semen / Decrease in Force of Ejaculation
	 Premature Ejaculation - Treatment Advances and Future
Non ED Sexual Dysfunction : A	· LGBTQIA+
Practical Approach	Traction Devices of Length and Peyronies
	 Testicular, Penile and Postejaculatory Pain - Mx. and Role of Surgery
	• Hypoactive Sexual Desire Disorder
	Phimosis: Foreskin Stretching Devices
	Infertility & Sexual Dysfunction
	Case Scenarios

Module - 2 : Reproductive Health, Dermatology & Sexual Medicine	
Chapter :	Lecture Title :
	Sexual Medicine and Sexual Dysfunction
Guidelines and Complexities in Sexual Dysfunction Management	 PME - Clinical Challenges and Treatment Modalities
	• Sexual Desire Disorders - Part 1
	Sexual Desire Disorders - Part 2
	 Purpose of Knowledge & Knowhow in Gender Issues
Gender & Sexuality	 Terminologies : Why the Changes? Present State of Art
	Hormone Therapy
	 Penile Lengthening
	 Fat Derived Stem Cell Girth Augmentation
	Use of Fillers and More
	Peyronies Disease Treatment
Surgical Videos and Tips & Tricks	 Peyronies Disease - Treatment with Injection & Other Drugs
Surgical videos and Tips & Tricks	 Solutions for Psychological Problems for Sexual Dysfunction
	 Male to Female (MTF) - Part 1 - Gender Reaffirmation Surgery - Surgical Priniciples - Procedures
	 Male to Female (MTF) - Part 2 - Gender Reassignment Surgery - Surgical Steps : Live Video
Set Up and Maximize your Practice in Sexual Medicine	 Setting Up of Sexual Health & Men's Health Services in Your Center - An Effective And Simple Way How to Evolve a Multidisciplinary Practice

Expert Opinions {One to One}

Module - 2: Reproductive Health, Dermatology & Sexual Medicine

Chapter :

Lecture Title :

- Mx. of ED Rx. Failures / Sudden Non Responders - Medically
- ED Management Overview
- Male Infertility Management Overview
- Peyronie's Disease
- Premature Ejaculation Diagnosis and Management

Module - 3 : Psychiatry & Sexuality

Chapter :	Lecture Title :
	 Introduction to Sexual Health - Why it is Important
Introduction to Sexual Health	Dimensions of Sexuality
	 Kamasutra and Other Classics - Lessons to Learn
	Demystifying Sex
	Psychosexual Development in Children
	Genetic Issues & Intersex Conditions
Psychosexual Development – Clinical Issues	 Cognitive, Behavioural & Interpersonal Perspectives of Male Sexual Dysfunction
	 Cognitive, Behavioural, and Interpersonal Perspectives of Sexual Dysfunctions in Females
	• Human Sexual Response - Male
	• Human Sexual Response - Female
	 Adult Sexuality : Pre-marital, Marital & Extra Marital Issues

Module - 3 : Psychiatry & Sexuality	
Chapter :	Lecture Title :
	• Male Sexual Anatomy - Part 1
Basics of Sexuality	• Male Sexual Anatomy - Part 2
	• Female Sexual Anatomy - Part 1
	• Female Sexual Anatomy - Part 2
Bio-Psycho-Social Issues in Sexuality	 Understanding Brain, Behavior & Sex Understanding Biochemistry of Sex Hormones & Sex Bio-Psycho-Social Aspects of Sexual Dysfunction
Sex & Sexuality, Myths & Misconceptions	 Male Myths Female Myths Sexual Myths Dhat & Psychaesthenic Syndrome PLISSIT Model for Managing Sexual Dysfunctions OP Clinic Management
Classification of Sexual Disorders	 Classification of Psychosexual Disorders: Historical Aspects, Current Status & Future Directions

Module - 4 : Psychosexual Techniques, Counselling & Therapies

Chapter :

Introduction

Lecture Title :

• Psychosexual Therapy : An Introduction

Module - 4 : Psychosexual Techniques, Counselling & Therapies	
Chapter :	Lecture Title :
	 Psychological Factors Responsible for Sexual Dysfunctions
	1. Psychosomatic Circle of Sex
	2. Origin of Psychological Problems
Common Psychological Causes of	3. Immediate Psychological Causes
Sexual Dysfunction	4. Conflict-Intrapsychic Causes of Sexual Dysfunctions
	5. Cultural Genesis of Sexual Conflict
	6. The Relationship-Dyadic Causes of Sexual Dysfunction
Sex Counselling	 Counselling for Psychosexual Dysfunctions Therapeutic Alliance and Relationship Counselling Skills Approaches to Counselling for Psychosexual Dysfunctions Case Studies
	5. Key Takeaways
Cognitive Behavior Therapy	 Sexual Dysfunction and Cognitive Behavior Therapy (CBT) 1. CBT Explained 2. CBT Repertoire 3. CBT Process 4. Sex and Brain 5. Case Studies 6. Management strategies

Module - 4 : Psychosexual Techniques, Counselling & Therapies	
Chapter :	Lecture Title :
	 PLISSIT Model of Psychological Interventions for Sexual Problems
	1. Introduction
	2. Components of PLISSIT Model
	3. EXPLISSIT Model
PLISSIT Model	4. Permission Level and Case Scenarios
	5. Limited Information and Case Scenarios
	6. Specific Suggestions and Techniques
	7. Intensive Therapy
	8. Summary and Take Home Knowledge
	 Principles of Sex Therapy
	1. Explanation of Sex Therapy
	2. The Formulation
Drinciples of Cov Thereny	3. Groundwork to be Undertaken before Sex Therapy
Principles of Sex Therapy	4. Dynamics of Therapeutic Actions
	5. List of Sex Therapeutic Strategies
	6. Guidelines for Therapists
	7. The Vicious Circle of Failure and Breaking It
Sex Therapeutic Strategies	 Sex Therapeutic Strategies
	1. Concept Definition
	2. Importance of Multi Disciplinary Team Approach

Module - 4 : Psychosexual Techniques, Counselling & Therapies

Chapter :	Lecture Title :
Sex Therapeutic Strategies	 3. Strategies in Sex Therapy Sensate Focus Erectile Dysfunction Pre Mature Ejaculation Male Orgasmic Disorder Anorgasmia in Women Female Orgasmic Disorder Vaginismus
	4. Modern Behavioural Techniques
	5. Marriage & Couples Therapy
	6. Family Counselling

Module - 5 : Andrology Laboratory & Embryology Laboratory

Chapter :	Lecture Title :
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
Upskilling	 Macro Evaluation, Micro Analysis & DFI by Flow Cytrometry
Cell Biology of Embryology	 Anatomy of the Female Reproductive System Oogenesis, Spermatogenesis & Embryogenesis

Module - 5 : Andrology Laboratory & Embryology Laboratory	
Chapter :	Lecture Title :
	 Setting up of ART Lab
	1. Clean Air System
	2. Incubators
Setting Up an ART Lab	3. Laminar Air Flow System
	4. Microscopes
	5. Micromanupulators
	6. Other essential Equipments
	 Media & Disposables
	1. Contents of Media
Introduction to IVF & ICSI	2. Handling of Media
Procedures	3. Types of Disposables
	4. Usage
	 Preparing Lab for the ART Procedures 1. Particulate Check
	2. VOC level Check
	3. pH Check
Preparing Lab for the ART	4. Temperature Check
Procedures	5. CO2 Check
	6. Daily Check List
	7. Monthly Check List
	8. Annual check List
	• Ovum Pick Up
ART Procedures & Preparation	Conventional IVF
	Denudation

Module - 5 : Andrology Laboratory & Embryology Laboratory	
Chapter :	Lecture Title :
	• Dish & Media Preparation
ART Procedures & Preparation	ICSI & Oocyte Morphology
	Fertilization Check and Embryo Grading
	• Embryo Transfer
Cryopreservation Procedures	 Oocyte & Embryo Vitrification & Embryo Warming
Trouble Shooting	 Trouble Shooting in IVF Lab
Documentation	Documentation According Guidelines
	 Upgrading of skills
	1. Timelapse technology
	2. IMSI
Upgrading of Skills	3. PICSI
	4. Embryo Biopsy
	5. Testicular Sperm Selection
	6. Laser Assisted Hatching
	7. Artificial Activation of Oocyte

Practical Objectives :

- General and Operative Andrology related to male infertility and reproductive medicine.
- Microsurgery and prosthetic surgery
- Reproductive endocrinology including laboratory techniques and biological processes of aging and identification of modifiable factors.
- In addition, individuals completing this training program will be able to: Evaluate the clinical literature on erectile dysfunction and reproductive health in a critical fashion and make contributions to the field
- Teach the specialty of Andrology, and organize a multidisciplinary approach to
- erectile dysfunction and male infertility care.

Practical Outcomes :

On completion of the course, the candidates will be capable of the following:

- Methodical investigation of problems leading to infertility, aging and erectile function in men, including female sexual dysfunction
- Categorizing them according to clinical condition
- Conducting necessary investigations and diagnostic procedures
- Trans rectal / doppler ultrasound examination for study of testis, prostate and seminal vesicles for evaluation of the pathophysiological processes of testicular, seminal, ejaculatory dysfunction
- Bio Chemical assays of reproductive hormones in serum
- Display detailed knowledge and understanding of human Gamete Biology and Molecular perspective
- Critical evaluation of new advances in Biotechnology
- Acquire ability to establish and IVF Centre
- Conductive Quality Control procedures that are essential to the reliable operations of a IVF clinic
- To familiarize oneself with the technique or handling Male and Female Gametes use in IVF / ICSI etc
- Competence in In Vitro Culture techniques used for Gametes and Embryos
- To be capable of Andrology laboratory procedures semen analysis, sperm processing, donor semen banking, motility enhancers for sperm, cryopreservation of Gametes, Embryos and Tissues for later use in human infertility treatment
- Reasonably predict the viability of an Embryo prior to its transfer in IVF

- Achieve/demonstrate skills for Micromanipulation Procedures as in Intra
- Cytoplasmic Sperm Injection required for clinical ART
- Display some knowledge about the techniques used for Karyotyping (e.g. Lymphocyte cultures, amniotic fluid, cell culture etc.,)
- Understand the ethical implications of ART and Cloning
- Develop adequate skills in report writing, oral and visual presentations
- Basic use of computers, data analysis and record maintenance

	 Evaluation of the Aging Male - Clinical
	examination
	Lab evaluation & related aspects
	 Endocrinology, male reproduction, which tests/how useful/Cost & Validity
	 Aging & the Brain
Men's Health Opd:	 Hormonal Aspects of Andropause, somatopause, adrenopause etc.
	• Health Screening of the Aging Male
	 Clinical Approach & Philosophy of anti- aging program goals for the short & long term
	 Chronic Prostatitis/BPH/Cancer of Kidney/ Bladder Cancer & Prostate Cancer
	Transrectal ultrasound of the prostate
	Counseling the Aging Male
Male Infertility Opd	Examination of Male
	 Taking History
	Clinical Examination
	Endocrine Assay

	 AIH/IUI/ICSI/Sperm concentration/ separation/freezing/storage etc.
	 The trainee will attend the Laboratory / Theatre at the time of andrological procedures. PESA, MESA, TESA. TESE and learn aspects of harvesting and preserving the sperm in the laboratory
Male Infertility Opd	Counseling of infertile Couples
	• ED Management
	 Co-morbidity Management: diabetes/ depression/anxiety/loss of energy/ impotence/hypertension
	• Counseling of the ED patient
	 Pharmacological Intervention in ED – past/present & future
	 The trainee will learn to:
	 Evaluate testicular size / morphology /
Training In Ultrasonography	epididymal size assessment
	 TRUS – assessment of prostate seminal vesicle, ejaculatory ducts, any pathology in them
	 Penile cavernosal vasculature, arterial / arteriolar assessment both in flaccid and erect state and identification of plaques
	 Post prosthetic surgery assessment of complications
	5. Torsion testis and identification of the artery
Training In Andrology Related Surgery:	 Operation theatre and ward work consisting of male infertility and erectile dysfunction related Operation Theatre ward work consisting of:
	1. Operative Andrology

	2. Microsurgical techniques in Andrology
	3. Surgery for Male Infertility
	4. Electro-Vibration, Electro-ejaculation
	5. Penile Implant
	6. Venous leak surgery
Training In Andrology Related Surgery:	7. Arterialisation of the Dorsal Vein of the Penis
	8. Penile Curvature Correction & treatment of peyronie's disease
	9. The trainee will be allowed to attend IVF and ICSI procedures and will have a global view of follicular assessment protocols, pharmacologic drugs used, follicular aspiration methodology, and embryo transfer process.
	Learn the principles of steroid assays
Biochemistry Laboratory	 Quality control aspects of steroid assays and trouble shooting
	Inhibin assessment
	 Evaluation of Sperm Quality - Morphology
	Processing of Semen
Andrology Laboratory	Motility enhancers for sperm
	 Cryopreservation of Sperm and testicular tissue
	Optimization of sperm recovery
	Thawing protocols
	 Trouble shooting in andrology lab

Andrology Laboratory	 Advanced sperm function tests – ROS, DNA damage estimation, SCSA / TUNEL assays. Hemizona binding assay, HOS, i. Research methodologies
Training In Art Laboratory	 The laboratory aspects of the fellowship training would form a major part of the training programme and much will be hands on training. The programme will comprise of the following ART Laboratory Maintenance Setting up of the laboratory Selection of equipment and consumables Design of equipment, positioning of equipment and environment standards Staff selection and training. Cleaning methods. Maintenance of Millie – Q – Systems Sterilization of consumables Quality control and quality assurance Microscope selection, usage and maintenance Laminar flow and work bench maintenance Pipetting technique Media preparation and handling Dish Preparation Handling of consumables

Oocyte handling - Observation

- 1. Oocyte cumulus washing
- 2. Denuding

Sperm Processing - Observation

- 1. Sperm analysis morphology, motility, viability etc.,
- 2. Sperm processing methods, swim up, gradient method etc.,
- Sperm preparation for IUI / IVF / ICSI

 obtaining required concentration of motile Cryopreservation of sperm

Embryo handling

- 1. Embryo Culture
- 2. Cryopreservation of embryos
- 3. Zygote of embryo grading
- 4. Selection of embryos for transfer and freezing

Insemination Methods

- 1. IVF
- 2. ICSI Set up of equipment, needle aligning, dish preparation, sperm preparation and technique.

Cell Culture

- 1. Cell line culture serial passage
- 2. Co-culture

Trouble shooting in IVF laboratory

Training In Art Laboratory

Exit Exam

- 1. A minimum of 80% attendance shall be maintained by students.
- 2. "Theory examination" shall be conducted by IMA AMS Karnataka state branch.
- 3. "Practical examination" i.e. Clinicals, log book discussions and general viva shall be conducted by Ankur Healthcare Hospital, Rajajinagar, Bangalore.
- 4. Examination results shall be announced within one week after the exam.
- If any student does not appear for the exam, there will be no supplementary exam. The candidate has to appear as a fresher candidate for the exam whenever the exams will be conducted.
- 6. Certificates to the students will be distributed by IMA AMS headquarters.
- 7. The patron of the question paper is as follows:

Theory Examination (Total 100 Marks) consisting of

- 1. Two long Questions each carrying 20 Marks.
- 2. Six short Questions each carrying 5 Marks
- 3. Thirty MCQ's each carrying 1 Mark (30 MCQ'S)

Practical Examination (Total 250) consisting of

- 1. One long case carrying 50 Marks
- 2. Two short cases each case carrying 25 Marks
- 3. 10 Spotters each Spotter Carrying 5 marks
- 4. Log Book, 10 different Cases, each case carrying 5 Marks
- 5. General Viva carried 50 marks.

The pattern of passing the examination (Theory & Practical):

The candidates will appear for theory and practical examinations on consecutive days. They need to secure minimum 50% marks in both theory and practical examination to be declared passed. Inability to clear either theory or practical will be deemed a failure. If they fail, they will have to reappear for both theory and practical examination with the next batch.



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