



## Learn from the Leaders in Andrology and ART Training:

Since its inception in 2003, our [ART training program](#) has been offering a unique opportunity to learn the latest techniques in routine and advanced andrology along with the full spectrum of embryology-focused technology. In the last 17 years, we have successfully trained over 210 candidates from more than 45 countries. Due to COVID-19 pandemic, we are now pleased to offer our world class ART training course in a new online format. The monthly training will cover 8 different modules in 14 virtual sessions that include routine (manual and automated semen analysis, sperm morphology and other ancillary tests) and advanced tests (sperm DNA fragmentation, seminal oxidation-reduction potential) in andrology as well as all ART-related lab procedures such as: ICSI, assisted hatching, embryo biopsy, PGD, vitrification, sperm preparation and gamete cryopreservation.

## Learning Objectives of Module 2

- Advanced sperm function tests
- Sperm DNA fragmentation (SDF) test
- Oxidation reduction potential (ORP) test
- Lab developed tests (LDT) for SDF
- Clinical relevance of SDF in ART



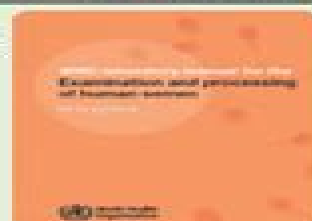
## Who Can Apply:

Biologists, laboratory technologists, embryologists, undergrad life science students, andrologists, veterinarians, medical graduates, researchers, scientists, physicians and others with an interest in learning the latest in andrology and embryology lab protocols from practicing andrologists, renowned clinical embryologists as well as IVF and male infertility specialists.

## About the Training:

Module 2: Advanced Andrology Techniques  
Date: Tuesday, March 9, 2021  
Time: 9:00 am – 11:00 am EST

- Attendance is free-of-charge, participants will not incur any course fee
- A new course module will be available monthly
- Certificate of participation is available\*



## Training Goals:

Learn about the significance of conducting advanced tests for oxidative stress and sperm DNA damage, examine their association with semen parameters and fertility to understand the significance of each test in the management of male infertility.

## Educational Tools:

Moderated session with short PowerPoint presentations, video demonstration of lab techniques, Q&A and trouble-shooting advice.

## About the Training:

- Simple online registration. [Click here to register](#)
- Submit latest curriculum vitae; color, passport size photograph, copy of valid driver's license for US citizens and passport (or) valid driver's license with picture (or) national identification card with picture for overseas citizens. Email to [crm@ccf.org](mailto:crm@ccf.org)



## Each Participant will Receive:

- Key articles
- Clinical guidelines
- Full protocol of lab developed tests

## \*Certificate of Participation:

Certificates will be issued to those who pass an online multiple choice test, conducted after the course, based on the educational content covered during the virtual course. There will be 50 questions with 4 possible responses and one correct answer. A passing rate of ≥65% will be used as a criteria for the award of the certificate. There will be no negative marking for incorrect answers.

# Techniques Of Human Andrology

**Lt Col Pankaj Talwar VSM**



## **Techniques Of Human Andrology:**

Techniques of Human Andrology Elsayed Saad Eldin Hafez, 1977      Some Techniques of Human Andrology , 1980

**Techniques of human andrology** , 1976      **Practical Laboratory Andrology** David Mortimer, 1994 This practical manual on sperm analysis presents the diagnostic and therapeutic procedures that are used in andrology laboratories to analyze and assess male infertility Diagnostic areas include semen analysis and the biochemical immunological and microbiological examination of human semen and spermatozoa computer aided sperm motility analysis sperm ultrastructure and assessment of sperm transport through the female tract and sperm fertilizing ability The clinical relevance of various diagnostic procedures is also discussed Therapeutic topics include sperm washing techniques semen cryopreservation and insemination procedures The volume also covers safety in the andrology laboratory technician training and quality control The text is extensively illustrated and will be an invaluable resource to all scientists and technicians who diagnose male infertility It will also be of interest to researchers working in human gamete biology and reproductive physiology The detailed methods described in the book are relevant to all hospital commercial and university laboratories involved in infertility diagnosis and treatment      *TECHNIQUES OF HUMAN ANDROLOGY- PROCEEDINGS- 2ND C.S. MOTT SYMPOSIUM ON*

*ANDROLOGY- C.S. MOTT CENTER FOR HUMAN GROWTH AND DEVELOPMENT.* ,      Manual of Assisted Reproductive Technologies and Clinical Embryology Lt Col Pankaj Talwar VSM, 2014-05-14 Manual of Assisted Reproductive Technologies and Clinical Embryology aims to discuss the relevance of science of reproductive biology in modern day Assisted Reproductive Technologies and their practical applications The readers can learn and master the large number of sophisticated techniques which form the backbone of the fascinating and growing field of human assisted reproduction The subject is vast and has been covered over 83 chapters All the chapters are dealt by the experts of concerned fields Principles and protocols pertaining to laboratory maintenance culture media cryofreezing of gametes embryos and genital tissues have been dealt with at length This book is an invaluable reference book for the clinicians reproductive biologists and embryologists      **Male Infertility** T.B. Hargreave, 2012-12-06 Male infertility is a clinician orientied book aimed at the

clinician dealing with the infertile couple because rational effective management is only possible if the couple are considered together The aim of the work is to provide advice to the clinician and to give reference to the underlying science This will not only enable clinicians to understand the underlying science but will also give scientists an insight to clinical work This blend of science and clinical work is reflected in the contributors who are experts drawn from both fields      **Instrumental**

**Insemination** E.S. Hafez, K. Semm, 2012-12-06 This volume represents the Proceedings of the World Conference on Embryo Transfer In Vitro Fertilization and Instrumental Insemination held on September 24 27 1980 in Kiel West Germany Professor Dr L Mettler and Dr H H Riedel of Frauenklinik der UniversiUit in Kiel were the local co chairpersons who contributed very richly to the program Basic research clinical trials preparation of manuscripts editorial assistance and presentation of results

were generously supported by the following institutions and organizations Kulturministerium des Landes Schleswig Holstein Medizinische Fakultät der Christian Albrechts Universität Kiel Wayne State University School of Medicine Detroit Michigan USA C S Mott Center for Human Growth and Development Detroit Michigan USA Universitäts Frauenklinik und Hebammenlehranstalt Kiel West Germany Serono GmbH Freiburg West Germany Hutzel Hospital Detroit Medical Center Detroit Michigan USA Deutsche Gesellschaft für Gynaekologie und Geburtshilfe West Germany Deutsche Gesellschaft zum Studium der Fertilität und Sterilität Sektion Andrologie Thanks are also due to Aponti GmbH 5000 Köln 21 Bayropharm GmbH 5000 Köln 80 Deutsche Lufthansa 5000 Köln Organon GmbH 8024 Oberschleissheim Winthrop GmbH 6080 New Isenburg and Wisap GmbH 8029 Sauerlach for financial assistance Sincere appreciation and gratitude are due to the contributors who meticulously prepared their chapters to Ms Jackie Mucci for editorial skills and assistance and Ms Jackie Smieska for editorial help Thanks are also due to Dr H D Brackebusch for his assistance during the conference to Ms E Seiss for her secretarial assistance and to Mr Male Infertility Sergio Oehninger, Thinus Kruger, 2007-01-23 Male factor infertility is a common problem in reproductive medicine and can have a significant effect of the outcome of IVF treatment This comprehensive book covers the diagnosis and treatment of male factor infertility in depth It opens with a section on the basic science underlying the production of male gametes There is then a major section *Handbook of the Laboratory Diagnosis and Treatment of Infertility* Brooks A. Keel, Bobby W. Webster, 1990-06-22 This book provides comprehensive detailed and step by step descriptions of materials and methods currently used in laboratory procedures within the infertility clinic It addresses the numerous highly sophisticated procedures resulting from research in the area of laboratory diagnosis and treatment of infertility Among those procedures covered are **Regulation of Male Fertility** G.R. Cunningham, W.B. Schill, E.S. Hafez, 2012-12-06 Many of the studies discussed in this book were addition to discussions of a variety of hormonal presented at the First Pan American Congress of biochemical immunological physical and me Andrology which was held in Caracas Venezuela chemical approaches It is our hope that the efforts in March 1979 An international group of in of the contributors will help to intensify research investigators have contributed reviews designed to and development of improved methods for safely be informative to medical graduate and post regulating male fertility graduate students as well as clinicians and in investigators working in the area of male reproduc G R CUNNINGHAM tion Current physiological concepts that may W B SCHILL provide insight for new initiatives are examined in E S E HAFEZ TABLE OF CONTENTS Preface v Contributors IX Foreword by C SCHIRREN XI 1 PHYSIOLOGY OF MALE REPRODUCTION 1 Hormonal regulation of testicular function 5 P FRANCHIMONT 2 Inhibin new gonadal hormone 15 P FRANCHIMONT A DEMOULIN J VERSTRAELEN PROYARD M T HAZEE HAGELSTEIN and J P BOURGUIGNON 3 Morphological features of the epididymis possible significance in male contraception 25 T D GLOVER 4 Regulatory physiology of male accessory organs 35 E S E HAFEZ and G R CUNNINGHAM 5 Methods for evaluating contraceptive techniques 41 T Z HOMONNAI and F G PAZ II

HORMONAL CONTRACEPTION 6 Inhibition of male reproductive processes with an LH RH agonist 55 A CORBIN and F J BEX 7 The Art & Science of Assisted Reproductive Techniques (ART) Gautam N Allahbadia, 2017-07-17 This second edition has been extensively revised to bring clinicians fully up to date with the latest technologies and advances in the field of assisted reproductive techniques ART Each section is dedicated to a sub specialty from polycystic ovary syndrome ART procedures and laboratory issues to implantation cryopreservation endoscopy ultrasound and more A section entitled contemporary thoughts examines the improvement of IVF outcome ART and older women and HIV and ART and another discusses third party reproduction Edited by internationally recognised experts in reproductive medicine this comprehensive guide is highly illustrated with clinical photographs and diagrams to enhance learning Previous edition 9781841844497 published in 2004 Key points Fully revised second edition providing latest advances in ART Complete section dedicated to third party reproduction Highly experienced internationally recognised editor and author team Previous edition 9781841844497 published in 2004 **Catalog of Copyright Entries. Third Series** Library of Congress. Copyright Office, 1979 *Current Catalog* National Library of Medicine (U.S.), First multi year cumulation covers six years 1965 70

**Male Fertility and Infertility** T. D. Glover, C. L. R. Barratt, 2009-03-19 This contemporary account of male fertility provides a much needed bridge between those seeking to understand the subject from an evolutionary and biological perspective and those with clinical responsibility for the investigation and treatment of infertility Accordingly the first half of the book deals with the evolutionary aspects of male reproduction and sperm competition sperm production and delivery in man and other animals spermatogenesis and epididymal function sperm transport in the female tract and the apparent decline in human sperm count The second part of the book puts greater emphasis on clinical problems and opens with a discussion of intracytoplasmic sperm injection its value and limitations This is followed by a review of modern developments in the genetics of male fertility and proceeds to a further chapter on the role of surgical procedures used in the treatment Semen analysis is critically reviewed and the molecular techniques now being used in preimplantation diagnosis and in the study of mitochondrial inheritance are fully described Taken together these chapters written by an international team of authors illustrate the breadth of vision needed to tackle the problem of male fertility **Disturbances in Male Fertility** K. Bandhauer, G. Bartsch, J. Frick, D.M. de Kretser, A. Eshkol, M. Glezerman, J.B. Kerr, B. Lunenfeld, W. Pödlinger, H.P. Rohr, F. Scharfetter, P.D. Temple-Smith, 2012-12-06 Impending famine and a terrifying rate of consumption of natural resources are vital issues which have focussed public interest in the ecologic social and political problems of ever increasing overpopulation in many countries of the world As well as the vast material and intellectual expenditure lavished on family planning and birth control the past decade has seen an immense research effort in the elaboration of improved methods of fertility control both for men and for women During the same period however research into the causes of male fertility disorders has proceeded with equal intensity and a number of promising therapeutic approaches have become the subject of

clinical trials The wish of an individual or of a couple to have offspring is an absolute which requires no further justification and there can be few challenges to a physician as essential as the spouses predicament in a childless marriage Only with a special knowledge of the function pathology and pathophysiology of the reproductive system is he properly equipped to meet that challenge

**Male Reproductive Function and Semen** T. Mann, C. Lutwak-Mann, 2012-12-06 To present a coherent and meaningful survey of scientific research endeavour in an area that has expanded as fast as physiology and biochemistry of reproduction in the male is no mean task these days No less prodigious than the growth of knowledge of male reproductive function has been the rate at which the outpouring of publications on this subject has continued since the appearance of *The Biochemistry of Semen and of the Male Reproductive Tract* in 1964 Since cyclopaedic treatment of this vast literature did not appeal to us we have made no attempt either to rehash the material contained in that book or to enlarge the bibliography beyond the nearly 3500 references included in the present treatise At the same time whilst writing we felt strongly that to advance it is necessary to understand the past and for this reason we have not hesitated to refer especially in the introductory chapter to a number of those fundamental early discoveries in which today's knowledge is deeply and firmly rooted

*Treatment of Male Infertility* J. Bain, Wolf-Bernhard Schill, L. Schwarzstein, 2012-12-06 Our insight into the mechanisms of the physiology of reproduction has experienced a swift and constant development these last few years The advent of more sophisticated diagnostic methods and their relatively easy clinical application allow for the incorporation of that knowledge into the evaluation of the infertile couple These facts together with an obvious change in social psychology have facilitated the development of different specialities dealing with the problems of infertility It is now possible in medical centers all around the world to undertake a better disposition of the infertile husband to look for advice to be studied and treated Confronted with this situation we are still unable to offer specific therapy in most cases however empirically based therapy abounds Advances in therapy have not kept pace with our increased physiological knowledge and improved diagnostic techniques Pathophysiological mechanisms and etiological factors in male infertility are largely unknown This has significantly hampered both clinical evaluation and advances in treatment allowing for frequent non scientific therapeutic incursions into the armamentarium of the andrologist Several factors have given birth to therapeutic fashions which are bound to survive as long as this state of lack of knowledge continues For example we may ask whether the treatment of varicocele constitutes a fashion Though we accept the treatment of varicocele as the best available treatment of male infertility we do not know its mechanism of action and so we cannot predict a therapeutic result

**Andrology** John D. Paulson, 1986

[Kinins IV](#) Lowell Greenbaum, 2012-12-06 Scientists from 25 countries came together at the Hyatt Regency Hotel on October 21-25 1984 for the 4th International Kinin Congress in the beautiful city of Savannah Georgia Many of the delegates enjoyed southern hospitality for the first time The friendly city with its streets lined with the Live Oak Tree symbol of the Congress the balmy weather and the excellent facilities of the hotel set the stage for scientific events and exchange

that proved so successful The organization of the meeting was the result of many hours days and weeks of effort by many including from Augusta Drs James H Sutherland John Catravas William Davis Jr and Hiroshi Okamoto and from Charleston SC Julie Chao Ronald Mayfield and Donald Miller Special thanks go to Ms Cher Cornett of the Department of Medical Illustration at the Medical College of Georgia for her talent in the design of the logo as well as the graphics of the program and abstracts We are indeed indebted to Dr Paul Brucker Director of the Division of Health Communications at the Medical College of Georgia for his considerable aid in spending time with us to arrange the programming format and continuity Ms Sandra Usry provided very excellent and devoted secretarial help for several years while the Congress was in the making

The Top Books of the Year Techniques Of Human Andrology The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous captivating novels enthralling the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the engaging narratives that have captivated audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This poignant tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Techniques Of Human Andrology : Delia Owens "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and suspenseful novel that will keep you wondering until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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