

Micromanipulation in Assisted Conception – A User's Manual and Troubleshooting Guide

Authors Steven D Fleming and Robert S King

The field of assisted conception is rapidly evolving with new techniques being developed and subsequently introduced into clinical practice. The success of these techniques largely depends on staff expertise and quality of equipment resources within the 'assisted conception' laboratory. Acquisition of micromanipulation techniques is an integral part of the embryologist's training. This book deals with assisted conception from a technical point of view. Nonetheless, it provides a great deal more than one would originally anticipate by just reading the book's title.

The initial impression is of a well-designed textbook. It comes in a superior quality print, which renders it attractive to the reader. There are plenty of photographs and illustrations, which facilitate understanding and practical problem solving. It is divided into chapters, each dealing with a different aspect of micromanipulation. It is the authors' intention for each chapter to stand on its own, so that the reader may directly access the chapter of interest. Glossary and abbreviation indexes are included, which is extremely helpful to readers not familiar with relevant terminology. Furthermore, a list of suppliers and manufacturers of equipment and consumables (including web addresses) is provided for professionals who are directly involved in the setting up and maintenance of an assisted conception unit. A troubleshooting section is included at the end of each chapter dealing with common technical problems encountered during performing micromanipulation techniques. Interestingly, this comes in a structured and uniform format, making troubleshooting a user-friendly process.

The content is presented in a clear and meticulous manner. The scientific knowledge

provided is supported by a combination of up-to-date literature evidence and the authors' longstanding experience in the field. The trainee embryologist can use the text as a walkthrough guide in setting up and 'tuning' laboratory equipment as well as learning to perform micromanipulation techniques. The senior embryologist will further explore the options currently available with regard to choice of technique, equipment and consumables, as a means to enhancing quality performance within the laboratory environment. The clinician with a special interest in assisted conception techniques will appreciate the implication of various techniques on reproductive outcome, obtain insight on managing couples with severe male factor infertility and receive up-to-date knowledge on new and advanced techniques, such as somatic cell nuclear transfer and embryo biopsy. Finally, the researcher who makes use of micromanipulation techniques will acquire useful tips on customising equipment for research purposes. Furthermore, novel DNA manipulation techniques, such as direct DNA microinjection or the use of DNA-transfected embryonic stem cells on animal (mice) models are described, in support of the extensive potential of micromanipulation techniques in studying gene regulation and introducing future therapeutic modalities.

In conclusion, this book, albeit a technical guide, is likely to benefit both clinicians and researchers working within the exciting field of assisted conception. It will undeniably be an invaluable tool for any professional contemplating the setting up and running of a modern 'assisted conception' laboratory. Its meticulous design, explicit writing style and practical analysis provide a reliable, hands-on manual on assisted conception micromanipulation techniques.

Reviewer: Athanasios Pappathomaslou MBChB, Registrar, Department of Obstetrics and Gynaecology, University College Hospitals NHS Trust, London, UK.

BOOK REVIEWS

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Micromanipulation In Assisted Conception A Handbook And Troubleshooting Guide

**Zsolt Peter Nagy,Alex C.
Varghese,Ashok Agarwal**



Micromanipulation In Assisted Conception A Handbook And Troubleshooting Guide:

Micromanipulation in Assisted Conception Steven D. Fleming, Robert S. King, 2003-11-06 This guide to micromanipulation techniques for assisted conception in a clinical setting includes detailed descriptions of all common micromanipulation systems currently in use in IVF laboratories In explaining how to optimize their successful use the volume covers state of the art techniques including ICSI and procedures such as assisted hatching and the blastomere biopsy for PGD Valuable information on troubleshooting mechanical and technical difficulties is provided to help professionals ranging from technicians to consultant obstetricians master the techniques *Manual of Intracytoplasmic Sperm Injection in Human Assisted Reproduction* Gianpiero D. Palermo, Zsolt Peter Nagy, 2021-11-25 Not everything in medical science has a clear beginning The first realization of infertility and putative remedies remain shrouded in contextual history but likely goes back to the dawn of our species well before there was a written record Childlessness was and is still considered a burden in some communities **In Vitro Fertilization** Zsolt Peter Nagy, Alex C. Varghese, Ashok Agarwal, 2019-07-03 Now in its revised and expanded second edition including over 20 new chapters this comprehensive textbook remains a unique and accessible description of the current and developing diagnostic and treatment techniques and technologies comprising in vitro fertilization IVF Arranged thematically in sections each chapter covers a key topic in IVF in a sensible presentation Parts one and two describe the planning design and organization of an ART unit and IVF laboratory and equipment and systems respectively The sections that follow provide detailed descriptions of IVF techniques embryo culture methods sperm processing and selection insemination procedures micromanipulation embryo evaluation cryopreservation and embryo transfer Concluding sections address issues of management and regulation of ART labs across the globe as well as special topics and emerging techniques and devices Chapter authors all experts in the field contribute their expertise from around the world With the addition of learning key points and review questions at the beginning and end of each chapter this new edition of In Vitro Fertilization is a readily accessible high quality instructional resource for reproductive medicine trainees at all levels Practicing reproductive endocrinologists urologists and embryologists also will find value in the book as will infertility researchers **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 *Journal of the Medical Library Association* ,2004

Forthcoming Books Rose Arny,2003-04 **Practical Manual of In Vitro Fertilization** Zsolt Peter Nagy,Alex C.

Varghese,Ashok Agarwal,2012-04-23 The Practical Manual of In Vitro Fertilization Advanced Methods and Novel Devices is a unique accessible title that provides a complete review of the most well established and current diagnostic and treatment techniques comprising in vitro fertilization Throughout the chapters a uniform structure is employed including a brief abstract a keyword glossary a step by step protocol of the laboratory procedures several pages of expert commentary key issues of clinical concern and a list of references The result is a readily accessible high quality reference guide for reproductive endocrinologists urologists embryologists biologists and research scientists The Manual also offers an excellent description of novel procedures that will likely be employed in the near future An indispensable resource for physicians and basic scientists the Practical Manual of In Vitro Fertilization Advanced Methods and Novel Devices is an invaluable reference and addition to the literature *Troubleshooting and Problem-Solving in the IVF Laboratory* Kay Elder,Marc Van den

Bergh,Bryan Woodward,2015-06-18 Maintaining consistent and reliably high success rates is a daily challenge for every IVF laboratory This step by step guide is an essential aid in navigating the complex maze of physical chemical biological and logistic parameters that underpin successful gamete and embryo culture temperature pH osmolality gas supplies air quality light exposure infections managing supplies personnel as well as overall quality control Numerous real life troubleshooting case reports are presented identifying all aspects necessary for troubleshooting Process maps and flow charts accompanying each chapter offer a logical and systematic approach to problem solving in the laboratory This is an essential resource for scientists in assisted reproductive technology and specialists in reproductive biology and medicine helping IVF clinics to achieve the dream of every infertile couple the birth of a healthy child *Anatomy and Physiology for Midwives E-Book* Jane

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set up and management process from air quality control and cryopreservation facilities to morphological embryo assessment sperm processing and selection techniques to document management systems A separate chapter provides an update on semen analysis based on World Health Organisation WHO standards and interpretation of results Written by an extensive author and editor team from the UK Europe and the USA this practical manual is invaluable for embryologists and IVF specialists planning to set up and manage an IVF laboratory successfully Key points Practical guide to setting up and managing an IVF laboratory Provides step by step process Includes chapter on semen analysis based on WHO standards and interpretation of results Extensive author and editor team from UK Europe and USA

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