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Forthcoming in 2009

Preimplantation Genetic Diagnosis

Second edition

Edited by Joyce Harper
University College London

Preimplantation genetic diagnosis (PGD) is a key technique in modern reproductive medicine.

Originally developed to help couples who were at risk of transmitting single-gene genetic abnormalities to their children, the development of the FISH technique broadened chromosome analysis to include detection of more complex inherited abnormalities.

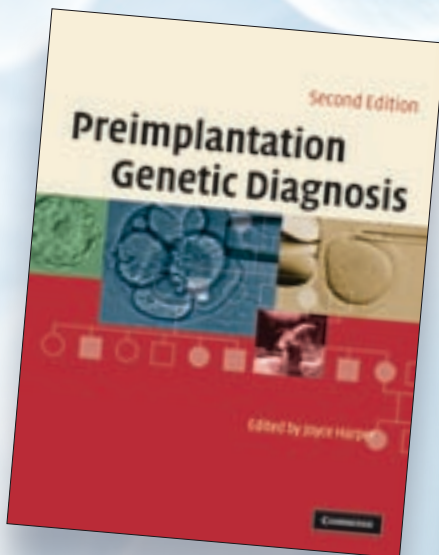
The last decade has seen the development of aneuploidy screening (PGS) for infertile couples, using the same techniques as PGD but screening for as many chromosomes as possible. The second edition of this leading textbook describes all aspects of PGD, with chapters written by key international experts in the field.

- ▶ *Covers theoretical background on all aspects of PGD, including inherited disorders, prenatal diagnosis and IVF*
- ▶ *Describes laboratory techniques in detail, including the different types of biopsy and diagnosis*

c. May 2009 328pp
978-0-521-88471-6

HB

c.£ 70.00



Sperm Banking

Theory and Practice

Edited by Allan A. Pacey
University of Sheffield

and Mathew J. Tomlinson
University of Birmingham

It is now routine to offer men the opportunity to bank sperm prior to medical treatments where there is a high risk of testicular damage. Some men also elect to bank sperm prior to vasectomy or before embarking on a high-risk activity, such as joining the armed services.

This book examines the processes involved in banking sperm from sample production and storage, through the subsequent treatment of the patient and the storage of samples, to the process of follow-up and the ultimate fate of frozen samples.

Of particular interest to andrologists and embryologists involved in sperm-banking services, *Sperm Banking: Theory and Practice* will also be useful to medical and nursing professionals and counsellors involved in the diagnosis and treatment of conditions where there is a risk of infertility as a consequence of the treatment.

- ▶ *A handy reference manual encompassing cryobiology, psychology, laboratory medicine and fertility treatment*
- ▶ *Multidisciplinary author team includes scientists, doctors, lawyers and social scientists*

March 2009 196pp

978-0-521-61128-2

PB

c.£ 40.00

Infertility and Assisted Reproduction

Edited by Botros Rizk
University of South Alabama

Juan A. Garcia-Velasco
Rey Juan Carlos University School of Medicine

Hassan N. Sallam
University of Alexandria School of Medicine

and Antonis Makrigiannakis
University of Crete

Assisted reproductive technology (ART) is one of the most rapidly changing and hotly debated fields in medicine. This comprehensive textbook encompasses the latest research into the physiology of reproduction; the evaluation and treatment of infertility; and assisted reproduction.

World-class experts – representing research from 18 different countries – detail the techniques and philosophies behind medical procedures of infertility and assisted reproduction. For ease of use, key points are highlighted at the end of each chapter.

Concluding with perspectives on the ethical dilemmas faced by clinicians and professionals, *Infertility and Assisted Reproduction* is a definitive resource for specialists the world over.

2008 806pp
978-0-521-87379-6

HB

£ 100.00

New

Single Embryo Transfer

Edited by J. Gerris
University Hospital Ghent

G. D. Adamson
Stanford University School of Medicine, California

P. De Sutter
Universiteit Gent

and C. Racowsky
Harvard School of Public Health, Massachusetts

Multiple pregnancies are the most frequent and serious complication of assisted reproduction. Both high-order multiple and twin pregnancies entail a number of medical and economic outcomes that affect the children, the mother, the parents, the families, and society as a whole.

Limiting the number of embryos to transfer is the only method available to decrease the incidence of multiple pregnancies.

Single Embryo Transfer reviews the advantages and limitations of this approach.

The crucial issue of selecting the best embryo is reviewed in detail, as well as the clinical issues involved in setting up and running an SET programme.

Important topics such as cryopreservation of embryos, embryo donation, and patient counseling are considered, along with future SET trends in Europe and North America.

'authoritative and up to date – a worthwhile contribution to the field.'

PROFESSOR WILLIAM L. LEDGER, UNIVERSITY OF SHEFFIELD

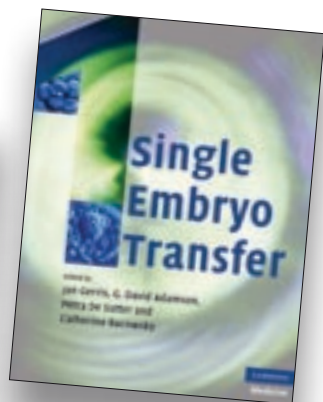
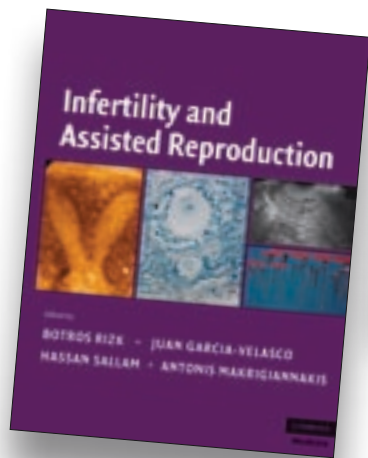
- A practical guide to setting up a SET program
- Summarizes and clearly presents international research

2008 324pp
978-0-521-88834-9

HB

£ 55.00

New



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Nezhat's Operative Gynecologic Laparoscopy and Hysteroscopy

Camran Nezhat
Stanford University School of Medicine, California

Farr Nezhat
Mount Sinai School of Medicine, New York
and Ceana Nezhat
Nezhat Medical Center, Atlanta

Laparoscopy is the most common surgical procedure performed by gynecologists today.

Cataloging the full spectrum of laparoscopic procedures in gynecology, oncology, and infertility treatment, this title describes techniques in minimally invasive surgery and reviews the supporting evidence-based medical literature.

Sections on the management of complications during laparoscopy are included, ranging from vascular injury to bladder or bowel injury, as well as expanded chapters on laparoscopic anatomy, operative hysteroscopy and pelvic floor repair. High-quality color pictures supplement many of the presentations.

The product of extensive experience, this volume is edited by pioneers of some of the most important laparoscopic procedures used today,

2008 496pp 327 illustrations
978-0-521-86249-3 HB £ 100.00

New

A Practical Guide to Basic Laboratory Andrology

Lars Björndahl
Karolinska Institutet, Stockholm

Christopher Barratt
University of Dundee

and David Mortimer
Oozoa Biomedical Inc, Vancouver

This practical handbook covers the procedures undertaken in andrology and ART laboratories to analyse and assess male-factor infertility, and to prepare spermatozoa for use in assisted conception therapy.

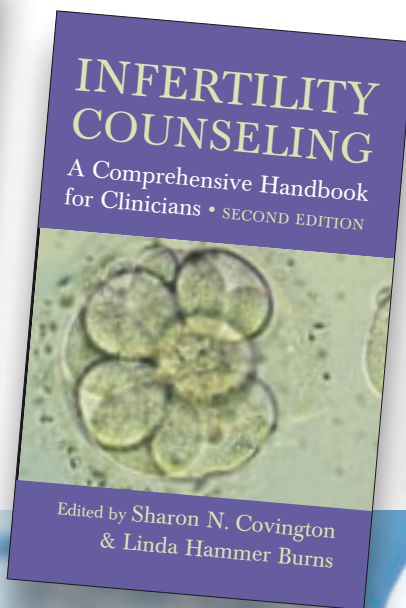
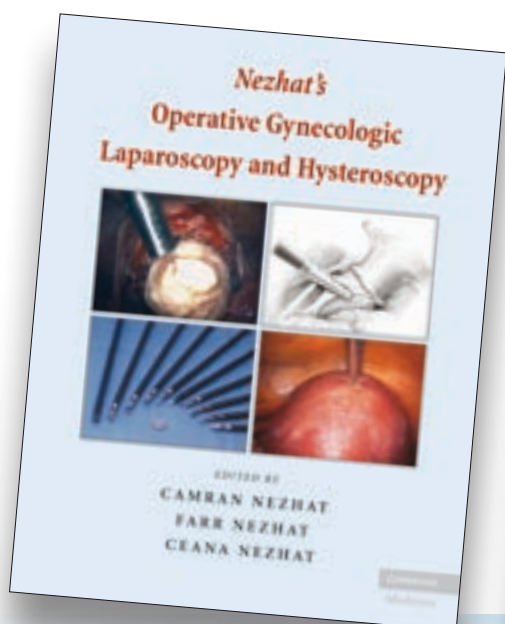
Brief, authoritative overviews of the relevant biological background for each area are accompanied by detailed, step-by-step descriptions of the relevant analytical procedures. Extensively illustrated, each technical section includes quality control considerations, as well as the optimum presentation of results.

In addition to the comprehensive 'basic' semen analysis, incorporating careful analysis of sperm morphology, the handbook provides established techniques for the use of computer-aided sperm analysis and sperm functional assessment. Throughout, the interpretation of laboratory results in the clinical context is highlighted, emphasizing safe laboratory practice.

It is an invaluable resource to all scientists and technicians who perform diagnostic testing for male-factor infertility.

c. June 2009 288pp
978-0-521-73590-2 PB c.£35.00

Forthcoming



Infertility Counseling

A Comprehensive Handbook for Clinicians

Second edition

Edited by Sharon N. Covington
Georgetown University School of Medicine, Washington DC
and Linda Hammer Burns
University of Minnesota Medical School

A comprehensive, multidisciplinary textbook for anyone working in the field of reproductive health.

The most thorough and extensive book currently available, it addresses both the physical and psychological aspects of infertility, reviewing assessment approaches, treatment strategies, counseling for medical conditions with an impact on fertility, third-party reproduction, alternative family building and post infertility counseling issues.

Following a clear, easy-read format (introduction, historical overview, literature review, theoretical framework, identification of clinical issues, suggestions for therapeutic interventions, future implications), this edition also includes extensive appendices of useful clinical tools, including an internet database of resources and an extensive glossary of terminology.

'a book that will be of benefit to seasoned professionals as well as newcomers working in ... the provision of ART and infertility treatment'

FERTILITY AND STERILITY

2006 678pp

978-0-521-85363-7

HB

£ 75.00

978-0-521-61949-3

PB

£ 45.00

Assisted Reproductive Technology

Accomplishments and New Horizons

Edited by Christopher J. De Jonge
University of Minnesota
and Christopher L. R. Barratt
Birmingham Women's Hospital

This insightful and thought-provoking compilation describes the rapid advances that have revolutionised reproductive medicine.

The product of converging and overlapping developments in reproductive biology, molecular biology and genetics, these advances – allied with remarkable technical developments – are pushing the boundaries of this discipline ever faster forward.

From oogenesis and spermatogenesis, through to fertilisation, embryogenesis, and cloning, this volume looks at cutting-edge technologies and scientific advances, as well as looking at the diagnosis and treatment of infertility using assisted reproductive technologies.

A final section considers the impact of these developments on the provision, regulation and financing of reproductive health care in the global community.

'a topical and authoritative work that is simultaneously a joy to read.'

JOURNAL OF ANDROLOGY

'an authoritative account of current knowledge in the field of human reproductive biology and assisted conception.'

THE OBSTETRICIAN AND GYNAECOLOGIST

2002 446pp

978-0-521-80121-8

HB

£ 105.00

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The Sperm Cell

Production, Maturation, Fertilization, Regeneration

Edited by Christopher De Jonge
University of Minnesota, Minneapolis

and Christopher L.R. Barratt
University of Birmingham

This is a much-needed update on the investigation of the human male gamete. The volume summarizes many unique and revealing characteristics of the sperm cell that have only recently been identified. It provides a detailed overview of human sperm production, maturation and function, and looks at how these processes affect and influence fertility, infertility and ART.

This timely and definitive account will appeal to all practitioners and scientists in reproductive medicine.

2006 350pp 77 illustrations
978-0-521-85397-2 HB £76.00

In Vitro Fertilization

2nd Edition

Kay Elder

Bourn Hall Clinic, Cambridge

and Brian Dale

Centre for Reproductive Biology, Naples

'... concise, well written and should be mandatory reading for all potential and actual embryologists, as well as for those clinicians seeking a wider understanding of the subject. It is highly recommended.'

HUMAN FERTILITY

2000 324pp 48 illustrations
978-0-521-77863-3 PB £50.00

Male Fertility and Infertility

Edited by T. D. Glover
University of Leeds

and C. L. R. Barratt
University of Birmingham

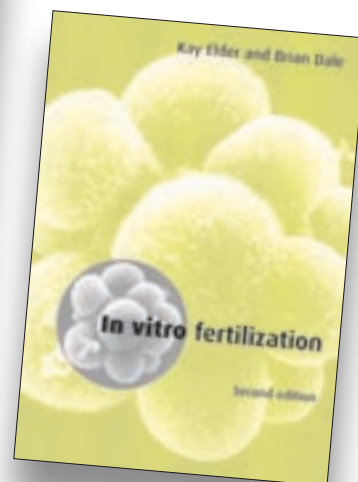
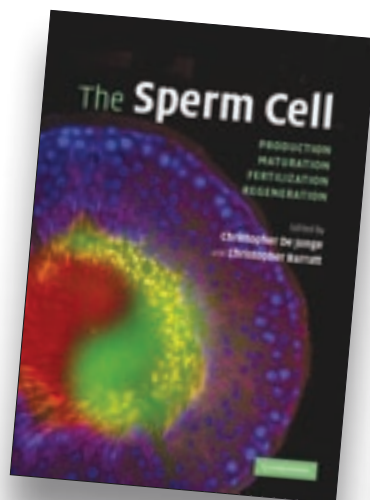
This contemporary account of male fertility provides a much needed bridge between those seeking to understand the subject from an evolutionary and biological perspective and those with clinical responsibility for the investigation and treatment of infertility.

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. Modern developments in the genetics of male fertility and the role of surgical procedures are also considered.

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.

1999 286pp
978-0-521-62375-9 HB £ 70.00
978-0-521-10400-5 PB £27.99



Infections, Infertility, and Assisted Reproduction

Kay Elder

Bourn Hall Clinic, Cambridge

Doris J. Baker and Julie A. Ribes

Both from University of Kentucky

ART treatment is vulnerable to potential infection from many different sources: patients, samples, staff and the environment. This unique and practical book provides a basic overview of microbiology in the context of ART, with an up-to-date guide to infections in reproductive medicine. The relevant facets of the complex and vast field of microbiology are condensed and focused, highlighting information that is crucial for safe practice in both clinical and laboratory aspects of ART. This is an essential publication for all ART clinics and laboratories.

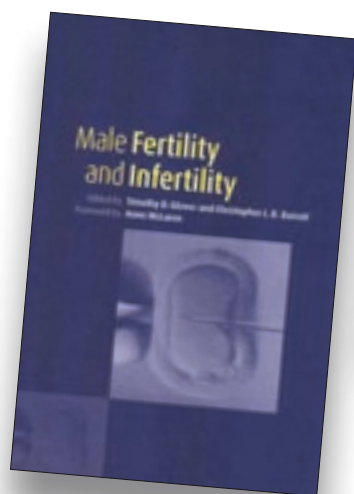
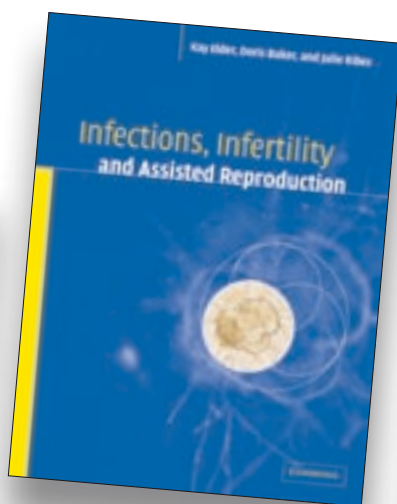
- ▶ *Spans the important interface between the fields of reproductive medicine and microbiology*
- ▶ *Deals in depth with the perils and risks of infection during ART, and how best to eliminate and avoid these*
- ▶ *Practical, well-illustrated and with well-documented guidance on protocols and procedures*

2004 410pp 93 illustrations

978-0-521-81910-7

HB

£80.00



Micromanipulation in Assisted Conception

Steven D. Fleming

University of Sydney

and Robert S. King

Eppendorf Inc. USA

Written by experts with in-depth, hands-on experience of using micromanipulation, this practical handbook provides a comprehensive, highly illustrated and up-to-date guide to micromanipulation techniques in a clinical setting. It includes detailed, illustrated descriptions of all the common micromanipulation systems currently in use in IVF laboratories and clearly explains how to optimise 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 all the practitioners of these techniques, from technicians to consultant obstetricians.

'Its meticulous design, explicit writing style and practical analysis provide a reliable, hands-on manual on assisted conception micromanipulation techniques.'

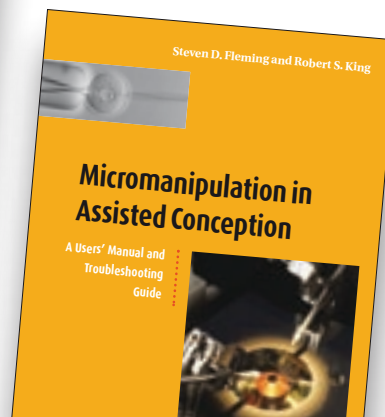
THE OBSTETRICIAN AND GYNAECOLOGIST

2003 266pp 100 illustrations

978-0-521-64847-9

HB

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Sperm Collection and Processing Methods

A Practical Guide

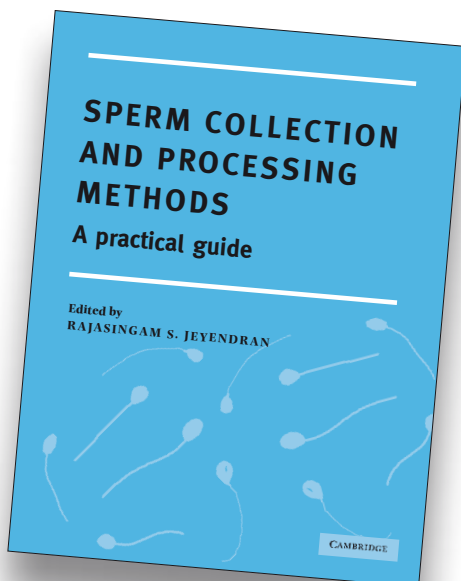
Edited by Rajasingam S. Jeyendran
Northwestern University Medical School, Illinois

This practical guide to sperm collection and processing methods demonstrates how successful these procedures are in overcoming even severe infertility. Most sterility cases are now either treatable or entirely circumvented through various clinical techniques described in this volume, including surgical correction, hormone treatment, and various sperm enhancement technologies.

This compilation provides clinical and laboratory professionals from all areas of reproductive medicine with a comprehensive overview and a handy reference.

- *Describes new procedures that help alleviate even severe cases of male infertility*
- *Summarises the experience of many experts involved in this area*
- *Practical and accessible account with helpful illustrations and clear description of procedures*

2003 170pp 37 illustrations
978-0-521-52417-9 PB £43.00



Interpretation of Semen Analysis Results

A Practical Guide

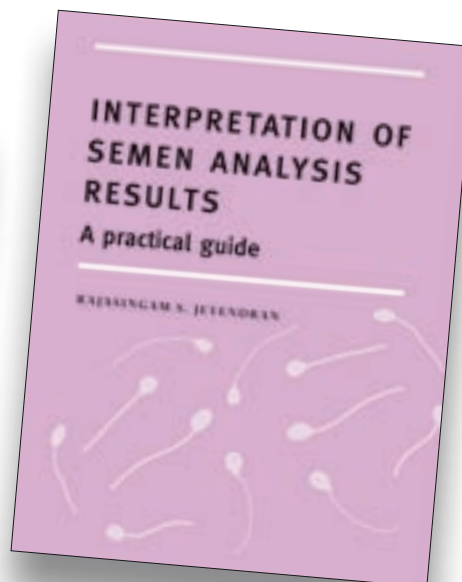
Rajasingam S. Jeyendran
Northwestern University Medical School, Illinois

A structured approach to the interpretation of semen analysis. It includes vignettes of real-life case reports, which reflect the wealth of experience of the author in making a valid and useful interpretation from semen analysis from a wide range of patients. Designed to help those who are less experienced to quickly establish some guidelines and pointers which will enable them to evaluate the various types and ranges of abnormality that contribute to subfertility in the male.

'... concise yet complete ... it is relatively unique in literature on the diagnosis of male fertility and has a place in all general laboratories performing semen analysis.'

TODAY'S LIFE SCIENCE

2000 112pp
978-0-521-79957-7 PB £35.00



Biology and Pathology of Trophoblast

Edited by Ashley Moffett

Charlie Loke

Both from University of Cambridge

and Anne McLaren

Cancer Research Cambridge

This is the first dedicated, in-depth account of trophoblast: the tissue derived from the fertilized egg that nourishes and protects the developing fetus. Disorders of trophoblast during development manifest themselves in several clinical conditions during pregnancy, including gestational trophoblastic disease and pre-eclampsia. From stem cells through to epigenetics, implantation and X-chromosome inactivation, this volume provides an up-to-date summary of the state of current knowledge and offers some glimpses as to future development on the scientific and clinical front.

- *Covers reproductive immunology, genetics and pathology*
- *Basic science and clinical aspects dealt with in depth*
- *Of interest and relevance to all who study the placenta*

2005 292pp 29 illustrations

978-0-521-85165-7

HB

£75.00

Now in paperback

Quality and Risk Management in the IVF Laboratory

David Mortimer and Sharon T. Mortimer

Both from Oozoa Biomedical Inc., Vancouver

This essential survival guide for successfully managing the modern-day IVF clinic condenses a wealth of expertise and experience from the authors in troubleshooting and implementing quality management in the IVF laboratory. With high-profile media coverage of mistakes at IVF clinics, and escalating regulatory scrutiny, there is increasing pressure for professional accreditation. Quality and risk management are thus becoming hot topics. The book's focus on taking a holistic approach to 'prophylactic management' – prevention rather than cure – will be welcomed by all scientists working in IVF.

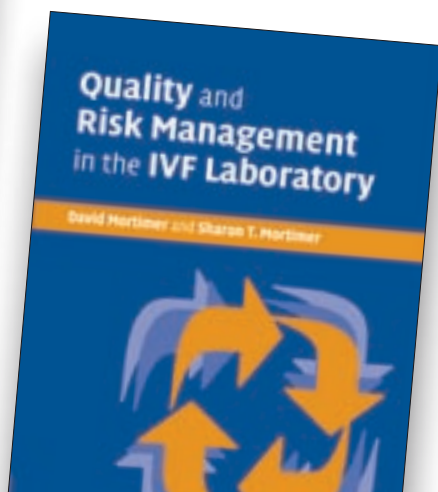
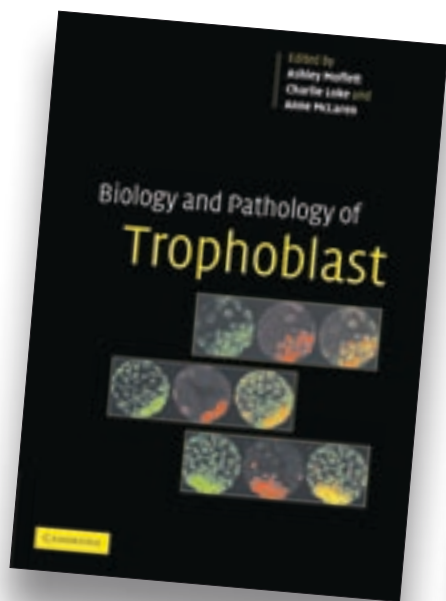
- *Clearly explains and summarises quality management and risk management systems for scientists working in IVF labs*
- *Illustrated with some of the practical problems encountered in the IVF lab, and their resolution, elimination and avoidance in future*

2004 238pp 55 illustrations

978-0-521-84349-2

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Testosterone

Action, Deficiency, Substitution

3rd edition

Edited by E. Nieschlag and H. M. Behre
Both from Westfälische Wilhelms-Universität Münster
Assisted by S. Nieschlag

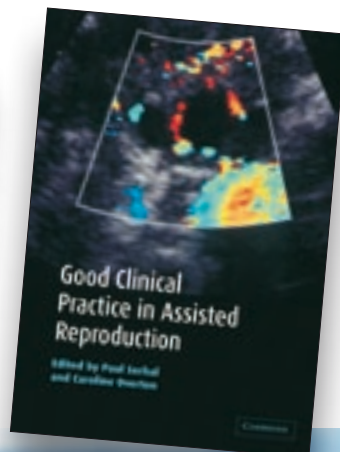
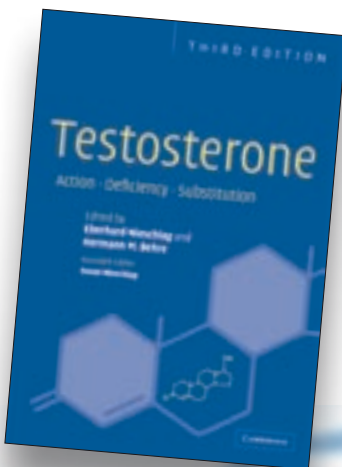
This volume offers a comprehensive reference on testosterone and other androgens, and their role in human physiology and pathology. It covers biosynthesis and mechanisms of action and reviews their effects on brain and behaviour, spermatogenesis, hair growth, bones, muscles, erythropoiesis, the cardiovascular system and lipids, erection, and the prostate. Therapeutic uses of testosterone preparations are carefully evaluated, including use in women, the aging male, and its abuse and detection in sport. The book also considers applications in male contraception, the role of 5 α -reductase inhibitors and the controversial use of DHEA.

'... I was deeply impressed by the brilliance of selection and organization of topics, their authors, technical format and clear and instructive literary styles, which all result from the excellent editorial work ... The book certainly should be considered an important contribution to contemporary knowledge about testosterone and about androgens in general.'

ENDOCRINE REGULATIONS

2004 762pp 144 illustrations
978-0-521-83380-6 HB

£95.00



Good Clinical Practice in Assisted Reproduction

Edited by Paul Serhal
The University College London Hospitals
and Caroline Overton
Bristol Royal Infirmary

A user-friendly, practical guide and an excellent introduction to good clinical practice in the investigation and treatment of infertility, using the very latest assisted reproductive technologies. There are chapters on clinical assessment of the male and the female, followed by detailed chapters on the clinical procedures that can be put in place to help overcome infertility. Also discussed are IVF, GIFT and ZIFT as well as clinical aspects of PGD, and how to set up a successful IVF unit.

- *Practical, clinical guide by experienced practitioners*
- *Covers the very latest assisted reproductive technologies and procedures*
- *Comprehensively illustrated and referenced*

2004 364pp 116 illustrations
978-0-521-00091-8 PB £56.00

Ovarian Hyperstimulation Syndrome

Epidemiology, Pathophysiology, Prevention and Management

Botros Rizk
University of South Alabama

Ovarian Hyperstimulation Syndrome (OHSS) can occur in women undergoing in vitro fertilization, after follicle stimulation hormone (FSH) injections to stimulate egg growth and maturation.

The author – a world class researcher and lecturer in the field – reviews classification, epidemiology, pathophysiology, complications and prediction, and prevention and treatment options for this pathology.

'... a good summary of the current evidence on ovarian hyperstimulation.'

THE OBSTETRICIAN AND GYNAECOLOGIST

2006 244pp
978-0-521-85798-7 HB £48.00

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Undertaking Sensitive Research in the Health and Social Sciences

New

Managing Boundaries, Emotions and Risks

Virginia Dickson-Swift, Erica Lyn James
and Pranee Liamputtong

All from La Trobe University, Victoria

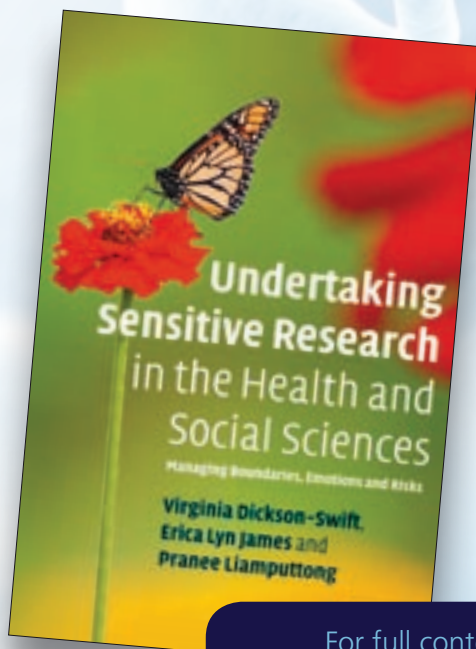
Based on empirical research conducted with public health researchers, this book documents experiences throughout the entire research process from conceptualization and ethics approval to field-work, analysis, and publication.

Key concepts are presented in accessible language and tutorial activities provide opportunities for readers to extend their knowledge and examine the practical applications of research.

2008 168pp
978-0-521-71823-3

PB

£27.99



The Sorting Society

New

The Ethics of Genetic Screening
and Therapy

Edited by Loane Skene

University of Melbourne

and Janna Thompson

La Trobe University, Victoria

The 'sorting society' expresses what many people believe will be the outcome of advances in genetic technology: a society in which many characteristics of children are no longer the result of genetic chance but of deliberate selection.

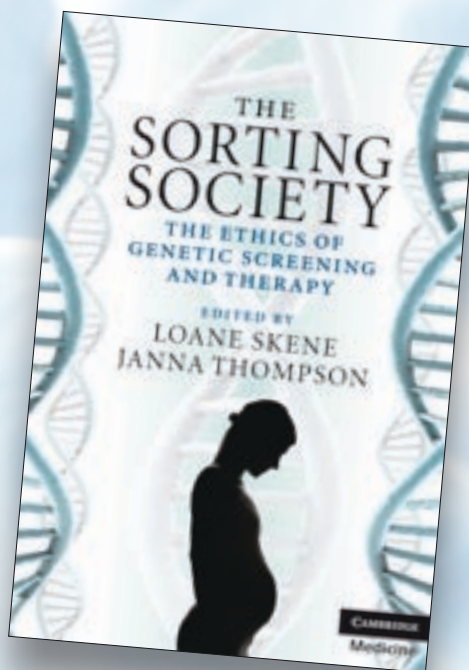
This book considers the ethical, legal and social issues raised by this technology, and its effect upon the world in which our children will live.

2008 234 x 156 mm 160pp

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