

# Fertility And Pregnancy An Epidemiologic Perspective

Handbook of Epidemiology Infertility, Medical and Social Choices WHO Recommendations on Antenatal Care for a Positive Pregnancy Experience Maternal Obesity and Pregnancy Encyclopedia of Epidemiology Cystic Fibrosis in the Light of New Research Introduction to Modern Epidemiology Genital Infections and Infertility The Impact of Maternal Nutrition on the Offspring A Practical Manual of Diabetes in Pregnancy Women and Health Perinatal Epidemiology for Public Health Practice Principles and Practice of Fertility Preservation Reproductive, Maternal, Newborn, and Child Health Reproductive and Perinatal Epidemiology Oxford Textbook of Endocrinology and Diabetes Assisted Reproductive Technology Surveillance The Guide to Investigation of Mouse Pregnancy Reproductive Health in Developing Countries Breast Cancer in Young Women Multiple Pregnancy Obesity Fertility and Pregnancy The Global HIV Epidemics among Sex Workers Fertility Challenges and Solutions in Women with Cancer Adverse Reproductive Outcomes in Families of Atomic Veterans Infertility in Practice The Safety and Quality of Abortion Care in the United States Birth Settings in America Handbook of Fertility Be Fruitful Drugs in Pregnancy and Lactation Advances in Assisted Reproductive Technologies Varicocele and Male Infertility Conception to Birth Handbook of Life Course Health Development Environmental Impacts on Reproductive Health and Fertility Maternal Obesity Reproductive and Developmental Toxicology Mayo Clinic Guide to Fertility and Conception

## Handbook of Epidemiology

The field of infertility research and practice is one of continuous innovation and change, but alongside the increasing sophistication of assisted reproductive techniques there is as strong a need as ever for clinical experience and expertise and common practical sense to inform diagnosis and clinical decision making. Now in its fourth edition, Inf

## Infertility, Medical and Social Choices

A helpful medical reference on conceiving and maintaining pregnancy from the Mayo Clinic, #1 on US News & World Report's 2020-2021 Best Hospitals Honor Roll. Deciding to start or build a family is a life-changing decision. Once the decision is made, there's a whole new set of unknowns—including whether the journey will be easy or difficult. How can you increase your chances of becoming pregnant? What health and lifestyle changes should you make to have a healthy pregnancy? And if you're struggling to become pregnant, what medical treatments are available? Where can you get emotional support if you can't get pregnant or if you've had a miscarriage? And when is enough? The fertility experts at Mayo Clinic offer answers to these questions and more. Through the pages of this book, they'll guide you through the process of trying for—and achieving—a successful pregnancy. You'll also hear throughout the book from couples and individuals who have struggled to have a family. For a variety of reasons—health conditions, unexplained infertility, or life circumstances—getting pregnant or deciding to have

a family was difficult for them. These personal stories are to let you know that you're not alone in your journey, and to give you hope that with time and patience, pregnancy is often possible. From lifestyle and dietary recommendations to understanding your ovulatory cycle to medications and procedures that can improve fertility, this book is a comprehensive source of answers from "one of the most reliable, respected health resources that Americans have" (Publishers Weekly).

### **WHO Recommendations on Antenatal Care for a Positive Pregnancy Experience**

The World Congress of In Vitro Fertilization and Alternate Assisted Reproduction, held in Jerusalem, Israel, 2-7 April, 1989, was the sixth in the sequence of these Congresses, but was the first to emphasize the major importance and the place of assisted reproductive technologies in the treatment of infertility. The eternal City of Jerusalem witnessed the gathering of more than 1500 participants from all over the world who shared and exchanged knowledge and up-to-date experience in this ever-evolving field. The high quality scientific contributions to the Congress culminated in the publication of this Proceedings. It embraces all-important aspects in the field of in vitro fertilization and alternate assisted reproduction. Papers on controversies and diversities of methods to stimulate the ovaries, imaging techniques, basic research and state-of-the-art papers on ovarian physiology, the role of GnRH and its analog, clinical aspects of IVF treatment and cryopreservation, up-to-date techniques in assisted reproductive technologies that are quickly developing in conjunction with IVF, were included. When should IVF be preferable to surgery? What are the expected up-to-date world results and what are the psychological, moral, ethical and religious implications? These are all the concerns of the treating team and are addressed here. Male factor infertility remains a frustrating problem, but advances in the understanding of sperm-egg interaction, sperm evaluation and preparation are reported. Micromanipulation emerges as a possible alternative to bring some relief to this problem, but it also promises to be central in promoting the field of prenatal genetic analysis.

### **Maternal Obesity and Pregnancy**

Afflicting more than 300 million women across the globe, obesity has profound effects on health during pregnancy and on the wellbeing of the unborn child. In the face of such a challenging pandemic, this book reviews the latest research and provides up-to-date advice on clinical management. Maternal Obesity addresses the adverse effects of obesity among women of childbearing age, including infertility, medical complications, problems in labor, and adverse birth outcomes, and it reviews evidence that the obese mother's in utero environment has long-lasting influences on the health of the developing child. Chapters cover basic, clinical, and population perspectives, providing a range of valuable information from mechanistic insight through to public health and policy implications. Invaluable for obstetricians, gynaecologists, paediatricians, general and family physicians, subspecialists in obstetric and paediatric medicine, midwives, and dietitians, as well as researchers and public health policy makers seeking to tackle the burden of maternal obesity-related illness.

## **Encyclopedia of Epidemiology**

Edited and authored by international experts, *A Practical Manual of Diabetes in Pregnancy* presents multi-disciplinary evidence-based guidance relevant for all those caring for women with pre-existing or gestational diabetes. Divided into five sections, the book covers everything from preconception to postnatal care, as well as detailing the risks associated with diabetic pregnancy and the long term implications for the mother and baby: Epidemiology and pathophysiology Impaired glucose tolerance and gestational diabetes Prepregnancy and pregnancy care Complications in pregnancy Delivery and post delivery care This practical resource contains treatment recommendations based on the latest research to ensure pregnant women with diabetes receive the best possible care.

## **Cystic Fibrosis in the Light of New Research**

Abortion is a legal medical procedure that has been provided to millions of American women. Since the Institute of Medicine first reviewed the health implications of national legalized abortion in 1975, there has been a plethora of related scientific research, including well-designed randomized clinical trials, systematic reviews, and epidemiological studies examining abortion care. This research has focused on examining the relative safety of abortion methods and the appropriateness of methods for different clinical circumstances. With this growing body of research, earlier abortion methods have been refined, discontinued, and new approaches have been developed. *The Safety and Quality of Abortion Care in the United States* offers a comprehensive review of the current state of the science related to the provision of safe, high-quality abortion services in the United States. This report considers 8 research questions and presents conclusions, including gaps in research.

## **Introduction to Modern Epidemiology**

This book highlights the impact of genital tract infections on female infertility, male infertility, and even veterinary infertility. A comprehensive source on genital infections essential for all infertility specialists is now at your hands.

## **Genital Infections and Infertility**

From an internationally recognized integrative physician, a thorough guide to fertility that encompasses all aspects of female well-being to help women prepare their bodies for easy conception, pregnancy, and the delivery of healthy babies. The increase in environmental toxins, processed foods, and stress, as well as the advancing ages at which couples seek to have children, have made it more difficult for women to conceive. In *Be Fruitful*, Dr. Victoria Maizes, an expert on women's health and the executive director of the Arizona Center for Integrative Medicine, delivers all the information women and their partners need in order to conceive with ease and confidence, and to bear healthy children. Warm, friendly, and hands-on, *Be Fruitful* offers a comprehensive self-assessment to help identify any potential physical, emotional, and practical roadblocks that may interfere with conception, as well as clear and easy-to-follow dietary, supplemental, and exercise

recommendations proven to increase optimal fertility. Dr. Maizes details how nutrition, mind-body practices, elimination of environmental toxins, and traditional Chinese medicine can all contribute to a successful pregnancy. Unique in its integrative approach, *Be Fruitful* acknowledges that wellness comes from caring for the entire person—not just the physical body—a crucial factor for the countless women trying to conceive and committed to transforming their overall health.

### **The Impact of Maternal Nutrition on the Offspring**

*Handbook of Fertility: Nutrition, Diet, Lifestyle and Reproductive Health* focuses on the ways in which food, dietary supplements, and toxic agents, including alcohol and nicotine affect the reproductive health of both women and men. Researchers in nutrition, diet, epidemiology, and endocrinology will find this comprehensive resource invaluable in their long-term goal of understanding and improving reproductive health. This book brings together a broad range of experts researching the different aspects of foods and dietary supplements that promote or detract from reproductive health. Section One contains several overview chapters on fertility, how it is assessed, and how it can be affected by different metabolic states, nutritional habits, dietary supplements, the action of antioxidants, and lifestyle choices. Sections Two and Three consider how male and female fertility are affected by obesity, metabolic syndrome, hormonal imbalance, and even bariatric surgery. Section Four explores the ways diet, nutrition, and lifestyle support or retard the success of in vitro fertilization, while Section Five explores how alcohol and other drugs of abuse lower fertility in both women and men. Explores how alcohol, nicotine, and other drugs of abuse disrupt and impair reproductive health Reviews studies of common conditions such as obesity and metabolic syndrome and their effect on fertility and reproductive health Investigates the components of foods and dietary supplements, in particular oxidative stress and antioxidants Presents the nutritional effects of foods and dietary supplements and their benefits and risks relating to reproductive health

### **A Practical Manual of Diabetes in Pregnancy**

This unique textbook – the first of its kind – presents a thoughtful and comprehensive discussion of the significance of varicocele and its impact on male fertility. This hot topic is covered from a multitude of angles in seven thematic sections: origin and pathophysiology, clinical evaluation, medical and surgical therapy, controversies, pro and con debates, and clinical case scenarios. The scope of varicocele includes basic and transitional research, genetics, diagnostic testing with conventional and advanced molecular biology approaches, hormonal control, interventional therapy and assisted reproductive technology (ART). Repair of varicocele, which can be carried out by various methods, not only alleviates oxidative stress-associated infertility but also prevents and protects against the progressive character of varicocele and its consequent upregulations of systemic oxidative stress. Even with the advances in the understanding of this intriguing disease and consensus on some areas such as diagnosis and pathophysiology, substantial controversy still exists, in particular concerning the benefits of treatment and to whom treatment should be offered. Additional chapters discuss, in depth, such controversies surrounding the role of varicocele in male infertility and present clinical case scenarios dealing with management of subclinical and

clinical varicocele. A series of editorial comments is provided by the editors at the end of selected chapters, containing an objective and concise summary of the information from each chapter. In addition, chapters open up with key points for quick references and conclude with multiple choice questions and answers for immediate review and retention of the rich content. Generously illustrated, *Varicocele and Male Infertility: A Complete Guide* represents an invaluable tool for medical students in reproductive medicine as well as researchers and clinicians working in the field of infertility (e.g., urologists, gynecologists, reproductive endocrinologists, and embryologists) and is comprised of chapters written by leading and internationally recognized clinicians and scientists with expertise in varicocele, skillfully edited by leaders in the field.

### **Women and Health**

This contributed book covers all aspects concerning the clinical scenario of breast cancer in young women, providing physicians with the latest information on the topic. Young women are a special subset of patients whose care requires dedicated expertise. The book, written and edited by internationally recognized experts who have been directly involved in the international consensus guidelines for breast cancer in young women, pays particular attention to how the disease and its planned treatment can be effectively communicated to young patients. Highly informative and carefully structured, it provides both theoretical and practice-oriented insight for practitioners and professionals involved in the different phases of treatment, from diagnosis to intervention, to follow-up – without neglecting the important role played by prevention.

### **Perinatal Epidemiology for Public Health Practice**

Within the continuum of reproductive health care, antenatal care provides a platform for important health-care functions, including health promotion, screening and diagnosis, and disease prevention. It has been established that, by implementing timely and appropriate evidence-based practices, antenatal care can save lives. Endorsed by the United Nations Secretary-General, this is a comprehensive WHO guideline on routine antenatal care for pregnant women and adolescent girls. It aims to complement existing WHO guidelines on the management of specific pregnancy-related complications. The guidance captures the complex nature of the antenatal care issues surrounding healthcare practices and delivery, and prioritizes person-centered health and well-being --- not only the prevention of death and morbidity --- in accordance with a human rights-based approach.

### **Principles and Practice of Fertility Preservation**

Bringing together experts from a variety of specialties to examine the issues and challenges of obesity, this book discusses how obesity affects fertility, reproduction and pregnancy.

### **Reproductive, Maternal, Newborn, and Child Health**

Perinatal Epidemiology synthesizes perinatal knowledge through the lens of public health practice. This comprehensive text uses a consistent, logical format to offer readers: (1) A spectrum of topics affecting maternal and infant health: reproductive health concerns, maternal and infant morbidity and mortality, and gestation and fetal growth. (2) Information on timely issues, including infertility, gestational diabetes, preterm delivery, postpartum depression, and SIDS. (3) Detailed discussions of current epidemiological trends, measures and measurement issues, data sources, and risk and protective factors for each condition covered. (4) In-depth consideration of public health interventions and their availability, strengths and limitations. (5) Emerging areas of interest and directions for research. (6) Text boxes, definitions of key terms, discussion questions, appendices, and other helpful features. Perinatal Epidemiology is a valuable, ready resource for public health professionals in maternal and child care, reproduction and fertility. Its accessibility and easy-use format make it an equally strong textbook for courses in these fields as well as for advanced medical and nursing students in OB/GYN and pediatrics.

### **Reproductive and Perinatal Epidemiology**

Sexually transmitted diseases, unintended pregnancies, infertility, and other reproductive problems are a growing concern around the world, especially in developing countries. Reproductive Health in Developing Countries describes the magnitude of these problems and what is known about the effectiveness of interventions in the following areas: Infection-free sex. Immediate priorities for combating sexually transmitted and reproductive tract diseases are identified. Intended pregnancies and births. The panel reports on the state of family planning and ways to provide services. Healthy pregnancy and delivery. The book explores the myths and substantive socio-economic problems that underlie maternal deaths. Healthy sexuality. Such issues as sexual violence and the practice of female genital mutilation are discussed in terms of the cultural contexts in which they occur. Addressing the design and delivery of reproductive health services, this volume presents lessons learned from past programs and offers principles for deciding how to spend limited available funds. Reproductive Health in Developing Countries will be of special interest to policymakers, health care professionals, and researchers working on reproductive issues in the developing world.

### **Oxford Textbook of Endocrinology and Diabetes**

Multiple Pregnancy - New Challenges is a comprehensive book, written in an organized and concise format. The book offers an immersion into multiple pregnancy. Each chapter presents the reader with various important issues related to the subject matter. The book covers all spectrums of multiple pregnancy such as epidemiology, etiology, diagnosis, prenatal care, unique complications in monochorionic pregnancies, preterm birth and mode of delivery. Through its 10 chapters the book contemplates the most relevant aspects of multiple pregnancy. Authors from all over the world have contributed to this book, bringing the best from their research experiences. The book give the reader a state-of-the-art update of multiple pregnancy.

## **Assisted Reproductive Technology Surveillance**

Offers a comprehensive guide to assisted reproductive technology surveillance, describing its history, global variations, and best practices.

## **The Guide to Investigation of Mouse Pregnancy**

Population growth and global health disparities for many reproductive and perinatal outcomes are but a few of the pressing issues facing public health today. Despite growing interest in the field, formal training in reproductive and perinatal epidemiology remains limited, with few available textbooks aimed at providing an overview of the field. In response to this need, faculty from the Eunice Kennedy Shriver National Institute of Child Health & Human Development (NICHD) and CIHR's Institute of Human Development, Child and Youth Health (IHDCYH) developed an intensive, competitive, Summer Institute in Reproductive and Perinatal Epidemiology. The curriculum of this Summer Institute has been developed into a textbook to provide students and researchers with a working knowledge of the substantive and methodologic issues underlying reproductive and perinatal epidemiology. Reproductive and Perinatal Epidemiology offers a core curriculum that addresses the epidemiology of major reproductive and perinatal outcomes. From human fecundity to birth and neonatal outcomes, the subject is approached from as international a perspective as possible, and the unique methodologic issues underlying each outcome are discussed. Developed by leading researchers in collaboration with their students in response to their needs and concerns, this is the definitive textbook on the subject.

## **Reproductive Health in Developing Countries**

Many reproductive and developmental health problems are caused by exposure to chemicals that are widely dispersed in our environment. These problems include infertility, miscarriage, poor pregnancy outcomes, abnormal fetal development, early puberty, endometriosis, and diseases and cancers of reproductive organs. The compelling nature of the collective science has resulted in recognition of a new field of environmental reproductive health. Focusing on exposures to environmental contaminants, particularly during critical periods in development and their potential effects on all aspects of future reproductive life-course, this book provides the first comprehensive source of information bringing together the arguments that are spread out among various scientific disciplines in environmental health, clinical and public health fields. It provides a review of the science in key areas of the relationship between environmental contaminants and reproductive health outcomes, and recommendations on efforts toward prevention in clinical care and public policy.

## **Breast Cancer in Young Women**

The Guide to Investigation of Mouse Pregnancy is the first publication to cover the mouse placenta or the angiogenic tree the mother develops to support the placenta. This much-needed resource covers monitoring of the cardiovascular system, gestational programming of chronic adult disease, epigenetic regulation,

gene imprinting, and stem cells. Offering detailed and integrated information on how drugs, biologics, stress, and manipulations impact pregnancy in the mouse model, this reference highlights techniques used to analyze mouse pregnancy. Joining the ranks of much referenced mouse resources, *The Guide to Investigation of Mouse Pregnancy* is the only manual providing needed content on pregnancy in animal models for translational medicine and research. Provides instruction on how to collect pre-clinical data on pregnancy in mouse models for eventual use in human applications Describes the angiogenic tree the mother's uterus develops to support pregnancy and the monitoring of pregnancy-induced cardiovascular changes Educates readers on placental cell lineages, decidual development including immune cells, epigenetic regulation, gene imprinting, stem cells, birth and lactation Discusses how stress, environmental toxicants and other manipulations impact upon placental function and pregnancy success

### **Multiple Pregnancy**

This 5-volume reference covers the entire field of epidemiology, from statistical methods and study design, to specialized areas such as molecular epidemiology, and applications in clinical medicine and health services research. This updated edition of the *Handbook of Epidemiology* adds 20 new chapters on: History of Epidemiological Methods and Concepts, Cluster Randomized Trials, Internet-Based Epidemiology, Misclassification, Sensitivity Analysis and Bias Analysis, Emergency and Disaster Health Surveillance, Statistical Inference, Data Management in Epidemiology, Bayesian Methods in Epidemiology, Generalized Estimating Equations, Directed Acyclic Graphs, Life Course Epidemiology, Physical Activity Epidemiology, Radiation Epidemiology, Epidemiology of Obesity, Epidemiology of Respiratory Allergies and Asthma, Epidemiology of Dental Diseases, Epidemiology of Digestive Diseases, Epidemiology of Psychiatric Disorders, Epidemiology of Diabetes. All other chapters are extensively revised from the 1st edition. This is a reference for epidemiological researchers and graduate students in public health.

### **Obesity**

*Fertility and Pregnancy: An Epidemiologic Perspective*, is a lively overview of human reproduction: how it works, and what causes it to go wrong. Weaving together history, biology, obstetrics, pediatrics, demography, infectious diseases, molecular genetics, and evolutionary biology, Allen Wilcox brings a fresh coherence to the epidemiologic study of reproduction and pregnancy. Along the way, he provides entertaining anecdotes, superb graphs, odd tidbits and occasional humor that bring the topic to life. The book is divided into two sections. The first lays the foundations - the basic principles of reproductive physiology, demography, infectious diseases, and genetics as they apply to human reproduction. The second part deals with the endpoints of reproductive epidemiology - a spectrum ranging from infertility and fetal loss to birth defects and the delayed effects of fetal exposures. The book closes with a discussion of unsolved problems, suggesting possible research projects for a new generation of epidemiologists. An extensive glossary makes this a valuable reference as well as an enjoyable read.

## **Fertility and Pregnancy**

Reproductive, maternal, newborn, and child health : an overview / Robert Black, Marleen Temmerman, and Neff Walker -- The burden of reproductive ill health / Alex Ezech, Abdhahah K. Ziraba, John Cleland, Akinrinota Bankole, and Claudia Garcia Moreno Esteva -- Levels and causes of maternal mortality and morbidity / Veronique Filippi, Doris Chou, Carine Ronsmans, Wendy Graham, and Lale Say -- Levels and causes of mortality under age five years / Li Liu, Kenneth Hill, Shefali Oza, Dan Hogan, Simon Cousens, Colin Mathers, Cynthia Stanton, Joy Lawn, Robert E. Black -- Levels and trends in low height-for-age / Gretchen Stevens, Mariel Finucane, and Christopher Paciorek -- Interventions to improve reproductive health / John Stover, Karen Hardee, Bella Ganatra, Claudia García Moreno, and Susan E. Horton -- Interventions to reduce maternal and newborn morbidity and mortality / A. Metin Gülmezoglu, Theresa A. Lawrie, Natasha Hezelgrave, Olufemi T. Oladapo, João Paulo Souza, Marijke Gielen, Joy E. Lawn, Rajiv Bahl, Fernando Althabe, Daniela Colaci, and G. Justus Hofmey -- Diagnosis and treatment of the febrile child / Julie M. Herlihy, Valérie D'Acremont, Deborah C. Hay Burgess, and Davidson H. Hamer -- Diarrheal diseases / Gerald T. Keusch, Christa Fischer-Walker, Jai K. Das, Susan Horton, and Demissie Habte -- Vaccines for children in low- and middle-income countries / Daniel R. Feikin, Brendan Flannery, Mary J. Hamel, Meghan Stack, Peter Hansen -- Management of severe and moderate acute malnutrition in children / Lindsey Lenters, Kerri Wazny, and Zulfiqar A. Bhutta -- Infant and young child growth / Jai K. Das, Rehana A. Salam, Aamer Imdad, and Zulfiqar A. Bhutta -- Very early childhood development / Frances E. Aboud and Aisha K. Yousafzai -- Community based care to improve maternal, newborn and child health / Zohra S. Lassi, Rohail Kumar, and Zulfiqar A. Bhutta -- Innovations to expand access and improve quality of health services / Lori A. Bollinger and Margaret E. Kruk -- Returns on investment in the continuum of care for reproductive, maternal, newborn, and child health / Karin Stenberg, Kim Sweeny, Henrik Axelson, and Peter Sheehan -- Cost-effectiveness of interventions for reproductive, maternal, neonatal, and child health / Susan Horton and Carol Levin -- The benefits of a universal home-based neonatal care package in rural india : an extended cost-effectiveness analysis / Ashvin Ashok, Arindam Nandi, and Ramanan Laxminarayan -- Health gains and financial risk protection afforded by treatment and prevention of diarrhea and pneumonia in ethiopia : an extended cost-effectiveness analysis / Stéphane Verguet, Clint Pecenka, Kjell Arne Johansson, Solomon Tessea Memirie, Ingrid K. Friberg, Julia R. Driessen, and Dean T. Jamison

## **The Global HIV Epidemics among Sex Workers**

Cystic Fibrosis in the Light of New Research provides the latest research and clinical evidence that will be useful for clinicians, scientists and researchers to further their knowledge around this fascinating condition. The authors have brought along their expertise and wealth of knowledge to produce this book, including the basic science that underlies the disease, the burden of bacterial and viral infections, immunologic aspects of CF, a variety of clinical measurements to predict prognosis and novel therapies including gene therapy. This book will be invaluable and entertaining for anyone who is involved in the care of patients with cystic fibrosis.

## **Fertility Challenges and Solutions in Women with Cancer**

### **Adverse Reproductive Outcomes in Families of Atomic Veterans**

Reproductive toxicology is a complex subject dealing with three components—parent, placenta, and fetus—and the continuous changes that occur in each. *Reproductive and Developmental Toxicology* is a comprehensive and authoritative resource providing the latest literature enriched with relevant references describing every aspect of this area of science. It addresses a broad range of topics including nanoparticles and radiation, gases and solvents, smoking, alcohol and drugs of abuse, food additives, nutraceuticals and pharmaceuticals, and metals, among others. With a special focus on placental toxicity, this book is the only available reference to connect the three key risk stages, and is the only resource to include reproductive and developmental toxicity in domestic animals, fish, and wildlife. Provides a complete, integrated source of information on the key risk stages during reproduction and development Includes coverage of emerging science such as stem cell application, toxicoproteomics, metabolomics, phthalates, infertility, teratogenicity, endocrine disruption, surveillance and regulatory considerations, and risk assessment Offers diverse and unique in vitro and in vivo toxicity models for reproductive and developmental toxicity testing in a user-friendly format that assists in comparative analysis

### **Infertility in Practice**

The specialty of fertility preservation offers patients with cancer, who are rendered infertile by chemo- and radiotherapy, the opportunity to realize their reproductive potential. This gold-standard publication defines the specialty. The full range of techniques and scientific concepts is covered in detail, and the author team includes many of the world's leading experts in the field. The book opens with introductions to fertility preservation in both cancer and non-cancer patients, followed by cancer biology, epidemiology and treatment, and reproductive biology and cryobiology. Subsequent sections cover fertility preservation strategies in males and females, including medical/surgical procedures, ART, cryopreservation and transplantation of both ovarian tissue and the whole ovary, and in-vitro follicle growth and maturation. Concluding chapters address future technologies, as well as ethical, legal and religious issues. Richly illustrated throughout, this is a key resource for all clinicians specializing in reproductive medicine, gynecology, oncology, hematology, endocrinology and infertility.

### **The Safety and Quality of Abortion Care in the United States**

*Women and Health* is a comprehensive reference that addresses health issues affecting women of all ages — from adolescence through maturity. It goes far beyond other books on this topic, which concentrate only on reproductive health, and has a truly international perspective. It covers key issues ranging from osteoporosis to breast cancer and other cancers, domestic violence, sexually transmitted diseases, occupational hazards, eating disorders, heart disease and

other chronic illnesses, substance abuse, and societal and behavioral influences on health. In this second edition of *Women and Health*, chapters thoughtfully explore the current state of women's health and health care, including the influences of sex and gender on the occurrence of a wide variety of diseases and conditions. All chapters have been extensively updated and emphasize the epidemiology of the condition — the etiology, occurrence, primary and secondary prevention (screening), risk factors, surveillance, changing trends over time, and critical analysis of the diagnostic and treatment options and controversies. Treatment sections in each chapter have been expanded to create a stronger dialogue between epidemiologists and women's health practitioners. Saves researchers and clinicians time in quickly accessing the very latest details on a broad range of women's health issues, as opposed to searching through thousands of journal articles Provides a common language for epidemiologists, public health practitioners, and women's health specialists to discuss the behavioral, cultural, and biological determinants of women's health Researchers and medical specialists will learn how the gender-specific risks and features of one organ system's diseases affect the health of other organ systems For example: Hormone replacement therapy used to treat imbalance within the endocrine system is also being used to prevent and treat cardiovascular disease; Drugs developed for type 2 diabetes are now being used in chemoprevention Orients the non-gerontologist about the importance of considering the entire life cycle of women within research designs and treatment plans Professors teaching courses in women's health will use slides and additional materials to structure lectures/courses; students will use slides as a unique resource to study for exams

### **Birth Settings in America**

This book, written by global experts in the field, provides a thorough overview on fertility and pregnancy challenges and solutions in women who are being or have been treated for cancer. The book addresses several topics, including pregnancy outcomes after a cancer diagnosis, the impacts of systemic anticancer therapy on fertility, the essentials of fertility preservation approaches in cancer patients, and fertility counseling. This is in addition to controversial topics like the role of ovarian stimulation in breast cancer patients, fertility preservation in cancer patients with BRCA mutation and the evolving role of GnRH analogues. Within this context, key open questions are discussed with reference to the latest evidence. The aim is to provide clinicians with a reliable resource that documents the most up-to-date knowledge on the feasibility and safety of the different approaches to fertility preservation and on the management of female cancer patients who would like to preserve fertility and achieve a pregnancy following their treatment.

### **Handbook of Fertility**

A global economic analysis of HIV infection amongst sex workers, finding that evidence based and rights affirming interventions are not implemented to the level that their efficacy warrants, and that doing so at scale would be cost effective and deliver significant returns on investment.

### **Be Fruitful**

This book is open access under a CC BY 4.0 license. This handbook synthesizes and analyzes the growing knowledge base on life course health development (LCHD) from the prenatal period through emerging adulthood, with implications for clinical practice and public health. It presents LCHD as an innovative field with a sound theoretical framework for understanding wellness and disease from a lifespan perspective, replacing previous medical, biopsychosocial, and early genomic models of health. Interdisciplinary chapters discuss major health concerns (diabetes, obesity), important less-studied conditions (hearing, kidney health), and large-scale issues (nutrition, adversity) from a lifespan viewpoint. In addition, chapters address methodological approaches and challenges by analyzing existing measures, studies, and surveys. The book concludes with the editors' research agenda that proposes priorities for future LCHD research and its application to health care practice and health policy. Topics featured in the Handbook include: The prenatal period and its effect on child obesity and metabolic outcomes. Pregnancy complications and their effect on women's cardiovascular health. A multi-level approach for obesity prevention in children. Application of the LCHD framework to autism spectrum disorder. Socioeconomic disadvantage and its influence on health development across the lifespan. The importance of nutrition to optimal health development across the lifespan. The Handbook of Life Course Health Development is a must-have resource for researchers, clinicians/professionals, and graduate students in developmental psychology/science; maternal and child health; social work; health economics; educational policy and politics; and medical law as well as many interrelated subdisciplines in psychology, medicine, public health, mental health, education, social welfare, economics, sociology, and law.

### **Drugs in Pregnancy and Lactation**

The delivery of high quality and equitable care for both mothers and newborns is complex and requires efforts across many sectors. The United States spends more on childbirth than any other country in the world, yet outcomes are worse than other high-resource countries, and even worse for Black and Native American women. There are a variety of factors that influence childbirth, including social determinants such as income, educational levels, access to care, financing, transportation, structural racism and geographic variability in birth settings. It is important to reevaluate the United States' approach to maternal and newborn care through the lens of these factors across multiple disciplines. Birth Settings in America: Outcomes, Quality, Access, and Choice reviews and evaluates maternal and newborn care in the United States, the epidemiology of social and clinical risks in pregnancy and childbirth, birth settings research, and access to and choice of birth settings.

### **Advances in Assisted Reproductive Technologies**

This book provides the first systematic and in-depth epidemiological treatment of prenatal development, from fertilization to birth. It lays the groundwork for causal thinking about prenatal development by discussing criteria for evaluating observed associations between teratogens and developmental outcomes. The authors map development epidemiologically, dealing with the probabilities of conception and early loss, the relation between miscarriage and chromosome abnormalities, and

the questions of recurrence and environmental influences on pregnancy loss. The discussion of fetal growth distinguishes between preterm delivery, retarded growth, and immaturity. Indices for measuring growth are analyzed. The predominant maternal and environmental influences on prenatal growth and birth weight are reconciled with the genetic contribution to postnatal growth. Finally, the book examines the major issues of maternal age and parity, and addresses the public health challenge of monitoring and surveillance. As a unique synthesis of epidemiological knowledge, this volume perfectly complements the more well-known work being done in prenatal development in the fields of biology, physiology, and genetics.

### **Varicocele and Male Infertility**

A dramatic and worldwide increase is occurring in the prevalence of overweight and obesity in women of childbearing age. Obese women carry a significant excess risk of a variety of serious complications during pregnancy, and in addition, maternal obesity predisposes to obesity in the offspring. This book provides a timely update on the latest knowledge on maternal obesity and pregnancy. A very wide range of issues are covered, including macrosomia and associated shoulder dystocia; the risk of miscarriage, malformations, and complications of pregnancy; the impact of hyperglycemia; clinical management; consequences for anesthesia and ultrasound; impacts on breastfeeding, fertility, and childhood obesity; and pregnancy following gastric surgery. All of the authors are recognized experts in their fields, and the book has been designed to meet the practical needs of obstetricians, gynecologists, internists, and general practitioners.

### **Conception to Birth**

Policy issues, and option for congressional action -- Introduction -- Demographic of infertility -- factors contributing to infertility -- Prevention of Infertility -- Diagnosis of Infertility -- Treatment of Infertility -- Infertility services and cost -- Quality assurance for research and clinical care -- Reproductive health of veterans -- Ethical considerations -- Constitutional considerations -- Legal considerations: artificial insemination, in vitro fertilization embryo transfer, and gamete intrafallopian transfer -- Legal consideration: surrogate motherhood -- Frontiers of reproductive technology

### **Handbook of Life Course Health Development**

An A-Z listing of drugs by generic name. Each monograph summarizes the known and/or possible effects of the drug on the fetus. It also summarizes the known/possible passage of the drug into the human breast milk. A careful and exhaustive summarization of the world literature as it relates to drugs in pregnancy and lactation. Each monograph contains six parts: generic US name, Pharmacologic class, Risk factor, Fetal risk summary, Breast feeding summary, References

### **Environmental Impacts on Reproductive Health and Fertility**

This comprehensive textbook covers adult endocrinology, diabetes mellitus and paediatric endocrinology. It is specifically designed for the endocrinologist and diabetologist in training as well as for general physicians/specialists in other fields.

### **Maternal Obesity**

The Encyclopedia of Epidemiology presents state-of-the-art information from the field of epidemiology in a less technical and accessible style and format. With more than 600 entries, no single reference provides as comprehensive a resource in as focused and appropriate manner. The entries cover every major facet of epidemiology, from risk ratios to case-control studies to mediating and moderating variables, and much more. Relevant topics from related fields such as biostatistics and health economics are also included.

### **Reproductive and Developmental Toxicology**

Maternal nutritional status affects the offsprings health development significantly during early embryogenesis, pregnancy, birth and lactation, and subsequently determines health during growth and even throughout adulthood. On the other end of the human lifetime scale, the importance of maternal nutrition expands into the time period before conception: Pre-conception nutritional status not only influences fertility, but also embryogenesis and life-long health. Predisposition for coronary heart diseases, Type-2 diabetes mellitus, and hypertension can be caused by intrauterine adaptations to fetal malnutrition. Hence, optimizing nutrition for women during their reproductive period can be expected to have a great impact on the well being of the next generation. This workshop dealt with the effects of maternal nutrition on fetal growth, metabolic programming, energy and nutrient requirements, as well as under- and over-nutrition during pregnancy. Finally, it addressed the question of whether a distinct diet during pregnancy could reduce food allergy in the progeny. This book is a valuable and complete source of knowledge for all professionals involved in pediatrics, nutrition policy, womens health, immunology, epidemiology and public health.

### **Mayo Clinic Guide to Fertility and Conception**

Over the past several decades, public concern over exposure to ionizing radiation has increased. This concern has manifested itself in different ways depending on the perception of risk to different individuals and different groups and the circumstances of their exposure. One such group are those U.S. servicemen (the "Atomic Veterans" who participated in the atmospheric testing of nuclear weapons at the Nevada Test Site or in the Pacific Proving Grounds, who served with occupation forces in or near Hiroshima and Nagasaki, or who were prisoners of war in or near those cities at the time of, or shortly after, the atomic bombings. This book addresses the feasibility of conducting an epidemiologic study to determine if there is an increased risk of adverse reproductive outcomes in the spouses, children, and grandchildren of the Atomic Veterans.

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