

1. Record Nr.	UNINA9910488707503321
Titolo	Clinical management of infertility : problems and solutions / / Joseph G. Schenker [and four others], editors
Pubbl/distr/stampa	Cham, Switzerland : , : Springer, , [2021] ©2021
ISBN	3-030-71838-7
Descrizione fisica	1 online resource (333 pages)
Collana	Reproductive Medicine for Clinicians ; ; Volume 2
Disciplina	616.692
Soggetti	Infertility - Diagnosis Infertility - Treatment Esterilitat femenina Terapèutica Diagnòstic Llibres electrònics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Intro -- Foreword -- Preface -- Contents -- Part I: Ethical Issues in Human Reproduction -- Human Reproduction: Religious Perspectives -- Introduction -- The Jewish Law: Halakha -- Jews Law and Infertility -- Christianity -- Roman Catholic Church -- Eastern Orthodox Church -- The Protestant Church -- Anglican Church -- Islam -- Reproduction in Islam -- Embryo Research -- Hinduism -- Buddhism -- References -- Ethics in Clinical and Imaging Practice in Reproductive Medicine -- Introduction -- Need for Timely Referral -- Ethical Issues in Ultrasound Imaging Practice -- Uterine and Cervical Assessment -- Fallopian Tube -- Ovaries and Cul-de-Sac -- Ethical Issues in Clinical Practice -- Oocyte and Embryo Donation and Surrogacy -- Preimplantation Genetic Analysis (PGA) -- Conclusions -- References -- Reproduction at Advanced Parental Age -- Reproduction at Advanced Parental Age -- Reproduction at Advanced Maternal Age -- Pregestational Considerations -- Gestational and Obstetrical Considerations -- Maternal Mortality -- The Neonate -- Donor Egg-Based Fertility Treatments -- Advanced Paternal Age -- Definition and Incidence

of APA -- Fertility and Sperm Parameters at APA -- The Genetic Risks of Advanced Paternal Age -- De Novo Autosomal Dominant Mutations -- Chromosomal Abnormalities -- Other Genetic Risks -- Congenital Anomalies -- Childhood Cancers -- Neurodevelopmental Outcomes -- Schizophrenia -- Autism Spectrum Disorders (ASDs) -- Other Psychiatric Disorders and Neurodevelopmental Outcomes -- Obstetrical Complications Associated with APA -- Ethical Considerations -- The Issue of Choice -- The Welfare of the Child -- The Law and Religion -- Summary and Conclusions -- References -- Cross-Border Reproductive Care: Current State of the Art -- Introduction -- Global Perspective on Cross-Border Reproductive Care -- In Vitro Fertilization. Oocyte Donation -- Embryo Donation -- Sperm Donation -- Preimplantation Genetic Testing -- Surrogacy -- Surrogacy Around the World -- Traditional vs. Gestational Surrogacy -- Multiple Embryo Transfers and Abortions -- Summary -- References -- Uterine Transplantation -- Introduction -- Human Uterine Transplantation -- Experience of the Swedish Team -- Technical Modifications -- Discussion -- References -- Part II: Clinical Challenges: Patients and Therapies -- Pediatric and Adolescent Gynecology Physiology and Pathology -- Introduction -- Anatomy and Physiology -- Pathologic Conditions in Pediatric and Adolescent Gynecology -- Prepubertal Child -- Vulvovaginitis -- Labial Adhesion -- Lichen Sclerosus -- Ovarian Torsion -- Abnormalities of Puberty -- Precocious Puberty -- Delayed Puberty -- Congenital Anomalies of Female Genital Tract -- Gonadal Dysgenesis -- Menstrual Disorders -- Heavy Menstrual Bleeding (HMB) of Puberty -- Polycystic Ovary Syndrome (PCOS) in Adolescents -- Dysmenorrhea and Endometriosis -- References -- Biological Clock in Human Reproduction -- Biological Clock and the Physiology of the Ovulatory Cycle -- Molecular Basis of the Clock Genes -- Pineal and Extrapineal Melatonin Activity -- Biological Clock and Aging of Female Reproductive System -- Biological Clock and Aging of the Male Reproductive System -- Conclusions -- References -- Ovulation Induction by Pulsatile Administration of GnRH: State of the Art -- Physiology of Pulsatile GnRH Administration -- Administration of Pulsatile GnRH in the Human -- Intravenous Administration -- Subcutaneous Administration -- Pulsatile GnRH Administration in Hyperprolactinemia -- Pulsatile GnRH Administration in Hyperandrogenic Ovarian Insufficiency -- Alternatives to GnRH Acting at the Hypothalamic Level -- Naltrexone -- Kisspeptides: An Alternative? -- Conclusion -- References. Pathogenesis of PCOS: From Metabolic and Neuroendocrine Implications to the Choice of the Therapeutic Strategy -- Introduction -- Physiopathology of the PCOS Patients -- Weight and Metabolism -- Hyperandrogenism -- Insulin Resistance -- New Perspectives in the Pathogenesis of PCOS -- Genetics, Metabolism, and PCOS -- The Management of Infertility in PCOS Patients -- Lifestyle Modification -- Bariatric Surgery -- Metformin -- Clomiphene Citrate -- Letrozole -- Ovarian Drilling -- Gonadotropins and IVF -- Inositol -- Alpha-Lipoic Acid -- Conclusions -- References -- Mysteries of the Uterine Cavity -- Background -- Techniques and Patients -- Vaginal Ultrasound, Saline Infusion Sonohysterography, and Hysterosalpingo-Contrast Sonography -- Diagnostic Hysteroscopy, Mini-hysteroscopy, or Office Hysteroscopy -- Operative Hysteroscopy [5, 6] -- Our Experience -- Discussion, Future Perspectives, and Conclusion -- References -- Endometriosis: Therapeutic Approach -- Combined Therapy with Estrogens and Progestogens -- Progestogens -- Medroxyprogesterone Acetate -- Megestrol Acetate -- Norethisterone Acetate (NETA) -- Dydrogesterone -- Dienogest -- Levonorgestrel-Releasing Intrauterine Therapeutic

System -- Antigonadotropins -- Gonadotropin-Releasing Hormone Agonists -- Nonsteroidal Anti-inflammatory Drugs -- Vitamin D -- Surgical Treatment of Endometriosis -- Chronic Pelvic Pain -- Endometrioid Ovarian Cysts -- Endometriosis-Associated Infertility -- Conclusion -- References -- ART and Male Infertility -- Introduction -- Evaluation of the Infertile Male -- Treatment and Clinical Approach -- ART for Male Factor Infertility -- Intrauterine Insemination (IUI) for Male Factor Infertility -- IVF or ICSI for Male Factor Infertility -- Obstructive Azoospermia and ART -- Nonobstructive Azoospermia and ART -- Sperm Selection Techniques -- Outcomes Following ICSI.

Challenges and Future Research Priorities -- Conclusion -- References -- Laparoscopy and Gynecological Cancers -- Introduction -- General Development of Endoscopic Surgery in the Treatment for Gynecological Malignancies -- Tissue Morcellation and the Sarcoma Thread for Endometrial Adenocarcinoma and Leiomyosarcoma -- Endometrial Adenocarcinoma -- Leiomyosarcoma -- Contained Morcellation: Does It Diminish the Risk? -- How Are We Supposed to Handle Tissue Extraction Today? -- Cervical Cancer -- Developments of Cervical Cancer Surgery: Open, Conventional Laparoscopic, and Robotically Assisted Laparoscopic -- Safety, Surgical Results, Recurrence, and Survival Rates -- Does Minimally Invasive Radical Hysterectomy in Cervical Cancer Treatment Come to a Halt Now? -- Ovarian Cancer -- Facts and Reality -- Stage II Cancers -- Stage III Cancers -- Stage IV Cancers -- Role of Laparoscopy in Diagnosing Extensiveness of Ovarian Cancer -- Discussion, Conclusions, and Vision for All Three Discussed Gynecological Cancer Treatments -- References -- Part III: Fertility Preservation and Cryopreservation -- Breast Cancer and Fertility Preservation -- Introduction -- Gonadotoxic Effects of Anticancer Therapy -- Options for Fertility Preservation -- Assisted Reproduction Technologies (ART) -- Cryopreservation of Unfertilized and/or Fertilized Oocytes and Embryos -- Ovarian Stimulation -- Risks of Ovarian Stimulation and Follicle Puncture -- Medical Protection of the Gonads: GnRHa Cotreatment -- Fertility Preservation by Surgery -- Ovarian Tissue -- Ovarian Transposition -- Combined Techniques of Fertility Preservations -- Conclusion -- References -- Fertility Preservation Using Cryopreserved-Stored Ovarian Tissue: Where Are We Today? -- Introduction -- Success Rates -- Ovarian Follicle Loss in OTCP-AT -- Prevention of PMF Loss in Transplanted Grafts.

Transplantation Site -- Graft Dimensions -- Safety -- The Future -- Conclusions -- References -- Elective Oocyte Cryopreservation -- Introduction -- Ovarian Stimulation and Oocyte Vitrification -- Safety and Risks -- Clinical Outcomes -- Ethical Considerations -- Current Guidelines -- Our Own Experience -- Conclusions -- References -- Medical and Elective (Social) Egg Freezing: Key Insights from Women's Perspectives -- Introduction -- Medical Egg Freezing (MEF) -- Elective Egg Freezing (EEF) -- Conclusion -- References -- Part IV: Prenatal Testing -- Noninvasive Prenatal Testing (NIPT): Past, Present, and Future -- History -- Current Applications and Limitations -- Future -- References -- Kurjak Antenatal Neurodevelopmental Test (KANET): A Useful Tool for Fetal Neurodevelopmental Assessment -- Introduction -- About the KANET -- How to Perform KANET? -- The Results of KANET from the Multicentric Studies -- Short Description of Recent Studies on KANET -- Discussion -- Are There Any Obstacles for the Use of KANET? -- Conclusion -- References -- Part V: Recurrent Implantation Failure and Pregnancy Loss -- Recurrent Implantation Failure -- Introduction -- Maternal Factors -- Uterine Anatomy -- Thrombophilia -- Infection -- Immunological Factors -- The Endometrium -- The Embryo -- Genetics -- Embryonic Factors --

[Paternal Factor](#) -- [Low Sperm Quality](#) -- [Conclusion](#) -- [References](#) --
[Recurrent Pregnancy Loss](#) -- [Introduction](#) -- [Prognosis](#) -- [Assessment of RPL](#) -- [Problems with the Evidence-Based Approach](#) -- [Confounding Factors](#) -- [The Question Asked of a Meta-Analysis](#) -- [Diagnosis](#) -- [Genetic Aberrations](#) -- [Parental Genetic Aberrations](#) -- [Biomarkers](#) -- [Maternal Causes of RPL](#) -- [Uterine Anomalies](#) -- [Antiphospholipid Syndrome \(APS\)](#) -- [The Refractory Patient](#) -- [Hereditary Thrombophilias](#) -- [Alloimmune Pregnancy Loss](#) -- [Intravenous Immunoglobulin](#) -- [Intralipid](#).
[Filgrastim](#).
