

Contents

| | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| Contributors | vii |
| The beginnings of human <i>in vitro</i> fertilization | xiii |
| <i>Robert G. Edwards</i> | |
| Robert G. Edwards and the thorny path to the birth of Louise Brown: A history of <i>in vitro</i> fertilization and embryo transfer | xxvii |
| <i>Martin H. Johnson</i> | |
| 33 Quality management in reproductive medicine | 425 |
| <i>Michael Alper</i> | |
| 34 Lifestyle, periconception, and fertility | 434 |
| <i>Robert J. Norman, Lisa J. Moran, Sarah A. Robertson, and Rui Wang</i> | |
| 35 The environment and reproduction | 444 |
| <i>Mache Seibel</i> | |
| 36 Indications for <i>in vitro</i> fertilization treatment: From diagnosis to prognosis | 460 |
| <i>Ido Ben-Ami, Arie Razieli, Yariv Gidoni, Bart C.J.M. Fauser, and Raphael Ron-El</i> | |
| 37 Initial investigation of the infertile couple | 475 |
| <i>Isabelle Roux, Ruth Ronn, Peter T.K. Chan, Togas Tulandi, and Hananel E.G. Holzer</i> | |
| 38 Prognostic testing for ovarian reserve | 487 |
| <i>Simone L. Broer, Bart C.J.M. Fauser, and Frank J. Broekmans</i> | |
| 39 Drugs used for ovarian stimulation: Clomiphene citrate, aromatase inhibitors, metformin, gonadotropins, gonadotropin-releasing hormone analogs, and recombinant gonadotropins | 499 |
| <i>Zeev Shoham and Colin M. Howles</i> | |
| 40 The role of follicle-stimulating hormone and luteinizing hormone in ovarian stimulation: Current concepts | 526 |
| <i>Ernesto Bosch, Elena Labarta, and Elkin Muñoz</i> | |
| 41 Endocrine characteristics of assisted reproduction technology cycles | 533 |
| <i>Bulent Urman, Baris Ata, and Hakan Yarali</i> | |
| 42 The use of gonadotropin-releasing hormone agonists and the efficiency of <i>in vitro</i> fertilization | 543 |
| <i>Pasquale Patrizio, Sanaz Ghazal, Judith A.F. Huirne, and Roel Schats</i> | |
| 43 Gonadotropin-releasing hormone antagonists in ovarian stimulation for <i>in vitro</i> fertilization | 553 |
| <i>Efstathios M. Kolibianakis, Julia K. Bosdou, Georg Griesinger, and Basil C. Tarlatzis</i> | |
| 44 Gonadotropin-releasing hormone agonist triggering | 562 |
| <i>Leah Kaye, Claudio Benadiva, and Lawrence Engmann</i> | |
| 45 Segmentation of <i>in vitro</i> fertilization treatment | 575 |
| <i>Bruce Shapiro, Carrie E. Biedent, and Forest Garner</i> | |
| 46 The use of ovarian reserve biomarkers to tailor ovarian stimulation for <i>in vitro</i> fertilization | 585 |
| <i>Stamatina Iliodromiti and Scott M. Nelson</i> | |
| 47 Monitoring ovarian response in assisted reproduction (<i>in vitro</i> fertilization and intracytoplasmic sperm injection) | 599 |
| <i>Matts Wikland and Torbjörn Hillensjö</i> | |
| 48 Oocyte collection | 604 |
| <i>Gab Kovacs</i> | |
| 49 Luteal-phase support in assisted reproduction technology | 612 |
| <i>Vanessa Gayet, Ioannis Vasilopoulos, and Dominique de Ziegler</i> | |
| 50 Treatment strategies in assisted reproduction for the poor-responder patient | 618 |
| <i>Ariel Weissman, Colin M. Howles, and Sesh K. Sunkara</i> | |
| 51 Recurrent implantation failure | 662 |
| <i>David Reichman, Hey-Joo Kang, and Zev Rosenwaks</i> | |
| 52 Ultrasonography in assisted reproduction | 674 |
| <i>Laurel Stadtmayer, Kay Waud, David P. Cohen, and Ilan Tur-Kaspa</i> | |
| 53 Sperm recovery techniques: Clinical aspects | 695 |
| <i>Herman Tournaye, Patricio Donoso, and Francisco Osorio</i> | |
| 54 Processing and cryopreservation of testicular sperm | 713 |
| <i>Amin S. Herati, Mark C. Lindgren, Samuel J. Ohlander, and Larry I. Lipshultz</i> | |
| 55 Embryo transfer technique | 720 |
| <i>Ragaa Mansour</i> | |

| | | |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| 56 | Cycle regimes for frozen–thawed embryo transfer <i>Jane Reavey, Ingrid Granne, and Tim Child</i> | 732 |
| 57 | Anesthesia for <i>in vitro</i> fertilization <i>Alexander Izakson and Tiberiu Ezri</i> | 739 |
| 58 | Medical considerations of single-embryo transfer <i>Outi Hovatta</i> | 746 |
| 59 | Endometriosis and assisted reproduction technology <i>Aaron Rosen, Marli Amin, Andy Huang, and Alan H. DeCherney</i> | 751 |
| 60 | Polycystic ovary syndrome and assisted reproduction <i>Susie Jacob, Thomas H. Tang, and Adam H. Balen</i> | 762 |
| 61 | Management of hydrosalpinx <i>Annika Strandell</i> | 773 |
| 62 | Fertility preservation strategies <i>Stine Gry Kristensen and Claus Yding Andersen</i> | 784 |
| 63 | Uterus transplantation <i>Liza Johannesson, Pernilla Dahm-Kähler, Lars Nilsson, Michael Olausson, and Mats Brännström</i> | 797 |
| 64 | Viral disease and assisted reproduction technology <i>Carole Gilling-Smith and Pietro Vernazza</i> | 806 |
| 65 | Severe ovarian hyperstimulation syndrome <i>Zalman Levine and Inna Berin</i> | 820 |
| 66 | Bleeding, severe pelvic infection, and ectopic pregnancy <i>Raoul Orvieto</i> | 840 |
| 67 | Iatrogenic multiple pregnancies: The risk of assisted reproduction technology <i>Isaac Blickstein and Natasa Tul</i> | 849 |
| 68 | Egg and embryo donation <i>Mark V. Sauer and Catha Fischer</i> | 861 |
| 69 | Gestational surrogacy <i>Arieh Raziel, Raphael Ron-El, and Peter R. Brinsden</i> | 873 |
| 70 | The evolving role of the assisted reproduction technology nurse: A contemporary review <i>Joanne L. Libraro</i> | 882 |
| 71 | Patient support in the assisted reproduction technology program <i>Sharon N. Covington</i> | 891 |
| 72 | The relationship between stress and <i>in vitro</i> fertilization outcome <i>Andrea Mechanick Braverman</i> | 901 |
| 73 | The impact of legislation and socioeconomic factors in the access to and global practice of assisted reproductive techniques <i>Fernando Zegers-Hochschild, Karl G. Nygren, and Osamu Ishihara</i> | 908 |
| 74 | Religious perspectives on human reproduction <i>Raphael Ron-El and Botros Rizk</i> | 919 |
| 75 | Risk and safety management in assisted reproduction technology <i>Vanessa Gayet, Ioannis Vasilopoulos, and Dominique de Ziegler</i> | 925 |
| | Index | 933 |