Contents

Preface v

Contributors ix

Chapter 1
Anatomy and physiology 1
Fidelis T Akagbosu

Chapter 2
Investigation of female infertility in primary care 9
Corinne Hargreaves, Jayant Mehta

Chapter 3
Investigations in secondary care 19
Sara Rodríguez López, Masoud Afnan

Chapter 4
Pre-conceptual nutrition and health 27
Melanie Brown

Chapter 5
Ovarian reserve and anti-Müllerian hormone 37
Stamatina Iliodromiti, Scott M Nelson

Chapter 6
Polycystic ovary syndrome 47
Roy Homburg

Chapter 7
Endometriosis 53
Simone Ferrero, Annalisa Racca, Umberto Leone Roberti Maggiore

Chapter 8
Drug-induced ovulation 61
Kieren Wilson, William Ledger

Chapter 9
The human oocyte: characteristics, collection and fertilization 65
Bryan Woodward

Chapter 10
Oocyte donation 75
Maria Jesus López, Juan José Guillén, Rita Vassena, Amelia Rodriguez Aranda

Chapter 11
Implantation 85
Mariano Mascarenhas, Mohan S Kamath, Sesh Kamal Sunkara

Chapter 12
Surrogacy – a method of family building 91
Wendy Norton

Chapter 13
Support and counseling 99
Susan Seenan, Kate Brian

Chapter 14
Management of early pregnancy 105
Karen Sohan

Chapter 15
Management of genetic disorders 111
Semra Kahraman, Caroline Pirkevi

Chapter 16
Noninvasive prenatal testing 123
Kathryn Sanders, Tony Gordon

Chapter 17
Deriving oocytes from stem cells 129
Gustavo Tiscornia, Montserrat Barragán, Rita Vassena

Chapter 18
Mitochondrial DNA disease 137
Louise Hyslop

Chapter 19
Uterine transplantation 143
Benjamin P Jones, Srdjan Saso, J Richard Smith

Chapter 20
Fertility preservation: oocytes 151
Greta Verheyen, Ingrid Segers, Neelke De Munck, Dominic Stoop, Michel De Vos

Index 159