Contents

1. **Prevalence and Symptomatology of Polycystic Ovary Syndrome** 1
   Aviva Pinto Rodrigues
   - Definition *1*
   - Adolescent Polycystic Ovary Syndrome *2*
   - Hyperandrogenemia or Hyperandrogenism *3*
   - Polycystic Ovary Morphology *4*
2. **Genetics and Pathophysiology** 11
   Juan Giles Jiménez, Paula Celada, Carmen Vidal
   - Genetics *11*
   - Pathophysiology *15*
   - Fetal Programming *18*
   - Environmental Factors *18*
3. **Adolescent Polycystic Ovary Syndrome and Hyperandrogenism** 23
   Saroja Koppala
   - Definition of Polycystic Ovary Syndrome *23*
   - Diagnosis of Polycystic Ovary Syndrome in Adolescence *24*
   - Pathophysiology *25*
   - Laboratory Evaluation *25*
   - Follow-up *26*
   - Treatment *26*
4. **Lifestyle Management and Role of Insulin-Sensitizing Drugs** 32
   Esther Santamaría López, Cinzia Caligara, Manuel Fernández-Sánchez
   - Lifestyle *34*
   - Insulin-Sensitizing Drugs *36*
5. **Ovulation Induction in Polycystic Ovary Women** 40
   Ujwala Rao, Anil Gudi
   - Pathophysiology *40*
   - Polycystic Ovary Syndrome and Anovulation *41*
   - Ovulation Induction in the Polycystic Ovary Syndrome Patients *42*
6. **Surgical Management of Polycystic Ovarian Syndrome** 48
   Sujal Munshi, Jayesh Patel
   - Surgical Management *49*
   - Laparoscopic Ovarian Drilling *49*

7. Ovarian Hyperstimulation Syndrome: Identification and Management **63**
Sulbha Arora, Ritu Hinduja
- Diagnosis *63*
- Risk Factors *63*
- Clinical Presentation *64*
- Patient Assessment *64*
- Classification of Ovarian Hyperstimulation Syndrome *66*
- Management *67*
- Management of Complications and Intensive Care *74*
- Counseling *74*

8. Assisted Reproduction Techniques in Polycystic Ovary Syndrome **79**
Israel Ortega Sánchez, Juan A García-Velasco
- Ovarian Stimulation in Polycystic Ovary Syndrome *80*
- Adjuvant Therapies *84*
- In Vitro Maturation of Oocytes *85*

9. Long-Term Effects and Metabolic Syndrome in PCOS **90**
Juan José Espinós-Gómez

Index *111*