## Contents

1.	Premarital Counseling
	Important Topics for a Counseling Session 1
2.	First Trimester Biochemical Screening  Anita Singh, Sangam Jha  Pregnancy-associated Plasma Protein A 8  Beta-Human Chorionic Gonadotropin 9  Alpha-Fetoprotein 11  Placental Growth Factor 11  Soluble FMS-like Tyrosine Kinase-1 13  A Disintegrin and Metalloproteinase 13  Galectin 13 or Placental Protein 13 14  Hypoxia-Inducible Factor-1 14  Serum Analytes in Chromosomal Aneuploidy 15  Serum Analytes in Preeclampsia 16
3.	Thyroid Disorders in Pregnancy
4.	Induction of Labor  Parag Biniwale, Rony Chakravarty  Definition 33 Indications 33 Contraindications of Induction of Labor 34 Risks 35 Prerequisites and Preinduction Assessment 35 Cervical Favorability 35 Methods of Cervical Ripening and Induction of Labor in Unfavorable Cervix 36
5.	Current Management of Hyperglycemia in Pregnancy

	<ul> <li>Management of Selected Antenatal Complications 60</li> <li>Cesarean Section 62</li> <li>Postpartum Care 62</li> <li>Neonatal Care 65</li> <li>Integration of Guidelines with Comprehensive Primary Care Services 67</li> </ul>
6.	Relevance of Bariatric Surgery in Obesity Management
	<ul> <li>Supplementation after Bariatric Surgery 76</li> <li>Comparison of Outcomes for Bariatric Surgical Procedures 76</li> <li>Long-term Impact 77</li> </ul>
7.	Newborn Screening 81  Meena Samant  Principles and Criteria of Screening 81  Programs Throughout the World 82  Indian Perspective 82  Neonatal Screening Procedure 82  Role of Health Professionals 83  Screening for Specific Disorders 84  Inborn Errors of Metabolism 84
8.	Preventing Maternal Mortality in PPH 91  Haresh Doshi, Ami Shah  Prevention of Postpartum Hemorrhage 92  Etiology 93  Diagnosis 93  Management 94  Trauma 100  Tissue 100  Thrombus 100  Secondary Postpartum Hemorrhage 101
9.	Neonatal Resuscitation 105  Parmarth Chandane, Deepali Kale, Alpa Bhosale  Anticipation of Resuscitation Need 108  Initial Steps 108  Human Factors and Systems 110
10.	<ul> <li>Modern Methodology in Cervical Cancer Screening</li></ul>
11.	Robotics in Gynecology

	<ul> <li>Robot and Instruments 130</li> <li>Patient Positioning 137</li> <li>Trocar Placement 137</li> <li>Robotic Laparoendoscopic Single-Site Surgery 139</li> <li>Robotic Simple Hysterectomy 140</li> <li>Eligibility 141</li> <li>Preparation and Procedure 141</li> <li>Postoperative Period 143</li> <li>Other Applications 143</li> <li>Complications of Robotic Surgery 145</li> <li>Challenges 145</li> </ul>
12.	New Guidelines for Ovarian Stimulation
13.	Drug Update: Current Status of Letrozole
14.	Fertility Enhancing Laparoscopic Surgery
15.	<ul> <li>New Paradigm in Medical Management of Endometriosis 181         T Ramani Devi, Deepa Mukhundhan         Theories on Pathogenesis of Endometriosis 181         Epidemiological Factors and Molecular Mechanisms Involved in Endometriosis Development 182         Treatment Goals 183         Newer Strategies in the Medical Management of Endometriosis 188         Future Therapies 190         Alternate Treatment Modalities 192         Future Direction 192     </li> </ul>
l <b>6.</b>	Laparoscopic Morcellation: Alternatives

XVIII	

## Contents

17.	<b>Pre-ART Hysteroscopy</b>	209
	Conditions for Pre-ART Hysteroscopy 210	
18.	<ul> <li>Management of Thin Endometrium</li> <li>Sonia Malik, Esha Khanuja</li> <li>Assessing the Endometrium 214</li> <li>Causes of Thin Endometrium 214</li> <li>Effect of Thin Endometrium on Pregnancy Rate in Assisted Reproductive Technology Cycles 215</li> <li>Modalities for Treatment of Thin Endometrium 216</li> </ul>	214
19.	Next Gen Sequencing: The Future of Reproductive Genetics.  Hrishikesh Pai, Nandita Palshetkar  Chromosomal Abnormalities 222  Noninvasive Chromosomal Screening 222  Traditional Screening Methods 223  Next Gen Sequencing 223  Technicalities 224  Success Stories 224	222
20.	Internal Iliac Artery Ligation  Rajendrasing Pardeshi, Bhagyashri Ranjwan  Anatomy of Internal Iliac Artery 226 Clinical Aspect of Internal Artery 229 Methods of Internal Iliac Ligation 232 Procedure of Internal Iliac Artery Ligation 235 Complications of IIAL 239 Advantages of IIAL 239 Steps of IIAL Procedure in Short 242 Advice 242	226
21.	Emerging Role of the Microbiome  Pratap Kumar, Anjali Suneel Mundkur  Importance of Microbiome 243  Microbiome Hologenome Concept and Symbiosis 244  Vaginal Microbiome 244  Microbiome and Effects on the Human Reproductive System in Maintaining Homeostasis and Development of Diseases 245  Fertility and Influence of the Microbiome 245  Microbiome and Pregnancy—Mother or Father to Offspring: Who Matters Most! 246	
ndev		251