# CONTENTS


**Chapter 1: High Risk Pregnancy** **1**

*Shruti Bangale Daflapurkar*

- Definition 1
- Incidence 2
- Conditions Associated with High Risk Pregnancy 2
- Screening of High Risk Pregnant Women 6
- Prevention 10

**Chapter 2: Anemia in Pregnancy** **13**

*Niranjan Rathod*

- Physiological Changes in Pregnancy 14
- Increased Iron Requirements during Pregnancy 15
- Life Cycle of RBCs 15
- Definition of Anemia 16
- Causes of Anemia during Pregnancy 16
- Diagnosis 17
- Iron Deficiency in Pregnancy 18
- Megaloblastic Anemia in Pregnancy 22
- Infections Causing Anemia in Pregnancy 24
- Hemoglobinopathies in Pregnancy 26

**Chapter 3: Pregnancy Induced Hypertension** **33**

*Shruti Bangale Daflapurkar*

- History 34
- Definition, Classification and Pathophysiology 35
- Pathological Changes in Pre-eclampsia 39
- Signs and Symptoms 41
- Laboratory Investigations 42
- Management 43
- Complications 51
- Prevention of Pregnancy Induced Hypertension 56

**Chapter 4: Diabetes in Pregnancy** **59**

*Shruti Bangale Daflapurkar*

- Glucose Metabolism in Pregnancy 60
- Effect of Diabetes on Pregnancy 61
- Effect of Pregnancy on Diabetes 62

- Gestational Diabetes 62
- Diagnosis 63
- Classification of Diabetes in Pregnancy 64
- Management 65
- Examinations 65
- Insulin Therapy 68
- Complications 74
- Preconception Counseling 76

**Chapter 5: Thyroid Diseases in Pregnancy** **78**

*Shruti Bangale Daflapurkar*

- Physiology of Thyroid Function during Pregnancy 79
- Fetal Thyroid Physiology 81
- Hypothyroidism 82
- Hyperthyroidism 84

**Chapter 6: Rh Isoimmunization** **93**

*Nitin H Shah, Purva P Bhatlavande*

- Incidence 94
- Genetics 94
- Isoimmunization 96
- Pathogenesis 98
- Clinical Manifestations 99
- Management 104

**Chapter 7: Nonimmune Hydrops Fetalis** **119**

*Shruti Bangale Daflapurkar*

- Definition 119
- Incidence 120
- Causative Factors 120
- Pathophysiology 121
- Investigations 122
- Management during Pregnancy 127
- Mirror Syndrome 131
- Maternal Complications 131

**Chapter 8: Epilepsy in Pregnancy** **133**

*Yogeshwar Kalkonde*

- Causes, Incidence and Risk Factors 134
- Signs, Symptoms and Investigations 134
- Effects of Epilepsy on Conception 135
- Effects of Epilepsy and Anti-epileptic Drugs on Pregnancy 136
- Management of Epilepsy in Pregnancy 138

**Chapter 9: Chorea Gravidarum (Rheumatic Chorea in Pregnancy) 143**

*Shruti Bangale Daflapurkar*

- Incidence 144
- Causes 144
- Sydenham's Chorea 145
- Diagnosis 147
- Huntington's Disease 147
- Antiphospholipid Antibody Syndrome 147
- Laboratory Investigations 148
- Treatment 149
- Prognosis 149

**Chapter 10: Liver Diseases in Pregnancy 151**

*Vaibhav Banait*

- Hyperemesis Gravidarum 152
- Intrahepatic Cholestasis of Pregnancy 153
- Hypertension Associated Liver Diseases in Pregnancy 155
- Acute Fatty Liver of Pregnancy 157
- Liver Diseases Incidentally Occurring during Pregnancy 158
- Budd-Chiari Syndrome 159
- Drug-induced Hepatic Injury 159
- Chronic Viral Hepatitis 159
- Autoimmune Liver Disease 160
- Portal Hypertension 161

**Chapter 11: Renal Diseases and Pregnancy 162**

*Reena J Wani, Manzer Sahibole*

- Renal Changes in Normal Pregnancy 162
- Urinary Tract Infections 163
- Symptomatic Infections 165
- Acute Renal Failure 167
- Nephrotic Syndrome 169
- Acute Nephrolithiasis 169
- Pregnancy in Patients with Pre-existing Renal Disease 169
- Pregnancy after Renal Transplantation 170

**Chapter 12: Tuberculosis in Pregnancy 173**

*Shruti Bangale Daflapurkar*

- Microbiology 174
- Pathophysiology of Tuberculosis 175
- Effect of Pregnancy on Tuberculosis 176
- Effect of Tuberculosis on Pregnancy 176

- Tuberculosis in Newborn 177
- Diagnosis 177
- Treatment 179
- Multi-drug Resistant Tuberculosis 186
- Extensively Drug Resistant Tuberculosis 186
- Breastfeeding 187
- HIV and Tuberculosis Co-infection 187
- Prevention of Tuberculosis 188

**Chapter 13: Skin Diseases in Pregnancy 190**

*Santosh Daflapurkar*

- Physiologic Changes during Pregnancy 190
- Dermatoses Associated with Fetal Risk 195
- Dermatoses not Associated with Fetal Risk 199

**Chapter 14: Infectious Diseases during Pregnancy 203**

*Shruti Bangale Daflapurkar, Santosh Daflapurkar*

- TORCH Infection 203
- Other Infections 216

**Chapter 15: Sexually Transmitted Diseases during Pregnancy 223**

*Santosh Daflapurkar*

- Common Sexually Transmitted Diseases 224

**Chapter 16: HIV in Pregnancy 245**

*Santosh Daflapurkar, Shruti Bangale Daflapurkar*

- History 245
- Human Immunodeficiency Virus 246
- HIV in Pregnancy 250
- Prevention of Parent to Child Transmission of HIV 255
- Infant ART Prophylaxis 259
- Hepatitis Co-infection 259
- Cesarean Delivery 260

**Chapter 17: Antepartum Hemorrhage I: Placenta Previa, Placenta Accreta and Vasa Previa 263**

*Suresh S Rawte, Sonali S Deshpande*

- Definition 264
- Placenta Previa 264
- Incidence 265
- Etiology and Associated Risk Factors 265
- Clinical Presentation 267
- Diagnosis 268
- Management 269

- Placenta Accreta 274
- Vasa Previa 281

**Chapter 18: Antepartum Hemorrhage II: Placental Abruption 289**

*Suresh S Rawte, Shrinivas N Gadappa*

- Definition 291
- Incidence 291
- Risk Factors 291
- Pathophysiology 294
- Clinical Signs and Symptoms 295
- Diagnosis 298
- Management 299

**Chapter 19: Gynecological Cancers in Pregnancy 314**

*Suresh S Rawte, Swati Shiradkar*

- Diagnosis and Treatment of Cancer during Pregnancy 315
- Cervical Cancer in Pregnancy 319
- Ovarian Cancer in Pregnancy 327
- Vulvar Cancer in Pregnancy 329
- Vaginal Cancer in Pregnancy 330
- Endometrial Cancer in Pregnancy 331
- Breast Cancer in Pregnancy 331

**Chapter 20: Teenage Pregnancy 338**

*Shruti Bangale Daflapurkar*

- Definition 339
- Overview and Epidemiology 339
- Incidence 339
- Causes 341
- Complications of Teenage Pregnancy 342
- Prevention of Teenage Pregnancy 345
- Social Issues Associated with Teenage Pregnancy 345

**Chapter 21: Puerperal Pyrexia 351**

*Shruti Bangale Daflapurkar*

- Causative Organisms 352
- Definition 352
- Etiology 353
- Examinations 353
- Investigations 353
- Management 354
- Complications 356
- Prognosis 356
- Prevention 356

**Chapter 22: Ectopic Pregnancy** **358**

*Shruti Bangale Daflapurkar*

- Definition 359
- Sites 359
- Risk Factors 360
- Investigations 362
- Tubal Ectopic Pregnancy 364
- Treatment 366
- Cervical Ectopic Pregnancy 371
- Ovarian Ectopic Pregnancy 372
- Abdominal Pregnancy 373
- Heterotopic Pregnancy 374

**Chapter 23: Anesthesia for Obstetrics** **376**

*Shrigopal Bhattad*

- Maternal Physiology and Anesthesia 378
- Labor Analgesia 379
- Anesthesia for Cesarean Section 385
- Specific Maternal Conditions and Anesthesia 392

*Index* *399*