## Section 1

### BASIC ENDOSCOPY

#### CHAPTER 1. How to Set-up an Ideal Endoscopic Operation Theater

*PG Paul, Sunita R Tandulwadkar, Renuka Borisa, P Biju, Kannan K, Fiadjoe P*

#### CHAPTER 2. Equipment and Instruments in Endoscopic Surgery

*Sunita R Tandulwadkar*

*Anesthesia Work Station*

#### CHAPTER 3. Energy Sources in Endoscopic Surgery

*Wachyu Hadisaputra, Leonita TA Sutrisna*

**Aim**

- Fundamentals and Biophysics of Electrosurgery
- Types of Energy Source
- Use of the Thermal Effect
- General Safety Aspects
- Prevention of Electrosurgical Injuries
- Other Energy Sources

#### CHAPTER 4. Medicolegal Issues in Endoscopic Surgeries

*Sanjay Gupte*

*Medicolegal Aspects in Endoscopic Surgeries*

#### CHAPTER 5. Prevention of Complications in Endoscopic Surgeries

*PG Paul, Renuka Borisa, P Biju, Kannan K, Fiadjoe P*

*Prevention of Preoperative Complication*

*Prevention of Postoperative Complications*

*Prevention of Complications During Hysteroscopy*

#### CHAPTER 6. Port Placement

*Sunita R Tandulwadkar*

*Routine Port Placements*

*In Difficult Situations, Like*

#### CHAPTER 7. Laparoscopic Suturing

*Alessandro Loddo, Vito Cofelice, Gian Benedetto Melis*

*Making the Ideal Stitch*

*Suturing Techniques*
Section 2

HYSTEROSCOPY

CHAPTER 8. Diagnostic Hysteroscopy
Sunita R Tandulwadkar, Pooja Lodha
Preoperative Preparation 37
Anesthesia 37
Important Equipment 37
Technique 37

CHAPTER 9. Office Hysteroscopy
Sunita R Tandulwadkar, Pooja Lodha
Preoperative Evaluation 42
Preoperative Preparation 42
Important Equipment 42
Technique 42

CHAPTER 10. Classification of Microhysteroscopic Images
Jorge E Dotto, Paola Da Graca Mila, Miguel A Bigozzi Jr,
Jorge E Dotto Jr, Jacques Hamou
Hysteroscopy Techniques 44
Classification of Hysteroscopic Images 44

CHAPTER 11. Hysteroscopic Myomectomy
Sunita R Tandulwadkar, Nirzari Mangeshikar
Preoperative Evaluation 56
Preoperative Preparation 56
Important Equipment 56
Classification of Submucosal Fibroid 56
Technique 56

CHAPTER 12. Hysteroscopic Management of Intrauterine Adhesions
Sunita R Tandulwadkar, Pooja Lodha
Preoperative Evaluation 62
Preoperative Preparation 62
Instrumentation 62
Technique 62
Postoperative Care 62

CHAPTER 13. Hysteroscopic Cannulation for Proximal Tubal Block
Sunita R Tandulwadkar
Preoperative Evaluation 66
Preoperative Preparation 66
Important Equipment 66
Technique 66
CHAPTER 14. Hysteroscopic Resection of Septum 68
Sunita R Tandulwadkar, Sejal Naik
Preoperative Evaluation 68
Preoperative Preparation 68
Special Instruments 68
Technique 68

Section 3

LAPAROSCOPY

CHAPTER 15. Laparoscopic Hysterectomy 75
Sunita R Tandulwadkar
Preoperative Evaluation 75
Preoperative Preparation 75
Important Equipment 75
Technique 75
Steps of Laparoscopic Hysterectomy 76

CHAPTER 16. Laparoscopic Subtotal and Total Hysterectomy for Multiple Fibroids 84
Liselotte Mettler, Anupama Deenadayal, Ibrahim Alkatout
Microscopic Facts and Fibroid Viability 86
Costs of Fibroids 86
Will the Ovaries be Removed or Left in Place? 86
Laparoscopic Subtotal Hysterectomy 87
Prerequisites 87
Steps of Surgery 88
Laparoscopic Total Hysterectomy (LTH) 91

CHAPTER 17. Laparoscopic Hysterectomy in Case of Large Uteri 111
Bruno J van Herenael, Lisbeth Jochems
Preparation of the Surgery 111
The Ten Step Laparoscopic Hysterectomy 113

CHAPTER 18. Laparoscopic Hysterectomy for Previous Cesarean Sections 118
Ornella Sizzi, Giuseppe Florio
Preoperative Evaluation 118
Preoperative Preparation 118
Equipment 118
Technique 118
Changing of Technique for Previous Cesarean Sections 121
Steps in Case of Adhesions and Uterus Ventrofixation 121

CHAPTER 19. Laparoscopic Hysterectomy in Endometriosis 126
Sanjay Patel, Yogendra Jhala
Hysterectomy in Endometriosis with Frozen Pelvis 126
CHAPTER 20. Laparoscopic Radical Hysterectomy 135
Shailesh Puntambekar
Preoperative Preparation 135
Instruments and Equipment 135
Technique 135
Procedure 135

CHAPTER 21. Laparoscopic Myomectomy 143
Sunita R Tandulwadkar, Nirzari Mangeshikar
Preoperative Evaluation of the Patient 143
Preoperative Preparations 143
Instruments and Equipment 143
Bowel Preparation 143
Prerequisites 143
Procedure 143
Closure of Uterine Flap 144
Extraction of Myoma 144
Myomectomy in Difficult Situations 144

CHAPTER 22. Laparoscopic Myomectomy for Intramural Fibroids 153
Rafique Parkar
Indications 153
Contraindications 153
Advantages 153
Principles for a Good Laparoscopic Myomectomy 154
Preoperative Evaluation/Preparation 154
Surgical Procedure 154

CHAPTER 23. Laparoscopic Management of Benign Ovarian Mass 160
Prakash Trivedi
Preoperative Evaluation 160
Preoperative Preparation 160
Laparoscopic Ovarian Cystectomy 160
Polycystic Ovarian Drilling 160
Benign Cystic Teratomas 168

CHAPTER 24. Laparoscopic Management of Tubal Ectopic 171
Sunita R Tandulwadkar, Sejal Naik
Unruptured Ectopic 171
Salpingostomy 171
Salpingectomy 172
Ruptured Ectopic 172

CHAPTER 25. Laparoscopic Salpingectomy 176
Sunita R Tandulwadkar
Preoperative Evaluation 176
Preoperative Preparation 176

Sunita R Tandulwadkar

Preoperative Evaluation 180
Preoperative Preparation 180
Important Equipment 180
Surgical Steps 180

CHAPTER 27. Laparoscopic Tubotubal Anastomosis

Sanjay Patel

Preoperative Evaluation 183
Indications 183
Contraindications 183
Equipment and Instruments 183
Sutures, Needles and Energy 183
Selection of Cases 184
Intra-operative Evaluation 184
Surgical Technique 184
Procedure 187
Types of Anastomosis 187

CHAPTER 28. Laparoscopic Management of Endometrioma

Sunita R Tandulwadkar

Preoperative Evaluation 193
Preoperative Preparation 193
Important Equipment 193
Ablation of Cyst Wall 193
Cystectomy 194

CHAPTER 29. Salpingoscopy

Sanjay Patel

Instruments and Procedure of Salpingoscopy 198

CHAPTER 30. Laparoscopic Management of Adenomyoma

Sanjay Patel, Yogendra Jhala

Transvaginal Ultrasonography 205
Adenoma on Laparoscopy 206
Adenoma on Hysteroscopy 206
Coexisting Pathologies 208
Preoperative Adenoma Mapping 208
AIM of the Adenoma Resection 209
Technique of Adenomyoma Resection 209
Technique of Endosuturing: Intra-corporeal Slip Knot Technique 212
Our Experience 213
Chapter 31. Anatomy of Pelvic Floor and Laparoscopic Prolapse Repair

Revaz Botchorishvili, Sara Campos

Preoperative Evaluation 215
Preoperative Preparation 215
Specific Instruments and Equipment 215
Prerequisites 216
Port Placements 216
Anatomical Landmarks in Port Placement 216
Key steps of the Procedure 216

Chapter 32. Laparoscopic Sling Surgery

Sunita R Tandulwadkar, Nirzari Mangeshikar

Laparoscopic Sacro-spinous Fixation for Uterine Prolapse 224

Chapter 33. Laparoscopic Cervical Cerclage

Sunita R Tandulwadkar, Nirzari Mangeshikar

When to Perform? 228
Advantages 228
Disadvantages 228
Preoperative Evaluation 228
Preoperative Preparation 228
Instruments and Materials 228
Steps of Laparoscopic Cerclage Procedure 228

Chapter 34. Single Incision Laparoscopic Surgery using Common Laparoscopic Instruments

Sevellaraja Supermaniam

Preoperative Evaluation 231
Preoperative Preparation 231
Important Equipment 231
Technique 231
Steps for Performing Single Incision Laparoscopic Hysterectomy 234
Postoperative Management 238
Other Procedures that can be Performed by this Technique 238

Chapter 35. Robotic Surgery in Gynecology

Charles Miller, Kirsten Sasaki

Selection of Cases 241
Preparation for Surgery 241

Section 4

VAGINAL SURGERY

Chapter 36. Vaginal Surgery: Surgical Principles

Andri Nieuwoudt

Anatomical Considerations 251
Perivaginal Organization 251
The Role of Surgical Auditing in Defect Specific Surgery 254
### CHAPTER 37. Nondescent Vaginal Hysterectomy 258

*Sunita R Tandulwadkar*

- Preoperative Evaluation 258
- Preoperative Preparation 258
- Anesthesia 258
- Position 258
- Technique 258
- Modifications 258
- Postoperative 259

### CHAPTER 38. Newer Concepts of Anterior and Posterior Vaginal Prolapse Repair 260

*Ajay Rane*

- Pelvic Organ Supports 260
- Diagnosis 261
- POP-Q System 261
- Investigations 261
- Urodynamics 261
- Imaging 261
- Ultrasound 261
- Surgical Management 261
- Transobturator Mesh (PERIGEE) 262
- Transobturator Sling (MONARC) 262

### CHAPTER 39. Apical and Posterior Vaginal Wall Repair 265

*Andri Nieuwoudt*

- Apical and Posterior Vaginal Wall Repair 265
- I. Bilateral Uterosacral Cervicopexy (BUSCer) 268
- II. Bilateral Uterosacral Colpopexy (BUSCol) 273

### CHAPTER 40. Transvaginal Tape Obturator (TVTO) for Stress Urinary Incontinence 276

*Prakash Trivedi, Sunita R Tandulwadkar*

- Preoperative Evaluation 276
- Preoperative Preparation 276
- Important Equipment 276
- Procedure 276
- Tvt Abbrevio™ 285

---

**Section 5**

**UNUSUAL CASES**

### CHAPTER 41. Uterus Didelphys with Abnormally Placed Ovaries 289

*Sunita R Tandulwadkar*
<table>
<thead>
<tr>
<th>Chapter</th>
<th>Title</th>
<th>Authors</th>
<th>Pages</th>
</tr>
</thead>
<tbody>
<tr>
<td>42</td>
<td>Case of Chronic Twisted Adnexa</td>
<td>Sunita R Tandulwadkar</td>
<td>293</td>
</tr>
<tr>
<td>43</td>
<td>27-year-old Female with Bad Obstetric History with Unicornuate Uterus</td>
<td>Sunita R Tandulwadkar, Pooja Lodha</td>
<td>295</td>
</tr>
<tr>
<td>44</td>
<td>Case of Ovarian Fibroma</td>
<td>Prakash Trivedi, Sunita R Tandulwadkar</td>
<td>297</td>
</tr>
<tr>
<td>45</td>
<td>Laparoscopy for Benign Uterine, Tubal and Ovarian Pathologies in Adolescent Age Group</td>
<td>Sunita R Tandulwadkar, Nirzari Mangeshikar</td>
<td>300</td>
</tr>
<tr>
<td></td>
<td>Pre-operative Preparations</td>
<td>300</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Intra-operative considerations</td>
<td>300</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Post-operative considerations</td>
<td>300</td>
<td></td>
</tr>
<tr>
<td>46</td>
<td>Hysteroscopic Resection of a Large Type 0 Submucous Myoma</td>
<td>Sunita R Tandulwadkar, Nirzari Mangeshikar</td>
<td>312</td>
</tr>
<tr>
<td>47</td>
<td>Anti-NMDA Receptor Antibody Encephalitis—A Rare Condition Associated with Ovarian Teratoma</td>
<td>Sunita R Tandulwadkar, Devika Chopra</td>
<td>314</td>
</tr>
<tr>
<td></td>
<td>Investigations</td>
<td>314</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Diagnosis</td>
<td>314</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Histopathology</td>
<td>314</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Patient Recovery</td>
<td>315</td>
<td></td>
</tr>
</tbody>
</table>

Index 317