

Contents

<i>Contributors</i>	<i>vii</i>
<i>Foreword by Prakash P Kotwal</i>	<i>xiii</i>
<i>Foreword by DD Tanna</i>	<i>xv</i>
<i>Foreword by Ramesh K Sen</i>	<i>xvii</i>
<i>Preface</i>	<i>xix</i>
1. Patient Clerking and Initial Work-up	1
<i>Aamir Yaqoob Hakak</i>	
2. How to Read Musculoskeletal X-rays?	7
<i>Rashid Anjum</i>	
3. Blood Tests in Trauma and Orthopedics: A Clinical Guide	11
<i>Simran Preet Singh</i>	
4. Preoperative Management and Optimization of the Patients for Anesthesia	15
<i>Khalid Muzzafer</i>	
5. Informed Consent for Surgery: Guidelines and Best Practices	25
<i>Nasir Wani</i>	
6. Prevention of Infection in Orthopedics	30
<i>Omeshwar Singh</i>	
7. Role of Radiology in Orthopedics	37
<i>Anchal Gupta, Mohd Ilyas</i>	
8. Magnetic Resonance Imaging with Implants: Myths and Facts	48
<i>Rahul Mahajan</i>	
9. Role of Nuclear Scan in Orthopedics	52
<i>Shamim Ahmed Shamim, Archi Gupta</i>	
10. Dual-energy X-ray Absorptiometry Scan	58
<i>Mohd Ilyas</i>	
11. Proper Collection, Transportation and Handling of Culture Samples	64
<i>Sumeet Singh Charak</i>	
12. Appropriate Handling of Histopathology Samples: Do's and Don'ts	69
<i>RR Saggar, Sanjay Wadhwa</i>	
13. Blood Transfusion: Indications, Procedure and Complications	72
<i>Ayaz Ali Mir</i>	
14. Arterial and Venous Blood Gas Analysis	75
<i>Shruti Gupta</i>	

15. Negative Pressure Wound Therapy <i>Pankaj Spolia</i>	79
16. Intra-articular Injections and Joint Aspiration Technique <i>Siddarth Sharma</i>	82
17. Local Anesthesia <i>Arti Mahajan</i>	88
18. Perioperative Analgesia in Orthopedics <i>Rajesh Mahajan, Ajay Gupta</i>	91
19. Guidelines for Safe Use of Nonsteroidal Anti-inflammatory Drugs <i>Farid Hussain, Nusrat Kareem Bhat</i>	98
20. Choice of Antibiotics in Orthopedics <i>Azhar ud Din</i>	102
21. Role of Supplements in Orthopedics <i>Jibran Bashir</i>	108
22. Vitamin D and Calcium: Myths and Facts <i>Sanjeev Gupta</i>	114
23. Role of Steroids in Orthopedics <i>Zubair Ahmad Lone</i>	118
24. Deep Vein Thrombosis Prophylaxis and Anticoagulants <i>Sumit Pal Singh</i>	122
25. Operation Theater Techniques and Etiquette <i>John Mohd, Ajaz Nabi Koul, Tufail Muzaffar</i>	130
26. Theater Decorum and Maintenance <i>Abdul Ghani</i>	139
27. Surgical Safety Checklist <i>Suhail Malhotra</i>	144
28. Standard Sutures and their Application in Orthopedics <i>Pankaj Vir Singh</i>	147
29. Electrocautery in Orthopedic Surgery: Applications, Contraindications and Precautions <i>Nitin Choudhary</i>	151
30. Tourniquets in Orthopedics: Do's and Don'ts <i>Amarjeet Singh</i>	159
31. Appropriate Use of Image Intensifier and Minimizing Radiation Exposure <i>John Mohd, Waseem Ahmad Sheikh</i>	163
32. Minimizing the Risk and Post-exposure (Needle/Sharp Injury) Protocol <i>Tejpal Singh</i>	172
33. Postoperative Management of Orthopedic Patients <i>Saheel Majid</i>	176

34. Managing Postoperative Infection <i>Khurshid Ahmad Bhat</i>	181
35. Medical Emergencies in Orthopedics <i>Tanveer Ahmed Bhat</i>	188
36. Electrolyte Imbalance and its Management <i>Abdul Ghani</i>	194
37. Management of Anaphylaxis <i>Renu Wakhloo</i>	201
38. Management of Shock <i>Renu Wakhloo</i>	206
39. Basic Life Support <i>Anita Vig Kohli</i>	214
40. Intensive Care Unit Admission Criteria for Orthopedic and Trauma Patients <i>Sunana Gupta</i>	219
41. Tetanus Prophylaxis and Treatment <i>Abdul Ghani</i>	224
42. Orthopedic Management of Pregnant and Lactating Patients, including Radiation Exposure <i>Imran Yousouf Bhat, Pallav Gupta</i>	227
43. Orthopedic Perspective in Snakebite Care <i>Abdul Ghani</i>	234
44. Approach to a Pediatric Orthopedic Patient <i>Parmanand Gupta</i>	238
45. Use of Surgical Drains in Orthopedics Procedures <i>Pallav Gupta</i>	243
46. Management of Foreign Bodies in Orthopedics <i>Pardeep Singh</i>	246
47. Implant Removal in Orthopedics—Indications, Contraindications, Timing and Special Precautions <i>John Mohd</i>	251
48. Role of Electromyography and Nerve Conduction Studies in Orthopedics and Trauma: Clinical Implications, Interpretation and Timing of Assessment <i>Abdul Ghani</i>	255
49. Overview of Musculoskeletal Physiotherapy and Occupational Therapy <i>Sonia Gupta, Mohammad Aadil Malik</i>	259
50. Comprehensive Approach to Orthopedic Treatment <i>Abdul Ghani</i>	267
51. Standardized Template for Operative Notes <i>Abdul Ghani</i>	270

52. Orthopedic Discharge Summary Template <i>Abdul Ghani</i>	273
53. Thesis Writing Skill <i>Rajiv Kumar Gupta, Richa Mahajan</i>	276
54. Approach to Writing a Research Paper <i>Sakib Arfee</i>	280
55. Mastering the Art of Medical Literature Search <i>Nusrat Jabeen</i>	286
56. Orthopedic Postgraduate Examination: An Overview <i>Abdul Ghani</i>	291
57. Post-residency Professional Upgradation Mechanism <i>Abdul Ghani</i>	300
58. Medicolegal Aspects in Orthopedics <i>Abdul Ghani</i>	303
59. Medical and Surgical Ethics <i>Abdul Ghani</i>	306
60. Role of Artificial Intelligence in Modern Healthcare <i>Rifaqat Ghani</i>	313
61. Role of 3D Printing in Orthopedics and Trauma <i>Nusrat Jabeen</i>	318
62. Choosing and Advancing a Sub-specialty in Orthopedics <i>Abdul Ghani</i>	322
63. Essential Communication Skills for Medical Professionals <i>Rakesh Bahl</i>	327
64. Time Management Skills <i>Abdul Ghani</i>	331
65. Work-life Balance <i>Abdul Ghani</i>	334
66. Staying Motivated as a Medico <i>Abdul Ghani</i>	337
<i>Index</i>	343