



Contents

Preface to the Third Edition

v

Section 1: General

1. <u>Medicolegal Autopsy—Philosophy</u>	2
2. <u>Medicolegal Autopsy—A procedural Outline</u>	3
3. <u>Medicolegal Autopsy—Preliminaries</u>	15
4. <u>Medicolegal Autopsy—External Examination</u>	20
5. <u>Medicolegal Autopsy—Internal Examination</u>	26
6. <u>Postmortem Changes</u>	29
7. <u>Examination of Decomposed Bodies</u>	38
8. <u>Artefacts in Forensic Practice</u>	40
9. <u>Examination of Mutilated Bodies and Fragmentary Remains</u>	47
10. <u>Examination of Bundle of Bones</u>	51
11. <u>Exhumation</u>	59
12. <u>Postmortem Interval—Time Since Death</u>	62
13. <u>Procedure in Poisoning</u>	69

Section 2: Dissection Techniques and Special Examination

14. <u>Dissection of Skull and Brain</u>	74
15. <u>Dissection of Spine and Spinal Cord</u>	80
16. <u>Dissection of Neck</u>	87
17. <u>Dissection of Heart</u>	97
18. <u>Dissection of Conduction System</u>	104
19. <u>Dissection of Lungs</u>	106
20. <u>Dissection of Chest and Abdomen</u>	110
21. <u>Dissection of Female Genitals</u>	123
22. <u>Dissection of Male Genitals</u>	126
23. <u>Dissection of Kidney, Ureter and Urinary Bladder</u>	128
24. <u>Fetal Dissection</u>	130

Section 3: Asphyxia

25. Asphyxia—General Aspects	136
26. Hanging	139
27. Strangulation	153
28. Suffocation	160
29. Smothering	162
30. Choking	163
31. Gagging	165
32. Traumatic Asphyxia	168
33. Drowning	170

Section 4: Mechanical Injuries

34. Mechanical Injuries—General Aspects	184
35. General Injuries	184
35.1 Abrasion	184
35.2 Bruise	187
35.3 Laceration	191
35.4 Incised Wounds	193
35.5 Slash Wounds	194
35.6 Stab Wounds	196
35.7 Defence Wounds	201
35.8 Fabricated Wounds	201
35.9 Age of Wound	202
35.10 Postmortem Wounding	203

Section 5: Specific Injuries

36. Accidental Injuries	222
37. Fall from Height Injuries	225
38. Railway Injuries	230
39. Torture Injuries	233
40. Custodial and Encounter Injuries	249
41. Abuse and Sadistic Injuries	256
42. Hate Injuries	259
43. Ceremonial Injuries	264
44. Branding Injuries	266

Section 6: Firearm Injuries

45. Firearm Injuries	270
45.1 Shotgun Injuries	270
45.2 Rifled Firearm Injuries	272
45.3 Entry and Exit Wounds	274
45.4 Different Varieties of Injury in Firearm Cases	276
45.5 Manner of Firearm Injuries—Accident, Suicide and Homicide	281
45.6 Autopsy and Evidence Preservation	294
46. Bomb—Explosions	297
46.1 Injuries from Explosions	297
46.2 Bomb Blast Injuries	299

Section 7: Thermal Injuries

47. Burns and Scalds	307
48. Lightning	316
49. Electricity	319
50. Cold Injuries	324
51. Heat Injuries	325
52. Radiation Injury	326

Section 8: Crime Against Women, Children and Fetus

53. Rape Murders	330
54. Abortion Deaths	341
55. Feticide and Infanticide	347
56. Children and Women Abuse	360
56.1 Battered Baby	360
56.2 Child Abuse and Neglect	364
56.3 Domestic Violence	370

Section 9: Sudden Deaths

57. Cardiovascular Causes	375
58. Respiratory Causes	380
59. Gastrointestinal Causes	382
60. Central Nervous System (CNS)	386
61. Endocrinal Causes	389

62. Anaphylactic Deaths	391
63. Iatrogenic, Miscellaneous, Children and Indeterminate Causes	392

Section 10: Drug and Volatile Substance Abuse

64. Drug Abuse Deaths	394
65. Volatile Substance Abuse (VSA)	404

Section 11: Other Fatalities

66. Starvation	408
67. Radioactive Cadavers	410

Section 12: Alcohol

68. Alcohol in Forensics	414
--------------------------	-----

Section 13: Toxicology

69. Poisoning—General	436
70. Toxicology: Material Identification	439
71. Toxicology: Autopsy Findings	451
72. Viscera Preservation and Analysis	463
73. Toxicology Museum	468
74. Toxicology Laboratory	470
75. Analytical Toxicology	487
75.1 Toxicological Evidence—Forensic Aspects	487
75.2 Toxicological Evidence—Analytical Aspects	490
76. Biological and Chemical Terrorism	499

Section 14: Basic Facilities

77. Requirements for an Ideal Autopsy Station and Forensic Working Station	502
--	-----

Section 15: Protocols and Sketch Diagrams

78. Autopsy Protocols	518
79. Forensic Photography	519
80. Autopsy Diagrams	527
81. Doctor in Witness Box	531

<i>Appendix</i>	538
-----------------	-----

<i>Index</i>	541
--------------	-----