
Contents

<i>Contributors</i>	<i>vi</i>
<i>Foreword by Dr G Veera Nagi Reddy</i>	<i>vii</i>
<i>Preface to the Second Edition</i>	<i>ix</i>
<i>Preface to the First Edition</i>	<i>x</i>

SECTION I: Forensic Medicine

1. Forensic Medicine	3	
Introduction	3	
Medicolegal Case	3	
Corpus Delicti	3	
the Essential Ingredients of a Crime	4	
Mens Rea	4	
Locard's Principle of Exchange	4	
Inquest	5	
2. Court Procedures	7	
Introduction	7	
Evidence	9	
Dying Declaration	9	
Witness	10	
3. Identity (Biometric Profiling)	11	
Introduction	11	
Features for Identification	12	
Legitimacy of a Child	20	
4. Death and its Medicolegal Aspects	34	
Thanatology	34	
Medicolegal Importance of Death	35	
Modes of Death	35	
Clinical Death and Sequela of Death	37	
Time Since Death/Time Elapsed after Death	46	
Sudden Death	48	
Medicolegal Postmortem Examination	51	
5. Forensic Traumatology	71	
Wounds	71	
Mechanical Injuries	71	
Abrasion	71	
Contusion	73	
Lacerated Wound	76	
Incised Wound	79	
Stab Wound	81	
Fracture of Bone	83	
Firearm Injuries: Ballistics	87	
Medicolegal Aspect of Wounds	95	
Regional Injuries	98	
Fall from Height	106	
Boxing Injuries	106	
Aircraft Injuries	106	
Road Traffic Accidents	107	
Homicide	109	
6. Anoxia due to Mechanical Violence	125	
Introduction	125	
Hanging	127	
Strangulation	133	
Throttling	134	
Smothering	136	
Choking	137	
Traumatic Asphyxia	137	
Drowning	138	
7. Thermal Deaths	147	
Heat	147	
Hypothermia	147	
Burns	148	
Electrical Injuries	153	
Lightning	154	
8. Sexual Offences	161	
Rape (Under Section 375 of IPC)	161	
Sexual Deviations	164	
Semenology (Study of Seminal Stains)	168	
9. Autopsy in Females	196	
Virginity	196	
Pregnancy	197	
Delivery	199	
Abortion	200	

10. Assisted Reproduction	203	14. Artefacts	222
Impotence 203		Disadvantages of Artefacts 222	
Sterility 203		Postmortem Artefacts 223	
Artificial Insemination 208		Conclusion 224	
11. Legitimacy and Paternity	210	15. Tripped Forensic Issues	225
Introduction 210		DNA Analysis 226	
Establishment of Legitimacy of a Child 210		RFLP 227	
Paternity 210		PCR 227	
12. Infant Deaths	212	Bronchial Asthma 229	
Infanticide 212		Sudden Infant Death Syndrome 230	
Sudden Infant Death Syndrome 216		Blunt Force Injury 232	
Battered Baby Syndrome/Caffey's Syndrome 216		Firearm Injuries 238	
Munchausen Syndrome by Proxy (Gentle Homicide) 217		Signs of Poisoning 241	
13. Trace Evidence	218	16. Forensic Psychiatry	249
Introduction 218		Schizophrenia 249	
Examination of Hair 218		Bipolar Disorder 250	
Blood 220		Anxiety Neurosis (Anxiety Disorder) 251	
		Diagnosis of Mental Illness 251	
		Impulse 252	
		Hallucinations 253	
		Obsessions 253	
		Intelligence Quotient 256	

SECTION II: Forensic Toxicology

17. General Toxicology	261	Thallium 290	
Toxicology 261		Radioactive Substances 290	
Classification of Poisons (Based on Actions) 261		21. Vegetable Irritant Poisons	292
Duties of Doctor in Cases of Poisoning 264		<i>Abrus precatorius</i> 292	
Treatment of Poisoning 265		<i>Calotropis gigantea</i> (Akdo, Madar) 293	
Antidotes 267		<i>Semecarpus anacardium</i> (Marking Nut) 294	
Poisoning Related Various Symptoms 270		<i>Ricinus communis</i> 294	
18. Corrosives	277	<i>Croton tiglium</i> 294	
Sulphuric Acid 277		<i>Capsicum annum</i> (Chillies) 295	
Nitric Acid 278		<i>Plumbago rosea, Plumbago zeylanica</i> (Lal Chitra or Chitra) 295	
Hydrochloric Acid 279		<i>Argemone mexicana</i> 295	
Oxalic Acid (Acid of Sugar) 279		<i>Lathyrus sativus</i> (Kesari Dal) 295	
Carbolic Acid 279		Ergot 296	
Acetylsalicylic Acid (Aspirin) 280		22. Mechanical Irritants	298
Alkalies 281		Irritants 298	
19. Non-Metallic Irritant Poisons	282	23. Poisonous Creatures	299
Irritants 282		Skink or Striped Skink 299	
Phosphorus 282		Ophitoxaemia: Snakebite Poisoning 299	
Phosphine 283		Cobra 299	
20. Metallic Irritant Poisons	284	Krait 300	
Arsenic 284		Sea Snakes 300	
Mercury 286		Viper 300	
Copper Sulphate (Blue Vitriol) 287		Snake Venom 302	
Lead 288		Scorpion Sting 303	
Zinc Phosphide 289		Cantharides 304	
Aluminium Phosphide 289			

24. Food Poisoning	306	28. Pesticides	325
Poisonous Mushrooms (Fungi)	306	Insecticides	325
Botulism or Allantiasis	306	Fungicides	325
Types of Food Poisoning	307	Organophosphorus Compound Poisoning	326
25. Cerebral Poisons	308	DDT (Dichlorodiphenyltrichloroethane)	326
Somniferous (Opium and its Alkaloids)	308	Endrin	326
Pethidine	309	Carbamates	327
Heroin	310	Naphthalene	327
Codeine	310	Kerosene (Gasoline)	328
Ethyl Alcohol	310	29. Poisons Affecting	
Scheme for Examination of Alcohol		Cardiovascular System	333
Intoxication	312	<i>Nicotiana tobaccum</i> (Tobacco)	333
Methyl Alcohol	313	<i>Digitalis purpurea</i>	333
Barbiturates	314	<i>Nerium odorum</i> (Kaner)	334
Non-barbiturates	316	<i>Cerebra thevetia</i> (Peela Kaner)	334
Mandrax (Methaqualone)	316	<i>Aconitum napellus</i> (Aconite)	334
Bromides	316	Chloroquine	335
Paraldehyde	317	Quinine/quinidine	335
Tranquillizers	317	Hydrocyanic Acid	336
26. Deliriant Poisons	318	30. Irrespirable Gases	338
<i>Datura</i> (Datura)	318	Carbon Monoxide	338
Alkaloids	319	Hydrogen Sulphide (Sewar Gas Poisoning)	338
Cannabis sativa	319	Carbon Dioxide	339
Psychedelic Substances	320	War Gases	339
Cocaine	321	31. Spinal and Peripheral Nerves	341
27. Substance Abuse	322	Strychnine Poisoning (Spinal)	341
Withdrawal Syndromes	323	Poisons Affecting Peripheral Nervous System	342
Drug Abuse Deaths	323	Curare	342
		Hemlock	342

SECTION III: Medical Jurisprudence

32. Medical Jurisprudence	345	Blood Banks	362
Introduction	345	Presumption of Survivorship	362
Registered Medical Practitioner	345	Presumption of Death	363
Medical Council of India	346	33. Subject Review	383
State Medical Council	347	Definitions	383
Malpraxis (Malpractice/Negligence)	349	Multiple Choice Questions	401
Consumer Protection Act and Doctor	351	34. Forms and Certificates	461
Transplantation of Human Organs	353	35. Sections of Law	488
Medical Indemnity Insurance	354	36. Tables at a Glance	503
Human Rights and Abuses	356	<i>Case Studies</i>	534
Hospital Waste Management	357	<i>MCQs Revision Test</i>	538
Death and Euthanasia	358	<i>Bibliography</i>	549
Medicolegal Issues of Medical Records	358	<i>Index</i>	553
Hospital Emergency Service	359		
Artificial Insemination	359		
Medical Termination of Pregnancy	361		
Nullity of Marriage	361		
Divorce	362		