

Part A	Basic Surgical Techniques	1
A1	The World Health Organisation Surgical Safety Checklist	3
A2	Positioning	5
A3	Preparation	8
A4	Surgical Instruments	11
A5	Diathermy	21
A6	Local Anaesthesia	26
A7	Skin Lines and Wound Healing	34
A8	Transverse Supraumbilical Incision	37
A9	Midline Laparotomy and Paramedian Incisions	40
A10	Subcostal and Rooftop Incisions	43
A11	Pfannenstiel Incision	47
A12	Gridiron, Lanz and Rutherford Morison Incisions	50
A13	Sutures and Their Uses	53
A14	Knots and Their Uses	56
A15	Hand Tying	58
A16	Instrument Tying	60
A17	Repair of Vessels, Nerves and Tendons	64
A18	Haemostasis	67
A19	Debridement	70
A20	Management of Acute Thermal Injuries in Children	72
A21	Venepuncture, Intraosseous Access and Venous Cut-down	76
A22	Open Insertion of Tunnelled Central Venous Lines and Portacaths	82
A23	Percutaneous Insertion of Central Venous Lines and Portacaths	85
A24	Principles of Tumour Biopsy	87
A25	Skin and Muscle Biopsies	90
A26	Excision of Common Skin Lesions	92
A27	Compartment Syndrome and Lower-Limb Fasciotomy	95
A28	Plastering	98
A29	Traction and the Thomas Splint	101

A30	Tourniquets	105
A31	Drains and Drain Fixation Techniques	107
A32	Principles of Wound Management	110

Part B Head and Neck 119

B1	Layers of the Scalp and Suturing	121
B2	External and Internal Angular Dermoid Cyst	125
B3	Cleft Lip and Palate	128
B4	Lacerations to the Face, Lips, Tongue and Ears	132
B5	Ear Deformities	134
B6	Branchial Remnants	137
B7	Parotid Dissection	141
B8	Ranula and Tongue-Tie	144
B9	Excision of Thyroglossal Cyst and Fistula	147
B10	Lymph Node Biopsy	149
B11	Principles of Surgery for Lymphatic Malformations	151
B12	Tracheostomy	153
B13	Torticollis	155
B14	Burr Holes	157
B15	Ventriculoperitoneal Shunting for Hydrocephalus	159
B16	Cervical Oesophagostomy	163
B17	H-Type Tracheo-oesophageal Fistula	166

Part C Spine and Limbs 169

C1	Spina Bifida	171
C2	Forearm Manipulation and Molded Cast	174
C3	Distal Radius Wiring	178
C4	Forearm Diaphyseal Reduction and Fixation (Closed Wiring)	181
C5	Displaced Supracondylar Humeral Fracture	184
C6	Femoral Fracture and Spica Cast	188
C7	Tibial Diaphysis Fracture – External Fixation	190
C8	Infection – Washout of the Knee and Hip	192
C9	Syndactyly	195
C10	Polydactyly	198
C11	Biopsy of an Extremity Tumour	202
C12	Ingrown Toenail	204

Part D Thorax	209
D1 Chest Tube Insertion	211
D2 Thoracotomy	214
D3 Empyema	218
D4 Bronchoscopy and Removal of Foreign Body	222
D5 Oesophageal Atresia and Tracheo-oesophageal Fistula	224
D6 Right Pneumonectomy	228
D7 Right Upper Lobectomy	231
D8 Right Lower Lobectomy	234
D9 Wedge Resection	237
D10 Cannulation for Extracorporeal Life Support	239
 Part E Abdomen	 243
E1 Upper Gastrointestinal Endoscopy	245
E2 Endoscopic Management of Upper Gastrointestinal Bleeding	248
E3 Proctoscopy and Rigid Sigmoidoscopy	252
E4 Colonoscopy	254
E5 Open Pyloromyotomy	256
E6 Stamm Gastrostomy	260
E7 Percutaneous Endoscopic Gastrostomy (PEG)	263
E8 Umbilical Hernia Repair	266
E9 Epigastric and Supra-umbilical Hernia Repair	268
E10 Open Nissen Fundoplication	270
E11 Gastroschisis	273
E12 Exomphalos	275
E13 Loop Enterostomy	278
E14 Bowel Resection and Anastomosis	280
E15 Right Hemicolectomy	283
E16 Subtotal Colectomy and Ileostomy	286
E17 Small Bowel Atresia	290
E18 Malrotation and Volvulus	293
E19 Open Appendectomy	296
E20 Meckel's Diverticulum and other Vitello-intestinal Anomalies	300
E21 Intussusception	303
E22 Peritoneal Drainage	306
E23 Trauma Laparotomy	309

E24	Congenital Diaphragmatic Hernia	312
E25	Diaphragmatic Eventration	314
E26	Long-Gap Oesophageal Atresia – Gastric Pull-Up	317
E27	Duodenal Atresia	322
E28	Necrotising Enterocolitis	325
E29	Wilms Tumour	328
E30	Abdominal Neuroblastoma	331
E31	Meconium Ileus	334
E32	Rectal Biopsy	338
E33	Transanal Endorectal Pull-Through for Rectosigmoid Hirschsprung Disease	341
E34	Open Endorectal (Soave-Boley) Pull-Through	344
E35	Myomectomy for Ultrashort segment Hirschsprung Disease	349
E36	Open Swenson Procedure	353
E37	Open Duhamel Pull-Through	357
E38	Principles of Liver Surgery	361
E39	Biliary Atresia	364
E40	Choledochal Malformations	366
E41	Pancreatic Pseudocyst	369
E42	Inflammatory Bowel Disease	371

Part F Groin and Genitalia 375

F1	Exposure of the Inguinal Canal and Spermatic Cord Structures	377
F2	Inguinal Hernia and Ligation of Patent Processus Vaginalis	380
F3	Incarcerated Inguinal Hernia	383
F4	Femoral Hernia	386
F5	Acute Scrotal Exploration	389
F6	Varicocele	392
F7	Testicular Tumour	396
F8	Circumcision and Prepuceplasty	398
F9	Urethral Meatotomy and Dorsal Slit of the Foreskin	402
F10	Open Orchidopexy	404
F11	Ovarian Surgery	407
F12	Labial Adhesions and Imperforate Hymen	410
F13	Principles of Hypospadias Surgery	413
F14	Glandular and Coronal Hypospadias Repair	423
F15	Two-Stage Hypospadias Repair: Stage One	426
F16	Hypospadias Repair: Stage Two	429

Part G Urology	431
G1 Cystourethroscopy	433
G2 Urethral and Suprapubic Catheterisation	435
G3 Open Surgical Approaches to the Kidney	439
G4 Open Nephrectomy	442
G5 Pyeloplasty	445
G6 Ureteric Duplication	448
G7 Surgery for Renal Calculi	450
G8 Nephrostomy	453
G9 Vesicostomy	459
G10 Ureterostomy	461
G11 Conduit Diversion	465
G12 Ileocystoplasty	468
G13 Continent Catheterisable Conduit	471
G14 V-Quadrilateral-Z (VQZ)-plasty for Stoma	473
G15 Endoscopic Treatment of Vesicoureteric Reflux	475
G16 Ureteric Reimplantation	478
G17 Posterior Urethral Valves	482
Part H Perineum	485
H1 Perineal Injuries	487
H2 Anal Fissures and Skin Tags	490
H3 Perianal Abscess and Fistula-in-Ano	493
H4 Anterior Ectopic Anus	496
H5 Excision of Rectal Polyp	499
H6 Sacrococcygeal Teratoma	501
H7 Posterior Sagittal Anorectoplasty in Females with Perineal or Vestibular Fistulae	504
H8 Posterior Sagittal Anorectoplasty (PSARP) for Males with Recto-urethral Bulbar Fistula and Prostatic Fistula	508
H9 Posterior Sagittal Anorectoplasty (PSARP) with Laparotomy/Laparoscopy in Males with Rectal–Bladder Neck Fistulas	512
H10 Posterior Sagittal Anorectoplasty (PSARP) with Total Urogenital Mobilization for Cloacae with a Common Channel Smaller than 3 cm	515
H11 Colostomy Creation in Anorectal Malformation	519
H12 Colostomy Closure in Anorectal Malformation	522

Part I	Minimally Invasive Surgery	525
I1	Ergonomics, Heuristics and Cognitive Skills in Laparoscopic Surgery . . .	527
I2	Complications of Laparoscopic Surgery	530
I3	Energy Sources in Laparoscopic Surgery	539
I4	Minimally Invasive Repair of a Pectus Excavatum	542
I5	Thoracoscopic Lung Biopsy	547
I6	Thoracoscopic Lobectomy	550
I7	Thoracoscopic Decortication for Empyema	556
I8	Thoracoscopic Diaphragmatic Hernia Repair	558
I9	Laparoscopic Cardiomyotomy	562
I10	Laparoscopic Fundoplication	565
I11	Laparoscopic pyloromyotomy	569
I12	Laparoscopic Appendectomy	572
I13	Laparoscopic Button Placement for Antegrade Enema	575
I14	Primary laparoscopic-assisted endorectal pull-through	577
I15	Laparoscopic Duhamel Pull-Through Procedure	580
I16	Laparoscopic Splenectomy	583
I17	Laparoscopic Cholecystectomy	586
I18	Diagnostic Laparoscopy for Non palpable Undescended Testis	589
I19	Laparoscopic Fowler–Stephens Orchidopexy	592
I20	Lymphatic-Sparing Laparoscopic Varicocelectomy	595
I21	Laparoscopic Inguinal Herniotomy	598
I22	Retroperitoneoscopic Nephrectomy	601
I23	Retroperitoneoscopic Partial Nephrectomy	604
I24	Laparoscopic Dismembered Pyeloplasty	607
I25	Button Vesicostomy	611
I26	Laparoscopic-Assisted Insertion of a Peritoneal Dialysis Catheter	614
I27	Laparoscopic Repair of Duodenal Atresia	618
I28	Laparoscopic excision of Choledochal cyst and Hepatico-duodenostomy	622
I29	Management of Upper Urinary Tract Calculi	627
	Appendix Training in Paediatric Surgery	633
	Subject Index	639