

Index

a

abdominal approach
 gynaeco-urological injuries and fistula repair 441, 449–460
 midline abdominal incision 38, 94–95, 102, 451–452
 perineal versus abdominal approach 77
 surgical access to the urinary tract 94–102
 see also perineo-abdominal progression approach
 abdominal leak-point pressure (ALPP) 265–267, 590
 abdominal stoma-conduit 516–524
 abdominal straining 237–238
 abdominal suspension 281–282
 abdomino-pelvic irradiation 476–477
 absorbable anchor-sutures 132
 ACE *see* antegrade continence enema
 acontractile detrusor 582
 acquired sphincter deterioration/damage 336
 active drains 35
 acute retention 522
 Add-a-cath introducer 63
 adenocarcinoma 535–536
 adhesive-strip skin-surface retention of catheters 60–61
 age-related detrusor over-activity 231
 Allis forceps 15
 ALPP *see* abdominal leak-point pressure
 anaesthesiology 8, 28
 anal sphincter 483
 anastomosis
 gynaeco-urological injuries and fistula repair 430, 466–467
 restoration of mid-ureteric continuity 168–169
 substitution sphincter-cystoplasty 561
 urinary diversion 488–492
 anchorage
 para-urethral repair 314–315
 uretero-vesical reimplantation 142–143, 166
 urethral suspension 281
 Anderson-Hynes dismembered pyelo-ureteroplasty 197, 200–201
 ano-rectal atresia 395–398
 antegrade continence enema (ACE) 570–571
 anterior colporrhaphy 317–318, 424
 anterior fusion defects 412–414
 anterior-sector hymenotomy 372
 anterior-sector hymeno-vaginotomy 373
 anterior tibial compartment syndrome 79–81
 anterior vaginal wall prolapse 368
 antibiotics 6, 442
 appendix substitution ureteroplasty 177
 apronectomy 500–502
 areflexic detrusor 582
 artificial sphincter
 continence and incontinence 359
 cystoplasty 524, 563
 ascending colon 378–380
 asensory total cystoplasty reservoir 558
 assisted vaginal delivery 422
 atretic achalasic segments 125
 atretic vagino-urethral fistulae 400
 audio-voiding cysto-urethrography (VCUG) 585–586
 augmentation cystoplasty 543–544, 552
 autonomic overactivity 581

b

balloon retention of catheters 53–54, 443
 ball-valve obstruction 166
 bed-wetting 273
 BEPH *see* bladder-elongation psoas-hitch
 bi-manual rectal examination 372
 bio-feedback 277
 bladder augmentation 467
 bladder base 357–358
 bladder carcinoma 559–560
 bladder-elongation psoas-hitch (BEPH) procedure 149–157
 Boari flap comparison 152–153
 extended bladder-elongation psoas-hitch procedure 155–157
 gynaeco-urological injuries and fistula repair 430
 implantation of both ureters into single BEPH 151
 indications 153–155
 long-tunnel BEPH for large-calibre ureters 160–162
 principles and operative procedure 149–150
 bladder fall-back 319–320
 bladder lumen
 control of bleeding 32–33
 sphincter-cystoplasty 540–541
 bladder-neck obstruction 583
 bladder-neck opening mechanism 547
 bladder-neck sphincter mechanisms
 continence and incontinence 215–216, 219–220
 voiding and voiding inefficiency 236–237, 240
 bladder outflow disorders 583
 bladder outlet obstruction
 urodynamic evaluation 253

- bladder outlet obstruction (*cont'd*)
 - voiding and voiding
 - inefficiency 236–239, 242
- bladder pain
 - substitution cystoplasty 560
 - urodynamic evaluation 584
- bladder pressure
 - measurements 589–591
- bladder reservoir 510–515
- bladder sensation 558–559, 583–584
 - see also* hypersensation disorders
- bladder wall
 - gynaeco-urological injuries and fistula
 - repair 436–440, 456
 - pressure-reducing cystoplasty 557
 - prevention of intra-mural obstruction
 - after reimplantation 165
 - reimplantation into severely
 - trabeculated bladder 164
 - supra-trigonal bladder wall
 - mobility 141–145
 - uretero-vesical
 - reimplantation 140–145, 149–157, 160–162
 - voiding and voiding
 - inefficiency 238–239
- bleeding
 - gynaeco-urological injuries and fistula
 - repair 426, 428
 - principles, procedures, instruments,
 - and techniques 28–45
- blood supply 104, 105
- Boari flap procedure 151–153
- bowel loop-stoma 508–509
- bowel obstruction 118
- bowel-segment cystoplasty conduit 517
- bowel-segment cystoplasty
 - reservoirs 524–529, 535–536
- bowel-segment vaginal
 - substitution 377
- bowel-substitution cystoplasty
 - reservoirs 529–536
- bowel-substitution sphincter-
 - cystoplasty 542, 549–550
- bowel-substitution ureteroplasty 178
- bowel-substitution urinary
 - reservoirs 591–593
- brachytherapy 465, 475
- bradycardia 28
- Bramble clam shell ileo-
 - cystoplasty 553–555
- Brantley Scott ring retractor 87
- bulking injectables 328–329, 332–334
- bunch ligation of short gastric
 - branches 114
- Burch urethral elevation
 - procedure 283, 306–309, 316
- C**
 - caecolo-vaginoplasty 378–380, 383–384
 - Caesarean delivery
 - developmental anomalies 415
 - gynaeco-urological injuries and fistula
 - repair 422
 - calf-pressure leg supports 79–81
 - Campbell's slit-cannula introducer 62
 - carcinoma 559–560
 - catheter nephro-pyelostomy 483
 - catheters and catheter drainage
 - absorbable anchor-sutures 132
 - calibre of collecting tubing 48–52
 - catheter management and functional
 - follow-up 355–356
 - duration of catheter drainage 53
 - encrustation and changing
 - catheters 68–71
 - fenestrated catheters 45, 46–47, 127–131
 - gynaeco-urological injuries and fistula
 - repair 430, 433, 438–439, 442–444, 449, 458
 - paediatric and geriatric patients 62
 - percutaneous insertion 62–67
 - principles, procedures, instruments,
 - and techniques 45–73
 - recalibration of fibrotic track 72–73
 - reconstructive urethral incontinence
 - surgery 342, 349
 - releasable nylon loop-sling
 - stitch 132–133
 - renal pelvis and kidney 195–196
 - restoration of mid-ureteric
 - continuity 168–169
 - retaining-and-extracting loop-
 - suture 134
 - retention of catheters 53–62, 132
 - self-catheterisation 328
 - size of an indwelling catheter 45–46
 - sling-suture retention 349
 - ureter 126–134
 - urodynamic evaluation 589
 - voiding and voiding inefficiency 236
 - see also* cystoplasty; urinary diversion
 - Chambers spoon-shaped needles 25
 - Chapple-modified Yang-Monti
 - procedure 520–521
 - childbirth *see* pregnancy and childbirth
 - circle needles 23
 - circumferential catheter dressing 61
 - CISC *see* clean intermittent
 - self-catheterisation
 - clam shell ileo-cystoplasty 553–555
 - clean intermittent self-
 - catheterisation (CISC)
 - continence and incontinence 324
 - urinary diversion 510–511, 515
 - voiding and voiding inefficiency 239
 - CLPP *see* cough leak-point pressure
 - collecting tubing 48–52
 - colonic continuity 468
 - colonic diversion 505–509
 - colonic urostomy conduits 505–509
 - colpo-sacral upward and backward
 - fixation 368–369
 - combination pyelostomy/ureteric
 - stenting 195
 - communication
 - continence and incontinence 324
 - medical illustration 602
 - surgical disciplines and
 - specialisation 8–10
 - compliance 582, 590
 - concentric detrusor contraction 544
 - conduit nipple valves 517
 - conduit-stoma 498–502
 - conduit tunnel valves 517
 - conjoined Wallace uretero-conduit
 - anastomoses 490–492
 - consent 9
 - conservative hymenotomy 372
 - continence and incontinence 213–248
 - anterior colporrhaphy and Kelly
 - buttress support 317–318
 - artificial sphincter 359
 - bed-wetting 273
 - bulking injectables 328–329, 332–334
 - clinical assessment of urethral
 - repositioning 318
 - clinical selection of patients 287
 - concepts and definitions 271–272
 - cystoplasty 558–559
 - detrusor function and
 - dysfunction 230–233
 - elevating-repositioning of weak
 - urethral sphincter mechanism 225

- evaluating results of incontinence surgery 289–290
- fall-back pouch 320–321
- female urethral function 221–233
- first operation as best opportunity for success 324
- functional effect of incontinence procedures 286
- giggle incontinence 274
- hypersensation disorders 243–248
- impaired sphincteric occlusion 233
- indications and role of incontinence clinics 274
- indications for functional reconstruction 336
- instrumentation for intra-cavity urethral surgery 346–348
- International Continence Society 573–574
- intra-abdominal pressure-support of the urethra 227
- intra-mural distribution of sphincter muscle 331–332
- intrinsic sphincter deficiency 272, 275–276, 278, 318, 330–336
- laparoscopic and robotic laparoscopic colpo-suspension 317
- limitations of clinical examination 274–275
- loop-suture suspensions 282–283
- male and female urethral sphincter mechanisms 214–216
- nocturnal frequency 273
- normal elevated position of urethra and bladder base 220, 224, 227, 230
- pad testing of leakage 584–585
- pan-pelvic floor laxity 222, 319–320
- para-urethral fibrosis 325–326
- para-urethral relationships and detrusor behaviour 221–233
- para-urethral repair 307, 314–316
- patient communication and satisfaction 324
- pelvic floor muscles/exercises 222, 224, 226–227, 276–277
- percutaneous sling-suture suspension procedures 290–305
- persistent leaking after procedure 324–325, 328
- plication of the urethra 335
- pregnancy and vaginal delivery post-repositioning 319
- primary cause of stress incontinence 226
- psycho-sexual aspects 272
- pubo-urethral ligament 221
- reconstruction of the bladder base 357–358
- reconstructive sphincteroplasty 336–337, 355–357
- redployment reduction sphincteroplasty 337–339, 349–353
- removal of posterior vaginal wall support 228
- resolution of vaginal vault descent 321–322
- retrieval-positioning after previous failure 327
- retro-pubic colpo-suspension 306–307
- retro-pubic cysto-urethropexy suspension 305–306
- self-catheterisation 328
- small bladder incontinence 273–274
- sphincter terminology 217
- surgical access for urethral reconstruction 339–345, 349–354
- tension-free vaginal tape procedure 302–303
- treatment options 269–359
- urethral calibre 327–328
- urethral length/lengthening 278–279
- urethrolisis 327
- urgency incontinence 272
- urinary diversion 482, 510–515
- urine in the proximal urethra 217
- urodynamic evaluation 584–585
- uro-genital hiatus in pelvic levator floor 217–220
- varieties of urethral incontinence 272
- vesico-urethral angle 280
- vesico-urethro-vaginal descent 222–226, 229, 275, 278, 281
- voiding and voiding inefficiency 229–231, 233–242
- see also* stress incontinence; urodynamic evaluation
- continuous ambulatory monitoring 267
- continuous drainage 511
- continuous pressure monitoring 589
- continuous sutures 27
- contrast intravenous urography (IVU) 256–257
- cough leak-point pressure (CLPP) 265–267
- cough-triggered detrusor incontinence 272
- crush button retention of catheters 55
- cuffed-nipple implantation critical dimensions 136 elevating anchorage to prevent ball-valve obstruction 166 potential complications 139 severely trabeculated bladder 164 simple everted cuffed-nipple 137 split-cuffed nipple 138
- Culp-flap pyeloplasty 198–201
- Cummings-Malécot catheter 195
- cup-patch cystoplasty 552
- cutaneous ureterostomy 484–485
- cutaneous vesicostomy 487
- cystometrogram cystometry terminology and definitions 589–591 urodynamic evaluation 585
- cystoplasty 515–571 concepts and definitions 515–516 cystoplasty reservoirs 524–536 pressure-reducing cystoplasty 553–558 recto-sigmoid cystoplasty with anal sphincter control 564–571 sphincter-cystoplasty 515, 536–564 stoma-cystoplasty 515, 516–524, 541–542 substitution sphincter-cystoplasty 542–564 urethra-cystoplasty 515 urinary diversion 483 *see also* urinary diversion
- cystoplasty reservoirs 524–536 absorption problems 526 asensory total cystoplasty reservoir 558 changes in shape and dimensions 528–529 de-tubularisation 527–528, 537–539, 544

cystoplasty reservoirs (*cont'd*)
 electrolyte and metabolic disturbances 525
 elevated reservoir pressure 528
 Ghonheim inter-serosal tunnel implantation 532–533
 ileal tail ileo-caeco-cystoplasty 534
 intestinal dysfunction following resection 525–526
 Leadbetter reflux-preventing procedure 529–530
 malignant change in bowel-segment reservoirs 535–536
 Mathisen sub-serosal nipple 533–534
 mucus secretion 526
 nipple-valve uretero-intestinal implantation 533
 peristaltic contractions of bowel segments 527–528
 procedure variety and selection 536
 reflux-preventing uretero-reservoir implantation 529–530
 sphincter-cystoplasty 542, 544–545
 trans-luminal approach submucosal tunnel 530–531
 two-valve reflux-preventing ileal segment ureteric implantation 535
 ureteric-groove mucosal-regeneration tunnel 531–532
 use of bowel segments 524–526
 cystoscopy 342

d

D&C *see* dilatation and curettage
 Davis intubated ureterotomy regeneration procedure 171
 dead-space
 control of bleeding 30, 39
 gynaeco-urological injuries and fistula repair 468–470
 omentoplasty and omental inter-position 121–122
 vaginal abnormalities and vaginoplasty 383
 decentralised detrusor 582
 decortication 539–540
 desensitising bowel-substitution cystoplasty 246–248
 detrusor contraction leak-point pressure (DLPP) 265–267
 detrusorectomy 555–557
 detrusor function and dysfunction

conservative treatment of urgency incontinence 288–289
 continence and incontinence 230–233, 272–273, 287–289
 cystoplasty 542–545, 552
 disorders of detrusor motor function 581–582
 pharmacotherapy 289
 urinary diversion 513
 urodynamic evaluation 255, 261–263, 265–267, 578, 581–582
 voiding and voiding inefficiency 236
 detrusor leak-point pressure 590
 detrusor myectomy 555–557
 detrusor/sphincter dyssynergia (DSD) 583
 de-tubularisation
 cystoplasty reservoirs 527–528, 537–539, 544
 recto-sigmoid reservoir 566–567
 urodynamic evaluation 591–592
 de-vascularising procedures 111–112
 developmental anomalies
 adult female urethra and sphincter mechanism 336, 399–415
 anterior fusion defects 412–414
 atretic vagino-urethral fistulae 400
 concepts and definitions 399
 continence and incontinence 336
 intrinsic sphincteric hypoplasia 401
 para-urethral cysts 399–400
 posterior fusion defects 401–402
 pressure-reducing cystoplasty 558
 reconstructive sphincteroplasty 336
 short urethra 400
 sub-sphincter ectopic ureteric discharge 400
 urethral diverticula 404–410
 urethral fusion defects 401
 urethral strictures 411–412
 diathermy forceps 17
 diathermy scissors 18–19
 dilatation and curettage (D&C) 423
 dimple sutures 40–43
 direct tissue-apposition VOUS procedure 283–284
 dismembered pyelo-ureteroplasty 197, 200–201
 DLPP *see* detrusor contraction leak-point pressure
 double-bite dimple suture 42–43

double-catheter drainage 561
 double-diversion colonic-conduit procedure 505–506
 double-J catheter 131–132
 double scroto-penile flap 387
 double skin-stitch retaining suture 59
 dressings 45, 61
 DSD *see* detrusor/sphincter dyssynergia
 dyssynergic bladder-neck obstruction 583

e

ECDULGA *see* endoscopic cysto-distension under light general anaesthesia
 ectopia vesicae 412–413
 elastic-net knickers 45
 electrocoagulation 118
 electrolyte absorption/excretion 591
 electrolyte disturbances 525
 electromyography (EMG) 267
 elevating-repositioning of weak urethral sphincter mechanism 225
 elevating stay-suture retraction 85
 EMG *see* electromyography
 endo-calyco-lithotomy 204–205
 endoscopic cannulation 523
 endoscopic cysto-distension under light general anaesthesia (ECDULGA) 243–246
 substitution cystoplasty 560
 urodynamic evaluation 584
 endoscopic intubated ureterotomy 171
 endoscopic vaginoscopy 372
 endoscopy
 substitution sphincter-cystoplasty 562
 urodynamic evaluation 252
 vesico-vaginal fistulae 431–432
 voiding and voiding inefficiency 238–239
 enterocele
 continence and incontinence 322
 vaginal abnormalities and vaginoplasty 363–365
 EPIC *see* extra-peritoneal ileal conduit
 epidural anaesthesia 419
 epispadias
 developmental anomalies 412–414
 urethral sphincteroplasty 413–414
 Everard Williams (EW) procedure 305–306

everted stoma cuff 498–499
 evidence-based medicine 10–11
 EW *see* Everard Williams
 exaggerated dorsal position 419–420
 examination charts 578–580
 EX-BEPH *see* extended bladder-
 elongation psoas-hitch procedure
 exenteration 468–470
 extended bladder-elongation psoas-hitch
 procedure (EX-BEPH) 155–157
 extended vagino-obturator urethral shelf
 (EX-VOUS) procedure 284,
 322–323
 external beam irradiation 465, 475
 extra-luminal reflux-preventing tunnel
 reimplantation 149
 extra-peritoneal ileal conduit
 (EPIC) 488–489, 492–496, 503–505
 extra-vesical kink-obstruction of
 reimplanted ureter 142
 EX-VOUS *see* extended vagino-obturator
 urethral shelf

f

faecal stream 139
 fall-back pouch 320–321
 false passage catheterisation 522
 fascia lata 297
 fat omental aprons 119
 fenestrated omental apron 118–119
 fenestrated-shaft catheters 45, 46–47,
 127–131
 fiber-light sucker 22, 28
 filling rate 585, 589, 590
 fistulating radio-necrotic pelvic
 cavity 474–475
 flat lithotomy position 77
 flexible sucker connection tubing 16–17
 fluid-level manometry 263
 Foley catheters 65
 forceps pull-in procedure 63–64
 fore-gut malrotation 119
 free-draining surface-diversion of
 urine 482, 483–484
 catheter drainage of natural bladder
 reservoir 482–483
 catheter nephro-pyelostomy 483
 catheter ureterostomy *in situ* 484
 free-draining uretero-conduit surface-
 diversion 487–502
 conduit-stoma, stoma problems and
 solutions 498–502

conjoined Wallace uretero-conduit
 anastomoses 490–492
in situ ureteric-overlap conduit
 implantation 496–497
 pedicled-island bladder
 conduit 487–488
 short trans-peritoneal Bricker ileal
 conduit 489–490
 Turner-Warwick extra-peritoneal ileal
 conduit 488–489, 492–496
 uretero-conduit stenting
 catheters 497–498
 uretero-ileal conduit surface-
 diversion 488–489
 free-graft omentum-supported
 ureteroplasty 173–174
 free ring retractors 82–83
 frozen bladder 539–540
 frozen pelvis
 gynaeco-urological injuries and fistula
 repair 468–470, 475
 vaginal abnormalities and
 vaginoplasty 383
 full-length vagino-supra-pubic
 sub-urethral fascial sling 298

g

gastro-cystoplasty 549–550
 gastro-epiploic arch 106, 111–112
 gender reassignment 384–395
 concepts and definitions 384–385
 dimensional problems with neo-
 vaginal tunnel 385
 double scroto-penile flap 387
 genito-urinary principles 385
 neo-urethrostomy stenosis 390–391
 neuro-vascular glans reduction and
 transpositioning 393
 preservation of erogenous
 sensation 393
 push-in vaginal pack 388
 reconstructive simulation of labia
 minora 393–394
 retrieval vaginoplasty and
 vestibuloplasty 394–395
 simple inversion of penile
 skin 385–386
 spongio-vestibuloplasty neo-
 meatus 391–392
 supra-vesical sling-suture suspension
 of neo-vaginal inlay 389
 genuine stress incontinence (GSI) 272

geriatric patients 62
 Ghonheim inter-serosal tunnel
 implantation 532–533, 537–538
 Ghonheim valved recto-sigmoid
 bladder 570
 giggle incontinence 274
 Goodwin cup-patch cystoplasty 552
 gracilis muscle interposition flap 445
 Griffiths procedure 512–513
 GSI *see* genuine stress incontinence
 guide-wires 71
 guillotine parenchymal
 transection partial
 nephrectomy 209
 gynaeco-urological injuries and fistula
 repair 417–478
 bladder injuries during pelvic
 surgery 436–440
 concepts and definitions 419
 pregnancy and childbirth 419–422
 surgery of irradiated tissue 465–478
 surgical disciplines and
 specialisation 2, 4
 ureteric injuries and fistulae 428–435
 urethro-vaginal fistulae 460–464
 urological complications of obstetric
 care 419
 urological complications of pelvic and
 gynaecological surgery 423–428
 uterine pedicle vessels 426–428
 vaginal abnormalities and
 vaginoplasty 374–375, 395–398
 vagino-rectal fistulae 460
 vesico-vaginal fistula repair 441–460
 vesico-vagino-rectal fistulae 459

h

Halban procedure 367
 headlights 16
 healing potential 466
 hemorrhage *see* bleeding
 high fluid intake nocturia 273
 Hinman loop-retention suture 37
 history-taking 251, 578
 hymen 372–373
 hypersensation disorders 243–248
 desensitising bowel-substitution
 cystoplasty 246–248
 endoscopic cysto-distension under
 light general anaesthesia 243–246
 interstitial cystitis 243–244, 247–248
 pelvic pain 244

hypersensation disorders (*cont'd*)
 urethro-trigonitis and urethral syndrome 244
 urgency incontinence 272
 urodynamic evaluation 255, 583–584
 hypersensitive supra-trigonal bladder 559–560
 hypertrophic trabeculation 238–239
 hypospadias 401
 hypotension 28
 hypotrophic dysplasia 124–125
 hypotrophic trabeculation 238–239
 hysterectomy
 bladder injuries during pelvic surgery 436–440
 post-operative cautionary tale 458
 urodynamic evaluation 252
 urological complications of pelvic and gynaecological surgery 424–425
 utero-pedicle vessel ligation and division 427–428
 vaginal abnormalities and vaginoplasty 369
 vesico-vaginal fistulae 434
 voiding and voiding inefficiency 235–236

i
 idiopathic detrusor over-activity 231
 ileal segment-conduit 517, 519–521
 ileal tail ileo-caeco-cystoplasty 534, 537–539
 illumination 16
 impaired renal function 561
 impaired sphincteric occlusion 233
 incontinence *see* continence and incontinence
 indwelling ureteric catheters 126–134
 infection
 antibiotics 6, 442
 cystoplasty 523
 omentoplasty and omental inter-position 121–122
 vaginal abnormalities and vaginoplasty 383
 inferior pyelo-calycolithotomy 204–205
 inferior pyelo-calycotomy 202, 206
 inferior pyelo-parenchymal pyelolithotomy 201, 207
 inflammation 182–183
 infrequent voiding syndrome 235, 440

in situ retro-peritoneal descending colonic conduit 506–507
in situ ureteric-overlap conduit implantation 496–497
 intermittent drainage 511, 515–516
 intermittent pressure monitoring 589
 International Continence Society (ICS) 573–574
 interrupted short runs 27
 interrupted sutures 27
 interstitial cystitis
 hypersensation disorders 243–244, 247–248
 substitution cystoplasty 560
 intractable bladder pain 560
 intractable haematuria 540–541
 intra-mural distribution of sphincter muscle 331–332
 intra-vaginal training aids 277
 intravenous urography (IVU)
 historical observations and development 257
 limitations of clinical examination 256–257
 uretero-vesical reimplantation 142
 intra-vesical displacement of urine 544
 intra-vesical pressure
 compliance 582, 590
 fluid-level manometry 263
 urodynamic evaluation 585, 590
 intrinsic sphincter deficiency (ISD)
 continence and incontinence 224–226, 272, 275–276, 278, 318, 330–336
 redeployment reduction
 sphincteroplasty 337–339
 urodynamic evaluation 261, 265–266
 intrinsic sphincteric hypoplasia 401
 intrinsic urethral obstruction 237
 introital stenosis 381–383
 intubated ureterotomy regeneration procedure 171
 irradiated tissue
 continence and incontinence 356
 gynaeco-urological injuries and fistula repair 465–478
 omentoplasty and omental inter-position 121–122
 radiotherapy types and complications 465–466
 restoration of mid-ureteric continuity 181–182

salvage surgery 465, 466–468
 substitution sphincter-cystoplasty 561
 vaginal abnormalities and vaginoplasty 383
 irradiation cystoplasty 561–562
 ischaemic fistulation 437–438
 ISD *see* intrinsic sphincter deficiency
 isobaric cystometrogram 267, 560
 isometric stay-suture retraction 15–16
 isotonic stay-suture retraction 16
 IVU *see* intravenous urography

j
 JJ catheter 131–132
 junctional-ring stenosis 381

k
 Kegel's perineometer 277
 Kelly buttress support 317–318
 kidney *see* renal pelvis and kidney
 knee-shoulder position (KSP) 340–342, 349–353
 knot-reaction 26
 KSP *see* knee-shoulder position

l
 labial flap inlay 373
 labia minora 393–394
 laparoscopic colpo-suspension 317
 Laplace's law 592
 laterally curved incision 456
 lateral omento-cystoplasty 552
 Lawrence disposable slit-cannula introducer 63
 Leadbetter reflux-preventing procedure 529–530
 leak-point pressure (LPP) 265–267
 leak-proof bladder-flap vesicostomy 521–522
 leak-proof stoma-conduit 515, 516, 524
 leak-proof urethral inversion 514–515
 leak-proof valvular catheter track 513–514
 ligaclips 117
 ligation of short gastric branches 114–116
 lining-defect stenosis 381
 local irradiation brachytherapy 465, 475
 loop colostomy 508–509
 loop ileostomy 508–509
 loop-stitch retention 497–498
 loop-suture retention 196

loop-suture suspensions 282–283
 lower segment vaginal agenesis 373
 lower urinary tract 4–5
 low pelvic ureteric
 implantations 568–569
 LPP *see* leak-point pressure
 lumbotomy incision 187–188
 lymphatic drainage 104

m

MACE *see* Malone antegrade
 continence enema
 magnification 14
 Mainz II recto-sigmoid pouch
 procedure 569
 malignant change 535–536, 550
 Malone antegrade continence enema
 (MACE) 570–571
 manometry 263, 265–267
 Marshall, Marchetti, Kranz (MMK)
 procedure 305–306
 marsupialisation 406
 Martius labial-rotation flap
 continence and
 incontinence 347–348
 gynaeco-urological injuries and fistula
 repair 444–445, 449
 Mathisen sub-serosal nipple 533–534
 maximal closure pressure (MCP) 255
 maximum detrusor contraction
 pressure 287
 MCP *see* maximal closure pressure
 mechanical urethral obstruction 583
 medical illustration 595–607
 aesthetics 606
 artists and illustrators 599
 circumstantial pressures 597
 critical balance between simplicity and
 realism 602–603
 diagram as communicator 602
 drawing skills and
 illustration 606–607
 effect and value of colour 602
 from pen to Mac 605–606
 illustration versus photography 601
 illustrator/author
 collaboration 597–599
 image conception and drawing
 skills 604–605
 Richardson, Paul 595–607
 subject knowledge and
 understanding 600
 target audience 604
 training 599–600
 vectors and pixels 605
 mega-ureter
 developmental abnormalities and
 ureteric dysfunction 124–125
 exclusion of mechanical
 obstruction 162–163
 plication reduction 159
 post-reimplantation functional
 drainage efficiency 163–164
 reduction tailoring 157–158
 reimplantation of large-calibre ureters
 without tailoring 160
 variations of long-tunnel
 reimplantation 161–162
 mental diversion manoeuvre 289
 metabolic disturbances 525
 micro-surgery 14
 micturition 590–591
 mid-bulbar urethrostomy 391
 midline abdominal incision
 control of bleeding 38
 gynaeco-urological injuries and fistula
 repair 451–452
 surgical access to the urinary
 tract 94–95, 102
 mid-ureteric continuity 167–183
 anastomotic ureteroplasty 168–169
 appendix substitution
 ureteroplasty 177
 bowel substitution ureteroplasty 178
 Davis intubated ureterotomy
 regeneration procedure 171
 endoscopic intubated
 ureterotomy 171
 free-graft omentum-supported
 ureteroplasty 173–174
 omental wrapping of ureteric
 reconstructions 167
 omento-ureteroplasty 172
 pedicled island bladder
 ureteroplasty 175–176
 regeneration ureteroplasty 171
 renal auto-transplantation 171
 retro-caval ureter 178–179
 retro-peritoneal fibrosis 179–181
 substitution ureteroplasty 173
 surgical restoration options 167
 trans-uretero-ureterostomy 170–171
 ureteric and para-ureteric
 inflammation 182–183

ureteric calculi and ureterotomy 179
 ureteric obstruction by irradiation
 fibrosis 181–182
 Mitrofanoff appendix-conduit
 procedure 518–519
 MMK *see* Marshall, Marchetti, Kranz
 modified Culp-flap
 pyeloplasty 199–201
 modified jack-knife prone position 82
 Moschcowitz purse-string 366
 mucus retention
 cystoplasty 523
 vaginal abnormalities and
 vaginoplasty 377, 379–380
 mucus secretion 526, 550
 multi-channel pressure cystometry with
 uroflowmetry 264
 multiple vesical-patch omento-
 vesicoplasty 557–558
 myo-cutaneous flap 470

n

needle feed-round 24
 needle-holders 20–23
 neo-urethrostomy stenosis 390–391
 neo-vaginal introital
 narrowing 381–383
 neo-vagino-rectal fistulae 374–375
 nephrostomy drainage 483
 neurogenic detrusor
 overactivity 581–582
 neuropathic dysfunction
 detrusor over-activity 231
 reconstructive
 sphincteroplasty 336–337
 urodynamic evaluation 584
 vesico-urethral dysfunction 560
 neuro-vascular glans reduction and
 transpositioning 393
 nipple-valve procedures 529, 533–534
 nocturnal frequency 273
 nocturnal polyuria 273
 non-absorbable ligatures 117
 non-dismembered uretero-
 calycostomy 207–208
 non-reflexic detrusor 582

o

obesity and overweight
 continence and incontinence 356
 urinary diversion 500–502
 objective urodynamic evaluation 2–3

oblique conduit exit-tunnel 499–500
 obstruction related detrusor
 over-activity 231
 obstructive sphincteric behaviour 583
 occlusive subcutaneous suturing 39
 omental herniation 119–120
 omental tamponade 30–31
 omento-cystoplasty 539–540, 550–552
 omentoplasty and omental inter-
 position 103–122
 blood supply 104, 105
 bowel obstruction and routing of
 omental pedicle 118
 complications of
 electrocoagulation 118
 deficiencies of the omentum 119
 de-vascularising procedures 111–112
 failure of omental transposition fistula
 repairs 120
 fat and thin omental aprons 119
 fenestrated omental apron 118–119
 full-length mobilisation of vascular
 pedicle 109–110, 113
 gastro-epiploic arch 106, 111–112
 gynaeco-urological injuries and fistula
 repair 445, 455, 466–467
 late complications of
 omentoplasty 119–120
 ligation of short gastric
 branches 114–116
 lymphatic drainage 104
 mobilisation of long omental
 apron 108
 non-absorbable ligatures 117
 occlusion of post-irradiation pelvic
 dead-space infections 121–122
 omental elongation by horizontal
 incision 113
 omental herniation 119–120
 para-operative complications of
 omentoplasty 118
 partial vascular mobilisation of mid-
 length omental apron 109
 redployment into the pelvis 107
 restoration of mid-ureteric
 continuity 167, 172
 retro-colic protection of root
 vessels 116–117
 shortcomings of ligaclips 117
 special applications 120–121
 surgical transposition of the
 omentum 104–105

surgical value of omental
 redployment 104
 traction-rupture of last undivided
 short gastric vessel 116
 urodynamic activity of omental
 tissue 104
 vaginal abnormalities and
 vaginoplasty 374, 375
 vessel ligation technique 115
 omento-renal wrap 211
 omento-ureteric wrap 167, 430
 open-channel intra-luminal
 procedure 148
 optical urethrotome 38
 original Culp-flap pyeloplasty 198
 osteomyelitis 463–464
 Otis urethrotome 72–73
 ovarian tumour 476–477
 ovarian vessels 426–427
 over-active bladder 511
 over-active detrusor
 continence and
 incontinence 231–233, 272–273,
 287–289
 urodynamic evaluation 255,
 261–263, 581–582
 over-distension 437–438

p

pad testing of leakage 584–585
 paediatric patient
 catheters and catheter drainage 62
 continence and incontinence 273
 urinary diversion 482
 pan-pelvic floor laxity
 continence and incontinence 222,
 319–320
 vaginal abnormalities and
 vaginoplasty 362
 PAPA *see* perineo-abdominal progression
 approach
 para-stomal herniation 499–500
 para-ureteric inflammation 182–183
 para-urethral cysts and abscesses
 developmental anomalies 399–400
 gynaeco-urological injuries and fistula
 repair 424
 para-urethral fibrosis 325–326
 para-urethral repair (PUR) 307,
 314–316
 Parkhouse needle-holders 23
 Parks ano-rectal retractor 87
 partial bowel substitution
 cystoplasty 524, 542–545, 552
 partial nephrectomy
 procedures 209–211
 guillotine parenchymal
 transection partial
 nephrectomy 209
 omento-renal wrap 211
 retrograde calyceo-parenchymal partial
 nephrectomy 210
 partial pubectomy 95–96
 passive drains 35
 passive urethral resistance 328
 patient assessment and selection 562
 patient expectations 8–9, 324
 patient refusal 561
 pedicled flaps of skeletal muscle 444
 pedicled-island bladder (PIB)
 conduit 487–488
 pedicled island bladder ureteroplasty
 (PIBU) 175–176
 pedicled island-skin-flap vaginal
 substitution 376–377
 pelvic dead-space
 infections 121–122, 383
 pelvic floor muscles/exercises 222, 224,
 226–227, 276–277
 pelvic fracture 461–462
 pelvic levator floor 217–220
 pelvic pain 244
 pelvic surgery 4
 pelvic wall 34
 pelvi-ureteric junction (PUJ)
 obstruction 196–201
 pelvi-ureteroplasty 196–197, 200–201
 penile skin
 marginal skin folding 393–394
 simple inversion 385–386
 percutaneous insertion of
 catheters 62–67
 percutaneous sling-suture
 suspension 290–305
 donor site options for fascial strips 298
 full-length vagino-supra-pubic
 sub-urethral fascial sling 298
 principles and operative
 procedure 290–291
 Raz four-corner suspension
 procedure 294
 Raz-Pereyra suspension
 procedure 293
 results and complications 295, 305

- retro-pubic fascial sling
 - procedure 304
 - short sling-on-a-string
 - modification 299–300–2
 - Stamey–Pereyra procedure 291–292
 - sub-urethral sling
 - procedures 295–297
 - tension-free vaginal tape
 - procedure 302–303
 - percutaneous surface retention of
 - catheters 59–60
 - peri-catheter leakage 511
 - peri-introital pre-vaginal approach
 - reconstructive urethral incontinence surgery 343, 345
 - surgical access to the urinary tract 92–93
 - vaginal abnormalities and vaginoplasty 373
 - perineal access drapes 81–82
 - perineal lithotomy position 447
 - perineal stay-suture retraction 86
 - perineal vaginal push-up elevation 281
 - perineo-abdominal progression
 - approach (PAPA)
 - continence and incontinence 307
 - gynaeco-urological injuries and fistula repair 425, 441, 447–449, 454
 - reconstruction of the bladder
 - base 357–358
 - reconstructive urethral incontinence surgery 340
 - surgical access to the urinary tract 77, 78
 - perineo-trans-vesical
 - reconstruction 357–358
 - peristalsis
 - contractions of bowel
 - segments 527–528, 543
 - ureteric surgery 126
 - peri-stomal skin distortion 500
 - peritoneal flaps 444
 - peri-ureteric retro-peritoneal fat 126
 - peri-urethral tethering 336
 - persistent leaking
 - continence and
 - incontinence 324–325, 328
 - urinary diversion 511
 - Pfannenstiel incision
 - continence and incontinence 307
 - gynaeco-urological injuries and fistula repair 425, 451, 458
 - surgical access to the urinary tract 97
 - PIB *see* pedicled-island bladder
 - PIBU *see* pedicled island bladder
 - ureteroplasty
 - pick-up forceps 15
 - pigtail catheter 131–132
 - pipe stem urethra 330
 - Plevnik's weight training cones 277
 - plication of the urethra 335
 - plication reduction 159
 - Politano–Leadbetter procedure 147
 - post-anchored ring retractors 82–83
 - posterior fusion defects 401–402
 - posterior vaginal wall prolapse 363–365
 - post-irradiation fibrosis 181–182, 470
 - post-irradiation pelvic dead-space
 - infections 121–122, 383
 - postoperative foreshortening 145–146
 - post-voiding residual urine
 - limitations of clinical examination 256
 - substitution sphincter-cystoplasty 563
 - urodynamic evaluation 238, 256, 591
 - pregnancy and childbirth
 - continence and incontinence 319
 - developmental anomalies 415
 - gynaeco-urological injuries and fistula repair 419–423, 434
 - preservation sphincter-cystoplasty 539
 - pressure dressings 45
 - pressure-reducing cystoplasty 553–558
 - pre-vaginal approach 343, 345, 353–354
 - pre-vaginal introital incision 91
 - processed cadaveric fascia 297
 - progression urethral dilatation 242
 - prolonged labour 422
 - prone-position access
 - gynaeco-urological injuries and fistula repair 447–448
 - modified jack-knife prone position 82
 - reconstructive urethral incontinence surgery 339–340
 - prophylactic antibiotics 6, 442
 - prophylactic resection 379–380
 - provocative cystometry 581
 - proximal bowel diversion 468
 - proximal bulbar urethral stenosis 391
 - proximal urethra 217
 - psycho-sexual aspects 272
 - pubiotomy procedure 422
 - pubo-urethral ligament 221
 - PUJ *see* pelvi-ureteric junction
 - PUR *see* para-urethral repair
 - push-in vaginal pack 388
 - pyelo-lithotomy 201–207
 - pyelostomy catheters 195–196
- r**
- radiation therapy *see* irradiated tissue
 - Raz four-corner suspension
 - procedure 294
 - Raz–Pereyra suspension procedure 293
 - reconstructive hymenoplasty 372
 - reconstructive sphincteroplasty
 - catheter management and functional follow-up 355–356
 - developmental anomalies 402–403
 - indications for functional reconstruction 336–337
 - operative procedure 402–403
 - primary treatment for stress incontinence 356–357
 - urethral diverticula 406–409
 - rectal segment vaginoplasty 380–381
 - rectocele 363–365
 - recto-sigmoid cystoplasty with anal
 - sphincter control 564–571
 - de-tubularisation of the recto-sigmoid
 - reservoir 566–567
 - Ghonheim valved recto-sigmoid
 - bladder 570
 - Mainz II recto-sigmoid pouch
 - procedure 569
 - Malone antegrade continence
 - enema 570–571
 - options for a recto-sigmoid
 - bladder 567–568
 - site of ureteric
 - implantations 568–569
 - three option uretero-sigmoidostomy 565
 - uretero-sigmoidostomy 564–565
 - recto-sigmoid stenosis 471–472
 - recto-vaginal fistula
 - development 395–398
 - recto-vaginal peritoneal pouch 365–367
 - rectus abdominis sheath 297
 - redployment reduction
 - sphincteroplasty 337–339
 - operative procedure 349–353
 - retrieval after incontinence procedure failure 356
 - rediversion 501–505

- reduction-tailoring
 - ileal segment-conduit 519
 - large-calibre ureters 157–158
- reflux-preventing ureteric
 - implantation 135–139
- critical dimensions of cuffed-nipple
 - implantation 136
- critical dimensions of tunnel
 - implantation 135
- cystoplasty reservoirs 529–530
- extra-luminal reflux-preventing
 - tunnel reimplantation 149
- ileal segment 535
- implantation procedural options 135
- potential complications 139
- reimplantation of large-calibre ureters
 - without tailoring 160
- simple everted cuffed-nipple 137
- split-cuffed nipple 138
- regeneration ureteroplasty 171
- relative outlet obstruction
 - substitution sphincter-cystoplasty 545–548
- voiding and voiding
 - inefficiency 236–237, 242
- renal auto-transplantation 171
- renal extension 101
- renal pelvis and kidney 185–211
 - Anderson-Hynes dismembered pyelo-ureteroplasty 197, 200–201
 - arterial supply to lower pole of kidney 203
 - combination pyelostomy/ureteric stenting 195
 - Cummings-Malécot catheter 195
 - functional reconstruction of pelvi-calyceal system 186
 - inferior pyelo-calyco-lithotomy and endo-calyco-lithotomy 204–205
 - inferior pyelo-calycotomy 202, 206
 - loop-suture retention of pyelostomy catheters 196
 - lumbotomy incision 187–188
 - modified Culp-flap
 - pyeloplasty 199–201
 - non-dismembered uretero-calycostomy 207–208
 - original Culp-flap pyeloplasty 198
 - partial nephrectomy
 - procedures 209–211
 - patient positioning for loin access 186–187
 - pelvi-ureteric junction obstruction and
 - pelvi-ureteroplasty 196–201
 - pyelo-lithotomy 201–207
 - shortcomings of rib-resection and sub-costal incision 193
 - supra-costal incision 189–194
 - supra-pubic V incision 193–194
 - surgical access to kidney and upper ureter 186–194
 - resealable nylon loop-stitch 497–498
 - residual tumour cells 470
 - residual urine
 - limitations of clinical examination 256
 - substitution sphincter-cystoplasty 563
 - urodynamic evaluation 238, 256, 591
 - retaining-and-extracting
 - loop-suture 134
 - retractors 82–88, 346
 - retrieval-positioning after previous failure 327
 - retrieval vaginoplasty and
 - vestibuloplasty 394–395
 - retro-caval ureter 178–179
 - retro-colic protection of root vessels 116–117
 - retrograde calyco-parenchymal partial nephrectomy 210
 - retro-peritoneal conduit 494–495
 - retro-peritoneal fibrosis 179–181
 - retro-pubic colpo-suspension 306–307
 - retro-pubic cysto-urethropexy
 - suspension 305–306
 - retro-pubic fascial sling procedure 304
 - retro-pubic incontinence procedure 284
 - retro-pubic space 94–95, 452
 - retro-pubic suspension 368
 - retro-pubic tissue-apposition VOUS
 - suspensions 319
 - rib-resection 193
 - Richardson, Paul 595–607
 - ring retractors 82–87
 - ring-substitution 374
 - robotic-assisted laparoscopic
 - colpo-suspension 317
 - round-ligament suspension of the uterus 370–372

S

 - sacro-spinous fixation 368
 - safe area for endoscopic cannulation (SAFEC) 523–524
 - salvage surgery 465, 466–468
 - Schuchardt's vaginal
 - introitoplasty 89–90
 - sectorisation-haemostasis 28
 - selective incisional relaxation
 - 240–241
 - self-catheterisation
 - continence and incontinence 328
 - cystoplasty 515–524, 549, 561
 - urinary diversion 510–511, 515
 - sex function
 - gender reassignment 393
 - vaginal abnormalities and
 - vaginoplasty 368
 - shaving procedure 75–76
 - short gastric branches 114–116
 - short sling-on-a-string
 - modification 299–300–2
 - short trans-peritoneal Bricker ileal conduit 489–490
 - short urethra 400
 - sigmoid colo-vaginoplasty 377
 - simple everted cuffed-nipple 137
 - single-bite dimple suture 40–41
 - single-channel cystometry 264
 - skin-fold test 15
 - skin-hooks 15
 - skin surface distortion 500–502
 - sling-on-a-string
 - modification 299–300–2
 - sling-stitch introducers 66
 - sling-stitch retention of
 - catheters 55, 449
 - sling-suture retention of catheters 55, 66–67, 349
 - sling-suture suspension 290–305
 - donor site options for fascial strips 298
 - full-length vagino-supra-pubic
 - sub-urethral fascial sling 298
 - principles and operative
 - procedure 290–291
 - Raz four-corner suspension
 - procedure 294
 - Raz-Pereyra suspension
 - procedure 293
 - results and complications 295, 305
 - retro-pubic fascial sling
 - procedure 304
 - short sling-on-a-string
 - modification 299–300–2
 - Stamey-Pereyra procedure 291–292

- sub-urethral sling
 - procedures 295–297
- tension-free vaginal tape
 - procedure 302–303
- small bladder incontinence 273–274
- small-calibre stoma-conduits 517–519
- space-occupying caecolo-neo-
 - vaginoplasty 470
- specialisation *see* surgical disciplines and specialisation
- sphincter-cystoplasty 536–564
 - augmentation
 - cystoplasty 543–544, 552
 - bowel segment cystoplasty
 - reservoirs 524–529
 - bowel-substitution sphincter-
 - cystoplasty 542
 - concepts and definitions 515
 - frozen bladder 539–540
 - intractable haematuria 540–541
 - musculo-dynamic behaviour of bowel
 - segments 542–545
 - partial bowel substitution
 - cystoplasty 542–545, 552
 - preservation sphincter-
 - cystoplasty 539
 - restoration of bladder capacity 539
 - stoma-cystoplasty 541–542
 - substitution sphincter-
 - cystoplasty 539, 542–564
 - surgical reduction of reservoir
 - pressure 544–545
 - temporary occlusion of bladder
 - lumen 540–541
- sphincter recalibration 547–548
- splinting catheters 45
- split-cuffed nipple 138
- spongio-vestibuloplasty neo-
 - meatus 391–392
- spoon-shaped needles 25
- Stamey–Pereyra procedure 291–292
- stay-sutures 15–16, 449
- stenting catheters 45
 - gynaeco-urological injuries and fistula
 - repair 430
 - restoration of mid-ureteric
 - continuity 168–169
 - urinary diversion 497–498
- still-film voiding cysto-urethrogram
 - (VCUG) 256
- Sting injection procedure 140
- stitch-bite 38
- stoma clinics 498
- stoma-conduit drainage 568–569
- stoma-cystoplasty 516–524
 - artificial sphincter control 524
 - availability and creation of stoma-
 - conduits 516–517
 - bowel segment cystoplasty
 - reservoirs 524–529
 - complications and their
 - prevention 522–523
 - concepts and definitions 515
 - Mitrofanoff appendix-conduit
 - procedure 518–519
 - safe area for endoscopic
 - cannulation 523–524
 - small-calibre stoma-
 - conduits 517–519
 - sphincter-cystoplasty 541–542
 - stoma site selection 522
 - Yang-Monti procedure and Chapple
 - modification 520–521
- stoma hypermobility 500–502
- stoma stenosis 522–523
- stone formation 523
- stop-test 233, 255, 259–261
- stress incontinence
 - concepts and definitions 272
 - first operation as best opportunity for
 - success 324
 - primary cause 226, 275, 278
 - reconstructive
 - sphincteroplasty 356–357
 - redeployment reduction
 - sphincteroplasty 337–339, 349–353
 - surgical disciplines and
 - specialisation 5
 - treatment options 275–278, 281, 287–288
 - urodynamic evaluation 261–263
- striated urethral sphincter muscle 215
- sub-costal incision 193
- subcutaneous sutures 40–43
- subdermal sutures 44–45
- submucosal tunnels 529, 530–531
- subserosal tunnels 529
- sub-sphincter ectopic ureteric
 - discharge 400
- substitution sphincter-
 - cystoplasty 542–564
 - complications and
 - management 561–564
 - extent of a substitution
 - cystoplasty 552–560
 - functional aspects of partial bowel
 - substitution cystoplasty 542–545
 - restoration of bladder capacity 539
 - sphincteric function and
 - dysfunction 545–549
 - substitution options and
 - complications 549–552
 - substitution ureteroplasty 173
 - substitution urethroplasty 402
 - subtotal substitution cystoplasty 524, 558–560
 - subtracted cystometry 585
 - sub-ureteric Sting injection
 - procedure 140
 - sub-ureteric subtotal cystoplasty 559
 - sub-urethral fascial slings 296–302
 - sub-urethral sling procedures 295–302
 - suction drains 36
 - supine PAPA approach 340
 - supra-costal incision 189–194
 - supra-iliac ureteric implantations 569
 - supra-pubic catheters
 - encrustation and changing
 - catheters 68–71
 - gynaeco-urological injuries and fistula
 - repair 438–439, 443–444, 449, 458
 - insertion 62, 66–67
 - recalibration of fibrotic track 72–73
 - retention 56–58, 60, 66–67
 - urinary diversion 511–512
 - voiding and voiding inefficiency 236
 - supra-pubic cross incision 102, 451–452
 - supra-pubic cystoscopy 73
 - supra-pubic trans-vesical
 - injection 333–334
 - supra-pubic urethral
 - transpositioning 512–513
 - supra-pubic V incision
 - gynaeco-urological injuries and fistula
 - repair 425, 451
 - surgical access to the renal pelvis and
 - kidney 193–194
 - surgical access to the urinary
 - tract 97–101
 - supra-trigonal bladder wall
 - mobility 141–145
 - supra-trigonal denervation 246–248
 - supra-urethral diverticulectomy 410
 - supra-urethral urethroplasty 410
 - supra-vesical approach 454, 456–457

- supra-vesical sling-suture suspension 389
 - surface ureterostomy/vesicostomy diversion 484–487
 - cutaneous ureterostomy 484–485
 - cutaneous vesicostomy 487
 - ureterostomy stenosis 485–487
 - surgical access
 - abdominal approach 94–102, 441, 449–460
 - Burch procedure 307
 - calf-pressure leg supports 79–81
 - cystoplasty 530–531
 - distal retraction of inferior margin 99
 - flat lithotomy position 77
 - knee-shoulder position 340–342, 349–353
 - laterally curved incision 456
 - lumbotomy incision 187–188
 - midline abdominal incision 94–95, 102, 451–452
 - modified jack-knife prone position 82
 - partial pubectomy 95–96
 - patient positioning for loin access 186–187
 - peri-introital pre-vaginal approach 92–93, 343, 345, 373
 - perineal access drapes 81–82
 - perineal lithotomy position 447
 - perineal versus abdominal approach 77
 - perineo-abdominal progression approach 77, 78, 307, 340, 357–358, 425, 441, 447–449, 454
 - Pfannenstiel incision 97, 425, 451, 458
 - preparation and shaving 75–76
 - pre-vaginal approach for VOUS 353–354
 - pre-vaginal introital incision 91
 - principles 75
 - prone-position access 339–340, 447–448
 - reconstructive urethral incontinence surgery 339–345
 - renal pelvis and kidney 186–194
 - retraction, retractors, and assistants 82–88, 425
 - retro-pubic space 94–95
 - shortcomings of rib-resection and sub-costal incision 193
 - supra-costal incision 189–194
 - supra-pubic cross incision 102, 451–452
 - supra-pubic V incision 193–194, 425, 451
 - supra-urethral approach for urethral diverticula 410
 - supra-vesical approach 454, 456–457
 - trans-luminal approach 530–531
 - trans-vaginal approach to the urethra 90–91
 - trans-vaginal vaginotomy approach 344
 - trans-vesical approach 453
 - Turner-Warwick supra-pubic V incision 97–101
 - urinary diversion 494
 - urinary tract 75–102
 - urodynamic evaluation 589
 - vaginal access and Schuchardt's vaginal introitoplasty 89–90
 - vaginal approach 441, 445–451
 - vesico-urethral reconstruction 89
 - surgical disciplines and
 - specialisation 1–11
 - communication and patient expectations 8–9
 - complexities of functional restorations 4
 - consent versus request 9
 - emergence of functional reconstruction 3
 - good medical practice 6–7
 - guidelines and evidence-based medicine 10–11
 - objective urodynamic evaluation 2–3
 - practicalities and logistics of specialisation 7–8
 - reconstructive surgery and functional restoration 2
 - referral 6–7, 441
 - rights and wrongs 3–4
 - right surgeon for the right job 5
 - strategic thinking and retreat 6
 - sub-specialisation within urological surgery 2
 - sub-specialist training 4
 - terminology 9–10
 - tertiary referral centres 7
 - tissue healing 6
 - TITBAPIT principle 5–6
 - urinary tract function and dysfunction 3
 - wider team and facilities 8
 - sutures and suturing
 - continence and incontinence 290–316
 - control of bleeding 32–33, 37–45
 - gynaeco-urological injuries and fistula repair 442, 449, 467
 - omentoplasty and omental inter-position 117
 - principles, procedures, instruments, and techniques 15–16, 20–27
 - releasable nylon loop-sling stitch 132–133
 - restoration of mid-ureteric continuity 168–169
 - retaining-and-extracting loop-suture 134
 - retention of catheters 59–60
 - substitution sphincter-cystoplasty 561
 - surgical access to the urinary tract 85–86, 100
 - vaginal abnormalities and vaginoplasty 366–367
 - synchronous perineo-abdominal access 89
 - synchronous video-pressure-flow cystourethrography (VPFCUG) 586–589
 - historical development 576, 578
 - neuropathic bladder dysfunction 584
 - procedure 586–588
 - technical points 589
 - urodynamicist experience 586
- t**
- tamponade 30–34
 - TAV *see* time-and-volume
 - Teale's gorget 88
 - temporary de-functioning diversion 508
 - temporary diversion 501–505
 - temporary proximal bowel diversion 119, 468
 - tension-free vaginal tape (TVT) procedure 302–303
 - terminal ileum 526
 - termination of pregnancy 423
 - tertiary referral centres 7
 - thin omental aprons 119
 - three-option progression (TOP) procedure principle 441, 448, 451

- three option uretero-sigmoidostomy (TOUS) 565
 - three-sponge test 432–433
 - time-and-volume (TAV) voiding chart 250, 253–255, 273–275
 - tissue forceps 15
 - tissue healing 6
 - tissue-interposition 6, 444–445
 - tissue preservation 482
 - tissue suck-in 36
 - TITBAPIT principle
 - gynaeco-urological injuries and fistula repair 466
 - pressure-reducing cystoplasty 558
 - surgical disciplines and specialisation 5–6
 - TOP *see* three-option progression
 - total reservoir-substitution neo-cystoplasty 536
 - total substitution cystoplasty 524, 558–560
 - TOUS *see* three option uretero-sigmoidostomy
 - trabeculated bladder
 - uretero-vesical reimplantation 164
 - voiding and voiding inefficiency 238–239
 - traction-rupture of last undivided short gastric vessel 116
 - trans-luminal approach submucosal tunnel 530–531
 - trans-parenchymal pyelo-lithotomy 201
 - trans-pelvic pyelo-lithotomy 201
 - trans-uretero-ureterostomy 170–171
 - trans-vaginal approach to the urethra 90–91
 - trans-vaginal urethral diverticulectomy 406
 - trans-vaginal vaginotomy approach 344
 - transverse colestomy 119
 - trans-vesical approach 453
 - traumatic bladder deficiencies 558
 - traumatic urethral injuries 336–337
 - trial of labour 422
 - tubing stop retention of catheters 55
 - tubularised leak-proof intra-vesical urethral extension valves 515
 - tunnel implantation
 - critical dimensions 135
 - uretero-vesical reimplantation 143–149, 160–162
 - tunnel-valve procedures 529
 - Turner-Warwick extra-peritoneal ileal conduit (T-W EPIC) 488–489, 492–496, 503–505
 - Turner-Warwick (T-W) diathermy system 17–22
 - Turner-Warwick (T-W) perineal/vaginal ring retractor 85–86
 - Turner-Warwick (T-W) posterior urethral retractor 87
 - Turner-Warwick (T-W) supra-pubic V incision 97–101
 - Turner-Warwick (T-W) universal abdomino-perineal ring retractor 82–85, 346, 448
 - Turner-Warwick (T-W) vagino-obturator urethral shelf procedure 306–316
 - Burch procedure 306–309, 316
 - functional and surgical principles 281–285, 309–310
 - modifications 313
 - operative procedure 310–311
 - pregnancy and vaginal delivery post-repositioning 319
 - results and complications 314
 - symmetry of colpo-suspension 312
 - TVT *see* tension-free vaginal tape
 - T-W *see* Turner-Warwick
 - T-W EPIC *see* Turner-Warwick extra-peritoneal ileal conduit
 - two-valve reflux-preventing ileal segment ureteric implantation 535
- U**
- ultrasonography 563
 - ultrasound cysto-dynamogram (USCD)
 - catheter management and functional follow-up 355
 - fall-back pouch 321
 - historical observations and development 257
 - practical requirements 258–259
 - roles and personnel 268
 - umbilectomy 500
 - under-active bladder 511
 - under-active detrusor 236, 582
 - undiversion 501–505
 - untailored ileal segment-conduit 517
 - UPP *see* urethral pressure profile
 - upper urinary tract 4
 - upward and diversion forward ventri-suspension 369
 - urea content of discharge 431, 432–433
 - ureter 123–183
 - absorbable anchor-sutures 132
 - catheters and catheter drainage 126–134
 - cystoplasty reservoirs 529–536
 - developmental abnormalities and ureteric dysfunction 124–125
 - fenestrated catheters 127–131
 - functional anatomy 124
 - functional evaluation of the upper urinary tract 267–268
 - gynaeco-urological injuries and fistula repair 426–435
 - mobilisation and vascularisation 126
 - open-channel intra-luminal procedure 148
 - recto-sigmoid cystoplasty with anal sphincter control 568–569
 - reflux-preventing ureteric implantation 135–139, 149
 - releasable nylon loop-sling stitch 132–133
 - restoration of mid-ureteric continuity 167–183
 - retaining-and-extracting loop-suture 134
 - surgical principles 126
 - uretero-vesical junction and ureteric reflux 125–126
 - uretero-vesical reimplantation 140–166
 - ureteric calculi 179
 - ureteric-groove mucosal-regeneration tunnel 531–532
 - ureteric obstruction 468
 - ureteric stenosis 489
 - ureteric stenting 195
 - uretero-conduit stenting
 - catheters 497–498
 - uretero-ileal conduit surface-diversion 488–489
 - uretero-intestinal implantation 489, 533
 - uretero-sigmoidoscopy 483
 - uretero-sigmoidostomy
 - recto-sigmoid cystoplasty with anal sphincter control 564–565
 - three option uretero-sigmoidostomy 565
 - ureterostomy *in situ* 484
 - ureterostomy stenosis 485–487

- uretero-vesical reimplantation 140–166
 - bladder-elongation psoas-hitch procedure 149–157, 160–162
 - Boari flap procedure 151–152
 - differential mobility of bladder wall 140–141
 - elevating anchorage to prevent ball-valve obstruction 166
 - exclusion of mechanical obstruction 162–163
 - extra-luminal reflux-preventing tunnel reimplantation 149
 - extra-vesical kink-obstruction of reimplanted ureter 142
 - gynaeco-urological injuries and fistula repair 430
 - natural preservation of trigonal advancement tunnel length 146
 - plication reduction 159
 - post-operative extra-vesical distortion-obstruction 141, 147
 - post-reimplantation functional drainage efficiency 163–164
 - prevention of intra-mural obstruction after reimplantation 165
 - procedural options 140
 - reduction tailoring for large-calibre ureters 157–158
 - reflux-preventing reimplantation of large-calibre ureters without tailoring 160
 - severely trabeculated bladder 164
 - sub-ureteric Sting injection procedure 140
 - supra-trigonal bladder wall mobility 141–145
 - variations of long-tunnel reimplantation of large ureters 161–162
- uretero-vesico-vaginal fistulae 473
- urethra 90–91
- urethra-cystoplasty 515
- urethral calibre
 - continence and incontinence 327–328
- urodynamic evaluation 253
- voiding and voiding inefficiency 241–242
- urethral closure
 - urinary diversion 511–513
 - urodynamic evaluation 583
- urethral dilators 66
- urethral-disruption fistulae 461–462
- urethral distortion-obstruction 237–238, 546
- urethral diverticula
 - anatomical considerations 404
 - clinical considerations 405
 - developmental anomalies 404–410
 - diverticulectomy with reconstructive sphincteroplasty 406–409
 - gynaeco-urological injuries and fistula repair 424, 460
 - identification and diagnosis 405
 - marsupialisation 406
 - supra-urethral approach 410
 - trans-vaginal urethral diverticulectomy 406
 - treatment options 405–406
- urethral elevation-suspension 320–321
- urethral fusion defects 401
- urethral hyper-mobility 275
- urethral kinking descent 242
- urethral leakage 511–512
- urethral length/lengthening 278–279
- urethral pressure profile (UPP) 255, 278
- urethral shelf-elevation 353
- urethral sphincter mechanisms
 - bulking injectables 333
 - developmental anomalies 399–415
 - gynaeco-urological injuries and fistula repair 460, 467
 - indications for functional reconstruction 336
 - intra-mural distribution of sphincter muscle 331–332
 - male and female anatomy and functional competence 214–216
 - para-urethral fibrosis 325–326
 - plication of the urethra 335
 - primary continence mechanism 232–233
 - reconstruction of the bladder base 357–358
 - substitution cystoplasty 560
 - surgical re-elevation for stress incontinence 278
- urodynamic evaluation 255, 259–261, 265–267, 583
- vesico-urethro-vaginal descent 225–226
- voiding and voiding inefficiency 237, 241–242
- urethral strictures 411–412
- urethral suspension 281–282
- urethral syndrome 244
- urethrolysis 327
- urethro-trigonitis 244
- urethro-vaginal cloacal fistulae 401–402
- urethro-vaginal fistulae 460–464
- urethro-vaginal prolapse 222–226
- urgency incontinence 272, 288–289
- uri-bags 48–52
- urinary diversion 479–515
 - bladder reservoir 510–515
 - colonic urostomy conduits and colonic diversion 505–509
 - free-draining surface-diversion of urine 482, 483–484
 - free-draining uretero-conduit surface-diversion 487–502
 - practicalities of urinary waste disposal 481–482
 - surface ureterostomy/vesicostomy diversion 484–487
 - surgical and reconstructive options 482–483
 - temporary diversion, undiversion, and rediversion 501–505
 - timing of surgery in children 482
 - tissue preservation 482
 - see also* cystoplasty
- urodynamic evaluation 249–268
 - autonomic overactivity 581
 - bowel substitution urinary reservoirs 591–593
 - clinical options 250
 - concepts and definitions 249–250
 - continuous ambulatory monitoring 267
 - cystometrogram and video-cystometro-urethrography 585
 - detrusor function and dysfunction 255, 261–263, 265–267, 581–582
 - disorders of bladder outflow 583
 - disorders of detrusor motor function 581–582
 - disorders of sensation 255, 583–584
 - electromyography 267
 - endoscopy 252
 - examination charts 578–580
 - fluid-level manometry 263

- functional evaluation of the upper urinary tract 267–268
 - historical development 574–576
 - history-taking 251, 578
 - importance before surgical procedures 287–288
 - International Continence Society 573–574
 - leak-point pressure 265–267
 - limitations of clinical examination 252–257
 - manometric assessment of sphincteric competence 265–267
 - monitoring and follow-up 563
 - multi-channel pressure cystometry with uroflowmetry 264
 - pad testing of leakage 584–585
 - post-voiding residual urine 238, 256
 - procedural options 576–577
 - res urodynamica 573–593
 - roles and personnel 268
 - simple and complex procedures 250–251
 - single-channel cystometry 264
 - stop-test 233, 255, 259–261
 - substitution sphincter-cystoplasty 562–563
 - synchronous video-pressure-flow cysto-urethrography 576, 578, 584, 586–589
 - terminology and definitions 589–591
 - time-and-volume voiding chart 250, 253–255, 273–275
 - unreliability of urological symptoms 251–253
 - urethral calibre 253
 - urethral pressure profile 255, 278
 - uroflowmetry 238, 256, 264, 268
 - urological view of hysterectomy 252
 - vaginal abnormalities and vaginoplasty 369
 - video pressure-flow cysto-urethrography 234, 251, 260, 264–265
 - voiding cysto-urethrogram 256, 259–261, 268
 - voiding cysto-urethrography 585–586
 - urodynamic stress incontinence 272
 - uroflowmetry
 - limitations of clinical examination 256, 264
 - roles and personnel 268
 - substitution sphincter-cystoplasty 563
 - voiding and voiding inefficiency 238
 - uro-genital hiatus 217–220
 - urography 431
 - uro-gynaecology 4
 - urothelial graft partial substitution sphincter-cystoplasty 555–557
 - urothelial review 562
 - USCD *see* ultrasound cystodynamogram
 - uterine pedicle vessels 426–428
 - uterus 370–372
- V**
- vaginal abnormalities and vaginoplasty 361–398
 - anterior vaginal wall mobility and vault prolapse 362
 - anterior vaginal wall prolapse 368
 - bi-manual pelvic examination 362–363
 - fistula development and repair 374–375
 - gender reassignment 384–395
 - hymen 372–373
 - labial flap inlay for lower segment vaginal agenesis 373
 - maldevelopment of lower vaginal segment 372
 - Moschcowitz purse-string 366
 - neo-vaginal introital narrowing 381–383
 - pan-pelvic floor laxity 362
 - posterior vaginal wall prolapse 363–365
 - rectocele versus enterocele 363–365
 - recto-vaginal fistula development 395–398
 - recto-vaginal peritoneal pouch 365–367
 - resolution of vaginal vault prolapse 368–372
 - urological indications for hysterectomy 369
 - vaginal pull-down and ring-substitution 374
 - vaginal substitution and reconstruction 374–384
 - vaginal approach
 - gynaeco-urological injuries and fistula repair 441, 445–451
 - surgical access to the urinary tract 89–90
 - vaginal delivery
 - continence and incontinence 319
 - developmental anomalies 415
 - gynaeco-urological injuries and fistula repair 419–422
 - vaginal fistulae 5
 - vaginal pack 383, 388
 - vaginal prolapse 222–226
 - vaginal pull-down 374
 - vaginal reconstruction 468
 - vaginal vault descent 369–370
 - continence and incontinence 321–322
 - evaluation 362
 - gynaeco-urological injuries and fistula repair 439
 - procedural options 368–372
 - retro-pubic suspension 368
 - round-ligament suspension of the uterus 370–372
 - suspension of the upper vagina 368–369
 - urodynamic evaluation of resolution 369
 - ventro-suspension reduction 369
 - vagino-obturator urethral shelf (VOUS)
 - procedure 306–316
 - Burch procedure 306–309, 316
 - functional and surgical principles 281–285, 309–310
 - modifications and extension 284, 313, 322–323
 - operative procedure 310–311
 - pregnancy and vaginal delivery post-repositioning 319
 - pre-vaginal approach 353–354
 - results and complications 314
 - substitution sphincter-cystoplasty 546
 - symmetry of colpo-suspension 312
 - vagino-rectal fistulae 460
 - vagino-supra-pubic sub-urethral fascial sling 298
 - Valsalva manoeuvre leak-point pressure (VLPP) 265–266
 - valvulae conniventes 521
 - vascular pedicles 428
 - VCUG *see* voiding cysto-urethrography
 - vesico-omental tamponade 31
 - vesico-urethral angle 280

- vesico-urethral reconstruction 89
 - vesico-urethro-vaginal cloacal fistulae 401
 - vesico-urethro-vaginal (VUV) descent
 - primary cause of stress incontinence 226, 275
 - substitution sphincter-cystoplasty 546
 - surgical treatment options 278, 281–282
 - urethro-vaginal prolapse 222–226
 - voiding and voiding inefficiency 229, 237–238, 242
 - vesico-vaginal fistulae
 - abdominal approach 441, 449–460
 - childbirth 434
 - endoscopic identification 431–432
 - irradiation fistulae 470–472
 - location and cause 433
 - simple and complex
 - classification 433–434
 - surgical principles for repair 441–447
 - three-option progression procedure
 - principle 441, 448, 451
 - vaginal approach 441, 445–449
 - voiding and voiding
 - inefficiency 235–236
 - vesico-vagino-rectal fistulae 459
 - video-cysto-metro-urethrography 585
 - video-pressure-flow cysto-urethrography (VPFCUG) 586–589
 - evaluation of voiding efficiency 234
 - historical development 576, 578
 - neuropathic bladder dysfunction 584
 - practical requirements and applications 251, 264–265
 - procedure 586–588
 - roles and personnel 268
 - stop test evaluation of
 - continence 260
 - technical points 589
 - urodynamicist experience 586
 - video voiding cysto-urethrogram (VVCUG) 563
 - VLPP *see* Valsalva manoeuvre leak-point pressure
 - voiding and voiding
 - inefficiency 233–242
 - bladder injuries during pelvic surgery 438–440
 - catheter management and functional follow-up 355–356
 - detrusor function and dysfunction 230–231
 - fall-back pouch 320–321
 - identification of voiding inefficiency in women 238
 - infrequent voiding syndrome 235
 - management and treatment of voiding inefficiency 239–242
 - post-hysterectomy and vesico-vaginal fistula formation 235–236
 - relative bladder outlet
 - obstruction 236–237, 242
 - substitution sphincter-cystoplasty 545–549, 552
 - trabeculation of female bladder wall 238–239
 - under-active detrusor 236
 - urethral distortion-obstruction created
 - by abdominal straining 237–238
 - urethral kinking descent 242
 - urodynamic evaluation 581, 583, 585–586
 - vesico-urethro-vaginal descent 229, 237–238, 242
 - see also* urodynamic evaluation
 - voiding cysto-urethrography (VCUG)
 - historical development 576
 - limitations of clinical
 - examination 256, 261
 - practical requirements 259–261
 - roles and personnel 268
 - urodynamic evaluation 585–586
 - see also* video pressure-flow cysto-urethrography
 - VOUS *see* vagino-obturator urethral shelf
 - VPFCUG *see* video-pressure-flow cysto-urethrography
 - VUV *see* vesico-urethro-vaginal
 - VVCUG *see* video voiding cysto-urethrogram
- W**
- Williams–Hutch–Glenn–Cohen ureteric advancement procedures 146
 - wing-retained Malécot-type catheters 58–59
 - wound drainage 34–38
- Y**
- Yang–Monti–Chapple (YMC)
 - procedure 520–521
 - yo-yo catheter 56–58, 236

