

Index

- A**
- Adenoma, adrenal, as laparoscopic adrenalectomy indication, 31
 - Adrenalectomy, laparoscopic, 31–35
 - comparison with open adrenalectomy, 31
 - retroperitoneal approach in, 31, 33–34
 - transperitoneal approach in, 31
 - Anastomotic leaks
 - antegrade colonic enema procedure-related, 122
 - laparoscopic pyeloplasty-related, 22
 - Androgen insensitivity, 59
 - Anesthesia, in pediatric laparoscopy, 3
 - Antegrade colonic enema (ACE) procedure
 - laparoscopic, 115–119, 120–122
 - with cecostomy button, 117, 120–122
 - with stoma, 115–119, 120, 121, 122
 - open, 120
 - Anuria, urinary calculi-related, 101
 - Anus, imperforate, 115
 - Appendix, in antegrade colonic enema procedure, 115, 116–117, 120, 121–122
- B**
- Bladder
 - augmentation of, concomitant with antegrade colonic enema procedure, 120
 - augmented, urinary calculi in, 110–111
 - neurogenic, 85
 - neuropathic, urinary calculi in, 110–111
 - trabeculation of, 75
 - Bladder outlet injections
 - as urinary incontinence treatment, 67, 85–91
 - in females, 87–88
 - in males, 87
 - for transurethral leaks, 88–90, 91
 - via catheterization channels, 90
 - Zuidex system for, 87–88
 - as vesicoureteral reflux treatment, 77–84
 - instrumentation in, 78–80
 - operative technique in, 80–82
 - in unilateral reflux, 82
- Bladder stones. *See* Calculi, urinary
- Bladder trigone, bulging masses on, 75, 76
- Bulking agent injections. *See* Bladder outlet injections
- C**
- Calculi, urinary, 101–105
 - causes of, 101
 - composition of, 101, 110
 - cystourethroscopic identification of, 75
 - spontaneous passage of, 101, 106
 - treatment/removal of, 67
 - in augmented/neuropathic bladder, 110–111
 - cytoscopic-guided access in, 71
 - with extracorporeal shock wave lithotripsy, 101
 - laparoscopic, 101, 104–105
 - with percutaneous nephrolithotomy, 101, 102–104
 - ureteric
 - spontaneous passage of, 106
 - ureteroscopy of, 106–109
 - Cecostomy button, in antegrade colonic enema procedure, 117, 120–122
 - malfunction of, 122
 - Cecoureterocele, as bladder outlet injection indication, 85
 - Cecum, in antegrade colonic enema procedure, 115–119, 121–122
 - Cervix, vaginoscopic appearance of, 73
 - Cloaca, 67, 69, 75, 85, 115
 - Congenital adrenal hyperplasia (CAH), 59, 70
 - Constipation, antegrade colonic enema procedure for, 115–119, 120–122
 - Cushing’s syndrome, as adrenalectomy indication, 31
 - Cystitis, subureteral Teflon injection (STING)-related, 82
 - Cystolithotomy
 - minimally-invasive, 110–111
 - open, 110
 - Cystoplasty, augmentation, as urinary calculi cause, 110

- Cystourethroscopy
 contraindications to, 69
 in females, 72–73
 general principles of, 67–69
 indications for, 67–69
 instrumentation in, 70–71
 in males, 73
 operative technique in, 71–76
 Cystoscopes, 70–71
- D**
 Dissecting balloon, rupture of, 34
 Diverticulum, cystourethroscopic
 identification of, 74, 75
 Dysplasia, congenital renal, 13
- E**
 Enema, antegrade colonic. *See*
 Antegrade colonic enema
 (ACE) procedure
 Epispadias
 as bladder outlet injection
 indication, 85
 in females, 69
 as open bladder neck cause, 67
 Extracorporeal shock wave
 lithotripsy (ESWL), 101
- F**
 Fecal impaction, as bladder trigone
 mass cause, 75
 Fecal incontinence
 antegrade colonic enema
 procedure for, 115–119,
 120–122
 persistent, after antegrade
 colonic enema procedure,
 118, 122
 Fistula, urethrocutaneous, 67
 Fluoroscopy, with
 cystourethroscopy, 71
 Foreign objects, vaginal, 75
- G**
 Genitofemoral nerve,
 varicolectomy-related
 injury to, 57
 Genitourinary anomalies. *See also*
 Intersex anomalies
 cystourethroscopic identification
 of, 74–75
 Germ cell tumors, 59
 Glomerulosclerosis, focal
 segmental, 13–14
 Gonadal dysgenesis, mixed, 59
- Gonads
 dysplastic, 60
 malignant, 59
 streak, 59, 62
- H**
 Helstrom technique, 24–28
 Hematuria, 39, 67, 101
 Heminephrectomy, laparoscopic,
 13, 14, 16–18
 transperitoneal approach in, 13
 Hemorrhage
 laparoscopic adrenalectomy-
 related, 34
 laparoscopic bladder stone
 surgery-related, 105
 laparoscopic pyeloplasty-related,
 22
 percutaneous nephrolithotomy-
 related, 104
 retroperitoneoscopic surgery-
 related, 17
 Hermaphroditism, 59
 Hernia/herniation
 parastomal, 118
 of port sites, 9
 Hydrocele
 varicolectomy-related, 57
 varicolectomy treatment of, 55
 Hydrocelectomy, scrotal, 55
 Hydroureteronephrosis
 bladder outlet injection-related,
 91
 as heminephrectomy indication,
 14
 Hymen, imperforate, 75
 Hypospadias
 enlarged utriculi associated
 with, 59
 repair of, urinary incontinence
 following, 67
- I**
 Incidentaloma, as laparoscopic
 adrenalectomy indication,
 31
 Incontinence
 fecal. *See* Fecal incontinence
 urinary. *See* Urinary
 incontinence
 Intersex anomalies
 causes of, 59
 cystourethroscopic evaluation
 of, 60, 67, 69, 70, 76
- differentiated from undescended
 impalpable testis, 49
 incidence of, 59
 laparoscopic evaluation of,
 59–61
 laparoscopic treatment of, 59, 62
 vaginocopy of, 60, 67, 69
 Ischemia, testicular, 53
- K**
 Kidney
 duplication of, 14
 multicystic, dysplastic, 13–14, 95
- L**
 Laparoscopy, in children. *See also*
specific laparoscopic
procedures
 basic principles of, 3–10
 access, 3–4
 anesthesia, 3
 instrumentation, 9
 patient positioning, 3
 retroperitoneal approach, 4,
 5–9
 tissue retrieval, 9
 transperitoneal approach, 4–5
 visualization, 9
 wound closure, 9–10
 Lithotripsy, 71
 extracorporeal shock wave, 101
- M**
 Meatal stenosis, posterior urethral
 valve ablation-related, 94
 Megalourethra, 74, 75
 Megareters, as bladder trigone
 mass cause, 75
 Minimal access surgery (MAS), in
 children, 3. *See also*
 Laparoscopy, in children
 Müllerian duct remnants, 59, 62
- N**
 Nephrectomy, laparoscopic, 13–14,
 17–18
 patient positioning for, 7, 8
 retroperitoneal approach in, 7,
 13, 15–16
 transperitoneal approach in, 13
 Nephrolithotomy, percutaneous,
 101, 102–104
 Nephropathy, reflux-associated,
 13–14

- Nephrotic syndrome, congenital, 13–14
- Nephroureterectomy. *See* Nephrectomy, laparoscopic
- Neuroblastoma, as laparoscopic adrenalectomy indication, 31
- Neurogenic bowel, as constipation cause, 115
- O**
- Orchidopexy
laparoscopic
 first-stage Fowler Stephens, 52–53
 single-stage, 50–52
 single-stage Fowler Stephens, 53
- Ovotestes, dysgenetic intra-abdominal, 59
- P**
- Palomo technique, 56–58
- Pelviureteric junction obstruction, laparoscopic treatment of
 dismembered pyeloplasty, 19–23, 24, 28
 comparison with lower pole vessel transposition, 28
 robotically-assisted, 19, 20, 22–23, 24, 125–129
 heminephrectomy, 14
 lower pole vessel transposition, 24–28
 nephrectomy, 13–14
- Perineum
 abnormal, 60
 mass in, 72
 morphological disorders of, 59
- Peritoneum, tears to
 laparoscopic adrenalectomy-related, 34
 retroperitoneoscopic surgery-related, 17
- Pheochromocytoma, 31
- Pneumoperitoneum, 9
- Port sites, closure of, 9–10
- Premature infants, posterior urethral valve treatment in, 92–93
- Pyelonephritis, subureteral Teflon injection (STING)-related, 82
- Pyeloplasty, laparoscopic
 dismembered, 19–23, 24
 “hitch stitch” use in, 20, 21–22
 open technique, 24, 127–128
 retroperitoneal approach in, 19
 robotically-assisted, 19, 20, 22–23, 24, 125–129
 transperitoneal approach in, 19, 20–22, 127
- Pyuria, urinary calculi-related, 101
- R**
- Renal stones. *See* Calculi, urinary
- Resectoscopes, 71
- Retroperitoneal approach, in laparoscopic procedures, 5–9
 access in, 6–9
 anesthesia for, 6
 in heminephrectomy, 13, 16–17
 in nephrectomy, 7, 13, 15–16
 patient positioning for, 6, 7, 8
 in pyeloplasty, 19
- Rhabdomyosarcoma, tissue
 diagnosis of, 69
- Robotic systems, 9
 daVinci, 19, 20, 22–23, 45, 125
 use in laparoscopic pyeloplasty, 19, 20, 22–23, 24, 125–129
 use in transvesicoscopic (pneumovesicoscopic)
 Cohen ureteric reimplantation procedure, 45
- S**
- Scarring, renal, vesicoureteral
 reflux-related, 77, 78, 82
- Semen analysis, 54
- Specimen retrieval, 9
- Spina bifida, 115
- Stents, JJ ureteral, 21, 22, 76, 108, 128
- STING. *See* Suburethral Teflon injections (STING)
- Stoma, for antegrade colonic enema (ACE), 115–119, 120, 121, 122
- Streak gonads, identification and removal of, 59, 62
- Subureteral Teflon injections (STING)
 as urinary incontinence treatment, 86
 as vesicoureteral reflux treatment, 77–84
 instrumentation in, 71, 78–80
 operative technique in, 80–82
 in unilateral reflux, 82
- Syringocele
 classification of, 97, 98
 definition of, 95
 endoscopic treatment of, 96, 97, 98
- T**
- Teflon injections, subureteral. *See* Subureteral Teflon injections (STING)
- Testes
 intra-abdominal, identification and removal of, 62
 undescended impalpable, 49–53
 differentiated from intersex disorders, 49
 laparoscopic orchidopexy treatment of, 50–53
 varicocelelectomy-related atrophy of, 57
 varicocele-related hypertrophy of, 54
- Testicular artery and vein, ligation of, 56–58
- Tissue retrieval, 9
- Transperitoneal approach, in laparoscopic procedures
 in nephrectomy, 13
 primary port insertion in, 4–5
 in pyeloplasty, 19, 20–22, 127
 secondary port insertion in, 5
- Transvesicoscopic (pneumovesicoscopic)
 Cohen ureteric reimplantation, for vesicoureteral reflux, 39–46
 comparison with Lich-Gregoir technique, 45
 instrumentation for, 40
 operative technique in, 40–44
 results of, 44–45
 use of da Vinci robotic system in, 45
- U**
- Urachal anomalies, 75
- Ureteral orifice
 ectopic, 74
 patulous, 74
 in vesicoureteral reflux, 75

- Ureteral reimplantation
 cross-trigonal, failure of, 81
 transvesicoscopic
 (pneumovesicoscopic)
 Cohen procedure, 39–46
 comparison with Lich-Gregoir
 technique, 45
 instrumentation for, 40
 operative technique in, 40–44
 results of, 44–45
 use of da Vinci robotic system
 in, 45
- Ureterocele
 as bladder trigone mass cause,
 75
 cystourethroscopic identification
 of, 74, 75
 definition, 95
 ectopic, 72, 95, 98
 endoscopic management of,
 95–98
 low-grade vesicoureteral reflux
 associated with, 95
 transurethral incision of, 67, 68
- Ureteropelvic junction obstruction.
See Pelviureteric junction
 obstruction
- Ureteroscopy, 106–109
- Ureterovesical junction
 ureteroscope passage through,
 106, 109
 in vesicoureteral reflux, 77
- Ureters
 calculi in
 spontaneous passage of, 106
 ureteroscopy of, 106–109
 duplication of, 67, 68, 69
 subureteral Teflon injection
 (STING) treatment of,
 81
 ectopic, 73, 85
 obstruction of, 76, 82
 strictures of, 76, 108
 ureteroscopy-related injury to,
 108
- Urethra
 anatomy of
 in females, 72, 87
 in males, 73, 87
 duplication of, 74, 85
 injury to
 cystourethroscopy-related, 76
 endoscopic ureterocele
 treatment-related, 98
 recurrent, 62
 strictures of, 62, 68, 74, 94
- Urethral valves
 anterior, 74
 posterior, 74, 75, 92–94
 ablation of, 92–94
 evaluation of, 92
 transurethral incision of, 67,
 68
- Urethroplasty, open primary, 68
- Urinary incontinence
 bladder outlet injection
 treatment of, 67, 85–91
 in females, 87–88
 in males, 87
 for transurethral leaks, 88–90,
 91
 via catheterization channels,
 90
 Zuidex system for, 87–88
 cystourethroscopic treatment of,
 67
 evaluation of, 85
 stress, 85
- Urinary retention, bladder outlet
 injection-related, 91
- Urinary tract infections
 recurrent, 67
 ureteroscopy-related, 108
 urinary calculi-related, 101
 vesicoureteral reflux-related, 77
- Urinoma, retroperitoneal, 17–18
- Urogenital sinus, 67, 69, 70, 76
- Urolithiasis. *See* Calculi, urinary
- Uropathy, obstructive,
 cystourethroscopic
 treatment of, 67
- Urothelial cancer, tissue diagnosis
 of, 69
- Uterus, abnormal, 60
- Utricle
 enlarged, 59
 laparoscopic resection of, 59–60
 prostatic, 74, 76
- V
- Vagina
 agenesis of, 72
 duplication of, 75
 septation of, 75
- Vaginal remnants, 74, 76
- Vaginotomy, 67, 69, 72, 73
- Varicocele
 incidence of, 54
 as ipsilateral testicular
 hypertrophy cause, 54
 recurrent, 57
 varicolectomy treatment of,
 54–55, 56–58
- Varicolectomy, laparoscopic, 54–
 55, 56–58
- “Vascular hitch,” 24–28
- Vesicoureteral reflux (VUR)
 bladder outlet injection-related,
 91
 bladder outlet injection
 treatment of, 67, 77–84
 definition of, 77
 instrumentation in, 78–80
 operative technique in,
 80–82
 in unilateral reflux, 82
 endoscopic ureterocele
 treatment-related, 98
 low-grade, ureterocele-
 associated, 95
 transvesicoscopic
 (pneumovesicoscopic)
 Cohen ureteric
 reimplantation for,
 39–46
 comparison with Lich-Gregoir
 technique, 45
 instrumentation for, 40
 operative technique in,
 40–44
 results of, 44–45
 use of da Vinci robotic system
 in, 45
 ureteroscopy-related, 108
- Virilization, insufficient, 59, 60
- W
- Wilm’s tumor, 56