# Subject Index

Airway balloon dilation
- anesthesia 113
- case presentation 114, 115
- contraindications 113
- equipment 113
- indications 112, 113
- overview 112
- pearls 114
- postoperative care 114
- preparation 113
- technique 113

Angiofibroma, see Juvenile nasal angiofibroma

Ansa cervicalis nerve, see Recurrent laryngeal nerve anastomosis

Aortic arch, see Double aortic arch

Balloon dilation, see Airway balloon dilation

Bilateral submandibular gland excision and parotid duct ligation (BSGE-PDL)
- anatomy 71
- anesthesia 72
- contraindications 72
- indications 71, 72
- outcomes 71
- parotid duct ligation 73, 74
- pearls 74
- postoperative care 74
- preparation 72
- submandibular gland excision 72, 73

Bronchi, anatomy 7

Bronchomalacia, flexible bronchoscopy 16
Bronchoscopy, see Flexible bronchoscopy; Rigid bronchoscopy
Bronchus suis, flexible bronchoscopy 16, 17
BSGE-PDL, see Bilateral submandibular gland excision and parotid duct ligation

CA, see Coanal atresia

CAJF, see Cricoarytenoid joint fixation

Cartilage grafting, see Costal cartilage harvest

Cerebral palsy, see Sialorrhea

Coanal atresia (CA)
- endoscopic repair
  - case presentation 130
  - contraindications 128
  - indications 128
  - pearls 129
  - postoperative care 129
  - preparation 128
  - technique 128, 129
  - overview 127, 128

Congenital heart defects 9

Costal cartilage harvest
- anatomy 39
- anesthesia 39
- contraindications 39
- indications 39
- postoperative care 41
- preparation 39, 40
- technique 40, 41

Cricotracheal resection and thyrotracheal anastomosis (CTR)
- anesthesia 43
- case presentation 48
- complications 42
- contraindications 43
- indications 43
- overview 42
- pearls 48
- postoperative care 46–48
- preparation 43
- technique 43–46

Cricoarytenoid joint fixation (CAJF) 116, 124
CTR, see Cricotracheal resection and thyrotracheal anastomosis

Double aortic arch 9
Drooling, see Sialorrhea

EA, see Esophageal atresia
Endoscopic posterior cricoid split with rib grafting (EPCG)
   anesthesia 117
   case presentations 119–122
   contraindications 117
   indications 116, 117
   overview 116, 117
   pearls 119
   postoperative care 119
   preparation 117
   technique 117–119
EPCG, see Endoscopic posterior cricoid split with rib grafting
Esophageal atresia (EA) 9, 10

Flexible bronchoscopy
   advantages 12, 13
   anesthesia 13
   complications 13
   contraindications 13
   equipment 13, 14
   findings 15–18
   indications 13
   pearls 17
   procedures 14

Gastroesophageal reflux disease (GERD), laryngomalacia 101
GERD, see Gastroesophageal reflux disease

Hemangioma
   flexible bronchoscopy 16
   rigid bronchoscopy 25

Human papilloma virus, see Juvenile-onset recurrent respiratory papillomatosis

Innominate artery, aberration 8, 9

JNA, see Juvenile nasal angiofibroma
JORRP, see Juvenile-onset recurrent respiratory papillomatosis

Juvenile nasal angiofibroma (JNA)
   anatomy 133
   endoscopic resection
      anesthesia 133
      case presentation 135, 136
      contraindications 133
      indications 133
      pearls 135
      postoperative care 135
      preparation 133
      technique 133, 134
   overview 132, 133

Juvenile-onset recurrent respiratory papillomatosis (JORRP)
   laser ablation
      anesthesia 106
      equipment 106, 107
      indications 106
      pearls 108
      postoperative care 108
      preparation 106
      technique 107
   overview 105, 106

Laryngeal cleft
   classification 95, 96
   diagnosis 95, 96
   epidemiology 95
   surgical management
      anesthesia 96, 97
      case presentation 100
      contraindications 96
      indications 96
      pearls 98, 99
      postoperative care 98
      preparation 97
      technique 97, 98

Laryngeal electromyography (LEMG)
   anesthesia 87
   contraindications 87
   equipment 87
   indications 87
   pearls 88
   postoperative care 88
   preparation 87
   technique 87, 88
   vocal fold immobility evaluation 86

Laryngomalacia
   management, see Supraglottoplasty
overview 101, 102
Laryngotraceal reconstruction (LTR)
anesthesia 32
cartilage grafting, see Costal cartilage harvest
case presentation 38
contraindications 32
indications 32
pearls 36–38
postoperative care 36
preparation 32, 33
subglottic stenosis management 31

Larynx
anatomy
cuneiform cartilage 3
cricoid cartilage 3
posterior glottis 3
saccule 4
ventricle 4
development 1–3
infants
configuration 4, 5
congenital stenosis 5, 6
location 4
tissue consistency 5
posterior laryngeal cleft 6, 7
reinnervation, see Recurrent laryngeal nerve anastomosis

Laser ablation, see Juvenile-onset recurrent respiratory papillomatosis

LEMG, see Laryngeal electromyography

Lingual tonsillectomy
anesthesia 110
contraindications 110
equipment 110
indications 109, 110
pearls 111
postoperative care 111
preparation 110


Long segment tracheal stenosis (LSTS)
management, see Slide tracheoplasty

overview 58
LSTS, see Long segment tracheal stenosis
LTR, see Laryngotraceal reconstruction

Medialization thyroplasty, see Vocal fold injection
medialization laryngoplasty

Nasal angiofibroma, see Juvenile nasal angiofibroma

Obstructive sleep apnea, see Lingual tonsillectomy

Papillomatosis, see Juvenile-onset recurrent respiratory papillomatosis
Parotid duct, see Bilateral submandibular gland excision and parotid duct ligation
Pharyngeal flap, see Velopharyngeal insufficiency
Pharyngoplasty, see Velopharyngeal insufficiency
Posterior laryngeal cleft 6, 7
Pulmonary artery sling 9

Reconstruction, see Laryngotraceal reconstruction

Recurrent laryngeal nerve anastomosis
anatomy 81, 82
anesthesia 83
ansa cervicalis nerve grafting 81, 83, 84
case presentation 84
contraindications 83
indications 82, 83
overview 80, 81
pearls 84
postoperative care 84
preparation 83
tissue technique 83, 84
vocal fold paralysis 81, 83

Recurrent respiratory papillomatosis, see Juvenile-onset recurrent respiratory papillomatosis

Rib graft, see Costal cartilage harvest; Endoscopic posterior cricoid split with rib grafting

Rigid bronchoscopy
advantages 19, 20
anesthesia 20
contraindications 20
equipment 20, 21
indications 20
pearls 24, 25
post-procedure care 23, 24
technique 21–23

Sialorrhea
epidemiology 70
surgical management, see Bilateral submandibular gland excision and parotid duct ligation

Slide tracheoplasty
anesthesia 60
contraindications 60
indications 59
overview 58, 59
pearls 64
postoperative care 63
preparation 61
technique 62, 63
SSG, see Suprastomal granuloma
Stenosis, larynx congenital disease 5, 6
Subglottic stenosis
cartilage grafting, see Costal cartilage harvest
crichotracheal resection, see Cricotracheal resection and thyrotracheal anastomosis
grading 32
laryngotracheal reconstruction, see Laryngotracheal reconstruction
rigid bronchoscopy 24
Submandibular gland, see Bilateral submandibular gland excision and parotid duct ligation
Supraglottoplasty
anesthesia 102
case presentation 103, 104
contraindications 102
indications 102
pearls 103
postoperative care 103
preparation 102
technique 102, 103
Suprastomal granuloma (SSG)
open surgery
anesthesia 63, 64
indications 63
pearls 65
postoperative care 65
preparation 64
technique 64, 65
overview 63
TCF, see Tracheocutaneous fistula
TEF, see Tracheoesophageal fistula
TGDC, see Thyroglossal duct cyst
Thyroglossal duct cyst (TGDC) excision
anatomy 66, 67
anesthesia 67
indications 67
pearls 69
postoperative care 69
preparation 67
technique 67, 68
presentation 66
Tonsillectomy, see Lingual tonsillectomy
Trachea, anatomy 7
Tracheal resection and reanastomosis
anesthesia 51
case presentation 55, 56
contraindications 51
indications 51
pearls 55
postoperative care 55
preparation 51, 52
technique 52–55
tracheal stenosis 50
Tracheal stenosis
isolated stenosis 50
long segment tracheal stenosis 58
Tracheocutaneous fistula (TCF) closure
anesthesia 77
complications 78
contraindications 77
indications 77
overview 76, 77
pearls 78, 79
postoperative care 78
preparation 77
technique 77, 78
epidemiology 76
Tracheoesophageal fistula (TEF)
flexible bronchoscopy 16, 17
overview 9, 10
Tracheomalacia
flexible bronchoscopy 16
overview 7, 51
tracheal resection, see Tracheal resection and reanastomosis
Trachetomy
anatomy 26, 27
anesthesia 27
indications 27
mortality 26
pearls 29
postoperative care 29
preparation 27
technique 27–29
tracheocutaneous fistula, see Tracheocutaneous fistula
Velopharyngeal insufficiency (VPI)
overview 137
preoperative evaluation 138, 139
sphincter pharyngoplasty
  anesthesia 141
  complications 142, 143
  contraindications 141
  indications 141
  postoperative care 142
  preparation 141
  technique 141, 142
superior-based pharyngeal flap
  anesthesia 139
  case presentation 143
  complications 141
  contraindications 139
  indications 139
  postoperative care 141
  preparation 139
  technique 139–141
surgical pearls 143
Vocal cordotomy
  anesthesia 124
  case presentation 125, 126
  contraindications 124
  indications 124
  overview 123, 124
  pearls 125
  postoperative care 125
  preparation 124
  technique 124, 125
Vocal fold injection medialization laryngoplasty
  anesthesia 91
  case presentation 93
  contraindications 91
  indications 90, 91
  overview 90
  pearls 93
  postoperative care 92
  preparation 91, 92
  technique 92
Vocal fold paralysis
  bilateral paralysis features 116, 123
  cricoarytenoid joint fixation 116, 124
  electromyography, see Laryngeal electromyography
  endoscopic posterior cricoid split with rib grafting,
    see Endoscopic posterior cricoid split with rib grafting
  larynx reinnervation, see Recurrent laryngeal nerve anastomosis
  unilateral paralysis features 90
  vocal fold injection medialization laryngoplasty,
    see Vocal fold injection medialization laryngoplasty
VPI, see Velopharyngeal insufficiency