## Subject Index

### A

- Accreditation council for graduate medical education (ACGME), 4, 70-74, 105
- Adjacent-level disease, 86, 91
- American Board of Neurological Surgery (ABNS), 5, 70-73
- American College of Surgeons, 71
- 5-Aminolevulinic acid (5-ALA), 75-80
- Amyotrophic lateral sclerosis (ALS), 98, 100-103
- Anterior cervical diskectomy and fusion (ACDF), 86-89
- Arteriovenous malformation (AVM), 22-33, 36-38, 59-61, 65
- Anteroposterior (AP), 51, 53, 56, 91-92, 115-116, 119
- Arthroplasty, 82-90, 91-97

### B

- Balloon test occlusion, 11, 15-16, 38
- Bicycle, 126-130
- Biomechanics, 82
- Bypass, 6-21
  - for giant aneurysms, 9
  - procedure, 7, 40, 41
  - techniques, 8-9, 18
  - with aneurysm occlusion, 7
  - with proximal occlusion, 7, 11

### C

- Canine, 107-113
- Cerebral protection, 119, 121, 124
- Cervical arthrodesis, 91, 95-97
- Cervical spondylosis, 91
- Cetuximab, 107-113
- Computed tomographic angiogram, 26, 37, 41
  - angiography, 7, 9, 11, 17, 24, 27, 50
  - myelogram, 91, 94
  - scan, 50
- Computed tomography (CT), 8, 18, 27, 73, 91, 93-94, 123
  - angiogram(s), 8, 36, 42, 51
  - angiography, 8, 11, 18, 26
  - scan, 36, 40-42, 119
- Convection-enhanced delivery (CED), 107-113

### D

- Deep brain stimulation (DBS), 44-49
- Deep hypothermic circulatory arrest, 7-8
- Digital subtraction angiogram, 38, 40-41, 50-56

### E

- Embolic protection devices, 50, 57, 124
- Epidermal growth factor receptor, 107, 108
- Epilepsy radiosurgery, 59-69
- Ethics, 3

### F

- Facial pain, 114

### G

- Glioblastoma (GBM), 76-77, 79-81, 107-112

### H

- Headache, 6, 16, 11, 22, 37, 38, 41, 43, 114-118
- Helmet, 126-130
- Hippocampal sclerosis, 61

### I

- Institute of Medicine, 70-74
- Iron-oxide nanoparticles (IONPs), 107-113
- Intraspinal microinjection, 98, 100, 103
- Intravascular ultrasound, 52, 53

### M

- Magnetic resonance imaging (MRI), 24-32, 34-42, 45, 50, 75-77, 80-81, 107-113, 119
  - scan, 9, 10, 108, 111
- Mesial temporal lobe epilepsy (MTLE), 59-69
- Microsurgical clip reconstruction, 7
- Motorcycle, 126-130

### N

- National Institutes of Health Stroke Scale, 78, 119
- Neurobehavioral disorders, 44-49
- Neuromodulation, 47, 59, 114-118
- Next Accreditation System, 73-74
- North American Symptomatic Carotid Endarterectomy Trial, 50
- Nucleus accumbens (NAcc), 44-47

### O

- Outcomes, 3-5, 11, 13-14, 25-26, 33, 34-43, 45-47, 57, 71, 73, 79, 80, 86, 87, 88, 91, 94, 95, 97, 103, 114-118, 126-130

### P

- Patient selection, 24, 45, 64, 66, 79, 91-97, 116, 117, 122
- Peripheral neurostimulation, 114-118

### R

- Radiculopathy, 86-90, 91, 92-97
- Revascularization procedures, 40

### S

- Scooter, 126-130
- Surgery, 14, 32, 61, 70, 71, 80, 95

### T

- Traumatic brain injury, 98, 126
- 2-wheeled vehicles, 126-130

### V

- Ventral striatum, 44, 46, 47