Index

Note: Page numbers in italic indicate Figures, and those in bold indicate Tables.

19/20 elevators 81, 81
34 elevator 78, 80, 114
46R elevator 78, 80, 114, 116, 120, 120
77R elevator 78
190/191 elevators 81, 81
301 elevator 78, 80, 114, 120
1703L surgical bur 112, 112
alveolitis see alveolar osteitis
Alvogyl 45
Ambien see zolpidem
American Association of Maxillofacial Surgeons 30
American Dental Association (ADA)
clinical guidelines on sedation 167–173
definitions 165–167
guidelines for the use of sedation 197–198
Principles of Ethics and Code of Professional Conduct 228
American Society of Anesthesiologists (ASA), physical classification system 16–17, 17
amoxicillin 48, 153–154, 154
Amoxil see amoxicillin
anaphalaxis 202, 202
anatomy 1–10
blood vessels 4–6
buccal fat pad 6–7
infratemporal fossa 8–10, 10
maxillary sinus 8, 9
nerves 1–4
structures relevant to safe removal of third molars 1
submandibular fossa 7–8, 7, 8
anesthesia, history of 163–165
anesthetic gas, minimum alveolar concentration (MAC) 139
angina pectoris 203, 204
angulations, surgical technique 122–125
ankylosed tooth 24
antibiotics 48, 100–101, 153–156
prophylactic use 156
treatment of existing infection 156
anticoagulant medications 53
antiseptic mouthwash 101
anxious patient 102
articaine 140–142, 141
aspiration
during sedation 203, 203
during third molar surgery 61–62, 61
aspirin 149, 204
asthma attack 202–203, 202
atropine 205, 205
auriculotemporal nerve 3, 3
axonotmesis (Class II nerve injury) 39

Baeyer, Adolf von 183
barbiturates 183
Baxter, Crystal 213
Becker, Daniel E. 141
benadryl 202
benzodiazepines 135–137, 183, 191–192
Bergalis, Kimberly 84
bleeding and hemorrhage
coagulation disorders 52–53
excessive bleeding 52–54
hemorrhagic shock 52–54
hemostatic agents 52–53
hypovolemia 53–54
normal postoperative bleeding 52
persistent bleeding 52–54
sources of 4–6
blood pressure 16, 17–18, 17
blood vessels 4–6
Bloodborne Pathogens standard (OSHA Regulations) 93–94
bone density and elasticity assessment 24, 24
breach of duty 218
bromides 183
buccal fat pad 6–7
herniation of during third molar removal 57, 57
buccal nerve 3
effects of injury 4
studies 33–34, 34
buccal space infections 49, 50
bupivacaine 87, 140–142, 141, 150
burnout in dentists 225–226
business cards 230

California Dental Board Blue Ribbon Panel review of anesthesia 197–200
CAMP mnemonic for interview questions 14
canine space infections 49, 50
capnometer 208, 209, 210, 211, 211
cardiac arrest 204, 204
caries
prevalence related to age 28
risk in third molars xii
case selection 13–31
age of the patient 27–29
decision to refer 30–31
early third molar removal 27–29
medical evaluation 13–19
prophylactic removal of third molars 29–30
radiographic assessment 20–27
cavernous sinus thrombosis 49
celecoxib 149
cellulitis 48, 49, 51
cetrimide solution 101
cleocin see clindamycin
cloindamycin 153, 154, 155
clinical exam 18, 18
cogswell b elevators 77, 79
common carotid arteries 4
community service, promotion of your practice 229
complications
alveolar osteitis 40–46, 40
aspiration and ingestion 61–62, 61
bleeding and hemorrhage 52–54
buccal fat pad herniation 57, 57
damage to proximal teeth 57
displacement of third molars 7–9, 58–61, 59, 60
incidence of 62
infection 46–52
jaw fracture 54–56, 54, 55
maxillary sinus openings 8
oral-antral communication 57–58
osteomyelitis 56–57
paresthesia 33–40
postoperative sinus infections 8
temporomandibular joint (TMJ) injury 62
computed tomography (CT) scans 20
cone beam computed tomography (CT) scans 20
contractual agreement for dental services 250–252
Coumadin 53
Cranekick elevators 77, 79
cranial nerves 1, 2
cricothyrotomy 62
Cryer elevators 77, 79

danger space (vertebral space) infection 50, 52
deep neck space infections 50, 51–52
deep sedation 166, 167, 171–173
dental meetings, promotion of your mobile practice 229
Dentist’s Advantage insurance company, review of malpractice cases 218–224
Dentistry from the Heart (DFTH) 229
dexamethasone 150–151, 193
diabetic patients, hypoglycemia 206–207, 208
diazepam 107
digastric muscle 3
Dentistry from the Heart (DFTH) 229
dexamethasone 150–151
Deep Sedation 166, 167, 171–173
Deep Space Hematomas 53
Dental Meetings, Promotion of Your Mobile Practice 229
Dental Organization for Conscious Sedation (DOCS) 183
Dentist’s Advantage Insurance Company, Review of Malpractice Cases 218–224
Dentistry from the Heart (DFTH) 229
Dexamethasone 150–151, 193
Diabetic Patients, Hypoglycemia 206–207, 208
Diazepam 107
Digastric Muscle 3
Diphenhydramine 202
Direct Mail, Marketing Your Mobile Practice 230, 232
Disinfection 100
Displacement of Third Molars 7–9, 58–61, 59, 60
Disposable Materials 86–93
Documentation Importance of 213
Informed Consent 213–217
Informed Refusal 217
Legal Issues 213–224
Malpractice Cases 218–224
Prior to Surgery 101
Progress Notes 217–218
Drills See Surgical Drills
Dry Socket See Alveolar Osteitis
Dry Socket Paste 45, 46
Dysphagia 49
Dyspnea 49
Ether Dome 164
Exodontia Training for Dentists xi
External Carotid Artery 4, 5
Eye Protection 85–86, 85–86
Face Shields 85–86
Facebook 230
FDA Pregnancy Risk Categories for Drugs 134, 135
Fear of Going to the Dentist 163, 183
Feck, Anthony 183
Fentanyl 135, 143, 145, 146
IV Administration 191–192
Fibrinolytic Alveolitis See Alveolar Osteitis
First-Pass Metabolism 132, 175, 176
Fissure Bur 108, 109
Flag Elevators 77
Flagyl See Metronidazole
Flap Designs Mandibular Third Molars 109–111, 110, 111
Maxillary Third Molars 119–120, 119
Fleming, Alexander 153, 153
Florey, Howard Walter 153, 153
Flumazenil 138, 139, 201, 203
Follicle 23–24, 24
Foramen Ovale 3
Forceps 75
Gauze Pharyngeal Screen 61, 61, 77, 90–91, 92, 93
General Anesthesia 19, 166–167, 171–173
Germectomy 28–29, 29–30, 125–126
Germicides 100
Gloves 84, 85
Glucocorticoids 150–152
Goggles 85–86, 86
Gowns, Surgical 86, 86
E-Type Micromotor 72–74, 72–73
Early Third Molar Removal 27–29
EL3CSM Elevator 80, 81, 82, 114
Electrocardiogram (EKG) 211–212
Elevators 77–83
Emesis and Aspiration During Sedation 203, 203
Ephedrine 205, 205
Epinephrine 52
For Allergic Reaction 202, 202
For Asthma Attack or Bronchospasm 202–203, 202
In Local Anesthetics 141, 141, 142, 142
Equipment 68–74
Lighting 69, 70
Loupes 69, 70
Magnification 69, 70
Operating Microscope 69
Surgical Drills and Motors 70–74, 74
Surgical Tables and Chairs 68, 68–69
Ergonomics of the Work Space 67–68
Index
### Index

- **Hypertension** 17, 18, 205, 206
- **Hypoglycemia** 206–207, 208
- **Hypotension** 205, 205

### j

- ibuprofen 101, 131, 134, 146–147, 147
  - combined with acetaminophen 149–150
  - for inflammation 150, 152
- Impact Air 45 drill 71, 71
- incision nerve 3
- inclined plane elevators 77–78, 80, 80, 83
- incremental dosing of sedation 167
- infection 46–52
  - antibiotics 153–156
  - deep neck space infections 50, 51–52
  - Ludwig’s angina 8
  - pericoronitis 8, 46–48, 47, 48
  - risk of alveolar osteitis 42–43
  - space infections 49–52
  - surgical site infections (SSIs) 48–49
- inferior alveolar artery 4, 5
- inferior alveolar canal
  - displacement of third molars into 60
  - relative position of third molar roots 25–26, 25–26, 26
- inferior alveolar nerve 3, 3, 34
  - effects of injury 4
  - studies 34–36, 35, 36, 37–39, 38
- inferior alveolar neurovascular bundle 4
- inferior alveolar vein 4
- inflammation, pharmacology for 150–152
- informed consent 101, 213–217
  - role in reviewed malpractice cases 222–224
  - third molar impaction consent form 215
- informed refusal 217
- infratemporal fossa 8–10, 10
  - displacement of third molars into 58–60, 59
  - ingestion during third molar surgery 61–62, 61
  - inhalation of nitrous oxide (N₂O) 175
  - guidelines for use 176–182
- instruments 74–83
  - basic setup for impacted third molars 75–83, 76
    - care of 75
    - elevators 77–83
    - manufacturing 74–75
    - sterilization 99–100
  - internal carotid artery 4
- International Personality Disorder Examination 19
- intramuscular (IM) administration 175
- intranasal administration 174
- intravenous (IV) administration of sedation 176, 185–193
- intravenous sedation consent form 216
- iodoform gauze 45, 46
- irrigation syringes 93, 93

### l

- Lang, Randy 225
- Laster retractor 120, 121
- lateral pharyngeal space 50, 51–52
- lateral pterygoid muscle 3
- lateral trepanation 28–29
- Leeuw, Wilhemina 223
- lidocaine 87, 140–142, 141
- Liebig, Justus von 183
- lighting for the work space 69, 70
- lincomycin 154
- Lindemann bone cutting bur 108, 109
- lingual nerve 3
  - effects of injury 4
  - studies 37–38, 38
- LinkedIn 230
- litigation
  - importance of dental documentation 213–224
  - issue of informed consent 213–217
- local anesthesia 193
  - decision on the use of sedation 102
  - “difficult to numb” patient 102
- local anesthetics 140–142, 141
  - epinephrine in 141, 141, 142, 142
  - use with vasoconstrictors 43
- localized osteitis see alveolar osteitis
- logo 230
- Loma Linda technique 164
- long buccal nerve see buccal nerve
- Lortab 131 see also hydrocodone
- loupes 69, 70
- low-speed electric drills and motors 72–74, 72–73, 74
- low-speed nitrogen drills 71–72, 71, 74
- Ludwig’s angina 8, 51, 221
- luxators 81–83, 83

### m

- magnification 69, 70
- Malamed, Stanley 163, 226
- Mallampati airway classification 18, 18
- malpractice cases (Dentist’s Advantage review of third molar cases) 218–224
- broken drill bit retained in jaw and nerve injury 220
- death following wisdom tooth extraction 221
- elements of a malpractice lawsuit 218–223
- jaw fracture and fibromyalgia 219
- lingual nerve damage 219–221
- lingual nerve severed 221–222
role of informed consent in each 222–224
trigeminal nerve injury 222
mandibular foramen 3
mandibular fracture 54–56, 54, 55
mandibular nerve 1, 2, 3, 3
Marcaine 87
masks 85, 85
massester muscle 3
masseteric space infections 50, 50, 51
masticator space infections 50, 50, 51
maxillary artery 4, 5
maxillary nerve 1, 2
maxillary sinus 8, 9
maxillary third molars, surgical technique 118–122
maxillary tuberosity fracture 55–56
maximum recommended dose 167
meperidine 132
methylprednisolone 150, 151–152, 152
metronidazole 48, 49, 153, 154–155, 155
midazolam 134, 135, 136–137, 137, 206
IV administration 191–193
minimal sedation 166, 167–169
Minnesota retractor 110, 111
mobile third molar practice 225–257
alternative to private practice 225–226
assessing suitability for you 257
author’s experience 226–227
benefits 227–228
causes of stress and burnout in dentistry 225–226
general dentist or specialist 228
procedure manual 233–257
promotion methods 229–33
moderate sedation 166, 167, 169–171
monitoring of patients undergoing sedation 191–193
monitors 207–212
capnometer 208, 209, 210, 211, 211
electrocardiogram (EKG) 211–212, 212
precordial stethoscope 211, 211–212
pretracheal stethoscope 211, 211–212
pulse oximeter 208–209, 209, 210
Morton, William T. G. 163–164, 164
muscles, motor branches of the mandibular nerve 3
musculoskeletal disorders in dentists 67–68
mylohyoid muscle 3
mylohyoid nerve 3, 3
effects of injury 4
studies 33–34, 34
myocardial infarction 204, 204
nalbuphine 143
naloxone 133, 143, 145–146, 146, 201, 203
naproxen 149
Narcan see naloxone
narcotics, oral 131
National Institute for Clinical Excellence (NICE) UK 30
necrotic socket see alveolar osteitis
necrotizing mediastinitis 221
negligence 223
nerve injury
buccal nerve studies 33–34, 34
classification 39–40
complications following removal of impacted third molars 4
inferior alveolar nerve studies 34–36, 35, 36, 37–39, 38
lingual nerve studies 37–38, 38
mapping 39
mylohyoid nerve studies 33–34, 34
paresthesia 33–40
risk factors 39, 40
nerve 1–4
neurapraxia (Class I nerve injury) 39
neurotmesis (Class III nerve injury) 39–40
newsletter, promotion of your mobile practice 230
nitroglycerin 203, 204, 204, 205
nitrous oxide (N2O) inhalation 134, 138–139, 140, 175
guidelines for use 176–182
Norco 131 see also hydrocodone
NSAIDs 101, 133, 146–147, 149–150, 152
O
open-ended questions 13–14
operating microscope 69
ophthalmic nerve 1, 2
opiates 142
opioids 101, 134, 142–146, 149
IV administration 191–912
oral access, Mallampati airway classification 18, 18
oral-antral communication 57–58
oral contraceptives, association with alveolar osteitis 42
oral sedation 176, 183–184
Osteomed system 72, 72
osteomyelitis 56–57
oxycodone 143, 144, 145, 149
Oxycontin see oxycodone
oxyhemoglobin dissociation curve 208–209, 210

P
pain management, drugs used in third molar removal 101, 140–150
paracetaol see acetaminophen
parapharyngeal space infections 50, 51–52
drug administration of drugs 185–193
paresthesia 33–40
patient–dentist relationship 223
patient interview 13–14
patient safety
  monitors 207–212
  sedation law 197–200
pediatric patients, informed consent issues 214–215
penicillin 48
  discovery of 153
pennant elevators 77
Percocet 149
pericoronitis 8, 46–48, 47
periodontal ligament 23–24, 24
periodontal pathology and age 27–28
periosteal elevator 110, 111
periosteomes 81–83, 82
personal protective equipment (PPE) 84–86
  OSHA Regulations 93–94
personality disorders 19
pharmacology 131–157
  agonist drugs 133
  antagonist drugs 133
  antibiotics 153–156
  author’s medication regimen 156–157
  bioavailability of drugs 131–132
  combinations of analgesic agents 149–150, 151
  drug interactions 134
  drugs used in third molar removal 134–157
  efficacy of oral analgesics 149, 149
  FDA pregnancy risk categories 149, 149
  first-pass metabolism 132
  infection 153–156
  inflammation 150–152
  oral narcotics 131
  pain management 101, 140–150
  pharmacodynamics 133–134, 133
  pharmacokinetics 131–133, 132
  plasma half-life of drugs 133
  postoperative swelling 150–152
  potential for abuse 131
  sedation 134–140
  selection of appropriate drugs 131
  therapeutic index of drugs 134
  pharyngeal screen (gauze) 61, 61, 77, 90–91, 92, 93
physical assessment 16–18
pill crusher 184–185, 185
Plavix 53
polyglycolic acid (PGA) suture 88, 88
postoperative care 107–108
postoperative risks and age 28
postoperative swelling, pharmacology for 150–152
Potts elevators 81, 82
PPL instruments 81–83, 82–83
precordial stethoscope 211, 211–212
pregnancy
  contraindication for sedation 173
  FDA risk categories for drugs 134, 135
  pretracheal stethoscope 211, 211–212
  prevertebral space (danger space) infection 50, 52
primary space infections 49–50, 50
procedure manual for third molar mobile practice 233–257
  contractual agreement for dental services 250–252
  emergency procedures 238–240
  fees 255–256
  guidelines for third molar surgery 236–237
  instruments/operatory setup 237–238
  instruments/sterilization 238
  insurance 255–256
  introduction 235
  IV sedation and wisdom teeth briefing 248
  legal documents 253
  medical history form 241
  postsurgical instructions 244, 245
  scheduling letter 253
  scheduling protocol 254
  scheduling tips 254–255
  sedation record 246
  third molar impaction consent 247
  third molar research 249
  professional duty 218
  progress notes 217–218
  prophylactic antibiotics 156
  prophylactic removal of third molars, debate about 29–30
  proximal teeth, damage during third molar removal 57
  proximators 81–83, 82, 83
Index

Pseudomonas aeruginosa 100
psychological evaluation 18–19
pterygomandibular space
  displacement of third molars into 60
  infections 50, 50, 51
pulse oximeter 208–209, 209, 210
pus 48, 49, 56

Radiographic assessment of third molars
  20–27
  angulation 21–22, 22
  bone density and elasticity 24, 24
  combined root width 22, 23
  depth 20–21, 21
  periodontal ligament and follicle 23–24, 24
  position 20
  position relative to the inferior alveolar canal 25–26, 25–26, 26
  root length, size and shape 22–23, 23
rectal administration of drugs 175
reed, Ken 141
respiratory depression during sedation
  contraindication during pregnancy 173
  drugs used in third molar removal 134–140
  factors affecting the use of 102
  postoperative care 107–108
sedation emergencies 200–207, 208, 209
airway obstruction 200–201, 201
allergic reaction 202
anaphylaxis 202, 202
angina pectoris 203, 204
aspiration 203, 203
asthma attack 202–203, 202
bronchospasm 202–203, 202
cardiac arrest 204, 204
drug reversal 201, 201
emesis and aspiration 203, 203
hypertension 205, 206
hypoglycemia 206–207, 208
hypotension 205, 205
myocardial infarction 204, 204
patient safety and sedation law 197–200
respiratory depression 201, 201
seizure 206, 207
syncope 207, 209
sedation law, patient safety 197–200
sedation monitoring 207–212
sedation techniques 163–193
ADA clinical guidelines 167–173
ADA definitions 165–167
history of anesthesia 163–165
inhaled nitrous oxide (N₂O) 175, 176–182
intravenous sedation 185–193
levels of sedation 165–167
medical evaluation prior to sedation 173, 174
monitoring of patients 191–193
oral sedation 176, 183–184
routes of administration 174–176
sedation as a continuum 165–166
sublingual administration 184–185
seizures 206, 207
Seldin elevators 77, 79
Semmes Weinstein monofilament 39
septic shock 221
septic socket see alveolar osteitis
Silverman, Michael 183
sinuses, oral-antral communication 57–58
smoking, link with alveolar osteitis 42
SOAP progress notes 217–218
social media, promotion of your mobile practice 230
tissue flaps 107
space infections 49–52
specialty instruments 76
standard of care 218
Staphylococcus aureus 100
sterilization of instruments 99–100
straight elevators 78
Streptococcus infections 48
Streptococcus mutans 42
stress in dentists 225–226
subcutaneous air emphysema 105
subcutaneous injection 175
Sublimaze see fentanyl
sublingual administration of drugs 176, 184–185
sublingual space
  displacement of third molars into 60–61
  infections 50, 50–51
submandibular fossa 7–8, 7, 8
submandibular space
  displacement of third molars into 60–61, 60
  infections 50, 50–51
submasseteric space infections 50, 50, 51
submental space infections 50, 50–51
suction, disposable 87, 87
superficial temporal artery 4
supplemental dosing of sedation 167
Surgairtome drill 71–72, 71
surgical drills and motors 70–74, 74, 104–105
osteotomy and sectioning 104–105

Sabra OMS45 drill 71, 71
Salmonella choleraesuis 100
scalpel blades 90, 92
secondary space infections 49, 50
sedation
  contraindication during pregnancy 173
  drugs used in third molar removal 134–140
  factors affecting the use of 102
  postoperative care 107–108
sedation emergencies 200–207, 208, 209
airway obstruction 200–201, 201
allergic reaction 202
anaphylaxis 202, 202
angina pectoris 203, 204
aspiration 203, 203
asthma attack 202–203, 202
bronchospasm 202–203, 202
cardiac arrest 204, 204
drug reversal 201, 201
emesis and aspiration 203, 203
hypertension 205, 206
hypoglycemia 206–207, 208
hypotension 205, 205
myocardial infarction 204, 204
patient safety and sedation law 197–200
respiratory depression 201, 201
seizure 206, 207
syncope 207, 209
sedation law, patient safety 197–200
sedation monitoring 207–212
sedation techniques 163–193
ADA clinical guidelines 167–173
ADA definitions 165–167
history of anesthesia 163–165
inhaled nitrous oxide (N₂O) 175, 176–182
intravenous sedation 185–193
levels of sedation 165–167
medical evaluation prior to sedation 173, 174
monitoring of patients 191–193
oral sedation 176, 183–184
routes of administration 174–176
sedation as a continuum 165–166
sublingual administration 184–185
seizures 206, 207
Seldin elevators 77, 79
Semmes Weinstein monofilament 39
septic shock 221
septic socket see alveolar osteitis
Silverman, Michael 183
sinuses, oral-antral communication 57–58
smoking, link with alveolar osteitis 42
SOAP progress notes 217–218
social media, promotion of your mobile practice 230
tissue flaps 107
space infections 49–52
specialty instruments 76
standard of care 218
Staphylococcus aureus 100
sterilization of instruments 99–100
straight elevators 78
Streptococcus infections 48
Streptococcus mutans 42
stress in dentists 225–226
subcutaneous air emphysema 105
subcutaneous injection 175
Sublimaze see fentanyl
sublingual administration of drugs 176, 184–185
sublingual space
  displacement of third molars into 60–61
  infections 50, 50–51
submandibular fossa 7–8, 7, 8
submandibular space
  displacement of third molars into 60–61, 60
  infections 50, 50–51
submasseteric space infections 50, 50, 51
submental space infections 50, 50–51
suction, disposable 87, 87
superficial temporal artery 4
supplemental dosing of sedation 167
Surgairtome drill 71–72, 71
surgical drills and motors 70–74, 74, 104–105
osteotomy and sectioning 104–105
surgical principles 97–108
antibiotics 100–101
asepsis 98–100
candidates for local anesthesia with sedation 102
documentation prior to surgery 101
efficiency and speed 102–103
osteotomy and sectioning 104–105
pain medication 101
patient management 102
postoperative care 107–108
preoperative antiseptic mouthwash 101
preparation for surgery 97–101
role of surgical assistants 102–103
soft tissue management 107
surgical access 103–104
surgical site debridement 105–106
wound healing by secondary intention 107
surgical site infections (SSIs) 48–49
surgical tables and chairs 68, 68–69
surgical technique 108–125
angulations 122–125
germectomy 125–126
mandibular third molars 108–118
maxillary third molars 118–122
variations 108
suture materials 87–90, 88
suture needles 89–90, 90, 91
symptomatology and age 27
syncope 207, 209
t
teenage patients, early third molar removal 27–29
temporal muscle 3
temporal space infections 50, 50, 51
temporomandibular joint (TMJ), injury related to third molar surgery 62
tensor tympani muscle 3
tensor veli palatini muscle 3
tensor veli tympani muscle 3
testimonials 230
therapeutic index of drugs 134
third molar removal
debate over prophylactic removal xii, 29–30
incidence in the United States xi
potential income for dentists xi
reasons for learning the procedure xi
third molars, risk of caries xii
titration of sedation 167
tranexamic acid 53

transdermal patch 174–175
Trendelenburg position 203, 205
Treponema denticola 43
triazolam 134, 135–136, 136, 183, 184–185
sublingual administration 192–193
trigeminal nerve 1, 2, 3
trismus 49
tuberculocidal disinfectants 100
Twitter 230
Tylenol see acetaminophen

U
universal precautions 84
urticaria 202

V
vasoconstrictors 52 see also epinephrine
venipuncture 188–193
Verrill sign 191, 193
Versed see midazolam
vertebral space (danger space) infection 50, 52
vestibular space infection 49, 50
Vicodin 131 see also hydrocodone
von Willebrand disease 53

W
website for the mobile third molar practice 230
Weed, Lawrence 217
Weider retractor 75, 76, 77, 78
Wells, Horace 163–164, 164
wheel and axle elevators 77, 78, 80–81
Winter, George B. 21
word-of-mouth promotion of your practice 229
work space 67–94
Bloodborne Pathogens standard (OSHA Regulations) 93–94
disposable materials 86–93
equipment 68–74
ergonomics of 67–68
instruments 74–83
materials 83–93
musculoskeletal disorders in dentists 67–68
personal protective equipment (PPE) 84–86, 93–94

X
X cube motor 73, 73

Z
zolpidem 134, 137–138, 138