INDEX

Note: Page numbers in *italics* indicate figures. Page numbers followed by a "t" indicate tables. "Take-home messages" can be found at the end of each chapter.

A-β fibers, 16, 17 A-δ fibers, 13-15, 16, 17 Abdominal and pelvic pain, 29, 95-100 appendicitis, 96-97 bowel obstruction, 97 cholecystitis, 97 Crohn's disease, 96 diverticulosis/diverticulitis, 96 interstitial cystitis, 99 irritable bowel syndrome, 98-99 ovulatory/menstrual pain, 99-100 pancreatitis, 98 pelvic pain, 99-100 readings on, 106 ulcerative colitis, 95 Acetaminophen (APAP, Tylenol), 115-116 APAP-containing opioids (Darvocet, Endocet, Percocet, Tylenol with codeine, Vicodin), 116, 139t-141t, 147, 207 contraindications and cautions. 215t fixed-dose combinations APAP/codeine (Tylenol with codeine), 139t, 147 hydrocodone/APAP (Hycet, Lortab, Vicodin, Zydone), 139t-140t. 147 pentazocine/APAP (Talacen), 141t tramadol/APAP (Ultracet), 141t hepatotoxicity of, 115-116 indications and usages, 115 cancer-related pain, 207 lumbar spinal stenosis, 74 migraine headache, 127 older people, use in, 214, 215t Actig. See Fentanyl citrate. Acupuncture, 175-176, 200 Acute pain duration and characteristics of. 26-27 psychosocial risk factors in, 54, 55t recurrent, 27 toxic consequences of, 27 vs chronic pain, 26, 27 Acute Pain (journal), 255 Adaptive pain, 11 Addiction-medicine specialists, 244 Adolescents. See Children and adolescents.

Adson's test, 81 Age. See also Older people. changes in organ systems with, 213t chronic pain and, ix, 214 low back pain and, 187t AIDS-related neuropathies, 88 Alcohol abuse. See also Substance abuse. assessment of, 40-41, 54 Allodynia, 18, 20 Almotriptan (Axert), 127, 128t a-Adrenergic agonists, 22, 23, 174 a-Adrenergic blockers, 90 $\alpha 2\delta$ Ligands, 200, 200t Amerge. See Naratriptan. American Academy of Orofacial Pain (AAOP), 247 American Academy of Pain Management (AAPM), 248 recommendations for opioid therapy, 144t-146t American Academy of Pain Medicine (AAPM), 248 American Arthritis Society, 251 American Board of Pain Medicine, 242 American Cancer Society (ACS), 251 American Chronic Pain Association (ACPA), 253 American Headache Society (AHS), 251 American Pain Foundation (APF), 253 American Pain Society (APS), 248 recommendations for opioid therapy, 144t-146t American Society of Interventional Pain Physicians (ASIPP), 248 American Society of Pain Educators (ASPE), 249 American Society for Pain Management Nursing (ASPMN), 249 American Society of Regional Anesthesia and Pain Medicine (ASRA), 249 Amitriptyline (Elavil, others), 121, 122t, 216t for headache, 182, 183, 184 AMPA receptors, 16, 17 Amrix. See Cyclobenzaprine. Amygdala, 18, 19 Analgesia Analgesic Ladder, Three-Step (WHO), 205-207, 206 sites of action of pharmacologic agents, 22, 23 Anesthesiologists, 243, 245 Anesthetics local. 131-133 for phantom limb pain, 90 Angina, 93, 93t Ansaid. See Flurbiprofen. Anterior cingulate cortex, 18, 19 Anti-inflammatory agents, 116-120 corticosteroids, 120 nonsteroidal agents, 116-120 Anticholinergics, for esophageal motility disorders, 95

Anticonvulsants, 124-126, 125t classes of, 124, 125t calcium channel modulators, 125t GABAergic and mixed actions. 125t sodium channel modulators, 125t indications and uses, 124, 125t, 126 cancer-related pain, 207 **CRPS**. 80 headache, 68, 127, 128t, 183 low back pain, 189, 191 peripheral artery disorders, 91 phantom limb pain, 91 postherpetic neuralgia, 87, 125t, 201, 202 radiation-induced pain, 105 thoracic outlet syndrome, 81 vulvodynia, 102 site of action of, 22, 23 Antidepressants, 120-124, 122t-123t agents and dosages, 122t-123t atypical, 123t, 124 indications and usages, 120-124 AIDS-related neuropathies, 88 cancer-related pain. 207 headache, 68, 182 low back pain, 189, 191 neuropathic pain, 195, 196t phantom limb pain, 91 postherpetic neuralgia, 87, 88, 121, 201, 202 radiation-induced pain, 105 vulvodynia, 102 selective serotonin reuptake inhibitors (SSRIs), 121, 122t serotonin and norepinephrine reuptake inhibitors (SNRIs), 121-124, 123t site of action of. 22. 23 tricyclic, 120-121, 122t. See also Tricyclic antidepressants. Antihistamines, for vulvodynia, 102 Antimalarials, for rheumatoid arthritis, 84 Antimigraine agents, 125t, 127, 128t Antipsychotics, 127-129, 207 Antispastics/muscle relaxants, 129-131, 130t Anxiety, antidepressants for, 121 Anxiety assessment, 39 Beck Anxiety Index (BAI), 39 Hamilton Anxiety (HAM-A) Scale, 39 Anxiolytics, 126-127 APAP. See Acetaminophen. Appendicitis, 96-97 Arachidonic acid (AA), 20, 21 Aripiprazole, 129 Arthritis Foundation, 253

Arthrography, 52 Arthropathies, 81-86 gout, 85-86 osteoarthritis, 81-83 reactive arthritis, 84-85 readings on, 106-107 rheumatoid arthritis, 83-84 societies and associations for. 251, 253 Arthrotec. See Diclofenac. Aspirin (Ecotrin, others), 116-117, 118t indications and usages, 116, 127, 182 oxycodone/aspirin (Percodan, Endodan), 140t Assessment depression and anxiety, 37-39 Assessment of pain, 33-44 Brief Pain Inventory (BPI), 36-37 in children, 218-220, 219t initial pain assessment tool, 36 McGill Pain Questionnaire (MPQ), 37 monodimensional scales, 33-36, 34. See also Pain scales. multidimensional tools, 36-37 in older people, 211-212 substance abuse screening with, 39-43 tools for. 33-37. 34 Assessment of psychosocial functioning, 54-55, 55t Assessment of substance abuse/potential, 39-43, 234-236 alcohol abuse screening tools, 40-41 drug abuse screening tools, 39-43 opioid abuse screening tools, 41-43 Associations, organizations, and societies, 247-252 Atomoxetine, 133 Atypical antidepressants, 123t, 124 Avinza. See Morphine, controlled-release. Avoidance responses, 15 Axert. See Almotriptan. Back pain, 68-76. See also Low back pain.

Back pain, 68-70. See also Low back pain. treatment of, 185-191 Baclofen, 129-131, 130t BDNF, 17 Beck Anxiety Index (BAI), 39 Beck Depression Inventory (BDI), 38 Behavioral interventions, 171 for headache, 184 Behavioral therapy, 171, 200, 202 Benzocaine, 131 Benzodiazepines, 126-127 β -Adrenergic blockers for angina/MI, 93 for headache, 68, 127, 183 Biofeedback, 51, 170 Bisphosphonates, for bone metastases, 102 BK (bradykinin) receptor, 20 Bone metastases, 102 Books on pain. 260-261 Botulinum toxin, 130t, 131 indications and usages, 131 esophageal motility disorders, 95 headache, 68, 127, 131 Bowel obstruction, 97 Bradykinin (BK), 18, 21 Bradykinin (BK) receptor, 20 Brain neuroplasticity, 18-20 pain processing centers in, 18, 19 Breakthrough pain, in cancer patients, 135, 136t, 207, 223 Brief Pain Inventory (BPI), 36-37 Bupivacaine, 131 Bupropion (Wellbutrin), 123t, 124 Buspirone, 127 Butalbital, 127 Butorphanol (Stadol), 134, 141t, 143 C-fibers. 13, 15, 16, 17 overexpression of sodium channels on, 20, 21 TENS action on, 169 C-reactive protein (CRP), 85 Caffeine, for headache pain, 127, 133, 183, 184 CAGE-AID, 40-41 Calcitonin for CRPS, 80 for phantom limb pain, 91 Calcium channel blockers/modulators, 124-126, 125t indications and usages, 125t angina/MI. 93 diabetic neuropathic pain, 200, 200t esophageal motility disorders, 95 headache, 68, 127 neuropathic pain, 195, 196t postherpetic neuralgia, 201, 202 Raynaud's phenomenon, 92 intrathecal delivery of, 175 Canadian Pain Society (CPS), 249-250 Cancer headache with. 70t society for, 251 Cancer patients palliative care for, 28, 222-223 terminally ill, 223-224

Cancer-related pain, 102-105 bone metastases, 102 differentiation from noncancer pain, 28 diversity/spectrum of. 205 evaluation/algorithm for, 206 pancreatic cancer, 103 paraneoplastic syndromes, 104 plexopathy, 104 radiation-induced pain, 104-105 readings on, 108 soft tissue involvement, 103 spinal cord compression, 102-103 terminally ill patients, 222-223 treatment options, 27, 205-208, 206 for breakthrough pain, 135, 136t, 207, 223 with disease remission, 28 palliative care, 28, 222-223 surgical methods, 208 WHO Three-Step Analgesic Ladder for. 205-207. 206 Capsaicin, 132-133 indications and usages, 87, 132, 201-202, 202 patch (Qutenza), 133, 201, 202 Carbamazepine (Tegretol, Tegretol-XR), 125t, 126, 201, 202 Cardiac/central chest pain, 92-94, 93t Carisoprodol (Soma, others), 129, 130t Carpal tunnel syndrome, 76-79, 203-204 treatment of, 77-78, 204 Categoric scales for pain, 34, 35-36 Cauda equina syndrome, 72-73, 90, 187t, 189, 190 Causalgia. See Complex Regional Pain Syndrome type 2. Causes of pain, 11-13, 12, 28-29 Celebrex. See Celecoxib. Celecoxib (Celebrex), 117, 119t Celexa. See Citalopram. Celiac block, 103 Central pain modification failure, 29, 100-102 fibromyalgia, 100-101, 101t interstitial cystitis and, 99 irritable bowel syndrome and, 98 readings on, 109 temporomandibular joint disorder, 101 vulvodvnia, 102 Central perception of pain, 16-17 analgesic medications and. 23 Central sensitization, 16-17 Cervicogenic headaches, 65-66 treatment of, 131 Chemical sensitivities, 29

Chest pain cardiac/central chest, 92-94, 93t nonvascular, 94-95 readings on, 108 Children and adolescents, 217-222 pain assessment in, 218-220, 219t, 221-222 FLACC Scale, 218, 219t infants and preverbal children, 218, 219t, 221-222 pain management in, 220-222 Chiropractic manipulation, 74, 175-176 Chloroprocaine, 131 Chlorpromazine, 129 Chlorzoxazone (Parafon Forte DSC), 129, 130t Cholecvstitis, 97 Chronic daily headache, 66-67 Chronic pain age and, ix, 214 cancer. See Cancer-related pain. cancer vs noncancer. 28 consequences of, 27 duration and characteristics of, 26, 27 management of, 27 noncancer (CNCP), 28, 144t-146t pelvic, 99-100 psychosocial risk factors in, 54, 55t societies and associations for, 253-255 treatment of cancer. 27. 28 low back, 190-191, 192-193 noncancer, 27, 143, 144t-146t vs acute pain, 26, 27 Citalopram (Celexa, others), 122t Classification of headache, 58, 59t Classification of pain. 11-13. 25-32 acute vs chronic, 26-27 criteria for intensity of pain, 30 location of pain. 26. 28-29 temporal characteristics, 26-27 underlying pathology, 28-30 what we do not understand, 25 primary types of pain, 11-13, 12 reality of pain/placebo use, 30-31 subacute or recurrent, 27 Clinical Journal of Pain, The, 255 Clinical trials of new agents/indications, 147-162 Clinoril. See Sulindac. Clonazepam, 126 Clonidine, 174, 195

Cluster headache, 64-65, 65t treatment of. 131, 184, 185 Codeine, 134, 135 fixed-dose combination (codeine/APAP), 139t, 147 immediate-release, 134, 136t Cognitive behavioral therapy (CBT), 171, 200, 202 Colchicine, 86 Common pain syndromes. See Pain syndromes. Complex regional pain syndrome (CRPS), 79-80 treatment of, 80, 173 type 1 (formerly reflex sympathetic dystrophy), 28, 31, 79-80 type 2 (formerly causalgia), 28, 79, 80 Complimentary and alternative medicine (CAM), 175-176 Computed tomography (CT), 50-51 for headache, 61-62 for low back pain, 73, 190 Constipation, from opioid therapy, 143-147, 207-208 Controlled-substance prescribing. See Medicolegal considerations. Corticosteroids, 120 indications and usages, 120 cancer-related pain, 207 gout, 86 herniated disk. 74 pericarditis, 94 plexopathy, 104 spinal cord compression, 103 older people, use in, 216t Cost-burden of pain. ix COX (cyclooxygenase), 20, 21 COX-2 inhibitors (Celebrex), 22, 23, 117, 119t older people, use in, 214, 215t Cranial neuralgia, 59t Crohn's disease, 96 CRPS. See Complex regional pain syndrome. Cryotherapy, 169 Cubital tunnel syndrome, 78 Current Pain and Headache Reports (journal), 255 Cushing's syndrome, 172 Cyclobenzaprine (Flexeril, Amrix, others), 129, 130t Cymbalta. See Duloxetine. Cystitis, interstitial, 99 Cytokines, 20, 21 Darvocet (propoxyphene/APAP), 141t Darvon (propoxyphene), 135, 137t DAST (Drug Abuse Screening Test), 41 Daypro. See Oxaprozin.

Deep-brain stimulation, 197

Demerol. See *Meperidine*. Denervation, surgical, 174

Depakote ER. See Divalproex. Depression antidepressants for, 121-124 assessment of. 37-39 Beck Depression Inventory (BDI), 38 Hamilton Depression Rating Scale (HAM-D), 37-38 Zung Self-Rating Depression Scale, 38-39 Descending inhibitory control, 13, 16, 17 failure of. 29 Desipramine (Norpramin), 122t, 196t, 200t Desvenlafaxine (Pristiq), 123t, 124 Desyrel. See Trazodone. Dexamethasone, 120 Dextroamphetamine, 133 Diabetic neuropathy, 86-87 pregabalin for, 126 TCAs for, 121 Diabetic peripheral neuropathic pain (DPNP), 150-152, 197-200 clinical presentations, 87, 198-199 treatment options, 197-200, 200t antidepressants, 124, 200, 200t calcium channel modulators, 125t, 200, 200t capsaicin, 132 duloxetine, 124, 150-152, 152, 200t new agents and indications, 150-152, 152, 153 opioid agonists, 200, 200t pregabalin, 152, 153, 200t Diagnosis of pain patient. See Evaluation and diagnosis. Diagnosis, Intractability, Risk, and Efficacy (DIRE) Score, 41-42 Diathermy, 169 Diazepam, 126 Diclofenac (Arthrotec, Flector, Pennsaid, Solaraze, Voltaren, Zipsor), 117. 118t formulations and dosages, 117, 118t topical formulations, 117 indications and usages, 117 Dilaudid. See Hydromorphone. Dimethyl sulfoxide, for CRPS, 80 Diplopia, 179 DIRE (Diagnosis, Intractability, Risk, and Efficacy) Score, 41-42 Disability, psychosocial factors for development of, 55t Disease-modifying antirheumatic drugs (DMARDs), 83-84, 85 Disk herniation, 73-74 Diskography, 52 Divalproex (Depakote ER), 125t Diverticulosis/diverticulitis, 96 DMARDs. See Disease-modifying antirheumatic drugs. Documentation, 233-234 Dolophine. See Methadone. Dorsal horn, 15-17, 16, 17

Dorsal root entry zone (DREZ) lesioning, 197, 202 Doxepin (Sinequan), 122t, 216t DREZ lesioning, 197, 202 Drug Abuse Screening Test (DAST), 41 Drug abuse. See Substance abuse. Drug Enforcement Agency (DEA), 234-236 Drugs. See Pharmacologic treatment of pain. Duloxetine (Cymbalta), 123t, 124 for diabetic peripheral neuropathic pain, 124, 150-152, 152, 200t for fibromyalgia, 124, 148-149, 150 for neuropathic pain, 196t Duragesic. See Fentanyl. Ecotrin. See Aspirin. Effexor. See Venlafaxine. Elavil. See Amitriptyline. Elderly patients. See Older people. Electrodiagnostic tests, 52-53 for carpal tunnel syndrome, 204 for low back pain, 73 Electromyography (EMG), 52 Eletriptan (Relpax), 127, 128t Embeda, Embeda ER (morphine/naltrexone), 140t, 162, 163 Endocet (oxycodone/APAP), 116, 140t Endodan (oxycodone/aspirin), 140t Entrapment neuropathies, 76-79, 203-204 carpal tunnel syndrome, 76-79, 203-204 cubital tunnel syndrome, 78 pronator syndrome, 77-78 treatment of, 77-78, 203-204 ulnar tunnel syndrome, 204 Epidural steroid injections, 74, 172 Ergot derivatives, for headache, 68, 127, 183, 184, 185 Ervthromelalgia, 91 Escitalopram (Lexapro), 122t Esophageal motility disorders, 95 Eszopiclone, 127 Ethnic and racial minorities, 222-223 Etidocaine, 131 Etodolac, etodolac ER (Lodine, Lodine XL), 118t European Journal of Pain, 255 Evaluation and diagnosis, 45-56 diagnostic studies and interventions, 50-54 electrodiagnostic tests, 52-53 imaging studies, 50-52 neural blockade, 53-54 dual-diagnosis patients, 224 history, 45-46, 47t, 179-182 laboratory/diagnostic testing, 49-54 laboratory studies, 49-50

Evaluation and diagnosis (continued) physical examination, 46, 48t-49t PQRST mnemonic, 46 psychosocial assessment, 54-55, 55t Exalgo. See Hydromorphone. Examinations. See Evaluation and diagnosis. Exercise, 168, 191, 200 Extremity pain. 76-81 complex regional pain syndrome (CRPS), 79-80 repetitive stress/strain and entrapments, 76-79, 203-204 thoracic outlet syndrome, 80-81 Faces Pain Scale (FPS) for Adults and Children, 34, 35-36, 220 Facial pain, 59t Facial Pain Association, The, 251 Failure of central pain modification. See Central pain modification failure. FDA (Federal Drug Administration), 236-237 FDAAA (FDA Amendment Act. 2007), 236-237 Federation of State Medical Boards requirements, 228-230 Feldene. See Piroxicam. Fentanyl, 134-135, 142, 147, 207 controlled-release (Duragesic), 134, 135, 137t, 207 ultra-rapid acting (fentanyl/fentanyl citrate), 134, 135, 136t, 154-156, 223 Fentanyl citrate (Actig, Fentora, others), 134, 136t, 154-156, 223 buccal tablets (FBT; Fentora), 136t, 154, 155 dosages and cautions, 136t, 154 FBSF (Onsolis), 134, 135, 136t, 156, 156 oral transmucosal (OTFC; Actig, others), 134, 136t, 154 Fentora. See Fentanyl citrate. Fibromyalgia, 100-101 causes of, 29, 100 clinical features of, 100, 101t societies and associations for, 252, 253-254 treatment of, 101 duloxetine, 124, 148-149, 150 milnacipran, 124, 149-150, 151 muscle relaxants, 129 new agents and indications, 147-150, 148, 149 pregabalin, 125t, 126, 147-148, 148, 149 FLACC Scale, 218, 219t Flector. See Diclofenac. Flexeril. See Cyclobenzaprine. Flick sign, 76 Fluoxetine (Prozac), 122t Flurbiprofen (Ansaid), 118t Fluvoxamine (Luvox, others), 122t Food and Drug Administration (FDA), 236-237 Frovatriptan (Frova), 127, 128t

Functional pain, 12, 13 GABAergic and mixed action anticonvulsants. 124-126, 125t Gabapentin (Neurontin), 125t indications and usages AIDS-related neuropathies, 88 neuropathic pain, 196t, 200, 200t postherpetic neuralgia, 87, 125t, 126, 201, 202 Gastroesophageal reflux, 94-95 Geriatric patients. See Older people. GI protection. 215t Glutamate, 15, 16, 17 Golden 100 days, 27 Gout, 85-86 Haloperidol, 129 Hamilton Anxiety (HAM-A) Scale, 39 Hamilton Depression Rating Scale (HAM-D), 37-38 Headache and neck pain, 58-68. See also Headache treatment. cervicogenic headaches, 65-66 chronic daily headache, 66-67 classification of headache, 58, 59t cluster headache, 64-65, 65t frontotemporal headache, unilateral, 182 history, 58-61, 60t, 179-182 imaging studies for. 61-62 medication overuse headache, 66, 67 migraine headache, 62-64, 63t, 183 other causes, 59t, 66, 68 physical examination, 61, 182 primary vs secondary headaches, 58, 59t readings on, 109-111 rebound headache, 182 red flags in diagnosis of, 68, 70t-71t societies and organizations for, 251, 254 tension-type headache, 64, 64t "thunderclap" headache, 61, 70t, 179 treatment of. See Headache treatment. vascular headaches, 62-64, 182-183 worsening pattern of, 70t Headache treatment, 179-185, 180-181 algorithm/management strategy, 180-181 antimigraine agents, 125t, 127, 128t cluster headache, 131, 184, 185 general considerations, 68 migraine headache, 183, 184 tension headache, abortive/prophylactic treatment, 182 vascular headaches, 182-185, 184 Heat/ice packs, 168

Functional MRI (fMRI), 51

Helicobacter pylori, 215t Herniated lumbar disk, 73-74, 187 Herpes zoster (shingles), 87, 201. See also Postherpetic neuralgia. Hippocampus, 18, 19 History, 45-46, 47t headache, 58-61, 60t, 179-182 low back pain, 186-190, 187t medication, 46, 47t Hospice, 147, 223-224 Hycet. See Hydrocodone/APAP. Hydrocodone, 134, 135, 147 Hydrocodone/APAP (Hycet, Lortab, Vicodin, Zydone), 139t-140t, 147 Hydrocodone/ibuprofen (Vicoprofen), 140t Hydrocortisone, 120 Hydromorphone, 134, 135, 142 controlled/extended-release (Exalgo), 137t, 160-161, 161 high-concentration, 147 immediate-release (Dilaudid, others), 134, 136t ultra rapid-acting (Dilaudid, others), 134, 136t Hyperalgesia, 13, 18 Hyperarousal, 29 Hypothalamus-pituitary axis, 172 Ibuprofen (Motrin), 118t hydrocodone/ibuprofen (Vicoprofen), 140t Imaging studies for headache evaluation, 61-62, 182 for pain evaluation, 50-52 Imipramine (Tofranil-PM), 122t, 216t Imitrex. See Sumatriptan. Implantable drug-delivery system (IDDS), 174-175 Inadequate pain management, consequences of, x Incarcerated individuals, 224-225 Indocin. Indocin-SR. See Indomethacin. Indomethacin, indomethacin-SR (Indocin, Indocin-SR), 118t Infants, pain assessment in, 218, 219t, 221-222 Inflammatory pain, 12-13, 12, 28-29. See also Anti-inflammatory agents. somatic vs visceral, 28-29 Influenza vaccination, 84 Inhibitory mechanisms (modulation), 13, 17 failure of, 29, 100-102. See also Central pain modification failure. Initial pain assessment tool, 36 Injuries of nerves/nervous system. See Neuropathic pain. Insular cortex, 18, 19 Intensity of pain classification by, 30 continuum of. 30 Interleukin 1-B (IL-1B), 20, 21 International Association for the Study of Pain (IASP), 250

International MYOPAIN Society (IMS), 250 Interstitial cystitis, 99 Interventional therapies, 171-175. See also *Nonpharmacologic and interventional therapies*. Intrathecal drug delivery, 174-175 Irritable bowel syndrome, 98-99 Isometheptene, 127, 183, *184* Journals and publications on pain, 255-259 *Journal of Musculoskeletal Pain* (JMS), 256

Journal of Musculoskeletal Pain (JMS), 256 Journal of Opioid Management, 256 Journal of Orofacial Pain, 256 Journal of Pain and Palliative Care Pharmacotherapy, 256 Journal of Pain. The, 256

Kadian. See *Morphine, controlled-release*. Ketamine, 132, 174-175 Ketoprofen, ketoprofen-SR (Orudis, Oruvail), 118t

Laboratory/diagnostic testing, 49-54 Lamotrigine, 88 Laws. See Medicolegal considerations. Laxatives, with opioid therapy, 143-147, 208 Legal issues. See Medicolegal considerations. Levo-Dromoran. See Levorphanol. Levorphanol (Levo-Dromoran), 134, 139t, 142, 200t Lexapro. See Escitalopram. Lidocaine, 54, 131, 132 indications and usages headache, 184, 185 neuropathic pain, 195, 196t, 200, 200t, 216t postherpetic neuralgia, 87, 201, 202 patch formulation (Lidoderm), 132, 200, 200t Lidoderm. 132. See also Lidocaine. Local anesthetics, 131-133. See also Capsaicin; Lidocaine. administration methods, 132 for diagnostic neural blockade, 53-54 Location of pain classification by, 26, 28-29 in physical examination, 48t Lodine, Lodine XL, 118t. See also Etodolac. Lortab. See Hydrocodone/APAP. Low back pain (LBP), 68-76 cauda equina syndrome, 72-73 causes of, 68-73, 190t red flags/life-threatening causes, 69-72, 72t, 187t clinical features of, 68-69 cost of. 68 diagnostic studies for. 73 herniated lumbar disk, 73-74, 187

Low back pain (LBP) (continued) history and exam for, 186-190 red flags in, 187t lifetime occurrence of, 68 lumbar facet syndrome, 75 lumbar radiculopathy, 68-73 lumbar spinal stenosis, 74-75 readings on, 107 risk factors for serious underlying disease, 72t sacroiliac joint dysfunction, 75-76 self-limiting nature of, 185 treatment of, 185-191 acute LBP, 186-190, 188-189 chronic LBP, 190-191, 192-193 conservative, 196 tizanidine, 131 Lumbar disk, herniated, 73-74, 187 Lumbar facet syndrome, 75 Lumbar puncture, 182 Lumbar radiculopathy, 68-73 Lumbar spinal stenosis, 74-75 Lung diseases, 94 Luvox. See Fluvoxamine. Lyrica. See Pregabalin. Macrophages, 20, 21 Magnetic resonance imaging (MRI), 51 functional (fMRI), 51 for headache. 62 for low back pain, 73, 190 Maladaptive pain, 11 Massage, 168, 176, 191, 200 MAST. See Michigan Alcoholism Screening Test. Maxalt, Maxalt-MLT. See Rizatriptan. McGill Pain Questionnaire (MPQ), 37 MDNG: Pain Management (journal), 259 Meclofenamate, 118t Medical Outcome Study Short-Form 36, 36, 54 Medication overuse headache (MOH), 66, 67 Medications. See Pharmacologic treatment of pain. Medicine, laws, and regulations. See Medicolegal considerations. Medicolegal considerations, 227-239 authority of states, 227 documentation. 233-234 Drug Enforcement Agency, 234-236 FDA and FDAAA, 236-237 Federation of State Medical Boards requirements, 228-230 pain-management medicine, 227-228 responsibilities of the prescriber. 230-233 Meetings on pain (annual, US), 259

Meloxicam (Mobic), 118t Menstrual pain, 99-100 Meperidine (Demerol), 136t Mepivacaine, 131 Metaxalone (Skelaxin), 129, 130t Methadone (Dolophine), 134, 139t, 142, 200t, 237 cautions on, 144t, 216t Methocarbamol, 129, 130t Methotrexate, 84 Methylphenidate, 133 Methylprednisolone, 120, 202, 202 Mexiletine, 88 Michigan Alcoholism Screening Test (MAST), 41 Microglial cells, 15, 17 Midline chest pain, 92-94, 93t Midrin, 183, 184 Migraine headache, 62-64, 63t treatment of, 127, 128t, 183, 184 abortion, 127, 128t, 183 fixed-dose combination agents, 127 prophylaxis/prevention, 125t, 126, 127, 183 with vs without aura, 62-64, 63t, 183 Military personnel with combat trauma, 224 Milnacipran (Savella), 123t, 124 for fibromyalgia, 149-150, 151 Minerals, for headache, 68, 127 Mini-Mental State Examination (MMSE), 54 Minnesota Multiphasic Personality Inventory (MMPI), 54 Minorities, 222-223 Mirtazepine, 121 Mittelschmerz, 99 Mobic. See Meloxicam. Modafinil, 133 Molecular Pain (journal), 257 Monoamine oxidase inhibitors (MOAIs), 124 Morphine, 134, 147, 200t controlled-release (Avinza, Kadian, Oramorph SR, MS Contin), 138t. 142 fixed-dose combination (morphine/naltrexone, Embeda), 140t, 162, 163 immediate-release, 137t ultra rapid-acting, 134, 136t Motrin. See Ibuprofen. MRI. See Magnetic resonance imaging. MS Contin. See Morphine, controlled-release. Muscle relaxants, 129-131, 130t for low back pain, 189, 191 Musculoskeletal system examination, 49t Myelography, 52 Myocardial infarction (MI), 93, 93t

Myofascial pain, 95, 111 society for, 250 treatments of, 131 Myopathies, 50 Nabumetone (Relafen), 119t Nalbuphine (Nubain), 134, 141t, 143 Naloxone, 134 Naloxone/pentazocine (Talwin NX), 141t Naltrexone, 134 Naltrexone/morphine (Embeda), 140t, 162, 163 Naprosyn. See Naproxen. Naproxen (Naprosvn), 119t sumatriptan/naproxen (Treximet), 127, 128t Naratriptan (Amerge), 127, 128t Narcotic, terminology, 133 National Fibromyalgia Association (NFA), 253-255 National Fibromyalgia Research Association (NFRA), 252 National Headache Foundation (NHF), 254 National Vulvodynia Association (NVA), 252 Neck pain. See Headache and neck pain. Nerve blocks, diagnostic, 53-54 Nerve conduction studies (NCSs), 53 Nerve conduction velocity (NCV) measurements, 50, 53 Nerve growth factor (NGF), 20, 21 for AIDS-related neuropathies, 88 Nerve injuries. See Neuropathic pain. Nerve roots compression of, 72-73 pain of, 68-76 surgical denervation, 174 Neuralgia cranial. 59t postherpetic, 201 trigeminal, 125t, 126 Neurobiofeedback, 51 Neurogenic claudication, 74 Neurologic examination, 48t-49t Neurontin. See Gabapentin. Neuropathic pain, 12, 13, 194-195 causes of, 194 characteristics of. 29 classification of, 28, 29 diabetic peripheral neuropathic pain (DPNP), 150-152, 197-200 postherpetic neuralgia, 87-88, 201 red flags for further investigation/referral, 184t societies and associations for, 254-255 subtypes of, 29 Complex Regional Pain Syndromes type 1 and type 2, 28

Neuropathic pain (continued) treatment of, 29, 195-202, 196t antidepressants, 121-124 DPNP. 197-200, 200t new agents and indications, 150-152, 152, 153 lidocaine, 195, 196t, 200, 200t, 216t postherpetic neuralgia, 201-202, 202 spinal cord stimulation, 173, 197, 200 stepwise approach, 195, 196t Neuropathic Pain Network (NPN), 254 Neuropathies, 86-91 AIDS-related. 88 diabetic, 86-87, 150-152, 197-200 entrapment, 76-79, 203-204 peripheral, 29 phantom limb pain, 90-91 postherpetic neuralgia (PHN), 87-88 radiation. 90 readings on. 111-112 toxic, 88-89, 89t Neuropathy Association, Inc., The, 254-255 Neuroplasticity, 18-20 Nitrates for angina/MI, 93 for esophageal motility disorders, 95 Nitroglycerin for esophageal motility disorders, 95 topical, for Raynaud's phenomenon, 92 NK-1 receptors. 17 NMDA receptor-antagonists, 91 NMDA receptors, 16-17, 17 Nociceptive pain, 11-12, 12 adaptive quality of, 11-12 classification of, 28-29 processing steps, 13-18, 14 second-order neurons and, 15-16, 16, 17 Nociceptors, changes in, 18-20, 21 Noncancer pain, chronic (CNCP), 28, 144t-146t Noninflammatory/nonneuropathic (functional) pain, 12, 13 Nonpharmacologic and interventional therapies, 167-178 biofeedback, 170 complimentary and alternative medicine, 175-176 interventional therapies, 171-175 intrathecal drug delivery, 174-175 spinal cord stimulation, 173 steroid injections, 172 surgical denervation, 174 trigger-point injections, 171-172 overview, 167 physical/occupational therapy, 167, 168

psychological/behavioral interventions, 167, 171 thermal modalities, 168-169 transcutaneous electrical nerve stimulation (TENS), 169-170 Nonsteroidal anti-inflammatory agents, 116-120 older people, use in, 214, 215t Nonsteroidal anti-inflammatory drugs (NSAIDs), 117-120, 118t-119t actions of, 117 sites of action, 22, 23 agents and dosages, 118t-119t contraindications and cautions, 215t COX-2 selective, 117, 119t indications and uses, 117 carpal/ulnar tunnel syndrome, 204 CRPS, 80 gout, 86 headache, 68, 127, 182 herniated disk, 74, 187 low back pain. 189, 191 lumbar spinal stenosis, 74 osteoarthritis, 82 reactive arthritis, 85 rheumatoid arthritis. 84 topical agents, 117 nonselective, 118t-119t side effects, 117-120 Nonvascular pain. 94-95 chest, 94-95 esophageal motility disorders, 95 gastroesophageal reflux, 94-95 myofascial pain, 95 Norepinephrine, 17 Norpramin. See Desipramine. Nortriptyline (Pamelor, others), 122t, 196t, 200t NRS. See Numeric rating scale. NSAIDs. See Nonsteroidal anti-inflammatory drugs. Nubain. See Nalbuphine. Nuclear medicine scanning, 52 Nucynta. See Tapentadol IR. Numeric rating scale (NRS), 34-35, 34 Nurses, 242-243 Nutritional regimens/supplements, 175 Occupational therapy, 167, 168 Olanzapine, 129 Older people, 211-217 changes in organ systems, 213t guidelines for pharmacologic therapy, 214, 215t-216t opioid use in. 214-217. 215t-216t 100 days, first or golden, 27

Nonpharmacologic and interventional therapies (continued)

Onsolis. See Fentanyl citrate. Opana, Opana ER, See Oxymorphone. Opioid Risk Tool (ORT), 42 Opioids, 133-147, 136t-141t abuse potential, 145t, 147 recognizing, 234-236 screening tools for, 41-43 abuse-resistant and -deterrent formulations. 236-237 actions of (agonist, antagonist, mixed), 134 administration routes/delivery methods, 134-135, 142, 147 cautions on, 142 neuraxial administration, 147 agents and dosages, 136t-141t APAP-containing (Vicodin, Percocet), 116, 139t, 140t APS-AAPM recommendations for use, 143, 144t-146t cessation of therapy, 232 classes/characteristics of, 134 controlled-release (CR), 134, 137t-139t, 142-143, 237 extended-release (ER), 159-162, 160, 161, 163 fixed-dose combinations, 139t-141t immediate-release (IR), 134, 135, 136t-137t, 156-159, 158, 159 long-acting, 134, 139t ultra rapid-acting/topical, 134, 136t, 147, 154-156, 155, 156 indications and usages, 135, 136t-141t, 143 angina/MI, 93 cancer-related pain, 102, 103, 105, 206, 207, 223-224 breakthrough pain, 135, 136t, 146t, 207, 223 palliative care, 223-224 chronic noncancer pain, 143, 144t-146t chronic opioid therapy (COT), 144t-146t CRPS, 80 diabetic neuropathic pain, 200t headache, 68, 127 herniated disk, 74, 187 low back pain, 189, 191 lumbar spinal stenosis, 74 neuropathic pain, 195, 196t osteoarthritis. 82 pancreatitis, 98 pericarditis, 94 phantom limb pain, 90-91 pleuritis, 94 postherpetic neuralgia, 87, 88, 202, 202 medicolegal considerations, 146t, 147, 227-239 documentation, 233-234 FDA and FDAAA, 236-237 Federation of State Medical Boards requirements, 228-230 periodic reviews, 216t, 231-233 Risk Evaluation and Mitigation Strategies (REMS), 237 "universal precautions" for prescribing, 229-230

Opioids (continued) monitoring during use, 144t-145t older people, use in, 214-217, 215t-216t patient selection for. 144t. 145t in pregnancy, 146t receptor binding by, 134 side effects (constipation), 143-147, 145t, 207-208 sites of action of. 22. 23 6 or 7 A's of therapy, 232 useful publications for prescribers, 260 Oramorph SR. See Morphine, controlled-release. Organizations. See Societies and organizations. Orphenadrine, 129, 130t ORT (Opioid Risk Tool), 42 Orudis. See Ketoprofen. Oruvail. See Ketoprofen-SR. Osteoarthritis (OA), 81-83 treatment of, 82-83, 115 Osteoporosis, 186 Oucher Scale, 220 Ovulatory/menstrual pain, 99-100 Oxaprozin (Daypro), 119t Oxycodone, 134, 135, 142, 200t controlled-release (OxyContin), 134, 138t, 142 fixed-dose combinations oxycodone/APAP (Percocet, Endocet, others), 140t oxycodone/aspirin (Percodan, Endodan), 140t immediate-release, 134, 137t OxyContin. See Oxycodone, controlled-release. Oxygen, for cluster headache, 185 Oxymorphone (Opana), 134, 135 controlled/extended-release (Opana ER), 139t, 159-160, 160 immediate-release, 137t ultra rapid-acting, 136t

Pain. See also Acute pain; Chronic pain; Classification of pain. acute vs chronic, 26-27 causes of, 11-13, *12*, 28-29 classification/types of, 11-13, 25-32 definition of, 11 placebos and, 31 processing mechanisms, 13-18, *14* reality of, 30-31 science of, 11-24 scope and burden of, ix-x subacute or recurrent, 27 PAIN (journal), 257 Pain advocacy groups, 253-255 Pain assessment. See Assessment of pain. Pain associations, organizations, and societies, 247-252 Pain history, 45-46, 47t Pain intensity. See Intensity of pain. Pain journals/publications, 255-259 Pain-management medicine, 227-228 Pain Management Nursing (journal), 257 Pain-management specialists. See Pain specialists. Pain medicine (field of), 241-242 Pain Medicine (journal), 257 Pain Medicine News (journal), 259 Pain Physician (journal), 257 Pain Practitioner, The (journal), 258 Pain processing mechanisms, 13-18, 14 brain. 18. 19 dorsal horn. 15-17. 16 neuroplasticity and, 18-20 nociceptive pain, 13-18, 14 second-order neurons, 15-16, 16, 17 sites of action for analgesic agents, 22, 23 transduction, 13-15, 14 transmission, 14, 15-17, 16 Pain questionnaires, 36-37 Pain Research & Management (journal), 257-258 Pain scales. 33-37. 34 categoric scales, 34, 35-36 FLACC Scale, 218, 219t monodimensional, 33-36 numeric rating scale (NRS), 34-35, 34 Oucher Scale, 220 pictorial/faces scales, 34, 35-36, 220 questionnaires, 36-37 use with older people, 212 verbal descriptors. 34. 35 visual analogue scales (VAS), 34, 35 Pain specialists, 241-246 functions of, 57, 243-244 pain medicine, field of, 241-242 referral to, 244-246 training and backgrounds of, 242-243 Pain syndromes, 57-113. See also specific syndromes. abdominal and pelvic pain, 95-100 arthropathies, 81-86 cancer-related pain. 102-105 cardiac/central chest pain, 92-94, 93t central pain modification failure. 100-102 complex regional pain syndrome (CRPS), 79-80 extremity pain, 76-81 headache and neck pain, 58-68 low back pain, 68-76 neuropathies, 86-91 nonvascular pain, 94-95

Pain syndromes (continued) treatment of, 179-209. See also Treatment of pain and pain syndromes. vascular pain. 91-92 Pain treatment. See Treatment of pain and pain syndromes. Pain View (journal), 258 Palliative care, 28, 222-223 Pamelor. See Nortriptvline. Pancreatic cancer, 103 Pancreatitis, 98 Papilledema, 70t Parafon Forte DSC. See Chlorzoxazone. Paraneoplastic syndromes, 104 Paroxetine (Paxil, others), 121, 122t Pathology, pain classification by, 28-30 Paxil. See Paroxetine. Pelvic pain, 99-100. See also Abdominal and pelvic pain. readings on, 112-113 Pemoline, 133 Pennsaid. See Diclofenac. Pentazocine (Talwin), 134, 141t, 143 Pentazocine/APAP (Talacen), 141t Pentazocine/naloxone (Talwin NX), 141t Perception of pain, mechanisms involved in, 13-18, 14 Percocet (oxycodone/APAP), 116, 140t Percodan (oxycodone/aspirin), 140t Pericarditis, 93-94 Peripheral arteries, disorders of, 91-92 peripheral artery disease (PAD), 91-92 Raynaud's phenomenon, 92 thromboangiitis obliterans, 92 Peripheral artery disease (PAD), 91-92 Peripheral neuropathy, 29. See also Neuropathies. Peripheral sensitization, 20, 21 Peripheral (somatic) pain, 28 Perphenazine, 129 Phalen's maneuver, 76 Phantom limb pain, 90-91, 113 Pharmacologic agents, sites of action of, 22, 23 Pharmacologic treatment of pain, 115-165. See also specific drugs and classes of drugs. acetaminophen, 115-116 anti-inflammatory agents, 116-120 anticonvulsants, 124-126, 125t antidepressants, 120-124, 122t-123t antimigraine agents, 127, 128t antipsychotics, 127-129 antispastics/muscle relaxants, 129-131, 130t anxiolytics, 126-127 combination-medication approach, 22

Pharmacologic treatment of pain (continued) controlled-substance prescribing. See Medicolegal considerations. intrathecal drug delivery, 174-175 local anesthetics, 131-133 new agents and indications, 147-162 diabetic peripheral neuropathic pain, 150-152, 152, 153 extended-release opioids, 159-162, 160, 161, 163 fibromvalgia, 147-150, 148, 149 immediate-release opioids, 156-159, 158, 159 rapid-acting opioids, 154-156, 155, 156 in older people, 213-217, 215t-216t opioids, 133-147, 136t-141t overview, 115 periodic reviews of, 216t, 231-233 psychostimulants, 133 Phenothiazine agents, 129 Phenytoin, 201, 202 PHN. See Postherpetic neuralgia. Physical examination, 46, 48t-49t Physical medicine pain specialists, 243-244, 245 Physical/occupational therapy, 167, 168 Physicians, resources for. See Resources. Physician-specialists. See Pain specialists. Piroxicam (Feldene), 119t Placebos, 31 Pleuritis, 94 Plexopathy, 90, 104 Pneumococcal vaccination, 84 Pneumothorax, 94 Polyneuropathy, 88 Postherpetic neuralgia (PHN), 87-88, 201 treatment options, 201-202, 202 antidepressants, 121, 201, 202 calcium channel modulators, 125t, 126, 201, 202 capsaicin, 132-133, 201-202, 202 lidocaine, 132, 201, 202 PQRST mnemonic, 46 Practical Pain Management (journal), 258 Practitioners, resources for. See Resources. Prednisone, 184 Prefrontal cortex, 18, 19 Pregabalin (Lyrica), 125t, 126 indications and usages diabetic peripheral neuropathic pain, 152, 153, 200, 200t fibromyalgia, 125t, 126, 147-148, 148, 149 neuropathic pain, 196t postherpetic neuralgia, 87, 126, 201, 202 Pregnancy ectopic, pain of, 99 headache in, 70t

Pregnancy (continued) opioid use during, 146t TENS contraindication during, 169 Prescriber responsibilities, 230-233 Prilocaine, 131 Prisons, treatment of individuals in, 224-225 Pristiq. See Desvenlafaxine. Procaine, 131 Processing of pain. See Pain processing mechanisms. Pronator syndrome, 77-78 Propoxyphene (Darvon), 135, 137t Propoxyphene/APAP (Darvocet), 141t Propranolol, 183, 184 Prostaglandin E2 (PGE2), 20, 21 for peripheral artery disorders, 91 Prostaglandin receptor (EP), 20, 21 Protein kinases, 16, 20 Proton pump inhibitors, 215t Prozac. See Fluoxetine. Psychiatrists and psychologists, 244, 245 Psychological/behavioral interventions, 167, 171 Psychosocial assessment, 54-55, 55t Psychosocial risk factors, in chronic pain, 54-55, 55t Psychostimulants, 133

Quantitative sensory testing (QST), 50 Questionnaires, 36-37 Quetiapine, 129 Qutenza (capsaicin patch), 133, 201-202, *202*

Race Against Pain, 254 Racial minorities, 222-223 Radial tunnel syndrome, 78 Radiation-induced pain, 104-105 Radiation neuropathy, 90 Radicular pain, 68-73, 187-190 SCS for, 173 Radiography, 50 Rating scales for pain, 33-37, 34 Raynaud's phenomenon, 92 Reactive arthritis, 84-85 Recurrent acute pain, 27 Referral to pain-management specialist, 244-246. See also Pain specialists. for chronic low back pain, 191, 192-193 Reflex sympathetic dystrophy. See Complex regional pain syndrome, type 1. Reflex Sympathetic Dystrophy Syndrome Association (RSDSA), 252 Regional Anesthesia and Pain Medicine (journal), 258 Regulations. See Medicolegal considerations.

Relafen. See Nabumetone. Relpax. See Eletriptan. Repetitive stress/strain carpal tunnel syndrome, 76-77, 203-204 cubital tunnel syndrome, 78 pronator syndrome, 77-78 radial tunnel syndrome, 78 readings on, 113 tarsal tunnel syndrome, 78-79 Repetitive stress/strain syndromes, 76-79 Resources for practitioners, 247-263 annual pain meetings (US), 259 associations, organizations, and societies, 247-252 books on pain (non-textbook), 261 disease/syndrome-specific organizations, 251-252 pain advocacy groups, 253-255 pain journals/publications, 255-259 pain textbooks. 260 pain web sites (pharmaceutical-supported), 262-263 publications for opioid prescribers, 260 Rheumatoid arthritis (RA), 83-84 Risk Evaluation and Mitigation Strategies (REMS), 237 Risperidone, 129 Rizatriptan (Maxalt, Maxalt-MLT), 127, 128t Ropivacaine, 131 Ryzolt. See Tramadol, controlled-release. Sacroiliac joint dysfunction, 75-76 Salicylates, 116-117, 118t Savella. See Milnacipran. Scales. See also Depression, assessment of; Pain scales. anxiety, 39 depression, 37-39 pain, 33-37, 34, 212 Screener and Opioid Assessment for Patients with Pain (SOAPP), 42-43 SCS. See Spinal cord stimulation. Second-order neurons, 15-16, 16, 17 Selective serotonin reuptake inhibitors (SSRIs), 121, 122t. See also Duloxetine; Milnacipran. for neuropathic pain, 195, 196t, 200, 200t

for postherpetic neuralgia, 201, 202 Self-reporting pain assessments, 33-37, 34

Serotonin and norepinephrine reuptake inhibitors (SNRIs),

Sensitization

Serotonin, 17

central, 16-17

peripheral, 20, 21

121-124, 123t

Rehabilitation. See Nonpharmacologic and interventional therapies.

Serotonin antagonists, for headache, 68, 127 Sertraline (Zoloft, others), 122t Shingles, 87 Short Form Health Survey (SF36), 54 Sinequan. See Doxepin. Skelaxin. See Metaxalone. SNRIs. See Serotonin and norepinephrine reuptake inhibitors. SOAPP (Screener and Opioid Assessment for Patients with Pain). 42-43 Social workers, 244, 245 Societies and organizations, 247-252. See also Resources. Society for Pain Practice Management (SPPM), 250 Sodium channel blockers/modulators, 22, 23, 125t, 201, 202 Sodium channels, expression of, 20, 21 Soft tissue pain, cancer-related, 103 Solaraze. See Diclofenac. Soma. See Carisoprodol. Somatic pain, 28, 29 treatment of, 29 Somatosensory evoked potentials (SSEP), 50 Special-needs populations, 221-226 children and adolescents, 217-222 ethnic and racial minorities. 222-223 older people, 211-217 other, 224-225 dual-diagnosis, 224 incarcerated individuals, 224-225 military personnel with combat trauma, 224 terminally ill cancer patients. 223-224 Specialists. See Pain specialists. Spinal cord, pain processing in, 13-17, 14, 16 Spinal cord compression, 102-103 Spinal cord stimulation (SCS), 80, 173, 197 Spinal fractures, 186-190, 188-189 Spinal nerve roots compression of, 72-73 pain of, 68-76 surgical denervation, 174 Spinoparabrachial tracts, 15 Spinothalamic tracts, 15 Spondyloarthropathies, 84-85 Spondylolysis/spondylolisthesis, 188-189 Spontaneous pain, 12, 13 SSRIs. See Selective serotonin reuptake inhibitors. Stadol. See Butorphanol. States, authority of, 227 Steroid injections, 172, 204 epidural, 74, 172 joint, 82, 172 Steroids, for reactive arthritis, 172

Stool softeners, 143-147, 208 Subacute pain, 27 Substance abuse. See also Medicolegal considerations. assessment of abuse/potential, 39-43 CAGE-AID, 40-41 Diagnosis, Intractability, Risk, and Efficacy (DIRE) Score, 41-42 Drug Abuse Screening Test (DAST), 41 Michigan Alcoholism Screening Test (MAST), 41 Opioid Risk Tool (ORT), 42 Screener and Opioid Assessment for Patients with Pain (SOAPP), 42-43 potential in children and adolescents, 221 potential in minority populations, 222 recognizing potential for, 234-236 Risk Evaluation and Mitigation Strategies (REMS), 237 urine test for, 54, 234 Substance P, 15, 16, 17, 132 Sufentanil, 147 Sulfasalazine, 84 Sulindac (Clinoril), 119t Sumatriptan (Imitrex), 127, 128t, 184, 185 Sumatriptan/naproxen (Treximet), 127, 128t Surgical denervation, 174 Sympathectomy, 197 Sympathetically maintained pain, 28, 31, 113 Take-away messages. See End of each chapter. Talacen (pentazocine/APAP), 141t Talwin. See Pentazocine. Talwin NX (pentazocine/naloxone), 141t Tapentadol, tapentadol IR (Nucvnta), 135, 137t, 156-159 vs oxycodone, 157-159, 158, 159 Tarsal tunnel syndrome, 78-79 Technetium scans, 52 Techniques in Regional Anesthesia and Pain Management (journal), 258 Tegretol, Tegretol-XR. See Carbamazepine. Temporomandibular joint disorder (TMJ), 101 treatment of, 131 Tender points, 100 TENS. See Transcutaneous electrical nerve stimulation. Tension-type headache, 64, 64t treatment of, 182 Tests. See Evaluation and diagnosis. Tetracaine, 131 Textbooks on pain, 260 Thalamus, 18, 19 Thermal modalities, 168-169 heat/ice packs, 168 Thoracic outlet syndrome, 80-81, 113

Thromboangiitis obliterans, 92 "Thunderclap" headache, 61, 70t, 179 Time course, classification of pain by, 26-27 Timolol, 183 Tinel's sign, 76 Tizanidine (Zanaflex, others), 130t, 131 TMJ. See Temporomandibular joint disorder. TNF. See Tumor necrosis factor. Tofranil-PM. See Imipramine. Tolectin. See Tolmetin. Tolmetin (Tolectin), 119t Topamax. See Topiramate. Topiramate (Topamax), 125t, 126 Toxic neuropathies, 88-89, 89t Tramadol, 135 controlled-release (Ultram ER, Ryzolt), 139t fixed-dose combination (tramadol/APAP, Ultracet), 141t immediate-release (Ultram), 137t indications and usages, 137t neuropathic pain, 195, 196t, 200t postherpetic neuralgia, 88, 202 Tranquilizers major (antipsychotics), 127-129 minor (anxiolytics), 126-127 Transcutaneous electrical nerve stimulation (TENS), 168, 169-170, 195,200 contraindications and cautions, 169 Transduction of pain. 13-15. 14 analgesic medications and. 23 Transmission of pain, 14, 15-17, 16 analgesic medications and, 23 Trazodone (Desyrel), 123t, 124 Treatment of pain and pain syndromes, 179-209. See also specific syndromes and pain conditions. back pain, 185-191 cancer pain, 205-208, 206 chronic pain, 27 compliance with, 54 documentation of, 233-234 entrapment neuropathies, 203-204 failure of descending inhibitory control, 29 general guidelines, 29-30 headache, 179-185, 180-181, 184 medication history, 46, 47t medicolegal considerations, 227-239 neuropathic pain, 194-202 nonpharmacologic treatment, 167-178. See also Nonpharmacologic and interventional therapies. periodic reviews of, 216t, 231-233

Treatment of pain and pain syndromes (continued) pharmacologic treatment, 115-165. See also Pharmacologic treatment of pain. special-needs populations, 221-226 children and adolescents, 217-222 ethnic and racial minorities, 222-223 older people, 211-217 terminally ill cancer patients, 223-224 Treximet. See Sumatriptan/naproxen. Triamcinolone, 120 Tricyclic antidepressants (TCAs), 120-121 agents and dosages, 122t indications and usages AIDS-related neuropathies, 88 headache, 68, 127 neuropathic pain, 121, 195, 196t, 200t postherpetic neuralgia, 88, 202t older people, cautions for use in, 216t Trigeminal neuralgia, 125t, 126, 194 Trigger-point injections, 171-172 Triptans, 128t for headache, 68, 127, 183, 184 TrkB receptors, 17 Tumor necrosis factor (TNF), 20, 21 Tumor necrosis factor (TNF) inhibitors for reactive arthritis, 85 for rheumatoid arthritis. 84 Tylenol. See Acetaminophen. Types of pain. See Classification of pain. Ulcerative colitis, 95 Ulnar tunnel syndrome, 204 Ultracet (tramadol/APAP), 141t Ultram. See Tramadol. Ultrasonography, 52 Ultrasound therapy, 168 Universal precautions, for prescribing opioids, 229-230 Urine test. 54. 234 Vaccinations, 84 Valproic acid, 126, 184 VAS. See Visual analogue scales. Vascular headaches, 62-64, 182-185 treatment of, 183-185, 184 Vascular pain, 91-92, 113 Venlafaxine (Effexor), 121, 123t, 196t hypertensive potential of, 124 Verapamil, 184

Vicodin (hydrocodone/APAP), 116, 140t, See also Hydrocodone,

Vicoprofen (hydrocodone/ibuprofen), 140t

Visceral pain, 29 Visual analogue scales (VAS), *34*, 35 Vitamins, for headache, 68, 127 Voltaren formulations. See *Diclofenac*. Vulvodynia, 102 national association for, 252

Web sites (pharmaceutical-supported), 262-263
Wellbutrin formulations. See *Bupropion*.
Withdrawal responses, *14*, 15
Wong-Baker Faces Rating Scale, *34*, 35-36, 220
World Health Organization (WHO), Three-Step Analgesic Ladder, 205-207, 206

X-rays, 50

Zaleplon, 127 Zanaflex. See *Tizanidine*. Ziconotide, 175 Ziprasidone, 129 Zipsor. See *Diclofenac*. Zolmitriptan (Zomig, Zomig-ZMT), 128t Zoloft. See *Sertraline*. Zolpidem, 127 Zomig, Zomig-ZMT. See *Zolmitriptan*. Zoster, 87, 201 Zung Self-Rating Depression Scale, 38-39 Zydone (hydrocodone/APAP), 140t