

Index

- AAA. *See* abdominal aortic aneurysm
- abdominal aortic aneurysm (AAA), 117–18
 flank ecchymosis and, 118
 hematuria and, 118
- abdominal pain, 71–76, 101–05, 105–10,
 168–71, 186–200, 317–26, 358–65. *See also*
 small bowel obstruction; testicular torsion
- action taken for, 72–73, 102, 103, 107,
 169–70
- from appendicitis, 170–71
 during pregnancy, 171
 ultrasound for, 171
- from diverticulitis, 395–400
 action taken for, 395, 396–97, 397–99
 incidence rates for, 400
 lab work for, 397
 patient medical history and, 396
 primary survey for, 395
 secondary survey for, 396
- from DKA, 186–91
 action taken for, 187, 189
 imaging for, 188–89
 insulin therapy for, 191
 lab work for, 189
 patient medical history of, 187
 primary survey for, 187
 secondary survey, 187–88
- from gastric perforation, 110
- HSP and, 83
- from HUS, 362–65
 action taken for, 364
 lab work for, 363–64
 patient medical history for, 362–63
 primary survey for, 362
 secondary survey for, 363
 treatment for, 365
- hypotension and, 76
- from incarcerated hernia with bowel
 obstruction, 73–76
- from ischemic bowel, 322–26
 action taken for, 322, 324–25
 causes of, 326
 imaging for, 326
 lab work for, 325
 patient medical history and, 322
 primary survey for, 322
 secondary survey for, 323–24
 symptoms of, 326
- lab work for, 72–73, 103, 108–09, 170
 from MI, 191–95
 action taken for, 192, 193
 lab work for, 194
 patient medical history of, 192
 primary survey for, 192
 with right ventricle, 195
 secondary survey for, 193
 treatment therapies for, 195
- from nonaccidental trauma, 358–62
 action taken for, 359, 360
 lab work after, 359–60
 patient medical history and, 358
 primary survey for, 358
 secondary survey for, 359
 from suspected child abuse, 361
- nursing procedures for, 102–03
- from ovarian torsion, 196–200
 action taken for, 197, 198
 adnexal, 199
 lab work for, 197–98
 patient medical history of, 196
 primary survey for, 196
 secondary survey for, 197
 symptoms of, 199
- from pancreatitis, 317–21
 action taken for, 318, 320
 lab work for, 320
 patient history and, 318
 primary survey for, 317
 secondary survey for, 318–20
- patient medical history of, 72, 101–02,
 106, 168–69
 primary survey for, 72, 101, 168
- from SBP, 429–34
 action taken for, 430, 431–32
 lab work for, 432
 patient medical history and, 430

- abdominal pain (*cont.*)
 primary survey for, 430
 secondary survey for, 430–31
 treatment for, 434
 secondary survey for, 72, 102, 106–07, 169
 from sigmoid volvulus, 478–82
 action taken for, 479, 481, 482
 patient medical history and, 479
 physical exam for, 479–80
 primary survey for, 479
 risk factors for, 482
 surgery as treatment for, 482
 from testicular torsion, 103–05
 from TOA, 221–25
 action taken for, 222, 223
 antibiotic treatment for, 225
 lab work for, 224
 patient medical history and, 222
 primary survey for, 222
 secondary survey for, 222–23
 vomiting with, 46–50, 150–55
 action taken for, 47, 150, 151, 152
 cholecystitis as cause of, 48–49
 differential diagnoses for, 49
 Fitzhugh-Curtis syndrome and, 50
 lab work for, 47–48, 152
 patient medical history of, 46, 150
 primary survey for, 46, 150
 from SBO, 152–54
 secondary survey for, 46–47, 150–51
- abdominal trauma, 418–26
 action taken for, 419, 420
 lab work for, 423
 patient medical history and, 419
 primary survey for, 419
 secondary survey for, 419–20
 with splenic rupture, 425
 CT for, 425
- abdominal x-ray (AXR), for overdoses, 30
- ABG. *See* arterial blood gas
- abscesses
 epidural, 59–60
 risk factors for, 60
 retropharyngeal, 97
 age as factor for, 97
 antibiotics for, 97
 imaging for, 97
 physical exam for, 97
- TOA, 221–25
 action taken for, 222, 223
 antibiotic treatment for, 225
 lab work for, 224
 patient medical history and, 222
 primary survey for, 222
 secondary survey for, 222–23
- uncomplicated perirectal, 178–79
 Crohn's disease and, 178
 morbidity factors for, 179
 types of, 178
- acetaminophen, overdose of, 368–72
 action taken for, 369
 four stages of toxicity in, 371–72
 lab work for, 369–70
 patient medical history and, 368
 primary survey for, 368
 secondary survey for, 369
- acidemia, 80
- ACLS. *See* advanced cardiac life support
- acute angle-closure glaucoma. *See*
 angle-closure glaucoma, acute
- acute asthma exacerbation. *See* asthma
 exacerbation, acute
- acute chest syndrome, 252
- acute lung injury. *See* lung injury, acute
- acute mountain sickness (AMS), 270. *See also*
 high altitude cerebral edema
- acute pericardial tamponade. *See* pericardial
 tamponade, acute
- adnexal torsion, 199
- advanced cardiac life support (ACLS),
 499–508
 airway/ventilation and, 500
 for bradycardia, 501
 with CPR, 499–500
 drug list for, 502–08
 antiarrhythmics, 502–05
 blood pressure/cardiac output optimizers,
 506–08
 pulseless arrest in, 501
 for tachycardia, 501–02
- age, as heuristic, in decisionmaking, 17
- agitation, 183–86
 action taken for, 183, 184
 from alcohol intoxication, 185–86
 lab work for, 185
 patient medical history of, 183–84
 primary survey for, 183
 secondary survey for, 184
- alcohol intoxication, 185–86
 altered mental status from, 489
- alcohol withdrawal, 331–35
 action taken for, 331
 altered mental status from, 489
 benzodiazepines for, 335
 lab work for, 333–34
 patient medical history and, 332
 primary survey for, 331
 secondary survey for, 332–33
 with seizures, 335
- altered mental status. *See* mental status, altered
- AMS. *See* acute mountain sickness
- anaphylaxis, 167–68
 epinephrine therapies for, 168
 fluid resuscitation for, 167
 mortality factors for, 167
- angle-closure glaucoma, acute, 70–71
 risk factors for, 71
- anhidrosis, 385
- animal bites, 219–21
 action taken for, 220
 from cats, 221
 antibiotics for, 221
 polymicrobial infections from, 221
 treatment for, 221

- patient medical history and, 219–20
 - primary survey for, 219
 - secondary survey for, 220
- ankle dislocations, 536
- anterolateral myocardial infarction, 375
- anthrax. *See* inhalation anthrax
- antiarrhythmics, 502–05
- antibiotics
 - for cat bites, 221
 - for community-acquired pneumonia, 312
 - for COPD, 330
 - for Ludwig's angina, 214
 - for pertussis, 113
 - for retropharyngeal abscess, 97
 - for TOA, 225
- anticholinergic agents
 - for COPD, 330
 - heatstroke and, 385
- antidepressants. *See* tricyclic antidepressants, overdose of
- antivenin, 85
- aortic coarctation, 284
 - clinical presentations of, 452
 - cyanosis and, 451–52
 - imaging for, 452
- aortic dissection, 484–85
 - treatment for, 485
- appendicitis, 170–71
 - during pregnancy, 171
 - ultrasound for, 171
- arterial blood gas (ABG), 142
- arthritis. *See* septic arthritis
- aspirin toxicity, 79–80
 - acidemia from, 80
 - hypokalemia from, 80
 - salicylate levels during, 80
 - symptoms of, 79
 - treatment for, 79
- assault, to face, 123–27
 - action taken for, 123, 124
 - lab work after, 125
 - maxillofacial trauma and, 126–27
 - patient medical history and, 124
 - primary survey for, 123
 - secondary survey for, 124
- asthma exacerbation, acute, 141–42
 - ABG parameters for, 142
 - hypercapnia and, 142
 - intubation for, 142
 - treatment therapies for, 142
- atropine, 138
- automobile accidents
 - abdominal trauma from, 418–26
 - action taken for, 419, 420
 - lab work for, 423
 - patient medical history and, 419
 - primary survey for, 419
 - secondary survey for, 419–20
 - with splenic rupture, 425
 - fractures from, 341–48
 - action taken for, 341–42, 345–46, 347
 - lab work after, 346–47
 - patient medical history and, 342–43
 - primary survey for, 341
 - secondary survey for, 343–44
- AXR. *See* abdominal X-ray
- back pain, 57–61, 234–38, 348–52
 - action taken for, 58, 234, 235, 348, 349, 350
 - from cauda equina, 236–38
 - CT for, 238
 - indications for, 238
 - long-term physical effects of, 238
 - MRI for, 238
 - from epidural abscess, 59–60
 - risk factors for, 60
 - lab work for, 59, 235–36, 350
 - patient medical history of, 58, 234, 348–49
 - primary survey for, 58, 234, 348
 - from pyelonephritis, 350–52
 - secondary survey for, 58, 234–35, 349
- bacterial meningitis, 256–57
 - Kernig's/Brudzinski's signs and, 257
 - symptoms of, 256
 - treatment for, 256–57
- Beck's triad, 219, 390
- benzodiazepines, 158
 - for alcohol withdrawal, 335
 - for TCA overdose, 413
- bites. *See* snake bites
- bleeding. *See* vaginal bleeding; variceal bleeding
- bloody diarrhea, 455
- Boerhave's syndrome, 57
 - vomiting and, 57
- bowel obstruction, hernias with, 73–76
- bradycardia, 137–38
 - ACLS for, 501
 - atropine treatment for, 138
 - transcutaneous pacing for, 138
- Brudzinski's signs, 257
- burns, 127–31. *See also* thermal burns
 - action taken for, 128–29, 130
 - lab work for, 129–30
 - patient medical history and, 128
 - pediatric medicine and, 510
 - primary survey for, 127
 - secondary survey for, 128
 - thermal, 130
- carbon monoxide hemoglobin (COHb), 122–23
- carbon monoxide poisoning, 121–23
 - COHb levels during, 122–23
 - symptoms of, 123
 - treatment options for, 123
- cardiac arrest, 238–40
 - action taken for, 238–39
 - patient medical history of, 239
 - primary survey for, 238
 - secondary survey for, 239
 - from SIDS, 239–40
- cardiopulmonary resuscitation (CPR), 499–500
- cardioversion, 514–16
 - complications with, 515

- cardioversion (*cont.*)
 contraindications for, 514
 technique for, 514–15
- carotid artery dissection, 478
 clinical presentation of, 478
 treatment for, 478
- cats, bites from, 221
 antibiotics for, 221
 polymicrobial infections from, 221
 treatment for, 221
- cauda equina, 236–38
 CT for, 238
 indications for, 238
 long-term physical effects of, 238
 MRI for, 238
- cavernous sinus thrombosis, 229–30
 causes of, 230
 symptoms of, 229
 treatment therapies for, 230
- central nervous system (CNS), altered mental status and, 489–90
- central venous access, with Seldinger technique, 523–24
 complications from, 524
 contraindications for, 523
 indications for, 523
 technique for, 523–24
- chest pain, 53–57, 155–59, 161–65, 257–61, 483–85
 action taken for, 54–56, 155, 156, 163, 164, 257, 259
 from aortic dissection, 484–85
 treatment for, 485
 from Boerrhave's syndrome, 57
 from cocaine abuse, 158
 CXR for, 483
 EKG for, 483
 lab work for, 56, 157–58, 164, 259–60
 from MI, 372–75, 484
 action taken for, 372, 373
 lab work for, 374
 patient medical history and, 372
 primary survey for, 372
 secondary survey for, 373
 treatment for, 484
 patient medical history of, 54, 155, 162, 258
 from PE, 164–65, 484
 D-dimer assays for, 165
 heparin treatment for, 165
 risk criteria for, 165
 from pericarditis, 260–61
 causes of, 261
 EKG for, 261
 symptoms of, 261
 primary survey for, 53, 155, 161, 257
 from ruptured esophagus, 485
 secondary survey for, 54, 156, 162–63, 258–59
 from spontaneous pneumothorax, 485
 treatment for, 485
 symptom descriptors for, 483
- chest trauma, 41–46. *See also* pericardial tamponade, acute; stab wounds, to chest
 action taken for, 42, 43
 lab work for, 43–44
 nursing procedures for, 42
 patient medical history of, 42
 with penetration, 215–19
 action taken for, 215, 216–17, 218
 acute pericardial tamponade from, 218–19
 lab work for, 217–18
 patient medical history and, 215–16
 primary survey for, 215
 secondary survey for, 216
 primary survey for, 42
 secondary survey for, 42–43
 tension pneumothorax as cause of, 44
- chest x-ray (CXR)
 for acute pericardial tamponade, 219
 for chest pain, 483
 for inhalation anthrax, 438
 for overdoses, 30
 for pertussis, 113
 for SBO, 154
- CHF. *See* congestive heart failure
- child abuse, suspected, 361, 511. *See also* physical abuse, of elderly
- children, vomiting by, 80–83
 action taken for, 81, 82
 from HSP, 82–83
 lab work for, 81–82
 patient medical history of, 80
 primary survey for, 80
 secondary survey for, 81
- cholecystitis, 48–49
 diabetes and, 50
 ultrasound for, 49
- chronic obstructive pulmonary disease (COPD), 326–31
 action taken for, 327, 329
 intubation for, 331
 lab work for, 329–30
 patient medical history of, 327
 primary survey for, 327
 secondary survey for, 329
 treatment for, 330–31
 with antibiotics, 330
 with anticholinergic agents, 330
 with magnesium sulfate, 330
 with steroids, 331
- CNS. *See* central nervous system, altered mental status and cocaine abuse, chest pain from, 158
 acute coronary syndromes and, 158
 benzodiazepines for, 158
- COHb. *See* carbon monoxide hemoglobin
- comas, from altered mental status, 41
- community-acquired pneumonia, 311–12
 antibiotic treatment for, 312
- computed tomography (CT)
 for cauda equina, 238
 for SBO, 154

- for splenic rupture, 425
- for subdural hematoma, 175
- congenital hypertrophic pyloric stenosis, 36
- congestive heart failure (CHF), 271
 - risk factors for, 280
 - shortness of breath from, 279–80
- COPD. *See* chronic obstructive pulmonary disease
- cough, 111–13, 308–12. *See also* pertussis
 - action taken for, 112, 309
 - from community-acquired pneumonia, 311–12
 - antibiotic treatment for, 312
 - from inhalation anthrax, 434–38
 - action taken for, 434, 437
 - clinical course of, 438
 - CXR for, 438
 - lab work for, 436
 - patient medical history and, 434–35
 - primary survey for, 434
 - secondary survey for, 435–36
 - treatment for, 438
 - lab work for, 112–13, 310–11
 - patient medical history of, 111, 309
 - from PCP, 456–60
 - action taken for, 456, 458
 - causes of, 460
 - HIV/AIDS and, 459–60
 - lab work for, 458
 - patient medical history and, 456
 - primary survey for, 456
 - secondary survey for, 457–58
 - treatment therapies for, 460
 - from pertussis, 113
 - primary survey for, 111, 309
 - secondary survey for, 111, 309–10
- CPR. *See* cardiopulmonary resuscitation
- cricothyrotomy, 516–17
 - complications from, 517
 - contraindications for, 516
 - technique for, 516–17
- critical aortic coarctation. *See* aortic coarctation
- Crohn's disease, 176–77
 - uncomplicated perirectal abscess and, 178
- crotalid venom, 85
- CT. *See* computed tomography
- Cushing reflex, 41
- CXR. *See* chest x-ray
- cyanosis, 448–52
 - action taken for, 448, 450
 - aortic coarctation and, 451–52
 - clinical presentations of, 452
 - imaging for, 452
 - lab work for, 450–51
 - patient medical history and, 448–49
 - primary survey for, 448
 - secondary survey for, 449–50
- Dance's sign, 300
- D-dimer assays, for PE, 165
- decision making, in emergency medicine, 16
 - heuristics in, 16–18
 - ABCs of, 17
 - analytic thinking in, 17–18
 - cognitive checkpoints for, 18
 - shotgunning, 18
 - sick/not sick paradigm, 17
- deferoxamine therapy, 33
- defibrillation, 514–16
 - complications with, 515
 - contraindications for, 514
 - technique for, 514–15
- dementia, 491
- dental injury, 534
- diabetes
 - cholecystitis and, 48–49
 - DKA and, 186–91
 - necrotizing fasciitis from, 65
- diabetic ketoacidosis (DKA), 186–91
 - action taken for, 187, 189
 - imaging for, 188–89
 - insulin therapy for, 191
 - lab work for, 189
 - patient medical history of, 187
 - primary survey for, 187
 - secondary survey, 187–88
- diagnostic peritoneal lavage, 526–27
 - complications from, 527
 - contraindications for, 526
 - indications for, 526
 - technique for, 527
- diarrhea, 205–08, 452–56
 - action taken for, 206, 453–54
 - bloody, causes of, 455
 - Entamoeba histolytica* as cause of, 207
 - enteroinvasive, 455
 - causes of, 455
 - treatment for, 455
 - Giardia lamblia* as cause of, 207
 - giardiasis and, 207
 - lab work for, 206, 454
 - patient medical history of, 205, 453
 - primary survey for, 205, 452
 - secondary survey for, 205, 453
 - in travelers, 207
 - treatment for, 207
 - Vibrio cholera* as cause of, 207
- digoxin toxicity, 274–75
 - mortality rates for, 275
 - symptoms of, 275
- diverticulitis, 395–400
 - action taken for, 395, 396–97, 397–99
 - incidence rates for, 400
 - lab work for, 397
 - patient medical history and, 396
 - primary survey for, 395
 - secondary survey for, 396
- DKA. *See* diabetic ketoacidosis
- dorsal slit of phimosis, 529–30
 - technique for, 529
- drowning, 312–17
 - action taken for, 312–13, 445

- drowning (*cont.*)
 hypothermia and, 443–48
 action taken for, 443
 moderate v. severe, 447
 patient medical history and, 443–44
 primary survey for, 443
 rapid rewarming for, 448
 secondary survey for, 444–45
 lab work after, 314–15, 446–47
 patient medical history and, 313–14
 primary survey for, 312
 secondary survey for, 314
 spinal injury and, 316–17
 neurogenic shock from, 317
 drugs. *See* medications
- ears. *See* ringing in ears
- echocardiography, for pericardial tamponade, 390
- eclampsia, 400–04
 action taken for, 400, 401, 402–03
 clinical presentation of, 403
 lab work for, 402
 patient medical history and, 400–01
 primary survey for, 400
 secondary survey for, 401–02
 treatment for, 404
- ectopic pregnancy, 181–83
 mortality rate for, 182
 risk factors for, 182–83
- ED thoracostomy, 522–23
 technique for, 522
- EKG. *See* electrocardiogram
- elapids, 85
- elbow dislocations, 535
- electrocardiogram (EKG)
 for chest pain, 483
 for hyperkalemia, 68
 for pericarditis, 261
- emergency medicine. *See also* abdominal pain
 for abdominal pain, 71–76, 101–05, 105–10, 168–71, 186–200, 317–26, 358–65
 from appendicitis, 170–71
 from diverticulitis, 395–400
 from gastric perforation, 110
 from HUS, 362–65
 hypotension and, 76
 from incarcerated hernia with bowel obstruction, 73–76
 from ischemic bowel, 322–26
 from nonaccidental trauma, 358–62
 from pancreatitis, 317–21
 from sigmoid volvulus, 478–82
 from testicular torsion, 103–05
 with vomiting, 46–50, 150–55
 from abdominal pain
 from SBP, 429–34
 from spontaneous bacterial peritonitis, 429–34
 for abdominal trauma, 418–26
 ACLS for, 499–508
 airway/ventilation and, 500
 for bradycardia, 501
 with CPR, 499–500
 drug list for, 502–08
 pulseless arrest in, 501
 for tachycardia, 501–02
 for agitation, 183–86
 from alcohol intoxication, 185–86
 for altered mental status, 37–41, 171–76, 261–66, 271–76, 486–92
 from alcohol intoxication, 489
 from alcohol withdrawal, 331–35, 489
 from CNS pathology, 489–90
 coma from, 41
 Cushing reflex and, 41
 dementia as cause of, 491
 from digoxin toxicity, 274–75
 from encephalopathies, 490–91
 from endocrinopathies, 490
 from fluid/electrolyte disturbance, 488
 from heatstroke, 380–85
 from hypercalcemia, 488
 from hypercarbia, 487
 from hyperglycemia, 488
 from hyponatremia, 488
 from hypoglycemia, 265–66, 487–88
 from hyponatremia, 488
 from hypotension, 488
 from hypoxemia, 487
 ICH and, 40–41
 physical exam for, 487
 from poisoning, 489
 psychiatric causes of, 491
 from sepsis, 488–89
 from subdural hematoma, 175–76
 from temperature extremes, 491
 from thyrotoxicosis, 352–58
 for animal bites, 219–21
 from cats, 221
 for appendicitis, 170–71
 during pregnancy, 171
 ultrasound for, 171
 for automobile accidents, 341–48, 418–26
 for back pain, 57–61, 234–38, 348–52
 from cauda equina, 236–38
 from epidural abscess, 59–60
 from pyelonephritis, 350–52
 for burns, 127–31
 thermal, 130
 for cardiac arrest, 238–40
 from SIDS, 239–40
 cardioversion in, 514–16
 with central venous access, with Seldinger technique, 523–24
 for chest pain, 53–57, 155–59, 161–65, 257–61, 483–85
 from aortic dissection, 484–85
 from Boerhaave's syndrome, 57
 from cocaine abuse, 158
 from MI, 372–75, 484
 from PE, 164–65, 484
 from pericarditis, 260–61

- from ruptured esophagus, 485
- from spontaneous pneumothorax, 485
- for chest trauma, 41–46
 - with penetration, 215–19
 - tension pneumothorax as cause of, 44
- for cough, 111–13
 - from inhalation anthrax, 434–38
 - from PCP, 456–60
 - from pertussis, 113
- with cricothyrotomy, 516–17
- for cyanosis, 448–52
 - aortic coarctation and, 451–52
- decisionmaking in, 16
 - heuristics in, 16–18
- defibrillation in, 514–16
- for dental injury, 534
- with diagnostic peritoneal lavage, 526–27
- for diarrhea, 205–08, 452–56
 - treatment for, 207
- for DKA, 186–91
 - insulin therapy for, 191
- with dorsal slit of phimosis, 529–30
- after drowning, 312–17
 - hypothermia and, 443–48
 - spinal injury and, 316–17
- with ED thoracostomy, 522–23
- for eye pain, 69–71
 - from acute angle-closure glaucoma, 70–71
- for facial assault, 123–27
 - maxillofacial trauma and, 126–27
- for fever, 230–33, 292–96, 300–04
 - with diverticulitis, 395–400
 - from Fournier's gangrene, 295–96
 - from Kawasaki disease, 232–33
 - after liver transplants, 414–18
 - from pneumonia with HIV, 303–04
 - from SIRS, 375–80
- for flank pain, 114–18
 - from AAA, 117–18
 - ecchymosis, 118
 - from renal colic, 287–88
- for foot pain, 470–73
 - from acute gout, 472–73
- for fractures
 - from being struck by automobile, 341–48
 - from spinal injury, 316–17
- for general weakness, 65–69, 118–23, 146–49
 - from carbon monoxide poisoning, 121–23
 - from GBS, 149
 - from hyperkalemia, 68–69
 - from stroke, 336–41
- for headaches, 175, 225–30, 253–57, 266–71
 - from bacterial meningitis, 256–57
 - from cavernous sinus thrombosis, 229–30
 - from HACE, 270
 - from hypertensive emergency, 438–42
- for hematochezia, 426–29
- for infant vomiting, 33
 - congenital hypertrophic pyloric stenosis as cause of, 36
 - ultrasound for, 36
- with intraosseous infusion, 524–25
- for joint dislocations, 534–36
 - in ankles, 536
 - in elbows, 535
 - in hips, 535
 - in knees, 535
 - in shoulders, 535
 - TMJ and, 536
- for knee pain, 97–101, 240–44
 - from SCFE, 100–01
 - from septic arthritis, 243–44
- with lateral canthotomy, 531
- for leg swelling, 61–65
 - from necrotizing fasciitis, 64–65
- for lightheadedness, 135–38
 - from bradycardia, 137–38
- with lumbar puncture, 527–29
 - for febrile seizures, 161
- for MI, 191–95
 - with right ventricle, 195
 - treatment therapies for, 195
- for neck pain, 474–78
 - from carotid artery dissection, 478
- with needle thoracostomy, 519–20
- with orotracheal intubation, 532–34
- for ovarian torsion, 196–200
 - adnexal, 199
 - symptoms of, 199
- for overdoses, 28
 - of acetaminophen, 368–72
 - of INH, 460–65
 - of iron, 32–33
 - medications for, 30
 - of opioids, 200–04
 - from TCA, 409–13
- for palpitations, 304–08
 - from SVT, 307–08
 - ventricular tachycardia, 404–09
- with paracentesis, 525–26
- with paraphimosis reduction, 530
- pediatrics and, 509–13
 - burns and, 510
 - congenital heart lesions and, 512–13
 - intubation and, 509–10
 - limpness and, 512
 - in newborn resuscitation, 512
 - normal vital statistics by age in, 509
 - sepsis and, 511–12
 - suspected child abuse and, 361, 511
 - toxicology issues in, 510–11
 - trauma considerations in, 511
- with pericardiocentesis, 518–19
- with perimortem C-section, 532
- for physical abuse of elderly, 465–70
- for poisoning, 493–94
 - altered mental status from, 489
 - common toxidromes in, 494–95
- during pregnancy, 171, 181–83, 400–04
- primary survey for, 426
- for rash with fever, 142–46, 244–48
 - from Rocky Mountain Spotted Fever, 246–48

- emergency medicine (*cont.*)
 from Stevens–Johnson syndrome, 144–45
 for rectal pain, 176–79
 Crohn’s disease and, 176–77
 from uncomplicated perirectal abscess,
 178–79
 for respiratory distress, 365–68
 from foreign body aspiration, 367
 for ringing in ears, 76–80
 from aspirin toxicity, 79–80
 for seizures, 159–61, 208–11, 288–92
 from eclampsia, 400–04
 febrile, 160–61
 from status epilepticus, 290–92
 from TCA overdose, 409–13
 from TTP, 211
 for shortness of breath, 138–42, 276–84
 from acute asthma exacerbation, 141–42
 from CHF, 279–80
 from COPD, 326–31
 from pericardial tamponade, 385–90
 for sickle cell disease, 248–52
 with acute chest syndrome, 252
 for snake bites, 83–85
 antivenin for, 85
 crotalid venom as treatment for, 85
 elapids for, 85
 nonpoisonous, 84–85
 for sore throat, 93–97
 from retropharyngeal abscess, 96–97
 for stab wounds to chest, 390–95
 for syncope, 89–93
 from prolonged QT syndrome, 92–93
 with testicular detorsion, 530–31
 for throat swelling, 165–68
 from anaphylaxis, 167–68
 for TOA, 221–25
 antibiotic treatment for, 225
 for toothache, 212–15
 from Ludwig’s angina, 213–14
 with transcutaneous pacing, 138, 517–18
 for trauma, 497–98
 with tube thoracostomy, 497, 520–21
 for vaginal bleeding, 179–83
 from ectopic pregnancy, 181–83
 for visual impairment, 85–89
 from retinal vascular occlusion, 88–89
 for vomiting, 296–300
 of blood, 131–35
 by children, 80–83
 from HSP, 82–83
 from intussusception, 299–300
 from variceal bleeding, 134–35
 for weak infants, 50–53
 sepsis in, 53
 encephalopathies, altered mental status from,
 490–91
 endocrinopathies, altered mental status from,
 490
Entamoeba histolytica, 207
 enterocolitis. *See* necrotizing enterocolitis
 enteroinvasive diarrhea, 455
 causes of, 455
 treatment for, 455
 epidural abscess, 59–60
 risk factors for, 60
 epidural hematoma, 176
 epilepsy. *See* status epilepticus
 epinephrine, for anaphylaxis, 168
 erythema multiforme major. *See*
 Stevens–Johnson syndrome
 esophageal ruptures. *See* Boerhaave’s
 syndrome
 eye pain, 69–71. *See also* visual impairment
 action taken for, 70
 from acute angle-closure glaucoma, 70–71
 risk factors for, 71
 lab work for, 70
 patient medical history of, 69
 primary survey for, 69
 secondary survey for, 69–70
 facial assault. *See* assault
 fasciitis. *See* necrotizing fasciitis
 febrile seizures, 160–61
 causes of, 161
 lumbar puncture for, 161
 fever, 230–33, 292–96, 300–04
 action taken for, 230, 231, 232, 293, 294,
 301, 302
 diverticulitis with, 395–400
 action taken for, 395, 396–97, 397–99
 incidence rates for, 400
 lab work for, 397
 patient medical history and, 396
 primary survey for, 395
 secondary survey for, 396
 from Fournier’s gangrene, 295–96
 causes of, 296
 symptoms of, 296
 treatment therapies for, 296
 from Kawasaki disease, 232–33
 diagnostic criteria for, 233
 lab work for, 232, 303
 after liver transplant, 414–18
 action taken for, 414, 416, 417
 bacterial causes of, 418
 lab work for, 417
 mycotuberculosis after, 418
 patient medical history and, 414
 primary survey for, 414
 secondary survey for, 415
 patient medical history of, 230–31, 293
 with HIV/AIDS, 301
 from pneumonia with HIV, 303–04
 diagnostic testing for, 304
 pulmonary disorder development from,
 304
 primary survey for, 230, 301
 with rash, 142–46
 action taken for, 143
 lab work for, 143–44

- patient medical history for, 142–43
 - primary survey for, 142
 - secondary survey for, 143
 - from Steven-Johnson syndrome, 144–45
- secondary survey for, 231, 293–94, 301–02
- from SIRS, 375–80
 - action taken for, 375–76, 377
 - lab work for, 378
 - patient medical history and, 376
 - primary survey for, 375
 - secondary survey for, 377
 - symptoms of, 379
- Fitz–Hugh–Curtis syndrome, 50
- flank ecchymosis, 118
- flank pain, 114–18, 285–88
 - from AAA, 117–18
 - action taken for, 114, 115, 117, 285
 - ecchymosis, 118
 - lab work for, 116–17, 287
 - patient medical history of, 114, 285–86
 - primary survey for, 285
 - from renal colic, 287–88
 - kidney stones and, 288
 - secondary survey for, 115, 286
- fluid resuscitation, for anaphylaxis, 167
- foot pain, 470–73
 - action taken for, 471
 - from acute gout, 472–73
 - diagnosis factors for, 473
 - incidence rates for, 473
 - treatment therapies for, 473
 - lab work for, 471–72
 - patient medical history of, 470
 - primary survey for, 470
 - secondary survey for, 470–71
- Fournier's gangrene, 295–96
 - causes of, 296
 - symptoms of, 296
 - treatment therapies for, 296
- fractures. *See also* maxillofacial trauma
 - from being struck by automobile, 341–48
 - action taken for, 341–42, 345–46, 347
 - lab work after, 346–47
 - patient medical history and, 342–43
 - primary survey for, 341
 - secondary survey for, 343–44
 - from spinal injury, 316–17
- gastric perforation, 110
 - age as risk factor, 110
 - hypotension and, 110
- GBS. *See* Guillain-Barré syndrome
- general weakness. *See* weakness, general
- Giardia lamblia*, 207
- giardiasis, 207
- gout, 472–73
 - diagnosis factors for, 473
 - incidence rates for, 473
 - treatment therapies for, 473
- Guillain-Barré syndrome (GBS), 149
 - intubation indications for, 149
- HACE. *See* high altitude cerebral edema
- HAPE. *See* high altitude pulmonary edema
- headaches, 175, 225–30, 253–57, 266–71
 - action taken for, 225–26, 227, 228, 253, 254, 267, 268
 - from bacterial meningitis, 256–57
 - Kernig's/Brudzinski's signs and, 257
 - symptoms of, 256
 - treatment for, 256–57
 - from cavernous sinus thrombosis, 229–30
 - causes of, 230
 - symptoms of, 229
 - treatment therapies for, 230
 - from HACE, 270
 - onset of, 270
 - from hypertensive emergency, 438–42
 - action taken for, 438–39, 440
 - lab work for, 441
 - management of, 442
 - patient medical history and, 439
 - primary survey for, 438
 - secondary survey for, 440
 - treatment for, 442
 - lab work for, 228, 255–56, 269–70
 - nursing procedures for, 253–54
 - patient medical history and, 226, 253, 267
 - primary survey for, 225, 253, 267
 - secondary survey for, 226–27, 254, 267–68
- heatstroke, 380–85
 - action taken for, 380, 382
 - anhidrosis and, 385
 - anticholinergic agents and, 385
 - lab work for, 383–84
 - patient medical history and, 380–81
 - primary survey for, 380
 - secondary survey for, 381–82
 - treatment for, 385
 - fluid therapy in, 385
 - with medications, 385
- hematochezia, 426–29
 - action taken for, 426, 427
 - lab work for, 427–28
 - with necrotizing enterocolitis, 428–29
 - causes of, 429
 - symptoms of, 429
 - patient medical history and, 426
 - secondary survey for, 427
- hematuria, 118
- hemolytic uremic syndrome (HUS), 362–65
 - action taken for, 364
 - lab work for, 363–64
 - patient medical history for, 362–63
 - primary survey for, 362
 - secondary survey for, 363
 - treatment for, 365
- Henoch-Schönlein Purpura (HSP), 82–83
 - abdominal pain and, 83
 - complications from, 83
 - symptoms of, 82
- hernias, abdominal pain from, with bowel obstruction, 73–76

- heuristics, in decision making, 16–18
 - ABCs of, 17
 - analytic thinking in, 17–18
 - cognitive checkpoints for, 18
 - shotgunning, 18
 - sick/not sick paradigm, 17
- high altitude cerebral edema (HACE), 270
 - onset of, 270
- high altitude pulmonary edema (HAPE), 270
- hip dislocations, 535
- HIV/AIDS. *See* human immunodeficiency virus/
 - acquired immune deficiency syndrome
- HSP. *See* Henoch-Schönlein Purpura
- human immunodeficiency virus/acquired
 - immune deficiency syndrome (HIV/AIDS)
 - fever with, 301
 - PCP and, 459–60
 - pericardial tamponade and, 386
 - pneumonia with, fever from, 303–04
 - diagnostic testing for, 304
 - pulmonary disorder development from, 304
 - Stevens–Johnson syndrome from, 145
- HUS. *See* hemolytic uremic syndrome
- hypercalcemia, 488
- hypercapnia, 142
- hypercarbia, 487
- hyperglycemia, 488
- hyperkalemia, 68–69
 - causes of, 68–69
 - EKG for, 68
 - medications for, 69
- hyponatremia, 488
- hypertension, 271
- hypertensive emergency, 438–42
 - action taken for, 438–39, 440
 - lab work for, 441
 - management of, 442
 - patient medical history and, 439
 - primary survey for, 438
 - secondary survey for, 440
 - treatment for, 442
- hypoglycemia, 265–66
 - age as risk factor for, 266
 - altered mental status from, 487–88
 - symptoms of, 266
 - treatment for, 266
- hypokalemia, from aspirin toxicity, 80
- hyponatremia, 488
- hypotension
 - abdominal pain and, 76
 - altered mental status from, 488
 - gastric perforation and, 110
- hypothermia, 443–48
 - action taken for, 443
 - moderate v. severe, 447
 - patient medical history and, 443–44
 - primary survey for, 443
 - rapid rewarming for, 448
 - secondary survey for, 444–45
- hypoxemia, 487
- ICH. *See* intracranial hemorrhage
- illness scripts, 16
- imaging
 - for acute pericardial tamponade, 219
 - for aortic coarctation, 452
 - for appendicitis, 171
 - for cauda equina, 238
 - for cholecystitis, 49
 - for DKA, 188–89
 - for hyperkalemia, 68
 - for infant vomiting, 36–37
 - for inhalation anthrax, 438
 - for ischemic bowel, 326
 - for overdoses, 30
 - pericardial tamponade, 390
 - for pericarditis, 261
 - for pertussis, 113
 - for retropharyngeal abscess, 97
 - for SBO, 154
 - for sore throat, 95
 - for splenic rupture, 425
- infants
 - resuscitation of, 512
 - vomiting by, 33
 - actions for, 34, 35
 - congenital hypertrophic pyloric stenosis
 - as cause of, 36
 - lab work for, 35
 - nursing procedures for, 34
 - patient history of, 34
 - primary survey for, 34
 - secondary survey for, 34–35
 - ultrasound for, 36
- weak, 50–53
 - action taken for, 50, 51
 - lab work for, 52
 - nursing procedures for, 51
 - patient medical history of, 50–51
 - primary survey for, 50
 - secondary survey for, 51
 - sepsis in, 53
- infected gallbladder. *See* cholecystitis
- inhalation anthrax, 434–38
 - action taken for, 434, 437
 - clinical course of, 438
 - CXR for, 438
 - lab work for, 436
 - patient medical history and, 434–35
 - primary survey for, 434
 - secondary survey for, 435–36
 - treatment for, 438
- INH, overdose of, 460–65
 - action taken for, 461
 - lab work for, 463–64
 - patient medical history and, 461
 - primary survey for, 460
 - secondary survey for, 461–62
 - symptoms of, 465
 - treatment for, 465
- insulin, for DKA, 191
- intracranial hemorrhage (ICH), 40–41

- intraosseous infusion, 524–25
 complications from, 525
 contraindications for, 524–25
 technique for, 525
- intubation
 for acute asthma exacerbation, 142
 for COPD, 331
 for GBS, 149
 for Ludwig's angina, 214
 orotracheal, 532–34
 in pediatric medicine, 509–10
 with thermal burns, 131
 for trauma, 497
- intussusception, 299–300
 age as factor for, 300
 clinical presentation of, 300
 Dance's sign and, 300
 etiology of, 300
 symptoms of, 300
- iron, overdose of, 32–33
 clinical stages of, 33
 deferoxamine therapy for, 33
 intentional, 32
 toxic levels in, 32
- ischemic bowel, 322–26
 action taken for, 322, 324–25
 causes of, 326
 imaging for, 326
 lab work for, 325
 patient medical history and, 322
 primary survey for, 322
 secondary survey for, 323–24
 symptoms of, 326
- joint dislocations, 534–36
 in ankles, 536
 in elbows, 535
 in hips, 535
 in knees, 535
 in shoulders, 535
 TMJ and, 536
- Kawasaki disease, 232–33
 diagnostic criteria for, 233
- Kernig signs, 257
- kidney stones, 288
- knee dislocations, 535
- knee pain, 97–101, 240–44
 action taken for, 98–99, 99–100, 241, 242
 lab work for, 243
 nursing procedures for, 242–43
 patient medical history and, 98, 241
 primary survey for, 98, 240–41
 from SCFE, 100–01
 secondary survey for, 98, 241
 from septic arthritis, 243–44
 treatment for, 244
- Kussmaul's breathing, 219
- lateral canthotomy, 531
- leg swelling, 61–65
 action taken for, 61, 63
 lab work for, 63–64
 from necrotizing fasciitis, 64–65
 patient medical history of, 61–63
 primary survey for, 61
 secondary survey for, 63
- lightheadedness, 135–38
 action taken for, 135
 from bradycardia, 137–38
 lab work for, 137
 patient medical history of, 136
 primary survey for, 135
 secondary survey for, 136–37
- limpness, 512
- liver transplants, fever after, 414–18
 action taken for, 414, 416, 417
 bacterial causes of, 418
 lab work for, 417
 mycobacteriosis after, 418
 patient medical history and, 414
 primary survey for, 414
 secondary survey for, 415
- Ludwig's angina, 213–14
 antibiotics for, 214
 indications for, 214
 intubation for, 214
- lumbar puncture, 527–29
 complications from, 529
 contraindications for, 528
 for febrile seizures, 161
 indications for, 527–28
 technique for, 528
- lung injury, acute, 204
- magnesium sulfate, 330
- magnetic resonance imaging (MRI), for cauda equina, 238
- maxillofacial trauma, 126–27
- medications
 for heatstroke, 385
 for hyperkalemia, 69
 for overdoses, 30
 Stevens–Johnson syndrome from use of, 145
- meningitis. *See* bacterial meningitis
- mental status, altered, 37–41, 171–76, 261–66, 271–76, 486–92
 action taken for, 37, 39, 40, 172, 262, 264–65, 271, 273, 274
 from alcohol intoxication, 489
 from alcohol withdrawal, 331–35, 489
 action taken for, 331
 benzodiazepines for, 335
 lab work for, 333–34
 patient medical history and, 332
 primary survey for, 331
 secondary survey for, 332–33
 with seizures, 335
 from CNS pathology, 489–90
 coma from, 41
 Cushing reflex and, 41
 dementia as cause of, 491

- mental status, altered (*cont.*)
 from digoxin toxicity, 274–75
 mortality rates for, 275
 symptoms of, 275
 from encephalopathies, 490–91
 from endocrinopathies, 490
 from fluid/electrolyte disturbance, 488
 from heatstroke, 380–85
 action taken for, 380, 382
 anhidrosis and, 385
 anticholinergic agents and, 385
 lab work for, 383–84
 patient medical history and, 380–81
 primary survey for, 380
 secondary survey for, 381–82
 treatment for, 385
 from hypercalcemia, 488
 from hypercarbia, 487
 from hyperglycemia, 488
 from hyponatremia, 488
 from hypoxemia, 487
 ICH and, 40–41
 from INH overdose, 460–65
 action taken for, 461
 lab work for, 463–64
 patient medical history and, 461
 primary survey for, 460
 secondary survey for, 461–62
 symptoms of, 465
 treatment for, 465
 lab work for, 39–40, 174, 265, 273
 nursing procedures for, 262
 from opioid overdose, 200–04
 action taken for, 200, 201–02, 202–03
 acute lung injury and, 204
 lab work for, 202
 patient medical history of, 200
 primary survey for, 200
 secondary survey for, 201
 treatment therapies and, 204
 withdrawal and, 204
 patient medical history of, 37–38, 172,
 262, 271–72, 486–87
 with CHF, 271
 with hypertension, 271
 physical exam for, 487
 from poisoning, 489
 primary survey for, 37, 172, 262, 271
 psychiatric causes of, 491
 secondary survey for, 39, 172–74, 262–63,
 272–73
 sedation as treatment for, 492
 from sepsis, 488–89
 from subdural hematoma, 175–76
 age as risk factor for, 175–76
 CT for, 175
 epidural v., 176
 headaches from, 175
 from temperature extremes, 491
 from thyrotoxicosis, 352–58
 action taken for, 352, 355
 causes of, 357
 lab work for, 355–56
 patient medical history and, 353
 primary survey for, 352
 secondary survey for, 353–55
 symptoms of, 357
 MI. *See* myocardial infarction
 MRI. *See* magnetic resonance imaging
 mycotuberculosis, 418
 myocardial infarction (MI)
 abdominal pain from, 191–95
 action taken for, 192, 193
 lab work for, 194
 patient medical history of, 192
 primary survey for, 192
 with right ventricle, 195
 secondary survey for, 193
 treatment therapies for, 195
 anterolateral, 375
 cardiac catheterization for, 375
 chest pain from, 372–75, 484
 action taken for, 372, 373
 lab work for, 374
 patient medical history and, 372
 primary survey for, 372
 secondary survey for, 373
 treatment for, 484
 neck pain, 474–78
 action taken for, 474, 475–76
 from carotid artery dissection, 478
 clinical presentation of, 478
 treatment for, 478
 lab work for, 476
 patient medical history and, 474
 physical exam for, 474–75
 primary survey for, 474
 necrotizing enterocolitis, 428–29
 causes of, 429
 symptoms of, 429
 necrotizing fasciitis, 64–65
 diabetes as risk factor for, 65
 needle decompression, for stab
 wound to chest, 391
 needle thoracostomy, 519–20
 complications from, 520
 neurogenic shock, 317
 nonaccidental trauma, abdominal pain from,
 358–62
 action taken for, 359, 360
 lab work after, 359–60
 patient medical history and, 358
 primary survey for, 358

- secondary survey for, 359
- from suspected physical abuse, 361
- opioid overdose, 200–04
 - action taken for, 200, 201–02, 202–03
 - acute lung injury and, 204
 - lab work for, 202
 - patient medical history of, 200
 - primary survey for, 200
 - secondary survey for, 201
 - treatment therapies and, 204
 - withdrawal and, 204
- opioid withdrawal, 204
 - symptoms of, 204
- optic neuritis, 89
- orotracheal intubation, 532–34
 - complications from, 534
 - contraindications for, 533
 - indications for, 532–33
 - technique for, 533–34
- ovarian torsion, 196–200
 - action taken for, 197, 198
 - adnexal, 199
 - lab work for, 197–98
 - patient medical history of, 196
 - primary survey for, 196
 - secondary survey for, 197
 - symptoms of, 199
- overdoses, 28–33. *See also* iron, overdose of
 - of acetaminophen, 368–72
 - action taken for, 369
 - four stages of toxicity in, 371–72
 - lab work for, 369–70
 - patient medical history and, 368
 - primary survey for, 368
 - secondary survey for, 369
 - action taken, 28
 - imaging for, 30
 - of INH, 460–65
 - action taken for, 461
 - lab work for, 463–64
 - patient medical history and, 461
 - primary survey for, 460
 - secondary survey for, 461–62
 - symptoms of, 465
 - treatment for, 465
- iron, 32–33
 - lab work for, 30
 - medications for, 30
 - nursing procedures, 29, 30–31
- opioid, 200–04
 - action taken for, 200, 201–02, 202–03
 - acute lung injury and, 204
 - lab work for, 202
 - patient medical history of, 200
 - primary survey for, 200
 - secondary survey for, 201
 - treatment therapies and, 204
 - withdrawal and, 204
- patient assessment for, 28
- patient medical history of, 28
- primary survey for, 28
- secondary survey for, 29–30
- TCA, 409–13
 - action taken for, 409, 411
 - lab work after, 412
 - patient medical history with, 410
 - primary survey for, 409
 - secondary survey for, 411
 - treatment therapies for, 413
- pacemakers, 409
- pain. *See* abdominal pain; back pain; chest pain; eye pain; flank pain; foot pain; knee pain; neck pain; rectal pain
- palpitations, 304–08
 - action taken for, 305, 306
 - lab work for, 306–07
 - patient medical history for, 305
 - primary survey for, 304
 - secondary survey for, 305
 - from SVT, 307–08
 - treatment for, 308
 - from ventricular tachycardia, 404–09
 - action taken for, 404, 406–07
 - lab work for, 407–08
 - mortality rates for, 409
 - pacemakers after, 409
 - patient medical history of, 404–05
 - primary survey for, 404
 - secondary survey for, 405–06
 - symptoms of, 408
- pancreatitis, 317–21
 - action taken for, 318, 320
 - lab work for, 320
 - patient history and, 318
 - primary survey for, 317
 - secondary survey for, 318–20
- paracentesis, 525–26
 - complications from, 526
 - contraindications for, 525
 - technique for, 526
- paraphimosis reduction, 530
- PCP. *See* pneumocystis pneumonia
- PE. *See* pulmonary embolism
- pediatrics, emergency medicine and, 509–13
 - burns and, 510
 - congenital heart lesions and, 512–13
 - intubation and, 509–10
 - limpness and, 512
 - in newborn resuscitation, 512
 - normal vital statistics by age in, 509
 - sepsis and, 512
 - suspected child abuse and, 361, 511
 - toxicology issues in, 510–11
 - trauma considerations in, 511
- pericardial tamponade, acute, 218–19, 385–90
 - action taken for, 386, 387, 389
 - Beck's triad and, 219, 390
 - CXR for, 219

- pericardial tamponade, acute (*cont.*)
 echocardiography for, 390
 Kussmaul's breathing from, 219
 lab work for, 388–89
 patient history and, 386
 with HIV, 386
 primary survey for, 386
 secondary survey for, 386–87
 treatment therapies for, 390
- pericardiocentesis, 518–19
 contraindications for, 518–19
 technique for, 519
- pericarditis, 260–61
 causes of, 261
 EKG for, 261
 symptoms of, 261
- perimortem C-section, 532
 contraindications for, 532
 technique for, 532
- perirectal abscess, uncomplicated, 178–79
 Crohn's disease and, 178
 morbidity factors for, 179
 types of, 178
- peritonitis. *See* spontaneous bacterial peritonitis
- pertussis, 113
 antibiotic treatment for, 113
 CXR for, 113
- pharmaceuticals. *See* medications
- physical abuse, of elderly, 465–70
 action taken for, 466, 467–68
 categories of, 469
 forms of, 469
 lab work for, 468
 nonaccidental trauma as, 361
 patient medical history and, 466
 primary survey for, 466
 secondary survey for, 466–67
- pneumocystis pneumonia (PCP), 456–60
 action taken for, 456, 458
 causes of, 460
 HIV/AIDS and, 459–60
 lab work for, 458
 patient medical history and, 456
 primary survey for, 456
 secondary survey for, 457–58
 treatment therapies for, 460
- pneumonia
 community-acquired, 311–12
 antibiotic treatment for, 312
 with HIV, 303–04
 diagnostic testing for, 304
 pulmonary disorder development from, 304
 PCP, 456–60
 with SIRS, 375–80
 symptoms of, 379
- poisoning, 493–94
 altered mental status from, 489
 common toxidromes in, 494–95
 patient medical history and, 493–94
 patient stabilization after, 493
 physical exam for, 493–94
- pregnancy
 during appendicitis, 171
 eclampsia during, 400–04
 action taken for, 400, 401, 402–03
 clinical presentation of, 403
 lab work for, 402
 patient medical history and, 400–01
 primary survey for, 400
 secondary survey for, 401–02
 treatment for, 404
- ectopic, 181–83
 mortality rate for, 182
 risk factors for, 182–83
- prolonged QT syndrome, 92–93
 torsades de pointes arrhythmia from, 93
- pulmonary embolism (PE), 164–65, 484
 D-dimer assays for, 165
 heparin treatment for, 165
 risk criteria for, 165
- pulseless arrest, 501
- pyelonephritis, 350–52
- rash, 244–48. *See also* Stevens–Johnson syndrome
 action taken for, 244, 245–46
 with fever, 142–46
 action taken for, 143
 lab work for, 143–44
 patient medical history for, 142–43
 primary survey for, 142
 secondary survey for, 143
 from Stevens–Johnson syndrome, 144–45
 lab work for, 246
 patient medical history and, 244–45
 primary survey for, 244
 from Rocky Mountain Spotted Fever, 246–48
 indications for, 248
 long-term effects of, 248
 secondary survey for, 245
- rectal pain, 176–79
 action taken for, 177, 178
 Crohn's disease and, 176–77
 lab work for, 178
 patient medical history of, 176–77
 primary survey for, 176
 secondary survey for, 177
 from uncomplicated perirectal abscess, 178–79
 Crohn's disease and, 178
 morbidity factors for, 179
 types of, 178
- renal colic, 287–88
 kidney stones and, 288
- respiratory distress, 365–68
 action taken for, 365, 366–67
 from foreign body aspiration, 367
 patient medical history and, 366
 physical exam for, 366
 primary survey for, 365

- retinal vascular occlusion, 88–89
 indications for, 88
 optic neuritis v., 89
- retropharyngeal abscess, 96–97
 age as factor for, 97
 antibiotics for, 97
 imaging for, 97
 physical exam for, 97
- ringing in ears, 76–80
 action taken for, 77, 78
 from aspirin toxicity, 79–80
 lab work for, 77–78
 patient medical history of, 76
 primary survey for, 76
 secondary survey for, 76–77
- Rocky Mountain Spotted Fever, 246–48
 indications for, 248
 long-term effects of, 248
- ruptured esophagus, 485
- SBO. *See* small bowel obstruction
- SBP. *See* spontaneous bacterial peritonitis
- SCFE. *See* slipped capital femoral epiphysis
- seizures, 159–61, 208–11, 288–92
 action taken for, 160, 208, 289, 290
 with alcohol withdrawal, 335
 from eclampsia, 400–04
 action taken for, 400, 401, 402–03
 clinical presentation of, 403
 lab work for, 402
 patient medical history and, 400–01
 primary survey for, 400
 secondary survey for, 401–02
 treatment for, 404
- febrile, 160–61
 causes of, 161
 lumbar puncture for, 161
- lab work for, 160, 210, 290
- patient medical history of, 159, 208–09, 289
- primary survey for, 159, 208, 289
- secondary survey for, 159–60, 209, 289
- from status epilepticus, 290–92
 blood serum levels and, 292
 treatment for, 292
- from TCA overdose, 409–13
 action taken for, 409, 411
 lab work after, 412
 patient medical history with, 410
 primary survey for, 409
 secondary survey for, 411
 treatment therapies for, 413
- from TTP, 211
 symptoms of, 211
 treatment therapies for, 211
- Seldinger technique. *See* central venous access,
 with Seldinger technique
- sepsis
 altered mental status from, 488–89
 in infants, 53
- septic arthritis, 243–44
 treatment for, 244
- shortness of breath, 138–42, 276–84. *See also*
 asthma exacerbation, acute
 action taken for, 139, 140, 276, 278, 280, 282,
 283
 from acute asthma exacerbation, 141–42
 from CHF, 279–80
 risk factors for, 280
 from COPD, 326–31
 action taken for, 327, 329
 intubation for, 331
 lab work for, 329–30
 patient medical history of, 327
 primary survey for, 327
 secondary survey for, 329
 treatment for, 330–31
 from critical aortic coarctation, 284
 lab work for, 140–41, 279, 282–83
 patient medical history of, 139, 276–77, 281
 from pericardial tamponade, 385–90
 action taken for, 386, 387, 389
 Beck's triad and, 390
 echocardiography for, 390
 lab work for, 388–89
 patient history and, 386
 primary survey for, 386
 secondary survey for, 386–87
 treatment therapies for, 390
 primary survey for, 139, 276, 280
 secondary survey for, 139–40, 277–78, 282
- shotgunning, 18
- shoulder dislocations, 535
- sickle cell disease, 248–52
 action taken for, 248–49, 250
 with acute chest syndrome, 252
 lab work for, 251–52
 patient medical history of, 249
 primary survey for, 248, 276
 secondary survey for, 249–50
- sick/not sick paradigm, 17
- SIDS. *See* sudden infant death syndrome
- sigmoid volvulus, 478–82
 action taken for, 479, 481, 482
 patient medical history and, 479
 physical exam for, 479–80
 primary survey for, 479
 risk factors for, 482
 surgery as treatment for, 482
- SIRS. *See* systemic inflammatory response
 syndrome
- slipped capital femoral epiphysis (SCFE),
 100–01
 age/gender as factors for, 101
- small bowel obstruction (SBO), 152–54
 CT for, 154
 CXR for, 154
 surgery as treatment for, 154
- snake bites, 83–85
 antivenin for, 85
 crotalid venom as treatment for, 85
 elapids for, 85
 nonpoisonous, 84–85

- snake bites (*cont.*)
 patient medical history of, 84
 primary survey for, 84
 secondary survey for, 84
- sore throat, 93–97. *See also* retropharyngeal abscess
 action taken for, 94, 95
 imaging for, 95
 lab work for, 95
 patient medical history of, 94
 primary survey for, 93
 from retropharyngeal abscess, 96–97
 secondary survey for, 94
- spinal injury, 316–17
 neurogenic shock from, 317
- spleen, 425
- splenic rupture, from blunt abdominal trauma, 425
 CT for, 425
- spontaneous bacterial peritonitis (SBP), 429–34
 action taken for, 430, 431–32
 lab work for, 432
 patient medical history and, 430
 primary survey for, 430
 secondary survey for, 430–31
 treatment for, 434
- spontaneous pneumothorax, 485
 treatment for, 485
- stab wounds, to chest, 390–95
 action taken for, 391
 with needle decompression, 391
 with tube thoracostomy, 391, 395
 lab work after, 394
 patient medical history and, 391–92
 primary survey for, 391
 secondary survey for, 392
 tension pneumothorax from, 394–95
- status epilepticus, 290–92
 blood serum levels and, 292
 treatment for, 292
- steroids, for COPD, 331
- Stevens–Johnson syndrome, 144–45
 HIV as risk factor for, 145
 medication as cause of, 145
 treatment therapies for, 145
- stroke, 336–41
 action taken for, 336, 338, 340
 lab work for, 338–39
 patient medical history and, 336–37
 primary survey for, 336
 secondary survey for, 337–38
 symptoms of, 341
 treatment after, 341
- subdural hematoma, 175–76
 age as risk factor for, 175–76
 CT for, 175
 epidural v., 176
 headaches from, 175
- sudden infant death syndrome (SIDS), 239–40
- supraventricular tachycardia (SVT), 307–08
 treatment for, 308
- SVT. *See* supraventricular tachycardia
- swelling. *See* leg swelling
- syncope, 89–93
 action taken for, 89, 91, 92
 lab work for, 91–92
 patient medical history of, 89
 primary survey for, 89, 91
 from prolonged QT syndrome, 92–93
 secondary survey for, 90–91
- systemic inflammatory response syndrome (SIRS), 375–80
 action taken for, 375–76, 377
 lab work for, 378
 patient medical history and, 376
 primary survey for, 375
 secondary survey for, 377
 symptoms of, 379
- tachycardia, ACLS for, 501–02
- TCA. *See* tricyclic antidepressants, overdose of
- temporomandibular joint (TMJ) syndrome, 536
- tension pneumothorax, 44, 394–95
 etiologies of, 395
- testicular detorsion, 530–31
- testicular torsion, 103–05
 manual treatment for, 105
 surgery for, 105
- thermal burns, 130
 fluid resuscitation for, 131
 intubation with, 131
- thoracostomy. *See* needle thoracostomy; tube thoracostomy
- throat swelling, 165–68
 action taken for, 166, 167
 from anaphylaxis, 167–68
 epinephrine therapies for, 168
 fluid resuscitation for, 167
 mortality factors for, 167
 patient medical history of, 166
 primary survey for, 166
 secondary survey for, 166–67
- thrombotic thrombocytopenic purpura (TTP), 211
 symptoms of, 211
 treatment therapies for, 211
- thyrotoxicosis, 352–58
 action taken for, 352, 355
 causes of, 357
 lab work for, 355–56
 patient medical history and, 353
 primary survey for, 352
 secondary survey for, 353–55
 symptoms of, 357
- TIPS. *See* transjugular intrahepatic portosystemic shunt
- TMJ syndrome. *See* temporomandibular joint syndrome
- TOA. *See* tubo-ovarian abscesses

- toothache, 212–15
 action taken for, 213
 lab work for, 213
 from Ludwig's angina, 213–14
 antibiotics for, 214
 indications for, 214
 intubation for, 214
 patient medical history of, 212
 primary survey for, 212
 secondary survey for, 212–13
- Torsades de pointes arrhythmia, 93
- transcutaneous pacing, 138, 517–18
 complications from, 518
 indications for, 517
 technique for, 518
- transjugular intrahepatic portosystemic shunt (TIPS), 135
- transplants. *See* liver transplants, fever after trauma, 497–98
 intubation for, 497
 tube thoracostomy for, 497
- traveler's diarrhea, 207
- tricyclic antidepressants (TCA), overdose of, 409–13
 action taken for, 409, 411
 lab work after, 412
 patient medical history with, 410
 primary survey for, 409
 secondary survey for, 411
 treatment therapies for, 413
 with benzodiazepine, 413
- TTP. *See* thrombotic thrombocytopenic purpura
- tube thoracostomy, 497, 520–21
 complications from, 521
 indications for, 520
 for stab wound to chest, 391, 395
 technique for, 521
- tubo-ovarian abscesses (TOA), 221–25
 action taken for, 222, 223
 antibiotic treatment for, 225
 lab work for, 224
 patient medical history and, 222
 primary survey for, 222
 secondary survey for, 222–23
- ultrasound
 for appendicitis, 171
 for cholecystitis, 49
 for infant vomiting, 36–37
- uncomplicated perirectal abscess.
See perirectal abscess, uncomplicated
- upper GI bleeding. *See* variceal bleeding
- vaginal bleeding, 179–83
 action taken for, 180, 181
 from ectopic pregnancy, 181–83
 lab work for, 181
 patient medical history of, 179–80
 primary survey for, 179
 secondary survey for, 180
- variceal bleeding, 134–35
 risk factors for, 134
 therapy goals for, 135
 TIPS for, 135
- ventricular tachycardia, 404–09
 action taken for, 404, 406–07
 lab work for, 407–08
 mortality rates for, 409
 pacemakers after, 409
 patient medical history of, 404–05
 primary survey for, 404
 secondary survey for, 405–06
 symptoms of, 408
- Vibrio cholera*, 207
- visual impairment, 85–89
 action taken for, 86, 88
 lab work for, 87
 patient medical history of, 86
 primary survey for, 86
 from retinal vascular occlusion, 88–89
 secondary survey for, 86
- vomiting, 296–300
 with abdominal pain, 46–50, 150–55
 action taken for, 47, 150, 151, 152
 cholecystitis as cause of, 48–49
 differential diagnoses for, 49
 Fitz–Hugh–Curtis syndrome and, 50
 lab work for, 47–48
 patient medical history of, 46, 150
 primary survey for, 46, 150
 from SBO, 152–54
 secondary survey for, 46–47, 150–51
- action taken for, 298
- of blood, 131–35
 action taken by, 132–33, 134
 lab work for, 133–34
 patient medical history of, 132
 primary survey for, 132
 secondary survey for, 132
 from variceal bleeding, 134–35
- Boerhaave's syndrome and, 57
- by children, 80–83
 action taken for, 81, 82
 from HSP, 82–83
 lab work for, 81–82
 patient medical history of, 80
 primary survey for, 80
 secondary survey for, 81
- by infants, 33
 actions for, 34, 35
 congenital hypertrophic pyloric stenosis as cause of, 36
 lab work for, 35
 nursing procedures for, 34
 patient medical history of, 34
 primary survey for, 34
 secondary survey for, 34–35
 ultrasound for, 36
- from intussusception, 299–300
 age as factor for, 300
 clinical presentation of, 300
 Dance's sign and, 300

- vomiting (*cont.*)
 - etiology of, 300
 - symptoms of, 300
 - lab work for, 297–98
 - patient medical history of, 297
 - primary survey for, 296
 - secondary survey for, 297
- weak infants, 50–53
 - action taken for, 50, 51
 - lab work for, 52
 - nursing procedures for, 51
 - patient medical history of, 50–51
 - primary survey for, 50
 - secondary survey for, 51
 - sepsis in, 53
 - treatment for, 53
- weakness, general, 65–69, 118–23, 146–49
 - action taken for, 66, 67, 119, 121, 146, 148–49
 - from carbon monoxide poisoning, 121–23
 - from GBS, 149
 - from hyperkalemia, 68–69
 - causes of, 68–69
 - EKG for, 68
 - medications for, 69
 - lab work for, 67–68, 120–21, 147
 - patient medical history of, 66, 119, 146
 - from physical abuse, of elderly, 465–70
 - action taken for, 466, 467–68
 - categories of, 469
 - forms of, 469
 - lab work for, 468
 - nonaccidental trauma as, 361
 - patient medical history and, 466
 - primary survey for, 466
 - secondary survey for, 466–67
 - primary survey for, 65, 118–19, 146
 - secondary survey for, 66–67, 119, 147
 - from stroke, 336–41
 - action taken for, 336, 338, 340
 - lab work for, 338–39
 - patient medical history and, 336–37
 - primary survey for, 336
 - secondary survey for, 337–38
 - symptoms of, 341
 - treatment after, 341