

Index

Notes: Please note that entries in **bold** and *italics* represent tables and figures respectively

A

Abciximab, thrombocytopenia, 459
abdomen
acute see acute abdomen
angina, mesenteric infarction, 266
blood vessels, polyarteritis nodosa, 179
pain see abdominal pain
physical examination, 30–31
pleural effusion, 248
ultrasound, secondary hypertension, 733
abdominal organs, nervous system, 256
abdominal pain
acute, 257–273
cholelithiasis, 766
unclear etiology see acute abdomen
bile ducts and liver, 286–289
causes, **265**
chronic recurring, 275
colic see colic
colon, 284–285
differential diagnosis, **256**, **259**
acute abdomen, 258
right hypogastric and midabdominal region, 289
diffuse, **259**
emergency surgery indications, 258
epigastric
differential diagnosis, **259**
diurnal rhythm, 274
ketoacidotic coma, 1002
localization and radiation, 274
long-term, 274
nutrition dependence, 274
periodic occurrence, 274
position and movement dependence, 274
fever, 149–151
intoxication, 268–273
left hypochondriac, **259**
positive predictive value, 11
postprandial
chronic pancreatitis, 293
ischemic colitis, 815
stomach and small intestine, 274–284
systemic diseases, 268–273
umbilical, **259**
vascular causes, 266–267
visceral vs. somatic pain, 256
abdominal situs solitus, central cyanosis, 684
abdominal vessels, polyarteritis nodosa, 179
abducens nerve (VI), paresis, 960
abscesses
brain, 137, 208, 999
epidural, 138, 302
intra-abdominal, 150
kidney, 883, 883
liver, 146, 151, 796
lung see pulmonary diseases/disorders
pancreatic, 151

parapharyngeal space, 479
spleen, 151
teeth, 212
tuberculous paravertebral, 597–599
absolute pupillary areflexia, 97
Abt-Letterer-Siwe disease, 445
Acanthamoeba infection, meningitis, 135
acanthocytes liver cirrhosis, 398
urinary sediment analysis, 847, 848
acanthocytosis, 417
acanthosis nigricans, 55, 55
accelerated junctional rhythms, 719
acetaminophen analgesic nephropathy, 880
coma, 1007
acetoacetic acid, normochloremic metabolic acidosis, 920
acetylsalicylic acid, coma, 1007
achalasia, 804–806
achlorhydria, chronic atrophic gastritis, 403
achondroplasia, 83, 84
acid–base balance, 1017–1019
disturbances see acid–base disturbances
indication, 1017
influencing factors, 1017
normal, **915**
regulation, levels of, 915–916
renal compensation, 916
respiratory compensation, 916
acid–base disturbances, 862, 915–928
analysis, 927, 927
parameters, **919**
clinical features, 919
compensatory responses, **915**, **917**
complex disorders, 917–919, **918**
evaluation nomogram, 918
physiologic principles, 915–917
simple disorders, 917
symptoms and signs, **919**
systematic analysis, 927
types, 927
see also acidosis; alkalosis;
specific diseases/disorders
acid–base metabolism, 915
acidosis, 917–928
definition, 915–922, 917
lactic see lactic acidosis
metabolic see metabolic acidosis
opportunistic fungal infections, 168
acoustic neuroma, 98
acral enlargement, 743
acral ulceration, diabetic microangiopathy, 326
acrocyanosis, 326, 708
acrodermatitis chronica atrophicans, 57, 386
inflammatory edema, 389
acrodermatitis papulosa eruptiva, 767
acute renal failure (ARF), 852–857
angiography, **854**
causes, **853**
classification, 852
definition, 852
diagnostic procedure, 855–857
blood analysis, 856
glomerular filtration rate, 855
main laboratory investigations, **856**
physical examination, 855–856
radiologic examinations, 857
renal biopsy, 857
urinalysis, 856
differential diagnosis, 855, 855–857
acute tubular necrosis vs., **856**
chronic vs., 864
history and clinical examination, 855
acute respiratory distress syndrome (ARDS), 152, 536
aspiration of acidic gastric content, 529, 530
respiratory acidosis, 926
acute tubular necrosis (ATN), 854
acute renal failure vs., **856**
ischemia, 854
prerenal kidney failure, 852
toxins, 854
urinary sediment patterns, **851**
acute tubulointerstitial nephritis and uveitis syndrome, 880
adamantinoma, 361
Adams-Stokes syncope, 717
ADAMTS-13 deficiency, 416
Addison disease
anemia, 410
causes, 752
common symptoms, **752**
crisis, 193, 752
differential diagnosis, 752
hypotension, 751–752, **753**
skin pigmentation, 54, 66, 752
Addisonian crisis, 193, 752
adenocarcinoma
colon, 469
cystadenocarcinoma, 296
esophagus, 802
gastric, 802
small bowel, 817
thrombosis, 469
adenoid cystic cancer, 592
adenomas
adenoma sebaceum, 69, 70
colorectal see colorectal polyps
cystadenoma, 296
liver, 795
pancreatic b-cells, 1001
parathyroid gland, 375
parotid gland, 481
pulmonary, 561
salivary gland, 481
toxic thyroid, 486, 487
adenoma sebaceum, 70
tuberous sclerosis, 69
adenomatous polyposis coli (APC) gene, colorectal carcinoma, 819
adenomatous sigmoid polyp, 819

- adenosine diphosphate (ADP), platelet inhibition, 450
 adenovirus infection
 common cold, 140
 pneumonia, 536
 adhesive capsulitis, periarthropathia humeroscapularis, 353
 Adie syndrome, 97
 adiposogenital dys trophy, 86
 adrenal gland tumors
 cortical tumors, virilization, 73
 hereditary forms, 743
 incidentaloma, Cushing syndrome, 742
 adrenal insufficiency
 coma due to, 1004
 diarrhea, 825
 hypotension, 751–752
 primary see Addison disease
 adrenocortical crisis, 752
 adrenocortical hormones, 751
 see also specific hormones
 adrenocorticotrophic hormone (ACTH)
 Addison disease, 752
 Cushing syndrome, 740
 fasting hypoglycemia, 1001
 hypoglycemia, 1002
 hypotension, 753–755
 pituitary insufficiency, 1004
 adult still disease, 339
 adult T-cell leukemia, 441
 adult T-cell lymphoma, 441
 adventitious sounds, 29, 30, 582
 adynamiamyalgia, 1010
 adynamia, primary adrenocortical insufficiency, 751
 adynamic bone disease, 861
 chronic renal failure, 860
 aerolysin, paroxysmal nocturnal hemoglobinuria, 415
 African tick-bite fever, 121
 African trypanosomosis, 175
 afterload mismatch, 635
 agammaglobulinemia, 189, 190
 electrophoresis, 189
 agastric syndrome, 284
 age distribution, 12, 12
 aggression, ischemic stroke, 997
 agranulocytosis, 198, 199
 Ahlbäck disease, 366
 AIDS, 163–166
 herpes genitalis, 166
 Kaposi sarcoma, 166
 see also HIV infection
 air pollutants, bronchitis, 510
 airway obstruction, pulmonary cyanosis, 707
 airway resistance, 497
 akinetic-astatic seizure, 983
 akinetic mutism, 990
 alanine aminotransferase (ALT), 1022–1023
 acute coronary syndrome, 239
 hepatocellular damage, 768
 Albers-Schönberg disease, 363
 Albright osteodystrophy, 932
 Albright syndrome, 55
 albumin
 glomerular proteinuria, 844
 hypoproteinemic edema, 383
 laboratory parameters, 1019
 proteinuria, 843, 845, 868
 albuminuria, 843
 classification, 845
 nephrotic syndrome, 868
 alcohol abuse, 12
 atherosclerosis risk, 226
 coma, 1007–1008
 dilated cardiomyopathy, 669–670
 folic acid deficiency, 408
 hypertension, 746
 hypoglycemia, 1002
 lactic acidosis, 921, 1004
 liver diseases, 778–779
 cirrhosis see liver cirrhosis
 hepatitis see hepatitis
 skin color, 53, 91
 alcoholic fatty liver, 778
 aldosterone, 908
 laboratory parameters, 1020–1021
 steroid biosynthesis, 908
 aldosteronism
 familial type I, 739
 primary, 738–739
 volume expansion, 900
 secondary, mineralocorticoid hypertension, 738
 alertness, 988, 989
 aleukemic leukemias, 199
 algodystrophy syndromes, 305–306
 differential diagnosis, 306
 algorithms, diagnosis and, 4
 pulmonary hypertension, 639
 Quick prothrombin time, 452
 aliphatic hydrocarbons, coma, 1008
 alkaline phosphatase (AP)
 bone metabolism, 356
 cholestatics, 768
 extrahepatic cholestasis, 793
 Paget disease, 367
 alkaline reflux gastropathy, 284
 alkali tablets, metabolic alkalosis, 924
 alkalosis, 917–919, 917–928
 definition, 917, 922–928
 metabolic see metabolic alkalosis
 posthypercapnic, 924
 alkaptoneuria, 347
 skin presentation, 65
 alkylating agents, acute myelogenous leukemia, 428
 Allen test, peripheral artery disease, 317
 allergic alveolitis, 145
 allergic asthma, differential diagnosis, 507
 allergic bronchopulmonary aspergillosis (ABPA), 516, 537, 538, 539, 540, 546–547
 bronchocentric granulomatosis, 571
 allergic bronchopulmonary mycetoma, 539
 allergic edema, 389
 allergic gastritis, acute gastritis vs., 275
 allergic granulomatosis, 180, 547
 allergic leukopenia, 198
 allergies/allergic disease, 22
 abdominal pain, 272
 fever, 195
 skin manifestations, 195
 skin tests, 508
 see also specific allergies/diseases
 allergy tests, bronchial asthma, 508
 alloimmune hemolytic anemia, 414
 alopecia, 72–73
 systemic lupus erythematosus, 181
 alopecia areata, 72, 72
 alopecia areolaris luetica, 73, 73
 alopecia neoplastica, 72
 α_1 -antitrypsin deficiency, 514, 789
 pulmonary emphysema, 513, 513
 α -fetoprotein (AFP)
 laboratory parameters, 1022
 liver tumors, 769
 Alport syndrome, 866
 clinical manifestations, 877
 hematuria, 876–877
 Alström disease, 86
 alternating pulse, 610
 aluminum hydroxide, iron malabsorption, 402
 aluminum intoxication
 chronic renal failure, 861
 microcytic anemia, 404
 alveolar-arterial PO_2 , respiratory failure, 497
 alveolar cell carcinoma, 561, 562
 alveolar echinococcosis, 151, 796
 alveolar edema, cardiac dyspnea, 500
 alveolar hemorrhage, Goodpasture syndrome, 874
 alveolar hyperventilation, bronchial asthma, 507
 alveolar hypoventilation, 496
 respiratory acidosis, 926
 alveolar hypoxia, respiratory failure, 497
 alveolar pulmonary edema, 622, 630
 AMA see antimitochondrial antibodies (AMA)
Amanita phalloides, diarrhea, 812
Amblyomma americanum, 158
 amebiasis
 abscesses
 hepatic, 146, 151
 pulmonary, 574
 diarrheal disease, 811
 amenorrhea, 37–38
 anorexia nervosa, 755
 causes, 38
 definition, 37
 Graves disease, 485
 American Rheumatism Association (ARA), systemic lupus erythematosus, 182
 amino acid metabolism, skin changes, 65
 aminoglycosides, acute renal failure, 855
 d-aminolevulinic acid (ALA), acute intermittent porphyria, 270
 aminorex, pulmonary hypertension, 638–639
 aminotransferases, laboratory parameters, 1022–1023
 amiodarone
 pneumotoxicity, ‘amiodarone lung,’ 550
 toxic multinodular goiter, 487
 ammonia, laboratory parameters, 1023–1024
 ammoniogenesis, 916–917
 ammonium production, chronic renal failure, 862
 amnesia, transient global, 991
 amnestic aphasia, 101
 clinical features, 101
 amnestic episode, 991
 amorphous urates, urinary sediment, 850
 amphetamines, hypertension, 746
 amylase
 acute pancreatitis, 292
 chronic pancreatitis, 296
 laboratory parameters, 1024
 pancreatic disease, 290
 amyloidosis, 444
 primary, 347, 666
 restrictive cardiomyopathy, 666
 secondary, 666
 amyloid, vessel wall infiltration, 465
 ANA see antinuclear antibodies (ANA)
- anaerobic threshold, spiroergometry, 627
 analgesics
 abuse syndrome, 880, 880, 881
 coma, 1007
 nephropathy, 880–881
 see also specific drugs/drug types
Anaplasma phagocytophili, 158
 anasarca, 611
 ANCs see antineutrophilic cytoplasmic autoantibodies (ANCs)
 anemia
 acquired hypothyroidism, 489
 acute leukemia, 422
 alcohol-induced hepatitis, 779
 analgesic nephropathy, 881
 aplastic, 410–411
 cardiac dyspnea, 618
 classification, 397
 colon carcinoma, 818
 Crohn disease, 816
 definition, 396
 dyspnea, 501
 hemolytic see hemolytic anemia
 high output heart failure, 655
 hyporegenerative
 normochromic normocytic, 409–412
 iron deficiency see
 iron deficiency anemia
 laboratory techniques, 396
 macrocytic normochromic see
 macrocytic normochromic anemia
 malassimilation, 821
 megaloblastic, skin changes, 68
 microcytic hypochromic see
 microcytic hypochromic anemia
 multiple myeloma, 443
 normochromic normocytic diagnostic strategy, 412
 renal insufficiency, 859
 pernicious see pernicious anemia
 posthemorrhagic, 409
 renal insufficiency, 859
 sideroachrestic, 405
 sideroblastic, 400
 skin color, 53, 54
 tuberculosis, 144
 Waldenström disease, 444
 see also specific causes
 aneurysmal bone cyst, 362–363
 aneurysms
 aorta see aortic aneurysm
 arteriovenous, 572, 572
 false (pseudoaneurysms), 240, 323
 mycotic, 156
 peripheral artery, 322–324
 saccular, 322–323, 323
 angitis, 547, 548
 iatrogenic arterial disease, 320
 angina coerulea, 224
 angina pectoris, 221–240
 aortic stenosis, 640
 clinical characteristics, 222–223
 concentric hypertrophy, 634
 definitions, 221–222
 differential diagnosis, 220, 222–223
 exercise, 230–231
 left ventricular hypertrophy, secondary to, 223–224
 myocardial ischemia, 224–240
 interventions, following, 224
 post-myocardial infarction, 239–240

- pulmonary hypertension, 636
radiation of pain, 222, 222
renal insufficiency, 859
restrictive cardiomyopathy, 666
special forms, 223–224
stable, 222, 225–234
 coronary angiography, 234
 stress echocardiography, 231
typical, 221
angiodyplasia
 colon, aortic stenosis, 640
 congenital, 324, 324, 386, 389
 hand, 80
angioedema, 63, 191, 389–390
angiofollicular lymph node hyperplasia, 129–130
angiography, 317–318
 coronary, 627
 left ventricular isolated noncompaction, 670
 myocardial ischemia, 233, 234
 stenosis, 231
 unstable angina pectoris, 234
liver, 771
 portal system, 785, 786
phonoangiogram, 316
Raynaud phenomenon, 325, 325
 renal, 736, 737
 acute renal failure, 854
 see also specific techniques
angioimmunoblastic lymphadenopathy, 441
angiokeratoma corporis diffusum, 65
angiokeratomas
 restrictive cardiomyopathy, 667
 vessel wall, 465
angioneurotic edema, 390
angiodysplasia, 388
Angiostrongylus cantonensis, 135
angiotensin II, volume regulation, 898
animal bites/scratches, 161
animal excretion, contact with, 161
anion gap, laboratory parameters, 1025
anisomus, 832, 832
anisocoria, 96
anisocytosis, pernicious anemia, 407
ankylosing spondylitis, 341, 342
 chronic aortic insufficiency, 649
 spinal deformities, 341
ankylosis
 Bekhterev disease, 341
 rheumatoid arthritis, 338–339
Ann Arbor classification, Hodgkin disease, 437, 438
anorectum
 function disorders, 832
 chronic constipation, 830
 venereal diseases of, 814
anorexia, 89, 89, 755
 causes, 37
 venous congestion, 609
 see also weight loss
anorexia nervosa, 89, 89, 755
anterior spinal artery syndrome, 302
anteroseptal myocardial infarction, ECG changes, 238
anthrax, 120, 143
anthrax pneumonia, 528
antiarrhythmic therapy, atrial flutter, 722
antibiotic-associated diarrhea, 811
antibodies against cytoplasmic elements of granulocytes (ANCA), 839
anticholinergics, coma, 1007
antidepressants, coma, 1007
anti-diuretic hormone (ADH), 40
 euvolemic hyponatremia, 903
anti-endomysial antibodies, celiac disease, 822
antiepileptic drugs, folic acid deficiency, 408
anti-GBM antibodies
 Goodpasture syndrome, 875
 renal abnormalities, 839
anti-heparin-PF4 antibodies, 469
anti-hepatitis A virus antibodies, 773
anti-HEV antibodies, 777
anti-histone antibodies, systemic lupus erythematosus, 183
antihypertensives, orthostatic hypotension, 757
antimitochondrial antibodies (AMA)
 liver disease, 770
 primary biliary cirrhosis, 792
antineutrophilic cytoplasmic autoantibodies (ANCA), 176
 Goodpasture syndrome, 875
laboratory parameters, 1025–1026
polyarteritis nodosa, 179
antinuclear antibodies (ANA)
 laboratory parameters, 1026
 liver disease, 770, 778
 systemic lupus erythematosus, 183
antinuclear factors, renal abnormalities, 839
anti-phospholipid antibodies, 327
anti-phospholipid antibody syndrome (APS), 468, 564
 systemic lupus erythematosus, 183
antiplatelet antibodies, idiopathic thrombocytopenic purpura, 459
antipyretics, coma, 1007
anti-smooth muscle antibodies (SMA), liver disease, 770
anti-thyroglobulin antibodies (Tg-Ab), 484
anti-thyroid autoantibodies, 484
 Graves disease, 485
 secondary hypothyroidism, 489
 toxic multinodular goiter, 488
anti-thyroid peroxidase antibodies (TPO-Ab), 484
anti-thyroid stimulating hormone receptor blocking antibodies (TSB-Ab), 484
anti-tumor necrosis factor therapy, 168
anuria, 842
anxiety, chest pain, 220, 222
aorta
 auscultation, peripheral artery disease, 315
 claudication, 314
 coarctation of, 745, 745
 murmur, 616
 configuration, 621
 regurgitation, hypertension, 745
 see also entries beginning aorto-/aortic
aortic aneurysm, 243, 266–267, 267
 palpation, 267
 Takayasu arteritis, 320
aortic arch
 central cyanosis, 684
 common arterial trunk, 686
 Takayasu arteritis, 320
 tetralogy of Fallot, 686
aortic arch syndrome, 980
aortic dissection, 244–245
 acute aortic endocarditis, 645
anterior spinal artery syndrome, 302
apoA-I_{MILANO}, 227
apolipoproteins
 metabolism, 230
 structure and function, 227
appendicitis, acute, 263
appetite problems, 37
 Addison disease, 752
 see also anorexia
arbovirus infections, 163
encephalitis, as cause of, 136, 136–137
fever, 163
arcus lipoides, 96
 dyslipoproteinemia, 227
 hypercholesterolemia, 228
Argyll Robertson pupils, 96, 97
arms
 arm vein thrombosis, 330–331
 Paget–Schrötter syndrome, 330
 phlebography, 330
bilateral neurogenic pain, 310–311
Lyme borreliosis, 311
neurogenic pain, 306–308
polyneuropathy, 311
radicular arm pain, 304
restless arms syndrome, 311
unilateral pain, 306
 Horner syndrome, 307
 neurogenic, 306–308
 Phalen test, 308
 plexus lesions, 306–307
 radicular syndromes, 306
 sensory neuropathies, 308
arm vein thrombosis, 330–331
arrhythmias, 45
 acute coronary syndrome with ST elevation, 236
 chest pain, 243
 differential diagnosis, 220, 714–715
 clinical examination, 714–715
 diagnosis tools, 715
 ECG, 715
 medical history, 714
 focal, carotid sinus massage, 715
 Lyme disease, 157
 origin, 714
 see also specific types
arrhythmogenic right ventricular cardiomyopathy (ARVC), 670, 671
arsenic intoxication, diarrhea, 812
arterial blood gases
 acid–base disorders, 917
 bronchial asthma, 507
arterial bruits, Takayasu arteritis, 320
arterial disorders, 314–326
 aneurysms of peripheral arteries, 322–324
 arterial occlusive disease, 314–322
 claudication, elderly patients, 315
 emboli, 322, 322, 980
 functional vascular disease, 324–326
 hypertension see hypertension
 hypertonia, 213
 hypotension, Raynaud phenomenon, 325
lymphatic vessel disorders, 333
microthrombosis,
 myeloproliferative diseases, 468
microvascular disease, 326–328
 narrowing, iatrogenic arterial disease, 320

- occlusive, 314–322
definition and classification, 314
diagnosis, 315–318
epidemiology, 314
functional tests, 316–317
iatrogenic arterial disease, 320
physical examination, 315–316
popliteal entrapment syndrome, 321
symptoms, 314–315
see also emboli/embolism; thrombosis
punctures, iatrogenic arterial disease, 320
restless legs, 334
stenosis
arterial occlusive disease, 315
phonoangiogram, 316
thoracic outlet syndrome, 333
Sudeck disease, 334
thoracic outlet syndrome, 333–334
see also specific diseases/disorders
arterial stimulation and venous sampling (ASVS), fasting hypoglycemia, 1001
arteries
angiography, 317–318
baroreceptors, 896
see also entries beginning arterio-/arterial; specific arteries
arterio-arterial embolism, 322
arterio-arterial microemboli, 980
arteriosclerosis, 16
obliterating, 319
arteriosclerotic plaque rupture angina pectoris, 225
obliterating arteriosclerosis, 319
arteriovenous aneurysms, 572, 572
arteriovenous fistula, 323
arteriovenous shunts
Osler-Weber-Rendu disease, 464
pulmonary cyanosis, 707
arteritis temporalis Horton, 178, 178, 211
arthralgia, 126
inflammatory disorders and, 465
arthritis, 125–126
bacterial, 125–126
pathogens, age-related spectrum, 126
juvenile, 340
neoplasm associated, 348
osteoarthritis *see osteoarthritis*
rheumatoid *see rheumatoid arthritis*
arthritis-dermatitis syndrome, 120
pustules, 118, 119
arthritis urica, 345
arthropathies
cartilage disorders, 348
endocrine disorders, 348
enterocolitis associated, 343–344
metabolic disease associated, 345–346
neurologic disorders, 348
see also specific disorders
arthrosis, 16
artifacts, urinary crystals, 850
asbestosis, 560
Ascaris lumbricoides, 794
- ascending aorta dissection, 244, 244
ascending reticular activating system (ARAS), 988
consciousness, disturbances of, 951
dysfunction, 989
transient dysfunction, 998
vigilance, 988
ascites, 783–784
analysis, 784
Budd-Chiari syndrome, 784, 790
cardiac dyspnea, 611
causes, 783
differential diagnosis, 784
jaundice, 766
malignant, 784
pancreatic cysts, 295
portal hypertension, 787
aseptic meningitis, encephalitis, 136
aspartate aminotransferase (AST)
acute coronary syndrome, 239
hepatocellular damage, 768
laboratory parameters, 1022–1023
aspergilloma, 574
aspergillosis, 169, 537, 538, 539, 540, 546–547
aspergilloma, 574
disseminated, 169
Aspergillus flavus, 169
Aspergillus fumigatus, 169
asphyxia, hemoptysis, 495
aspiration
pericardial effusion, 242
pulmonary abscess, 573–574
aspiration pneumonia, 141, 528–529, 573
aspirin, acquired thrombocytopathies, 457
asthma
bronchial, 506–509
allergic forms, 506
allergy tests, 508
chest radiograph, 508
definition, 506
diagnosis and clinical findings, 507–508
differential diagnosis, 507
dyspnea, 506–509
epidemiology, 507
forms, 506
obstructive ventilatory defects, 498
pathogenesis, 506
special forms, 508–509
spirometry, 507
sputum, 508
cardiac, 501, 605, 609
paroxysmal nocturnal dyspnea, 609
rales, expiratory wheeze, 611
eosinophilic infiltrates, 547
occupational, 509
psychological aspects, 509
severe, Churg-Strauss syndrome, 180
asymmetrical abdomen, mechanical ileus, 260
asymmetrical septal hypertrophy, 634
asymmetric diabetic proximal neuropathy, 273
asymptomatic bacteruria, 151
asymptomatic peritonitis, 264
ataxia telangiectasia, 190
atelectasis, 574–575, 575, 576, 577
atherogenic hyperlipidemia, screening, 34
atherosclerosis
aortic aneurysm, 243
- aortic dissection, 245
cardiac dyspnea, 610
chronic process, 225
renal artery stenosis, 736, 736
risk factors, 225, 225
see also myocardial infarction (MI); myocardial ischemia
atopic dermatitis, eczema
herpeticum, 58
atrioventricular nodal reentrant tachycardia, 724–725
ECG presentation, 724
medical history, 714
syncope, 978
atrioventricular nodal reentrant tachycardia with antegrade conduction
accessory pathway, 726
atrioventricular nodal, 725, 725
differential diagnosis, 726
atrioventricular septal defect (AVSD), 694–695, 695
Down syndrome, 696
Atropa belladonna, coma, 1007
atrophic gastritis, chronic, 403
atrophic papulosis, malignant, 272
atrophie blanche, 333
atrophy of the tongue, 78
attention, examination of, 992
atypical angina, definition, 221
atypical aortic dissection, 244
atypical pneumonia, 141–142
aura, focal seizures, 983
auriculotemporal neuralgia, 217
auricular tophus, 345, 346
auscultation, 27, 29–30, 30
acute abdomen, 257
acute aortic insufficiency, 645
acute coronary syndrome with ST elevation, 236
arterial hypertension, 635
arterial occlusive disease, 315
atrial septal defect, 704
bronchiectasis, 514
Ebstein anomaly, 706
Eisenmenger syndrome, 702
hypertrophic cardiomyopathy, 664
idiopathic pulmonary fibrosis, 551
mechanical ileus, 260
pneumococcal pneumonia, 525
pulmonary congestion, 583
pulmonary edema, 630–631
pulmonary hypertension, 636
pulmonary interstitial edema, 543
tetralogy of Fallot, 685
transposition of great arteries, 692, 694
ventricular septal defect, 701
Austin-Flint murmur, chronic aortic insufficiency, 646
autoantibodies
chronic gastritis, 276
giant cell arteritis, 320
heparin-induced thrombocytopathy, 469
liver disease, 770
spondylarthropathies, 341
Takayasu arteritis, 320
vasculitis and connective tissue disease, 177
see also autoimmune diseases; specific antibodies
autoantigens, 175–176
autoimmune diseases, 17, 17
classification, 176
fever, 175–187
generalized, 176
localized or organ specific, 176

- hemolytic anemia, 417
 idiopathic thrombocytopenic purpura, 459
 lymphoid interstitial pneumonia association, 554
MALT lymphoma, 440
 pure red-cell aplasia, 411
see also autoantibodies; specific diseases/disorders
- autoimmune polyendocrinopathy syndrome, 176
 hypotension, 751
 automatisms, 999
 autonomous disturbances, limb pain, 300
 autonomous neuropathy, renal insufficiency, 860
 autosomal dominant inheritance, 21–22
 autosomal dominant polycystic kidney disease (ADPKD), 888, 888
 CT scan, 889
 autosomal recessive inheritance, 22
 autosomal recessive polycystic kidney disease (ARPKD), 888
 avascular necrosis, childhood, 365
 avian influenza, 140
 axial hyperostosis
 diffuse idiopathic skeletal hyperostosis, 346
 osteoarthritis, 351
 axillary artery auscultation, peripheral artery disease, 315
 axillary vein occlusion, 330
 azoospermia, 43
 azotemia, 901
- B**
- Babesia divergens*, 158
Babesia microti, 158
 babesiosis, 158–159
 Babinski reflex, 994
 bacillary angiomatosis, 71, 129
 skin lesions, 119
 bacillary dysentery, 148
Bacillus anthracis, 120, 528
Bacillus cereus, 149
 bacteremia, 153
 causative pathogens, 153
 bacterial infections
 arthritis, 125–126, **126**
 cellular immune deficiencies, 190
 endocarditis, 322
 erythrocyte sedimentation rate, 196
 hepatic abscesses, 151
 meningitis *see* meningitis
 multiple myeloma, 442
 myocarditis, **672**
 opportunistic, 168
 pericarditis, 243
 pneumonia *see* pneumonia
 skin changes due to, 71–72, 119–120
 tonsillitis, 138
see also specific infections/organisms
- bacterioides*, sepsis, 154
 bad breath, 99, **99–100**
Balamuthia mandrillaris, 135
 balanitis erosiva circinata, 68
 Balkan nephritis, 882
 balloon dilation, stent implantation, 232
 balloon enteroscopy, melena, 282
Bamberger–Marie syndrome, 75
Bannwarth syndrome, 311
- barbiturates
 acute intermittent porphyria, 270
 coma, 1006
 respiratory depression, 1007
 baritosis, 559
 barosinusitis, head/facial pain, 207, 212
Barraquer–Simons syndrome, 87
 barrel chest, 27
Barrett esophagus, 803, 804
Bartonella henselae, 128
 bartonellosis
 exogenous hemolytic anemia, 413
 skin infection, 71
Bartter syndrome, 755
 hypokalemia, 911
 metabolic alkalosis, 924
 basal ganglionic dysarthria, Parkinson disease, 102
 basilar migraine *see* migraine
Bazin disease, 61
B cells *see* B lymphocytes
BCR–ABL gene, 430
Beau–Reil lines, 74
Beckwith–Wiedemann syndrome, 79–80
Behcet disease, 210, 344
Bekhterev disease, 85, 341, 342
 spinal deformities, 341
Bell palsy, 217
Bence Jones protein, 845
 multiple myeloma, 441
 benign paroxysmal positional vertigo (BPPV), 969
 benign proteinuria, 844
 benign tumors *see* tumor(s)
 benzodiazepines, 1007
Berardinelli–Seip syndrome, 87
Berger disease, 876
Bernard–Soulier syndrome (BSS), 457, **458**
 berylliosis, 560
 beta-adrenergic drugs, bronchial asthma, 506
b-cells *see* pancreas
b-hemolytic streptococci, erythema nodosum, 61
 bicarbonate as buffer system, 916
 chronic renal failure, 862
 infusion, metabolic alkalosis, 924
 bicycle ergometry, cardiac dyspnea, 627
Biedl–Bardet syndrome, 83
Bielschowsky sign, 960
 bifid pulse, 610
 bigeminus, 719
 bilateral diaphragmatic paralysis, 502
 bilateral exophthalmos, 93
 bilateral hydronephrosis, 884
 bilateral neurogenic arm pain, 310–311
 bilateral neurogenic leg pain, 310–311
 bilateral ptosis, 993
 bilateral pulse palpation, 745
 bilateral radicular lesions, 311
 bilateral radicular syndromes, 311
 bilateral renal disease, 735
 bilateral strokes, 997
 bilateral vestibulopathy, 971
 bile acid malabsorption, 825
 steatorrhea, 824–825
 bile acid reflux gastropathy, 284
 bile duct, 146
 carcinoma, skin discoloration, 53
 cholangitis, 146
- choledocholithiasis, 146
 obstruction, 765, 795, 823
 pancreatic carcinoma, 296
 strictures, 794
see also specific diseases/disorders
- bilharzia* *see* schistosomiasis
- biliary cirrhosis
 secondary, 794
 skin discoloration, 53
- biliary colic, abdominal ulcers, 277
- biliary malaria, 172
- bilirubin
 albumin binding, displacement from, 763
 extrahepatic cholestasis, 793
 impaired glucuronidation, 765
 impaired secretion, 765
 laboratory parameters, 1027–1028
- metabolism, 763, 764
 production, elevated, 763
 reduced hepatic storage, 765
 reduced hepatic uptake, 763
 unconjugated, 763
 urine, identification in, 845–846
- Bing–Horton* headache, 215
- biopsy
 fine-needle aspiration, 482
- kidney
 acute renal failure, 857
 poststreptococcal glomerulonephritis, 868
- liver, 771
 pleura, 247
 temporal artery, 178
 thyroid, 482
- Biot* respiration, 28
- biventricular heart failure
 dilated cardiomyopathy, 669
 edema, 382
- Björk–Shiley* valves, heart sounds, 615
- black urine, 842
- bladder, palpation, 31
- Blalock–Taussig* shunts, tetralogy of Fallot, 685
- blast cells, acute leukemia, 422
- bleeding
 chronic, anemia, 402
 colonic carcinoma, 818
 differential diagnosis, nonglomerular, 876
 hypovolemic hypotension, 757
 nonhypertensive, 998
 renal insufficiency, 859
 subarachnoid *see* subarachnoid hemorrhage
see also entries beginning hemorrhage/hemorrhagic
- bleeding diathesis
 clinical approach, 453–456
 clinical examination, 456
 family history, 453
 personal history, 454
 clinical examination, 456
 types, **454**
- vascular, 463–465
see also coagulation disorders
- bleeding heart, 240
- blind loop syndrome, 284
- blood analysis
 characteristic findings, 397–399
 renal function, 839
- blood count
 fever, 198–200
 normal values, **396**
- blood cultures, bacteremia, 153
- blood disease *see* hematologic disease
- blood gases
 cardiac dyspnea, 607
 pulmonary edema, 631
- blood glucose
 acute pancreatitis, 292
 hypoglycemic coma, 999
 laboratory parameters, 1041
 meningitis, 131
 screening, 38–39
- blood pressure
 measurement, 34
 pituitary insufficiency, 753
see also hypertension; hypotension
- blood sedimentation rate, eosinophilic fasciitis, 186
- blood vessel permeability, 452
- blood volume, body composition, 895
- 'blue bloater's' 512
- blue sclerae, 94
- B* lymphocytes, 189
 chronic lymphocytic leukemia, 430
 deficiencies, **187**, 189
- B-mode ultrasound, deep vein thrombosis, 329
- Bochdalek hernia, 578
- body fat distribution, 88
- body mass index (BMI), 34, 88
 pituitary insufficiency, 753
- body temperature, 17
- body weight classification, **86**
- Boeck disease *see* sarcoidosis
- bone(s)
 cysts, juvenile, 362
 demineralization, rheumatoid arthritis, 338
 generalized changes, 368–376
 hyperparathyroidism, 375–376
 osteomalacia, 371–374
 osteoporosis, 368–371
- Graves disease, 486
- infarction, 362
- lesions, tumors vs., 361–363
- localized changes, 356–367
 bone tumors, 356–363
 Gaucher disease, 363
 hyperostosis, 363–364
 mastocytosis, 363
 osteonecrosis, 364–366
 Paget disease, 367
- mass
 maximal, 368
 osteoporosis, 368
- pain *see* bone pain
- remodeling, 367
 hyperparathyroidism, 376
 increased, 935
- tumors *see* bone tumors
see also entries beginning oste-
- bone marrow
 acute leukemia, 422
 aplastic anemia, 411
 hairy cell leukemia, 431
 idiopathic thrombocytopenic purpura, 459
 infiltration, anemia, 411
 myelodysplastic syndrome, 432
 polycythemia rubra vera, 434
 thrombocytopenia, 460
- bone metastases, 356
- osteolytic, 357
- radiculopathy, 304
- bone pain
 characteristics, 356
 diagnostic assessment, 356
- imaging studies, 356
- laboratory tests, 356
- renal insufficiency, 859

- bone tumors, 356–363
cartilage derived, 356–358
lesions vs., 361–363
malignant, 356
metastases, 356
osteolytic, 357
radiculopathy, 304
nomenclature, **358**
unknown etiology, 360–361
see also specific types
- Bordetella parapertussis*, 141
Bordetella pertussis, 141
Bornholm disease, 139–140
Borrelia burgdorferi infection *see* Lyme disease
Borrelia radiculitis, 304
Bouchard nodes, osteoarthritis, 349
Bourneville–Pringle disease, 69
nose, appearance of, 99
brachialgia paresthetica nocturna, 308
brachialgias, cyanosis, 708
bradyarrhythmias, 716–719
acute myocardial infarction, with, 719
cardiomyopathy induction, 674
causes, **716**
origin, 714
syncope, 976
see also specific types
- bradycardias *see* bradyarrhythmias
brady-tachycardia syndrome, 716
brain
abscesses, 208, 999
cerebellum, 137, 999
embolism, coma, 995
injury, 998
see also entries beginning cerbro-/cerebral; specific regions
- brain natriuretic peptide (BNP)
cardiac dyspnea, 607
laboratory parameters, 1028
brainstem, arterial blood supply, 957
- branchial cysts, 476
Branhamella catarrhalis pneumonia, 527
- Braunwald classification, unstable angina pectoris, **225**
- breast cancer
radiation therapy, 541
screening, 35
thoracic pain, 252
- breathing
difficulty *see* dyspnea
disorder assessment, 505
see also respiration; specific disorders
- breath sounds, 29, **30**
- brittle bone disease, 371
- Broca aphasia, 101
clinical features, **101**
- bronchial asthma *see* asthma
- bronchial carcinoma, 567
atelectasis, 575, 575, 576, 577
etiology, lifestyle factors, 13
fever, 194
- bronchiectasis, 513–516, 515, 578
definition, 513
diagnosis, 514
etiology and pathogenesis, 514
hemoptysis, 495
pneumonia associated, 545
- bronchiogenic cysts, 573
- bronchiole diseases, 510–511
- bronchiolitis
acute, 510
influenza, 140
pneumonia, 511, 541, 551–553
- bronchiolitis obliterans organizing pneumonia (BOOP), 511, 541, 551–553
- bronchitis, 141, 509–510
acute, 509
chronic, 509–510
Wegener disease, 873
- clinical findings, 510
- etiology, 510
- pathogenesis, 510
- bronchoalveolar cell carcinoma, 561
- bronchoalveolar lavage (BAL)
Pneumocystis carinii infection, 169
- sarcoidosis, 589
- bronchocentric granulomatosis, 571
- bronchophony, 29
- bronchopneumonia, 544
histoplasmosis, 170
influenza, 140
- bronchoscopy, 591
hemoptysis, 495
- brown urine, 841
- Brucella abortus*, 161
- Brucella melitensis*, 161
- Brucella suis*, 161
- brucellosis, 161, 162
lymphocytes, 200
pneumonia, 527
- Brugada syndrome, 977
ECG presentation, 977
- Brugia malayi*, 174
- Brugia timori*, 174
- bubonic plague, 128
- Budd–Chiari syndrome, 785, 790
ascites, 784
liver swelling, 288
- Buerger disease, 13, 319–320
- bulbar speech, 102
- bullous diabetorum, 60
- bullous emphysema, localized, 513
- bullous pemphigoid, 59, 59
- bullous skin disease, 59–60
- Burkholderia pseudomallei*, 175
- Burkitt lymphoma, 440
- burning feet syndrome, 860
- burning mouth syndrome, **78**
- Buruli ulcers, 120
- Buschke syndrome, 184
- busulfan, pulmonary fibrosis, 550
- C**
- C₁-esterase inhibitor deficiency, 390
- C₁ inhibitor deficiency, 191
- C3 complement protein
laboratory parameters, 1033–1034
- poststreptococcal glomerulonephritis, 867
- Wegener disease, 873
- C3 nephritic factor, 191
- C4 complement protein
laboratory parameters, 1033–1034
- Wegener disease, 873
- C5 radicular syndrome, 306
- C6 radicular syndrome, 308
- C6 syndrome, 306
- C7 syndrome, 306
- C7 transverse process, 307, 307
- C8 syndrome, 306
- CA 15–3 (carbohydrate antigen 15–3), 1028–1029
- CA 19–9 (carbohydrate antigen 19–9), 35–36
- laboratory parameters, 1029
- liver tumors, 770
- CA 125 (carbohydrate antigen 125), 35
- laboratory parameters, 1029–1030
- cachexia, pituitary insufficiency, 753
- café-au-lait spots, 54, 69
fibrous dysplasia, 363
- calcitonin, thyroid carcinoma, 484
- calcium
excretion, osteomalacia, 373
- homeostasis
disorders *see* calcium homeostasis disorders regulation, 929–930
- laboratory parameters, 1030–1031
- properties, 928
- sequestration in bone and tissue, 933–934
- calcium-containing stones, 287
- nephrolithiasis, 849, 886
- calcium homeostasis disorders, 928–937
causes, 930
- clinical features, 930
- definition, 930
- diagnosis, 930
- fundamental pathogenesis, 931
- physiologic principles, 928–930
- signs and symptoms, **931**
- see also* hypercalcemia;
hypocalcemia
- calcium nephrolithiasis, 849, 886
- calcium oxalate stones, 849, 886
- calcium phosphate
chronic renal failure, 862
- homeostasis, **929**
- calcium phosphate stones, 886
- calcium pyrophosphate, joint inflammation, 345
- calcium-sensing receptor (CSR), 932
- hypocalcemia, 932
- calciumuria, 24-hour urine, 841
- calf vein thrombosis, 330
- callus formation, osteomalacia, 374
- caloric testing, 965
- Campylobacter* infections
diarrhea, 148
food poisoning, 811
- Canadian Cardiovascular Society, angina classification, 224–225, **225**
- canalolithiasis, 969
- cancer
bilateral hilar enlargement, 589–590
- fever, 115
- mortality rates, 18
- pulmonary embolism, 469
- thrombophilia, 469
- venous thromboembolism, 469
- see also* neoplasms; tumor(s); specific cancers
- candidiasis, 168–169, 537
- chronic mucocutaneous, 190
- endophthalmitis, 97
- sepsis, 154–155
- stomatitis, HIV infection, 164, 164, 168
- urinary tract infections, 846
- cannabinoids, coma, 1006
- cannon waves, 611
- capillary rarefaction, chronic venous insufficiency, 333
- Caplan syndrome, 558
- Capnocytophaga canimorsus* infection, 163
- petechiae and purpura, 116
- capsule endoscopy, melena, 282
- Captopril test, 737
- carbohydrate metabolism, skin changes, 65
- carbonic acid, acid-base metabolism, 915
- carbon monoxide, coma, 1008
- g-carboxylase, oral anticoagulation, 462
- carcinoembryonic antigen (CEA)
laboratory parameters, 1031
- liver tumors, 769–770
- thyroid carcinoma, 484
- carcinoïd, 592
- carcinoïd restrictive cardiomyopathy, 667
- carcinoïd syndrome, 826
flushes, 55, 67
- scleroderma, 183
- tricuspid stenosis, 659
- carcinoma
gastric stump, 284
- leukocytes, 198
- nonpapillary, pain, 296
- ulcerated, 280
- of unknown primary (CUP syndrome), 480
- see also specific types/locations*
- cardiac asthma *see* asthma
- cardiac catheterization, 627
aortic stenosis, 642
- chronic aortic insufficiency, 649
- chronic mitral insufficiency, 652
- dilated cardiomyopathy, 669
- mitral stenosis, 658
- pulmonary edema, 631
- pulmonic stenosis, 644
- cardiac chest pain, 221–243
- cardiac cirrhosis, venous congestion, 609, 611
- cardiac cyanosis, 684–706
aortopulmonary connections, 698–699
- atrial septal defect, 702–704
- atrioventricular septal defect, 694–695
- common arterial trunk, 686
- congenital heart defect: Ebstein anomaly, 704–706
- conotruncal anomalies, 684
- double inlet ventricle, 695–698
- peripheral, 708
- pulmonary atresia, 686–687
- tetralogy of Fallot, 684–686
- transposition of great arteries, 690–694
- tricuspid atresia, 687–690
- ventricular septal defect, 699–702
- cardiac death, sudden, 728
- arrhythmias responsible, **728**
- hypertrophic cardiomyopathy, 664
- cardiac decompensation, causes, 629
- cardiac dyspnea, 500–501
acute, 605
- auscultation, 501
- chronic, 605
- clinical examination, 605, 610–618
ascites, 611
- heart murmurs, 618
- hepatojugular reflux, 611
- hepatomegaly, 611
- inspection and palpation, 612
- perfusion states, 611
- pitting edema, 611
- pleural effusion, 611
- pulse, 610
- rales, expiratory wheeze, 611–612
- systematic auscultation, 612–613
- volume status, 610–611

- diagnosis, 501
 differential diagnosis, 501, 605–608
 chest radiograph, 605–607
 ECG, 605
 history and symptoms, 605
 heart failure as cause, 607
 laboratory tests, 607, 618
 pathophysiology, 605
 special studies, 618–627
 cardiac catheterization, 627
 chest radiograph, 619–622
 computed tomography, 626
 ECG, 618–619
 echocardiography, 622–626
 magnetic resonance imaging, 626
 stress testing, 627
 cardiac hypotension, **750**
 cardiac malaria, 172
 cardiac output, hypertension, 745
 cardiac scope, **975**, 976–977
 cardiac X syndrome, 224
 cardinal symptoms, 6
 cardiogenic shock, 632–633
 acute heart failure, 628
 ischemic colitis, 815
 cardiomyopathy
 definition and classification, 661–662, 662
 hereditary hemochromatosis, 788
 schematic representation, 662
 cardiopericardial silhouette, 242
 cardiopneumonic angle opacities, 578
 cardiothoracic ratio, 619, **619**
 cardiovascular disease
 dyspnea, 496
 lipid profile, 1048–1050
 risk assessment, **734**
 cardiovascular failure, acute abdomen, 258
 cardiovascular hypertension, 745
 cardiovascular system, physical examination, 27
 Carney complex syndrome, 743
 carotenemia, skin discoloration, 53
 carotid artery
 auscultation, 315
 dissection, 208, 244
 pulse, Takayasu arteritis, 320
 carotid body tumor, 479
 carotid glomus tumors, 980
 carotid sinus massage, 715
 junctional rhythms, 719
 procedure, **715**
 wide-complex tachycardias, 725
 carotid sinus syndrome, 979
 carotidynia, 214, 217
 carotis artery bifurcation, neck masses, 479
 carpal tunnel syndrome, 91, 307–308
 cartilage disorders, arthropathies, 348
 case finding, 36
 case report, 6
 Castleman disease, 129–130, 590
 chronic lymphadenitis, 479
 casts, urinary sediment, 849
 cataplexy, narcolepsy, 984, 1009
 cataracts, 96
 catatonic stupor, 990, 999
 catecholamines
 deficiency, hypotension, 755
 pheochromocytoma, 739
 potassium shifts, 907
 sinus tachycardia, 721
 cation distribution, adult body, 895
 cat-scratch disease, 127, 128
 specific lymphadenitis, 478
 cauda equina
 intermittent claudication, 314
 radiculitis, 311
 cauliflower nose, 99
 cavernous hemangioma, 796
 cavernous lung diseases, 573–574
 see also specific diseases
 cavernous sinus fistula, 212
 cavernous sinus thrombosis, 212
 cavernous transformation, portal hypertension, 785
 CD3, 190
 CD4 lymphocyte count, HIV infection, 166
 celiac disease, 821–823
 clinical features, 822
 diagnosis, 822–823
 differential diagnosis, 822
 folic acid deficiency, 409
 histology, 823
 pathogenesis, 821–822
 vitamin B₁₂ deficiency, 407
 cellular immunodeficiency, 168, **187**, 190
 cellulitis, 388
 central cyanosis, 680, 682–707
 causes, 682
 clinical examination, 682–683
 definition, 678
 diagnostic studies, 683–684
 Eisenmenger syndrome, 702
 etiologies, **682**
 palpation and auscultation, 683
 tetralogy of Fallot, 685
 central facial pain, 217
 central limb pain, characteristics, 300
 central nervous system (CNS)
 diffuse coma, 995–996
 diffuse lesions, 995–996
 focal lesions, 997–999
 multifocal lesions, 995–996
 sarcoidosis, 587
 systemic lupus erythematosus, 182
 see also brain; specific components
 central pain syndromes, 301–302
 central postural vertigo, peripheral positioning vertigo vs., **970**
 central pulse, arrhythmias, 714–715
 central sleep apnea syndrome, 503
 central vestibular vertigo, 972–973
 cerebellar disorder, vertigo, 954
 cerebellar dysarthria, 102
 cerebellum
 abscess, 137, 999
 arterial blood supply, 957
 concussion, 998
 gigantism, 79
 cerebral ischemia, myeloproliferative disease, 468
 cerebral malaria, 172
 cerebral seizures, 980–984
 pathogenesis, 980–981
 syncope, 952
 see also epilepsy; specific types
 cerebral syncope, 980–985
 differential diagnosis, 983–984
 cerebral toxoplasmosis, 137
 cerebral venous thrombosis, 210
 cerebrospinal fluid (CSF)
 fever, headache and neck stiffness, 131–133
 leak, head pain, 211
 cerebrovascular system
 hypertension, 734
 infarction, 970
 cervical carcinoma
 etiology, lifestyle factors, 13
 screening, 35
 cervical lymphadenitis, 477
 cervical lymphadenopathy, 138
 cervical lymph nodes
 enlargement, 127
 tuberculosis, 127, 129
 cervical mass, differential diagnosis, **476**
 cervical spine
 osteoarthritis, 350, 350
 radiculopathy, 303, 304
 see also neck
 cervical tuberculosis, 478, 478
 cervicocephalic syndrome, 212
 cervicogenic headache, 212
 Chagas disease, 175
 achalasia, 804
 dilated cardiomyopathy, 669
 Charcot-Leyden crystals, bronchial asthma, 508
 Charcot triad, cholangitis, 794
 Chatterjee phenomenon, 243
 checkup, asymptomatic patients, 33, 33–37
 Chediak-Higashi syndrome, 457, **458**
 cheilosis, iron deficiency, 404
 cheiralgia paresthetica, 308
 chemical irritants, asthma, 509
 chemical pneumonitis, 540–541
 chemical urine analysis, **843**, 843–847
 chemotaxis dysfunction, 191
 chemotherapy, hemolytic anemia, 416
 chest diseases, abdominal pain, 272
 chest pain
 arrhythmias, 243
 cardiac causes, 221–243
 differential diagnosis, 220, **220–221**
 ECG, importance, 220
 functional
 angina pectoris vs., 222–223
 differential diagnosis, **221**
 heart, originating from, 221–243
 large vessels, originating from, 243–245
 medical history, importance of, 220
 noncardiac, diffuse esophageal dysmotility, 806
 non-STEMI, 235
 pleura, originating from, 245–250
 positive predictive value, 11
 post-myocardial infarction, 239–240
 pulmonary, **220**
 chest, physical examination, 27–30
 chest radiographs
 acute mitral insufficiency, 649
 aortic insufficiency, 648
 aortic stenosis, 642
 aortopulmonary connections, 699
 arterial hypertension, 635
 atrial septal defect, 704
 atrioventricular septal defect, 695
 bronchial asthma, 508
 bronchiectasis, 514
 bronchitis, 510
 cardiac chamber enlargement, specific, 619–621
 cardiac dyspnea, 501, 619–622
 cardiac size, 619
 central cyanosis, 684
 chronic aortic insufficiency, 647
 chronic mitral insufficiency, 651
 common arterial trunk, 686
 constrictive pericarditis, 661
 diagnostic features, 620
 dilated cardiomyopathy, 621, 622, 669
 double inlet ventricle, 698
 Ebstein anomaly, 706
 Eisenmenger syndrome, 702
 hypersensitivity pneumonitis, 556
 idiopathic pulmonary fibrosis, 551, 552
 mitral stenosis, 657
 nonspecific interstitial pneumonia, 551, 553
 pulmonary hypertension, 637, 637
 pulmonic stenosis, 644
 restrictive cardiomyopathy, 666
 tetralogy of Fallot, 686
 transposition of great arteries, 694
 tricuspid insufficiency, 653
 ventricular septal defect, 701–702
 volume homeostasis disorders, 899
 chest wall pain, angina pectoris, 223
 Cheyne-Stokes respiration, 28, 503, 992, 993
 cardiac dyspnea, 501, 609
 polysomnography, 504
 chickenpox, 58, 122
 Chilaiditi syndrome, 289, 289
 childhood cough, 494
 Child-Pugh classification, liver cirrhosis, **783**
 chills, 196
Chlamydia infection
 anorectum, 814
 oral, 77
 peritonitis, 264
 pneumonia, 141–142, 526, 527
 reactive arthritis, 343
 urinary tract infections, 882
Chlamydia psittaci, 142, 527, 528
Chlamydia trachomatis, 161, 527
 chloride
 laboratory parameters, 1031–1032
 metabolic alkalosis, 923
 chloride-resistant metabolic alkaloses, 924
 chloride-sensitive metabolic alkaloses, 923–924
 cholangiocarcinoma (CC), 796
 cholangitis, 794
 bile duct diseases, 146
 cholecystectomy, complaints following, 288
 cholecystitis, 288
 pancreatitis vs., 146
 cholecystolithiasis, 287
 choledocholithiasis, 793
 bile duct diseases, 146
 endoscopic papillotomy, 288
 choledochus stones, 287
 post cholecystectomy, 288
 cholelithiasis, 286–287
 acute abdominal pain, 766
 associated liver diseases, 288
 chronic pancreatitis, 293
 cholera, 149
 cholestasis, 768–769
 differential diagnosis, **791**
 laboratory findings, **768**
 nonobstructive
 conjugated hyperbilirubinemia, 766
 differential diagnosis, **791**

- obstructive
conjugated
 hyperbilirubinemia, 766
 differential diagnosis, **791**
- cholestatic jaundice, 790–797
- cholesterol
 dyslipoproteinemia, 226
 embolism, 322
 rapidly progressive
 glomerulonephritis, 875
 nephrotic syndrome, 869
 serum levels
 cholestasis, 769
 screening, 34
 stone formation, 286
- cholesterol stones, 286
- cholinesterase (ChE), laboratory parameters, 1032–1033
- chondocalcinosis, hypotension, 755
- chondroblastoma, 357
- chondrocalcinosis, 345–346, 346
 axial involvement, 346
 bacterial arthritis, 125
- chondrodystrophy, 84
- chondromas, 356–357, 569, 595
- chondromyxoid fibroma, 357
- chondrosarcoma, 358
- chordoma, 360
- choriorretinitis, 97
- chromonychia, 75
- chromosome anomalies, 21
- chronic ambulant peritoneal dialysis (CAPD), 150
- chronic fatigue syndrome, 21, 44, 193–194, 755, 1010
 criteria, **21**
- chronic lymphocytic leukemia (CLL), 430–431
 incidence, **423**
 staging, **431, 431**
- chronic myeloid leukemia (CML), 428–430, 429
 accelerated and blastic phase findings, **430**
 clinical symptoms, 428–429
 diagnosis, 429
 differential diagnosis, 430
 incidence, **423**
 Philadelphia chromosome, 429–430
 prognosis, 429
- chronic obstructive pulmonary disease (COPD), 509–510
- bronchitis, 141
- flow-volume curve, 512
- obstructive ventilatory defects, 497
- severity degree, **509**
- chronic renal failure (CRF), 857–865
 anemia, 404
 causes, 857
 identification of, **858**
 consequences, 857
 definition, 857
 differentiation, acute, 864
 endocrine kidney functions, 857
- glomerular filtration rate, 857
 potentially reversible causes, **865**
- metabolic acidosis, 921
- organ involvement, 859
- staging, **857, 857**
- tubular function, 857
- Churg–Strauss syndrome, 180, 547, 873
 differential diagnosis, **181**
- chylomicrons, lipoprotein metabolism, 230
- chylothorax, 247, 248–249
- chyloous ascites, 784
- chyloous lymphedema, 387
- cigarette smoking see tobacco smoking
- ciliary dyskinesia, primary, 515–516
- circadian rhythms, 14
- circulatory shock see shock
- circulus vitiosus, 935
- circumscribed scleroderma, 184
- cirrhosis see liver cirrhosis
- Claviceps purpurea*, 325
- clavicular-costosternal swelling, SAPHO syndrome, 344, 344
- clinical examination, insufficient, 10
- clinical interview see medical history
- clinical judgment, 6
- Clonorchis sinensis*, 794
- clopidogrel, acquired
 thrombocytopathies, 457
- Clostridium difficile* infection
 antibiotic-associated diarrhea, 811
 diarrhea, 149
 food poisoning, 811
- Clostridium perfringens* infection, 149
- exogenous hemolytic anemia, 413
- clubbing, 28, 592
 cyanosis, 680, 681, 682
 desquamative interstitial pneumonia, 554
 nails, 74
- cluster headache, 207, 215
- coagulase-negative staphylococci, 154
 urinary tract infections, 847
- coagulation, 453
 activation markers, 451
 anti-phospholipid antibody syndrome, 468
 in disease processes, 450–452
- coagulation disorders
 acquired, 450
 bleeding types, **454**
 Budd–Chiari syndrome, 790
 laboratory diagnosis principles, 450–451
 laboratory methods, **451**
 see also specific conditions
- coagulation time,
 anti-phospholipid antibody syndrome, 468
- coarctation of aorta, 745, 745
 murmur, 616
- cobalamin, laboratory parameters, 1066
- cocaine
 coma, 1007
 dilated cardiomyopathy, 670
 hypertension, 746
- Coccidioides immitis*, 170
- coccidioidomycosis, 170
- coccygodynia, 273
- cochlea, anatomy, 957, 957
- codfish vertebrae, osteomalacia, 374
- cognitive functions, examination of, 992
- cold acting IgM antibodies,
 hemolytic anemia, 414
- cold agglutination disease
 ears, 98
 necrotic spots, 414
- cold agglutinins
 hemolytic anemia, 414
 peripheral cyanosis, 708
- cold nodules
 nontoxic goiter, 483
 toxic multinodular goiter, 488
- colic
- acute intermittent porphyria, 270
- biliary, abdominal ulcers, 277
- gastrointestinal diseases/disorders, 260
 mechanical ileus, 260
- porphyria, 268
- posture, 85
- renal, 885, 885
- collagen IV
 Alport syndrome, 876
 Goodpasture syndrome, 874
- collagenesis, 17, 67
- collagenous sprue, T-cell lymphoma, 822
- collagen vascular diseases, 320, 464
 constrictive bronchiolitis, 510
- interstitial pneumonia
 associated with, 554–555, 555
- pleural effusion, 248
- colon
 angiodyplasia, aortic stenosis, 640
 carcinoma see colorectal carcinoma
 polyps, 818–819, 819
 juvenile, 283, 818
 stenosis, 260
 transit time assessment, 830, 831
- colonoscopy, 35
- color-coded Doppler sonography
 Duplex ultrasound, 329
- echocardiography, 624
- colorectal carcinoma, 13, 817–818, 818
 acute constipation, 830
- hereditary, 819, 819
 mechanical ileus, 261
- screening, 35
- Streptococcus bovis* sepsis, 155
- thrombosis, 469
- ulcerative colitis, 814
- colorectal polyps, 818–819, 819
 familial adenomatous polyposis (FAP), 819
 juvenile, 283, 818
- coma, 990, **994, 996**
 cerebral causes, 995–999
 negative neuroimaging, 995–996
 positive neuroimaging, 995
- conditions misinterpreted as, 990–991
- differential diagnosis, **994**
- drug-induced, 1007
- infections, 995
- intoxication-induced, 1005–1008, **1006**
- ischemic stroke, 997
- metabolic disorders, 999–1005
 see also specific causes
- combined humoral and cellular immune deficiencies, **188**, 190–191
- combined hyperlipidemia, **229**
- common arterial trunk, 686, 687, 688
- common cold, 139–140
- common iliac artery stenosis, 266
- common variable immunodeficiency syndrome (CVID), 516
- community acquired diarrhea, 147
- community acquired pneumonia, 141
- community acquired staphylococcal infection, 153
- compensated cirrhosis, 780
- complement proteins
 defects, **188, 191**
- nephrotic syndrome, 869
- poststreptococcal glomerulonephritis, 867
- renal abnormalities, 839
- see also specific proteins
- complete atrioventricular block
 see atrioventricular (AV) block
- complete atrioventricular septal defect (AVSD), 694
- complex optomotor deficit syndromes, 962
- complex regional pain syndrome (CRPS), 305
- compression syndromes
 peripheral artery aneurysms, 323
- radicular, 303
- computed tomographic angiography (CTA), 737
- computed tomography (CT), 6
 cardiac uses, 626
 central cyanosis, 684
 consciousness, disturbances of, 992
- infectious diseases, 114
- jaundice, 771
- pleural effusion, 246
- pulmonary opacities, 521
- sarcoidosis diagnosis, 588–589
- concentric hypertrophy, 634, 634
- conductive hearing loss, 98
- congenital angiodyplasia, 324, 386, 389
- congenital aortopulmonary connections, 698
- congenital atrioventricular fistulas, high output heart failure, 655
- congenital dyserythropoietic anemia type I, 409, 409
- congenital erythropoietic porphyria, 271
- congenital heart defects, skin changes, 69
- congenital hemolytic anemia, **413**
- congenital liver fibrosis, 786
- congenital megacolon, 832
- congenital syphilis, 161
- congenital thrombocytopathies, 457, **458**
- congenital thrombocytopenias, **458**
- congenital thrombophilia, 450
- congenital valvular aplasia, 333
- congested liver, 789
- congestion, pulmonary see pulmonary congestion
- congestive gastritis, acute gastritis vs., 275
- congestive heart failure
 pulmonary infiltrates, 541–543
 secondary pulmonary hemosiderosis, 561
- conjugate deviation, supranuclear gaze paresis, 962
- conjugated hyperbilirubinemia, 766, 772
- biliary obstruction, 765
- conjunctival vessel dilation, 680, 680
- conjunctivitis, 97
 chronic, 161
 in chronic renal insufficiency, 863
- connective tissue diseases/disorders, 115

- anemia, 403
 autoantibodies, 177
 microangiopathy, 326
 skin changes, 65–66
 tumors, 359–360
see also specific diseases/disorders
 connective tissue syndrome, fever, 176
 Conn syndrome *see* aldosteronism, primary
 conotruncal anomalies, 684
 cardiac cyanosis, 684–706
 central cyanosis, 684
 consciousness
 anatomic fundamentals, 988
 definition, 951, 988–994
 differential diagnosis, 990–991
 disturbances of, 951–952
 causes, 994
 clinical features, 990–991
 examination, signs and symptoms, 991
 pathophysiology, 989–990
 psychogenic, 999
 qualitative, 989–990, 997
 quantitative, 989, 997
 see also coma
 examination protocol, 991
 eyes, 992–993
 impaired, clinical forms, 953
 motor functions, assessment of, 993–994
 neurochemical fundamentals, 988
 paroxysmal losses, 984
 physiologic fundamentals, 988
 consolidation, pulmonary opacities, 521
 constipation, 830–833
 acute, 830
 mechanical retention, 260
 anorectal dysfunction, 832
 chronic, 830–831
 classification and pathophysiology, 830
 diverticulosis, 820
 megacolon and megarectum, 832
 temporary, 831
 constrictive pericarditis, 660–661
 chest radiograph, 661
 signs and symptoms, 661
 constructive bronchiolitis, 510–511
 continuous murmurs *see* heart murmurs
 contrast echocardiography, 626
 contrast-enhanced spiral computed tomography, 626
 controlled alveolar hyperventilation, 928
 convergence, optomotor system, 958
 Coombs test, 417
 copper
 laboratory parameters, 1034
 sideroachrestic anemia, 405
 coral calculi, 887, 887
 cornea, 96
 band shaped opacifications, 96
 reflexes, consciousness, 993
 corona phlebetactica
 paraplanaris, 331
 coronary angiography, 627
 left ventricular isolated noncompaction, 670
 myocardial ischemia, 233, 234
 stenosis, 231
 unstable angina pectoris, 234
 coronary artery angiography *see* coronary angiography
- dilatation, Kawasaki disease, 129
 occlusion, post-myocardial infarction, 239
 polyarteritis nodosa, 179
 stenosis, coronary angiography, 234
 vasoconstriction/vasospasm, angina, 222, 223
 coronary heart disease (CHD)
 cardiac catheterization, 627
 chest radiograph, 621
 classification, 234
 diagnostic methods, 230–234
 dilated cardiomyopathy, 670
 echocardiography, 231
 gender differences, 231
 magnetic resonance imaging, 232
 positron emission tomography, 232
 risk factors, 225–226
 screening, 34–35
 tachyarrhythmias, 976
 therapeutic implications, 234
 see also acute coronary syndrome (ACS)
 coronary sinus defect, 703
 coronary vessels, polyarteritis nodosa, 179
Coronavirus, 536
cor pulmonale, 565, 636
 cortex, supranuclear gaze paresis, 962
 cortical dysarthria, 102
 corticosteroids
 biosynthesis, 908, 908
 drug-induced
 dyslipoproteinemia, 230
 glucocorticoid-suppressible aldosteronism, 739
 mineralocorticoids *see* mineralocorticoids
 opportunistic fungal infections, 168
 pigmentation disturbances, 54
 secondary osteoporosis, 369
 skin changes, 66
 topical, skin atrophy, 66
 vessel wall, effect on
 composition of, 464
 cortisol
 Addison disease, 752
 Cushing syndrome, 741
 laboratory parameters, 1035
 primary aldosteronism, 739
 steroid biosynthesis, 908
 cortisone, 908
cor triatriatum, 658
Corynebacterium diphtheriae infection, tonsillopharyngitis, 138
 costoclavicular compression, 307, 331
 thoracic outlet syndrome, 334
 cough, 43–44, 494
 acute, 494
 cardiac dyspnea, 609
 chronic, 43, 43, 494
 causes, 494
 productive, 43
 clinical features and etiology, 44
 cough variant asthma, 507
 coumarins
 bleeding during therapy, 463
 necrosis, 68, 68, 463, 463
 oral anticoagulation, 462
 couplet extrastoles, 719
 ECG presentation, 720
 cowpox virus, 118, 125
Coxiella burnetii, 142
 coxsackie virus infection
 common cold, 139–140
 maculopapular exanthema, 118
 vesicles, 118
 C-peptide
 fasting hypoglycemia, 1001
 laboratory parameters, 1035
 cranial nerves, neurological examination, 32
 C-reactive protein (CRP), 197
 anemia, 403
 iron deficiency, 401
 laboratory parameters, 1036
 obliterating arteriosclerosis, 319
 rheumatoid arthritis, 339
 creatine kinase (CK)
 acute coronary syndrome, 238
 laboratory parameters, 1036–1037
 non-STEMI, 235
 creatine kinase-MB (CK-MB), 1036–1037
 creatinine
 bilateral renal disease, 735
 Cushing syndrome, 741
 laboratory parameters, 1037
 creatinine clearance, 840
 24-hour urine, 841
 CREST syndrome, 183
 Osler–Weber–Rendu disease, 464
 Crigler–Najjar syndrome, 766, 771, 772
 Crohn disease, 815–816, 816
 arthropathy, 343
 disease distribution and clinical presentation, 815
 fever, 116
 pyoderma gangrenosum, 62
 ulcerative colitis,
 differentiation, 814
 vitamin B₁₂ deficiency, 407
 Cronkite–Canada syndrome, 819
 crumblly nail dystrophy, 74
 crural artery obstruction, 314
 cryoglobulinemia, 465–466, 466
 peripheral cyanosis, 708
 poststreptococcal
 glomerulonephritis, 867
 renal abnormalities, 840
 cryptococcosis, 169
Cryptococcus neoformans infection, 169
 meningitis, 135
 cryptogenic epilepsy, 981
 cryptogenic organizing pneumonia, 511, 541, 551–553
 crystals, urinary sediment, 849
 cupulolithiasis, 969
 Curling ulcer, 279
 Curschmann spirals, 508
 Cushing disease, 742
 secondary osteoporosis, 369
 skin color, 53
 Cushing syndrome, 740–743
 ACTH-dependent, 742
 ACTH-independent, 742–743
 adrenal incidentaloma, 742
 clinical features, 740–741
 common signs and symptoms, 742
 diagnosis, 741
 hypertension, 738
 obesity, 87
 paraneoplastic, 742
 screening, 741
 secondary osteoporosis, 369
 skin changes, 66
 Cushing ulcer, 279
 cutaneous appearance *see* skin appearance
 cutaneous diphtheria, 71
 cutaneous hemangiomas, high output heart failure, 655
 cutaneous hemorrhages, 69
 cutaneous leishmaniasis, 119
 cutaneous tuberculosis, 71
 cutis laxa, 66
 cyanides, coma, 1008
 cyanosis, 28
 cardiac *see* cardiac cyanosis
 central *see* central cyanosis
 clubbing, 680, 681, 682
 definition, 678
 diagnosis, 679
 medical history and clinical examination, 678
 cycloserine, sideroachrestic anemia, 405
Cyclospora cayetanensis, 149
 cylindroma, 592
 cystadenocarcinoma, 296
 cystadenoma, 296
 cystic adventitial disease, 321, 321
 cystic bronchiectasis, 573
 cystic echinococcosis, 796
 hepatic abscesses, 151
 cysticercosis, 137
 cystic fibrosis, 514–515, 565, 565
 cystic fibrosis transmembrane conductance regulator (CFTR), 293, 514
 cystic hygromas, neck, 477
 cystic kidney diseases, 887
 acquired, 864
 sonographic findings, 887–888
 cystic lung diseases, 573–574
 see also specific diseases
 cystine stones, 887
 cystitides, 882
 cystitis, 882–883
 cysts
 bone, 361, 362, 362–363
 branchial, 476
 bronchiogenic, 573
 cardiophrenic angle, 578
 cervical, 476, 477
 dermoid, 477, 569, 594, 595
 neck, 477
 echinococcosis, 539
 gout, 345, 346
 kidney, 864, 883, 887, 887–888
 lung, 565, 574
 lymphoepithelium, HIV infection, 130
 mesothelium, 578
 ovary, 73
 pancreas, 295
 pericardium, 578, 595, 598
 thyroglossal duct, 476, 477
 thyroid gland, 482
 see also entries beginning cystic
 cytogenic aberrations, 435
 osteomyelofibrosis, 435
 cytology, hyperkalemia, 912
 cytomegalovirus infection, 157, 168
 clinical manifestations, 123
 pharyngitis, 139
 cytopenia, paroxysmal nocturnal hemoglobinuria, 415
 cytostatic agents
 acute renal failure, 855
 acute tubular necrosis, 854

D

- dactylitis
 psoriatic arthritis, 342
 reactive arthritis, 343
 danger space infections, 479
 Darier–Roussy sarcoid, 588, 588
 Darier sign, urticaria pigmentosa, 55

- D-dimers, laboratory parameters, 1038
 deafferentation pain, 300–301
 clinical syndromes with, 301
 deafness, 98
 decerebration seizures, 993
 decision analysis,
 probability-based, 6–7
 decision-making *see*
 diagnosis/differential diagnosis
 decortication seizures, 993
 decubitus angina, 224
 deep vein thrombosis (DVT)
 acute iliofemoral, 330
 causes, 330
 hereditary thrombophilia, 467
 lower limb, 330
 palpation of calves, 329
 pelvis and legs, 329, 329–330,
 332
 postthrombotic damage, 333
 venous edema, 385
 défense musculaire, acute
 abdomen, 257
 degenerative disease, 16
 degenerative joint disorders,
 349–351
 osteoarthritis, 349–350
 spinal disease, 350–351
 Déjerine-Roussy syndrome, 208,
 301
 unilateral leg pain, 308
 delirium, 991
 delirium tremens, 787
 dementia, 991
 prolonged vertigo, 955
 dengue fever, 123, 175
 dengue shock syndrome, 175
 densitometry
 hyperparathyroidism, 375
 osteoporosis, 370
 deoxycorticosterone (DOC), 739
 depigmentation *see*
 hypopigmentation
 dermatoid anthrax, 120
 dermatomes
 radicular arm pain, 304
 radicular leg pain, 309
 radiculopathy, 302
 dermatomyositis, 67, 67, 186,
 186–187
 musculoskeletal thoracic pain,
 251
 dermoid cysts, 477, 569, 594, 595
 neck, 477
 dermopathy, Graves disease, 486
 descending aorta dissection, 244
 11-desoxycorticosterone, steroid
 biosynthesis, 908
 desquamative interstitial
 pneumonia (DIP), 554
 dexamethasone
 ACTH-independent Cushing
 syndrome, 742–743
 Cushing syndrome, 741
 diabetes insipidus, 40–41,
 905–906
 causes, 40
 thirst test, 905
 diabetes mellitus, 38–40
 atherosclerosis risk, 226
 cardiac dyspnea, 618
 chronic pancreatitis, 294
 coma, 1000–1001, 1002–1003
 complications, 40
 see also specific complications
 definition, 38–39
 dermopathy, 65
 diarrhea, 825
 dyslipoproteinemia, 230
 edema, 385
 etiological classification, 38
 facial redness, 91, 91
- hypotension, 750–751
 opportunistic fungal infections,
 168
 screening, 36
 secondary osteoporosis, 370
 skin changes, 65
 type 1
 diabetic nephropathy, 870
 fatigue, 39
 hypoglycemic coma, 1000
 weight loss, 39
 type 2
 diabetic nephropathy, 871
 hypotension, 750
 diabetic coma, 1000–1001,
 1002–1003
 diabetic foot, 65
 diabetic ketoacidosis
 hypophosphatemia, 940
 normochloremic metabolic
 acidosis, 920
 diabetic microangiopathy, 326,
 327
 diabetic nephropathy, 870–872,
 871
 course, 871
 diagnosis, 871–872
 stages, 872
 diabetic neuropathy, 326, 348
 chronic renal failure, 857
 unilateral leg pain, 309–310
 diabetic precoma, abdominal
 pain, 271–272
 diabetic retinopathy, 97
 diabetic rubesis, 53
 diagnosis/differential diagnosis,
 5–6
 disease groups and, 16–23
 see also specific diseases
 elements, 4–10
 evaluation of findings, 6–9
 medical errors, 9, 9
 practical procedure, 5–6
 factors influencing, 11–16
 false, 10
 individually adapted, 5
 process, 8
 rules, 9
 verification, 5
 dialysis
 anemia, 404
 iron deficiency, 402
 diaphragmatic paralysis, dyspnea,
 502–503
 diaphragmatic relaxation, 503,
 578
 diarrhea, 810–827
 acute, 811–812
 categorization, 810
 chronic, 813–826
 abnormal endoscopy,
 813–820
 causes, 813
 endocrine and hormonal
 causes, 825–826
 malassimilation, 821–825
 normal endoscopy, 820–821
 chronic pancreatitis, 294
 definition, 810
 fever, 147–149
 functional, 813
 hypokalemia, 911
 pathogens causing, 148–149
 pathophysiology, 810, 810
 secretory, 810
 sensorimotor dysfunction, 810
 diastolic blood pressure, 732
 diastolic heart failure
 cardiac dyspnea, 607
 concentric hypertrophy, 634
 differential diagnosis, 607
 restrictive cardiomyopathy, 666
- diet/eating habits
 atherosclerosis risk, 226
 as factor influencing diagnosis,
 13
 vitamin B₁₂ deficiency, 407
 diffuse alveolar damage (DAD),
 554
 diffuse esophageal spasm (DES),
 806
 diffuse granulomatous pulmonary
 disease *see* sarcoidosis
 diffuse idiopathic skeletal
 hyperostosis (DISH), 346–347
 diffuse adherent *Escherichia coli*
 (DAEC), 148
 diffuse parenchymal lung disease
 (DPLD), 548–565
 classification, 549
 extrinsic allergic alveolitis, 556
 idiopathic interstitial
 pneumonia, 549–554
 interstitial pneumonia in
 association with collagen
 vascular disease, 554–555,
 555
 pneumoconiosis, 557
 silicosis, 559–560
 toxic and drug-induced
 interstitial pneumonia, 556
 see also specific diseases
 diffusion capacity, pulmonary
 cyanosis, 707
 Di George syndrome, 190
 digitalgia paresthesica, 308, 310
 digital necroses, acute tubular
 necrosis, 854, 854
 dihydroergotamine heparin, 325
 dihydrofolic acid reductase, folic
 acid deficiency, 409
 dilated cardiomyopathy (DCM),
 669–670
 chest radiograph, 621, 622
 definition and classification,
 661
 myocarditis, 672
 diphtheria, tonsillopharyngitis,
 138
 dipsomania, 41
 dipyradimole,
 thrombocytopathies, 458
 direct immunofluorescence
 analysis, systemic lupus
 erythematosus, 183
 disaccharide deficiency, 821
 discoid lupus, 183
 diseases
 checkup, asymptomatic
 patients, 33, 33–37
 criteria, 4
 ethnic groups, 14
 etiology, 4
 expression, 5
 geographic distribution, 14
 groups, diagnosis and, 16–23
 occupational, 12, 14, 15–16, 509
 pathogenesis, 4
 precluding or promoting, 16
 prevalence, 11
 prevention, 33, 33–34
 screening, 33, 34–36
 see also specific diseases
 disk herniation
 cervical spine, 350
 lumbar spine, 351
 dissecting aneurysms, peripheral
 artery, 323
 disseminated intravascular
 coagulation (DIC), 417, 450, 460,
 470
 dissociated nystagmus, 967
 distal choledocholithiasis, 287
 distended intestinal loops, 260
- disturbed nocturnal breathing,
 503
 diuretics
 edema, 385
 hypokalemia, 911
 hypophosphatemia, 940
 hypovolemic hyponatremia,
 902–903
 metabolic alkalosis, 924
 divalent ions, renal excretion, 929
 diverticular bleeding, 820
 diverticular disease, acute
 constipation, 830
 diverticulitis, 820
 diverticulosis, 820
 diverticulum, 804
 dobutamine, stress
 echocardiography, 231
 Doppler echocardiography
 aortic insufficiency, 648
 acute, 645
 aortic stenosis, 642, 643
 atrial myxoma, 659
 atrial pressure gradients, 624,
 625
 atrial septal defect, 704
 atrioventricular septal defect,
 695
 cardiac dyspnea, 622–625
 central cyanosis, 684
 color-coded, 624
 double inlet ventricle, 698
 Eisenmenger syndrome, 702
 erythrocytes and, 623–624
 hemodynamic studies, 625
 mitral insufficiency, 652
 mitral stenosis, 658
 pulmonary hypertension, 637
 pulmonic stenosis, 644
 tricuspid insufficiency, 653
 Doppler ultrasound
 color-coded, 329, 624
 echocardiography *see* Doppler
 echocardiography
 primary varicosis, 331
 renal artery stenosis, 737, 737
 double inlet ventricle, 695–698
 anatomy, 695
 auscultation, 696–698
 chest radiograph and
 echocardiography, 698
 clinical presentation, 695–696
 transposition of great arteries,
 complete, 697
 doubly committed ventricular
 septal defect (VSD), 699
 Down syndrome, 21
 atrioventricular septal defect,
 694–695, 696
 teeth, 76
 tongue enlargement, 78
 Dressler syndrome, 243
 drowsiness, 990
 drug fever, 116, 195
 drug-induced diseases/disorders
 acute interstitial nephritis, 879,
 879
 findings, 880
 hypertension, 746
 hypoglycemia, 1002
 hypotension, 750
 liver diseases, 779
 cholestasis, 792
 pulmonary eosinophilia, 547,
 550
 pulmonary fibrosis, 550, 556
 skin conditions, 68
 systemic lupus erythematosus,
 181
 drumstick fingers, 75, 90
 'dry tap', hairy cell leukemia, 431
 Dubin–Johnson syndrome, 766,
 772, 772

impaired bilirubin secretion, 765
laboratory findings, 768
ductus arteriosus, calcification of, 699
ductus choledochus, 794
dumping syndrome, 284
duodenal diverticulitis, 283
duodenal ulcer, 277, 278
non-Hodgkin lymphoma, 282
perforation, peritonitis, 264
duplex sonography
Budd–Chiari syndrome, 790
jaundice, 771
peripheral artery disease, 317, 318
Durie–Salmon staging system, 444
dust exposure, bronchitis, 510
dwarfism, 84
dysarthria, 100, 102
dyserthropoiesis-mediated jaundice, 766
dyserthropoietic anemia type I, congenital, 409, 409
dysesthesia, 300
dyslipoproteinemia, 226–230
atherosclerosis risk, 226
classification, 229
clinical features, 226–227
diagnosis, 226
drug-induced, 230
primary forms, 227
secondary forms, 227–230
dysmorphic erythrocytes, urinary sediment analysis, 847
dysontogenic masses, neck, 477
dyspepsia, irritable bowel syndrome, 285
dysphagia, 47, 802–807
causes, 47
differential diagnosis, 802
structural lesions, 802–804
dysphonia, functional, 102
dyspnea, 608–609
cardiac see cardiac dyspnea
cystic fibrosis, 515
definition, 496
degree of, 496
diseases, 506–517
etiology, 496
exertion, on, 608
extrapulmonary, 500–505
functional, 276
hemoptysis, 496–516
pathophysiology, 496
pleural effusion, 247
pulmonary, 500
differential diagnosis, 605
resting, 609
vocal cord abnormalities, 506
dystrophic calcification, 64
dysuria, fever and pollakisuria, 151–152

E

ear, external, 98
early-diastolic heart sounds, 613
early-diastolic murmurs, 618
early dumping syndrome, 284
early repolarization, 237, 242
early systolic ejection click, 615
ears, 98
Ebola virus, 123
Ebstein anomaly, 704–706, 705
atrial septal defect, 706, 707
clinical features, 705–706
eccentric hypertrophy, 634, 634–635
ecchymosis, Cushing syndrome, 741, 742

ECG see electrocardiography (ECG)
echinococcosis, 573, 796
cysts, 539
hepatic abscesses, 151
pulmonary, 539, 569, 569–570
echinococcosis granulosus, 796
echinococcosis multilocularis, 796
Echinococcus infections see echinococcosis
echocardiography, 6, 622–626
acute aortic insufficiency, 645
acute mitral insufficiency, 649
aortic stenosis, 642
apical four chamber view of heart, 624
arterial hypertension, 635
chronic aortic insufficiency, 647
chronic mitral insufficiency, 651
common arterial trunk, 686
constrictive pericarditis, 660
coronary heart disease, 231
dilated cardiomyopathy, 669
Doppler ultrasound see Doppler echocardiography
hypertrophic cardiomyopathy, 663, 664
mitral stenosis, 658, 658
myocarditis, 673
pulmonary edema, 631
pulmonary hypertension, 637, 638
restrictive cardiomyopathy, 666
right-to-left shunt, 626
syncope, 974
tetralogy of Fallot, 686
transposition of great arteries, 693
transthoracic, 6
tricuspid insufficiency, 653
two-dimensional, cardiac
dyspnea, 623
valvular insufficiency, 624
valvular stenosis, 624
echovirus infections
common cold, 140
maculopapular exanthema, 118
eclampsia, 985
jaundice, 792
pulmonary edema, 632
ectoblastic tumors, 597
eczema herpeticum, 57, 58
edema
definition, 382
generalized, 382–385
diabetes mellitus, 385
drug-related, 385
electrolyte imbalance, 385
endocrine system related, 384
glomerulonephritis related, 384
heart failure related, 382–383
hypoproteinemic, 383–384
scleroderma, 385
localized, 382, 385–390
congenital dysplasia, 389
factitious, 390
high altitudes, 390
inflammatory edema, 388–389
ischemic and postischemic edema, 390
lipedema, 388
lymphedema, 385
primary lymphedema, 385–387
secondary lymphedema, 387–388
urticaria and angioedema, 389–390
venous edema, 385
nephrotic syndrome, 868
acute nephritic syndrome vs., 869
pathophysiology, 382, 382
peripheral
ascites, 783
chronic renal insufficiency, 862
peripheral pitting, 611
pitting, 383
heart failure, 382
venous congestion, 611
pulmonary see pulmonary edema
volume expansion, 900
EDTA
pseudothrombocytopenia, 459
thrombocytopenia, 459
effective circulating volume, 898
Ehlers–Danlos syndrome, 65
ehrlichiosis, 158, 159
Eisenmenger complex, 583, 702
Eisenmenger syndrome, 702
atrioventricular septal defect, 694, 695
central cyanosis, 682
common arterial trunk, 686
nonrestrictive ventricular septal defect, 680
ventricular septal defect, 701, 703
ejection click
common arterial trunk, 686
pulmonary see pulmonary ejection click
ejection murmur, functional, 617
ejection systolic murmurs see systolic ejection murmur
elastin defect, vessel wall, 464
elderly patients, fever, 112
electrocardiography (ECG), 34
acute aortic insufficiency, 645
acute coronary syndrome with ST elevation, 236–237
acute mitral insufficiency, 649
aortic stenosis, 642, 643
aortopulmonary connections, 699
arrhythmias, 715
arrhythmogenic right ventricular cardiomyopathy (ARVC), 670
arterial hypertension, 635
atrial septal defect, 704
atrioventricular septal defect, 695
cardiac dyspnea, 618–619
central cyanosis, 683–684
chest pain, importance, 220
chronic aortic insufficiency, 647
chronic mitral insufficiency, 651
common arterial trunk, 686
constrictive pericarditis, 660
coronary heart disease, 230–231
dilated cardiomyopathy, 669
Ebstein anomaly, 706
Eisenmenger syndrome, 702
hyperkalemia, 862
hypertrophic cardiomyopathy, 664, 665
infarction localization, 237
mitral stenosis, 657, 657
myocarditis, 673
non-STEMI, 235
pericarditis, 240–242
pulmonary hypertension, 637, 638
pulmonic stenosis, 644
renal insufficiency, 859
restrictive cardiomyopathy, 666
syncope, 974
tetralogy of Fallot, 685–686
transposition of great arteries, complete, 693
transposition of great arteries, corrected, 694
tricuspid insufficiency, 653
ventricular septal defect, 701
electroencephalography (EEG)
epileptic absence, 981
seizure diagnosis, 983
electrolyte balance disturbances, 862
edema, 385
pathogenesis, 895, 895
electrolytes, fluid compartments, 896
electrophysiologic study, arrhythmias, 715
emboli/embolism
arterial, 322, 322, 980
atrial fibrillation, 322
atrial myxoma, 322
brain, coma, 995
cholesterol, 322
rapidly progressive glomerulonephritis, 875
chronic mitral insufficiency, 650
microemboli, 155, 980
mitral stenosis, 655
myocardial infarction, 322
pulmonary see pulmonary emboli
septic, 153, 155
see also thrombosis
emergency evaluation, 4, 5, 8
see also vital signs
emphysema, 511–513, 512
alpha₁-antitrypsin deficiency, 513, 513
barrel chest, 27
clinical findings, 511–513
definition, 511
diagnosis, 513
types, 511
empyema, 529, 529
enamel defects, infections, 76
encephalitis, 136–137, 208
arboviral causes, 136
focal, 999
postinfectious, 137
Encephalitozoon intestinalis, 149
encephalomyelitis, disseminated, 302
enchondroma, 356, 357
endemic sprue see celiac disease
endocardial fibrosis, carcinoid syndrome, 826
endocarditis, 155–156
clinical features and symptoms, 155
diagnosis, 156
infectious
acute aortic endocarditis, 645
acute mitral insufficiency, 649
causative pathogens, 156
chronic aortic insufficiency, 649
noninfectious, 155
petechiae and purpura, 116
postoperative, 155
skin changes, 69, 71
endocrine diseases/disorders, 20
abdominal pain, 271–272
anemia associated with, 410
arthropathies, 348
diarrhea, 825
fever, 193
hypercalcemia, 935
hypotension, 750–751
short stature due to, 84–85
skin changes due to, 66

- tall stature due to, 80–82
see also specific diseases/disorders

endocrine function tests, pancreatic disease, 291

endocrine ophthalmopathy, 486

endocrine psychosyndrome, 21

endocrine system

 - edema, 384
 - hyperactivity, fibrous dysplasia, 363
 - hypertension, 737–744

endolymphatic tube, perilymph fistula, 971

endometriosis, mechanical ileus, 262

endomyocardial fibrosis, 668

 - restrictive cardiomyopathy, 666, 667

endophlebitis, veno-occlusive disease, 790

endoplastitis, 153

end organ damage, risk assessment, 734

endoscopic retrograde pancreaticography (ERCP), 766, 771

pancreatic cysts, 295

endoscopy

 - abdominal ulcers, 277
 - gastric carcinoma, 280
 - obscure epigastric pain, 274

see also specific techniques

endothelial damage, obliterating arteriosclerosis, 319

end-stage renal disease (ESRD)

 - causes, 858
 - chronic glomerulonephritis, 878
 - hyperparathyroidism, 376
 - osteomalacia, 372

enophthalmos, 94

Entamoeba histolytica infection see amebiasis

enteric fever, 147

enteric salmonellosis, 148

enteroaggregative (EAggEC) *Escherichia coli*, 148

Enterobacter agglomerans, 557

enterococcal infections, sepsis, 154

enterocolitis, 815

 - associated arthropathies, 343–344

Enterocytozoon bieneusi, 149

enteroinvasive *Escherichia coli* (EIEC), 148

enteropathogenic *Escherichia coli* (EPEC), 148

enterotoxigenic *Escherichia coli* (ETEC), 148

enterovirulent *Escherichia coli*, 148

enterovirus infections, meningitis, 134

enzyme defects, porphyrias, 269

enzyme immunoassays (ELA), hepatitis C, 776

enzymopathy, genetic-related, 20

eosinopenia, 200

eosinophilia, 199–200

 - bronchial asthma, 508
 - Churg–Strauss syndrome, 180
 - inflammatory edema, 388
 - pulmonary
 - drug-induced, 547
 - with parasitosis, 546

eosinophilia–myalgia syndrome, 68, 186

eosinophils, 199–200

 - absence of, 200
 - asthma, 547

fasciitis, 68, 186

fibroblastic endocarditis, 667

gastroenteritis, 812

granuloma, 360

 - Langerhans cell histiocytosis, 445
 - parietal endocarditis, 666
 - pleuritis, 248
 - pulmonary infiltrates, 546, 546–547

epidermolysis bullosa, 60

epidural abscess, 138

 - anterior spinal artery syndrome, 302

epiglottitis, 140

epilepsy, 980–984

 - arrhythmias, 714
 - aura, 981
 - classification, 981–983
 - clinical features, 981–983
 - consciousness disturbances, 996
 - international classification, 982
 - nonconvulsive epileptic state, 996
 - pathogenesis, 980–981
 - seizures, 211, 981
 - chronic subdural hematoma, 998
 - forms, 981–983
 - syncope, 953
 - vertigo, 954 - vestibular epilepsy, 972

see also specific types

symptomatic, 981

syncope, 952

epilepsy-related seizure disorders, 982

epilepsy syndromes, 982

epithelial casts, urinary sediment, 849, 850

epithelial cells, urinary sediment, 847–849, 849

Epstein–Barr virus (EBV) infection

 - clinical manifestations, 123
 - lymph node enlargement, 127, 477
 - oral hairy leukoplakia, 169
 - pharyngitis, 138–139
 - pharyngotonsillitis, 477
 - pneumonia, 536

Epworth sleepiness scale, 46, 1009, 1009

questionnaire, 516

erectile dysfunction, 48, 48

ergometry, 34–35

ergotamine alkaloids, nonhydrogenated, 324

ergotamine tartrate preparations, 324

ergotism, 324, 324–325

 - gangrenous, 325
 - eruptive gastritis, 274

errors, 9

eruptive xanthoma, hyperlipidemia, 228

erysipelas, 120

 - secondary lymphedema, 388
 - skin color, 53

erysipeloid diphtheria, 71

erythema, 56–57, 119

erythema exsudativum multiforme, 59, 59–60

erythema induratum, 61

erythema infectiosum, 122

erythema migrans, 56

 - Lyme disease, 157

erythema nodosum, 60–61, 62, 143, 143, 588, 596

 - allergic reactions, 195

erythroblast aplasia, 411

erythroblastic leukemia, acute, 426

erythrocyanosis, 326

erythrocytosis crurum, 708

erythrocyte casts, urinary sediment, 847, 849

erythrocyte indices, 396

 - anemia of chronic disease, 403
 - thalassemia, 405

erythrocytes

 - agglutination, hemolytic anemia, 414
 - aplasia, 411
 - creative, 396
 - Doppler echocardiography, 623–624
 - enzyme defects, 418
 - eumorphic, 848
 - urinary sediment analysis, 847
 - fragmentation, hemolysis with, 415–417, 416
 - shape variations, 417–418
 - urinary sediment, 847

erythrocyte sedimentation rate (ESR), 196–197

 - causes, 197
 - multiple myeloma, 442
 - rheumatoid arthritis, 339
 - Takayasu arteritis, 320
 - vasculitis, large vessels, 178

erythrocytosis, secondary, 679

erythroderma, 57

erythroleukemia, 426

 - acute, 428

erythroleukemoid hematologic picture, 435

erythromelalgia, 326

 - myeloproliferative disease, 468
 - polycythemia rubra vera, 434

erythropoiesis

 - megaloblastic bone marrow, 406
 - myelodysplastic syndrome, 432
 - pernicious anemia, 407

erythropoietic porphyrias, 271

 - congenital, 271
 - erythropoietic protoporphyrina, 271

erythropoietin

 - anemia, 404
 - multiple myeloma, 443

Escherichia coli

 - acute complicated pyelonephritis, 152
 - diarrheal disease, 811
 - peritonitis, 150
 - pyelonephritis, 883
 - sepsis, 154
 - strains, 148
 - urinary tract infections, 846

esophageal chest pain, differential diagnosis, 221

esophagitis, 806–807

 - HIV infection, 168

esophagus

 - carcinoma, 802–803
 - diffuse dysmotility, 806
 - dysphagia, 802
 - membranes, 803
 - motility disorders, 804–806
 - rings, 803
 - tumors, 802–803
 - ulceration, 806

essential thrombocythemia (ET), 468

essential thrombocytosis, 321

estrogens

 - deficiency, 368
 - hypercholesterolemia, 230

ethanol abuse *see* alcohol abuse

ethnic groups, 14

ethylene glycol, coma, 1008

etiology *see* diseases

eunuchoid habitus, 81

euvolemic hypernatremia, 905–906

 - causes, 905
 - different diagnosis, 904

euvolemic hyponatremia *see* hyponatremia

event recorder, arrhythmias, 715

evidence-based medicine, 7

 - quality rating, 8

see also quality assurance

Ewing sarcoma, 361, 361

exanthema

 - acute hepatitis, 767
 - pharyngitis, 138
 - post-arbovirus infection, 163

exanthema subitum, 122–123

excretions, jaundice, 767

exercise, 500

 - angina pectoris, 222
 - asthma and, 508–509
 - ECG, coronary heart disease, 230–231
 - hypotension and, 640
 - intolerance
 - acute heart failure, 628
 - cardiac dyspnea, 609
 - chronic mitral insufficiency, 650
 - cyanosis, 682
 - mitral stenosis, 655

exercise-induced asthma, 508–509

exercise-induced hypotension, 640

exocrine function tests, pancreatic disease, 291

exogenous hemolytic anemia, 413–414

exogenous psychoses, 21

exophthalmos, 93–94

 - bilateral, 93
 - unilateral, 93, 94

exophytic colonic carcinoma, 818

expectoration, 495

external appearance, 79–102

 - anorexia, 89
 - ears, 98
 - eyes, 93–98
 - face, 91–93
 - gynecomastia, 88–89
 - hands, 90–91
 - language, speech and phonation, 100–102
 - nose, 99
 - obesity, 86–88
 - odor, 99–100
 - stature and posture, 79–86

external otitis, 140

extertional headache, 215

extracellular buffer systems, 915–916

extracellular hyperosmolarity, ketoacidotic coma, 1002

extracellular volume (ECV)

 - concomitant increases, 900
 - contraction and expansion, 899–900, 900
 - maintenance, 896
 - total body water, 895

extrahepatic cholestasis, 765, 793–794, 794

extrahepatic obstructive jaundice, 795

extrahepatic tumors, fasting hypoglycemia, 1001–1002

extrapancreatic tumor, fasting hypoglycemia, 1001

extrapulmonary dyspnea, 500–505

extrapulmonary restriction, 502–503

extrapulmonary tuberculosis, 143–144

- extrapyramidal system, prolonged vertigo, 955
- extrasystoles, 719–720
 clinical examination, 714
 supraventricular, 720
- extrinsic allergic alveolitis, 556–557
- exudate ascites, 784
- exudate pleural fluid, 247, 247
- exudative diarrhea, mechanisms, 810
- exudative gastroenteropathy
 edema, 384
 hypoproteinemic edema, 383–384
- exudative pleuritis, 245
- eyebrows, 94
- eyelids, 94
- eye muscle myositis, 212
- eyes, 93–98
 consciousness, 992–993
 Graves disease, 485–486, 486
 movements, consciousness, 993
- polyarteritis nodosa, 179
- red, 97
- see also entries beginning oculo-/ocular*
- F**
- Fabry disease, 866
 bilateral arm/leg pain, 311
 restrictive cardiomyopathy, 667
- skin presentation, 65
 vessel wall, 465
- face, 91–93
 Cushing syndrome, 740, 741
 scleroderma, 185
- facial expression, 91
- facial neuralgia, 216–217
- facial pain, atypical, 217
- facial redness, 91
- factitious edema, 386, 390
- false aneurysms, 240, 323
- familial adenomatous polyposis (FAP), 819
- familial aldosteronism type I, 739
- familial hemiplegic migraine, 214
- familial hypercalcicuria
 hypocalcemia, 932
- familial hyperlipidemia, 271
- familial hypocalciuria
 hypercalcemia, 944
- familial Mediterranean fever, 192
 differential diagnosis, 192
 peritonitis, 265
- familial periodic hyperkalemic paralysis, 912
- familial periodic hypokalemic paralysis, 911
- familiar hemophagocytic lymphohistiocytosis, 445
- Fanconi syndrome
 osteomalacia, 373
 renal calcium loss, 934
- fascial gaps, 331
- Fasciola hepatica*, 794
 posthepatitic jaundice, 146
- fasting
 hypoglycemia, 1000, 1001–1002
 ketacidosis, 921
- fasting plasma glucose (FBS), 38–39
- fasting spot urine samples.
 primary aldosteronism, 738
- fatigue, 44, 46
 cardiac dyspnea, 609
 causes, 45
 chronic mitral insufficiency, 650
- diabetes mellitus type 1, 39
- primary adrenocortical insufficiency, 751
- fatty liver
 hepatic anemia, 410
 pregnancy-related, 790–791
- febrile illness *see* fever
- fecal culture, reactive arthritis, 343
- fecal incontinence, diarrhea vs., 810
- Felty syndrome, 339
- femoral artery auscultation, 315
- femoral traction pain, 309
- ferritin
 anemia of chronic disease, 403–404
- hereditary hemochromatosis, 788
- iron deficiency anemia, 401, 401
- laboratory parameters, 1038–1039
- renal anemia, 410
- fertility problems, 42–43
- fetal hemoglobin, 709
- fever
 abdominal pain, 149–151
 acute coronary syndrome with ST elevation, 236
- adult still disease, 339
- allergic reactions, 195
- arbovirus infections, 163
- with associated cardinal symptoms, 116–157
- autoimmune disease, 175–187
- causes, 111, 112
- clinical findings, 111
- common cold symptoms, 138–141
- concomitant exanthema, 116
- cough and thoracic pain, 141–145
- course, 195–196
- definitions and pathogenesis, 111–112
- diarrhea, 147–149
- differential diagnosis, 111–112, 195–200
 see also specific diseases/disorders
- duration, 111
- dysuria and pollakisuria, 151–152
- endocrine disorders, 193
- facial redness, 91
- facial swelling, 130–131
- frequent leading symptoms, 116
- headaches, 131–135
- heart defects, 155–156
- hemolysis, 194
- hospitalized patients, 116
- immune deficiencies, 187–192
- inflammation parameters, 196–197
- jaundice, 145–146, 766
- joint or bone pain, 125–126
- lymph node enlargement, 127–130
- medical history, 111
- multiple organ involvement, 157–175
- neck stiffness, 131–135
- neck swelling, 130–131
- neurological deficits, 136–138
- noninfectious causes, 115–116, 192–195
- pleural effusion, 246–247
- sepsis, 152–155
- skin rashes, 116–124
- special patient groups, 111
- splenomegaly, 146–147, 147
- thrombophlebitis, 195
- thrombosis, 195
- tissue degradation, 194
- travel, tropical regions, 171
- tumors, 194, 194
- of unknown origin, 6, 113, 113–114, 114
- vegetative dystonia, 193
- without localized symptoms, 114–116
- fibrillin defect, vessel wall, 464
- fibrinogen, laboratory parameters, 1039
- fibrinoid necrotizing vasculitis, 180
- fibrinolytic pathways, 453
- fibroblast growth factor receptor gene (FGFR3), 83
- fibroma, 569
 chondromyxoid, 357
- neurofibromatosis, 54, 54, 69–71
- nonossifying, 359, 360
- ossifying, 360
- fibromuscular dysplasia, 321
 renal artery, 736, 736
- fibromyalgia, 352, 352
- fibro-osteoclasia, 934
- fibrosarcoma, 360
- fibrosis, lungs *see* pulmonary fibrosis
- fibrous dysplasia, 362, 363
- fibrous histiocytoma, malignant, 360
- filariae, inflammatory edema, 388
- filariasis, 128
- fine-needle aspiration biopsy, thyroid function, 482
- first degree atrioventricular block
 see atrioventricular (AV) block
- first heart sounds, 613, 614
 atrioventricular septal defect, 695
 central cyanosis, 683
 double inlet ventricle, 696
 tricuspid atresia, 690
- first morning urine, 841
- fish tapeworm, vitamin B₁₂ deficiency, 407
- fistula, diabetic microangiopathy, 326
- Fitz-Hugh-Curtis syndrome, 150, 264
- flapping tremor
 hepatic encephalopathy, 787
 liver cirrhosis, 780
- floaters, 97
- flow-volume curve, 498
 chronic obstructive pulmonary disease, 512
 goiter, 499
- fludrocortisone, primary aldosteronism, 739
- fluid compartments, 895–896
 size, 895–896
- fluid lung, 862
- fluid retention, acute nephritic syndrome, 866
- fluorescence activated cell sorting (FACS), paroxysmal nocturnal hemoglobinuria, 415
- fluorescence microlymphography, 388
 lymphedema, 387
- [¹⁸F]-fluorodeoxyglucose (FDG)-positron emission tomography (PET), 114, 115
- fluorescent treponemal antibody absorption test, 159
- flushing, carcinoid syndrome, 826, 826
- flutter waves, 722
- focal arrhythmias, carotid sinus massage, 715
- focal encephalitis, 999
- focal neurological deficits, sinus vein thrombosis, 995
- focal nodular hyperplasia (FNH), 795
- focal nonconvulsive epileptic state, 996
- focal parameningeal infections, 133
- focal segmental glomerulosclerosis (FSGS), 870
- focal seizures, 211, 981–983
 localization and symptoms, 981–983
- migraine vs., 214
- seizure course, 983
- focal tachycardias, medical history, 714
- folic acid
 deficiency, 408–409
 myelodysplastic syndrome, 432
- laboratory parameters, 1040
- Fontan circulation, 678
- food allergy, diarrhea, 812
- food poisoning, 811
 causative pathogens, 149
- foramina recess obstructions, 304
- forced expiratory volume (FEV), 497, 498
 bronchial asthma, 507
- forced vital capacity (FVC), 497, 498
- fourth heart sound, 614, 615
 dilated cardiomyopathy, 669
- fractional excretion, 895
 sodium, 899
- fragmentocytes, 398
 hemolysis with erythrocyte fragmentation, 415
 hemolytic-uremic syndrome, 875
- Francisella tularensis*, 128
- free thyroxine (fT4)
 Graves disease, 486
- hypotension, 751
- laboratory parameters, 1063
 secondary hypothyroidism, 489
- subacute thyroiditis, 483–484
- thyroid function tests, 482
- toxic adenoma, 487
- toxic multinodular goiter, 488
- free triiodothyronine (fT3)
 laboratory parameters, 1063
 thyroid function tests, 482
- toxic adenoma, 487
- toxic multinodular goiter, 488
- Frenzel spectacle testing, 958, 965
 benign paroxysmal positional vertigo, 969
- frequency shift, Doppler echocardiography, 623
- Fröhlich syndrome, 86
- frontal lobe epilepsy, 984
- fructose intolerance, 1002
- fT3 *see* free triiodothyronine (fT3)
- fT4 *see* free thyroxine (fT4)
- functionally vegetative complaints, 20–21
- functional vascular disease, 324–326
- fundus hemorrhages,
 subarachnoid hemorrhage, 207
- fundus paraproteinemicus, 444
- fungal infections
 arthritis, 126
 immunocompromised patients, 537–539
- localized mycoses, endemic regions, 170
- meningitis, 135
- opportunistic, 168–169
- skin, 72

- systemic mycoses, 114
see also specific infections
 fungal poisoning, diarrhea, 812
 funicular myelosis, 302
 funnel chest, chest radiograph, 620
 fusiform aneurysms, 322–323
 iliac artery, 323
Fusobacterium necrophorum, 130–131
- G**
- GABA *see* g-aminobutyric acid
 gait, 85–86
 neurological examination, 32
 gait ataxia, 86
 gallbladder abnormalities, 289
 gallium scintigraphy, sarcoidosis, 589
 gallstones, 287
 g-aminobutyric acid, 1006, 1006
 coma, 1007
 vigilance, 988
 gamma-glutamyl transpeptidase (GGTP)
 cholestanosis, 768
 laboratory parameters, 1040–1041
 gangrenous ergotism, 325
 Gardner syndrome, 819
 gas retention, acute, 260
 gastric adenocarcinoma, 802
 gastric carcinoma, 280, 280
 niches, 277
 gastric ulcers, 277–279, 278
 perforation, peritonitis, 264
 stress-induced, 279
 gastric volvulus, 283
 gastrin, chronic gastritis, 276
 gastrinoma, 826
 Zollinger–Ellison syndrome, 279
 gastritis
 acute, 274–275
 chronic, 276
 achlorhydria, 403
 type A, 276
 type B, 276
 gastroesophageal reflux, asthma, and, 509
 gastroesophageal reflux disease (GERD), 803
 posterior laryngitis, 102
 gastrointestinal diseases/disorders
 anorexia associated, 37
 bleeding
 analgesic nephropathy, 881
 anemia, 402
 chronic renal failure, 861
 occult, 402
 oral anticoagulation, 463
 colic, 260
 edema, 384
 hyperparathyroidism, 376
 infections, 147–148
 see also specific infections
 large bowel obstruction, colonic carcinoma, 818
 large bowel stenosis, diverticulosis, 820
 lymphangiectasia, 825
 malaria, 172
 mechanical ileus, 260
 noninflammatory intestinal infections, 147
 osteomalacia, 372, 373
 parasites, 149
 polyposis, 282, 282–283
 skin changes due to, 69, 70
 stenoses, 260
 strictures, 830
 tuberculosis, 816–817
- see also specific diseases/disorders*
- gastrointestinal stroma tumors (GIST), 282
 gastrointestinal system, pain, 260–264
 see also abdominal pain
 Gaucher disease, 363
 gaze-evoked nystagmus, 966, 967
 GB virus C (GBV-C), 777
 gender, as factor influencing diagnosis, 12
 general anesthesia, pulmonary edema following, 632
 genetics, simple Mendelian, 21–22
 genitofemoral neuralgia, 273
 genitourinary tuberculosis, 884, 884
 geographic tongue, 78, 78
 geriatric complaints, 12
 German measles *see* rubella
 gestational diabetes, 39
 Ghon lesion, 531
 Gianotti–Crosti syndrome, 767
 giant cell arteritis, 178, 211, 320
 giant cell myocarditis, 673
 giant cell tumor, 360, 361
 giant thrombocytes, osteomyelofibrosis, 435
 Giemsa staining, *Helicobacter pylori* detection, 277
 Gilbert syndrome, 771–772, 772
 bilirubin uptake, 763
 conjugated hyperbilirubinemia, 766
 laboratory findings, 768
 gingival hemorrhage, 77
 gingival hyperplasia, 77
 gingivitis, 77
 Gitelman syndrome, 755
 hypokalemia, 911
 metabolic alkalosis, 924
 Glanzmann thrombasthenia, 457, 458
 Glasgow coma scale, 992, 992
 glaucoma, acute, 97
 head/facial pain, 207, 212
 gliadin, celiac disease, 821–822
 globin synthesis disorders, 400
 globulins, glomerular proteinuria, 844
 globus sensation, 802
 glomerular diseases/disorders, 865–878
 acute renal failure, 856
 hematuria, 876
 inflammatory diseases of, 856
 proteinuria, 843, 844–845
 urine collection and processing, 841
 glomerular filtration rate (GFR)
 acute renal failure, 852, 855
 chronic renal failure, 857
 evaluation and measurement, 840
 reduced, 852–865
 glomerulonephritides
 postinfectious, 866
 urinary sediment analysis, 847
 glomerulonephritis
 acute
 edema, 384
 hypercholesterolemia, 230
 chronic, 878
 edema, 384
 intrarenal kidney failure, 853
 poststreptococcal, 866, 867
 differential diagnosis, 867
 as example of acute nephritic syndrome, 867
 histology, 867
- laboratory findings, 867
 renal biopsy findings, 868
 rapidly progressive *see* rapidly progressive
 glomerulonephritis (RPGN)
 streptococcal angina, 138
 systemic lupus erythematosus, 181–182
 glomerulopathies, 865–878, 866
 asymptomatic urinary abnormalities, 875–876
 classification, 865
 clinical syndromes, 866
 definition, 865
 immunologic factors, 865–866
 nonimmunologic factors, 866
 primary
 chronic renal failure, 858
 nephrotic syndrome causes, 870
 secondary, 865
 chronic renal failure, 858
 nephrotic syndrome causes, 870
 glomerulosclerosis, nodular, 871
 glossopharyngeal neuralgia, 216
 glucagonoma, skin changes, 65
 glucocerebrosidase, Gaucher disease, 363
 glucocorticoids, secondary osteoporosis, 369
 glucocorticoid-suppressible aldosteronism, 739
 glucose *see* blood glucose
 glucose oxidase, glucosuria, 843
 glucosuria, 843
 glutamate dehydrogenase (GLDH), 768
 glutamic oxalacetic transaminase (GOT), laboratory parameter, 1022–1023
 glutamyl pyruvate transaminase (GPT), 1022–1023
 glutathione, 418
 enzyme deficiencies, 418
 gluten, celiac disease, 821–822
 gluten-sensitive enteropathy
 folic acid deficiency, 409
 iron malabsorption, 403
 glycol, lactic acidosis, 921
 glycoprotein IIb/IIIa-receptor antagonists, platelet inhibition, 450
 glycosylphosphatidylinositol (GPI), paroxysmal nocturnal hemoglobinuria, 415
Gnathostoma spinigerum, 135
 goiter, 483–485
 clinical classification, 27, 27
 flow-volume curve, 499
 intrathoracic, 597, 598
 nontoxic, 483
 causes, 483
 respiratory failure, 499
 gonadotropins
 laboratory parameters, 1042
 secondary hypotension, 753
 gonococcal infections
 disseminated, 125
 skin changes, 72
 urethritis, reactive arthritis, 343
 urinary tract, 882
 gonorrhea, peritonitis, 264
 Goodpasture syndrome, 561–563, 866, 874–875
 differential diagnosis, 875
 pulmonary infiltrates, 874
 Gordon syndrome, 914
 Gorham osteolysis, 363
 Gottron papules, 67
 gout, 345
 acute, 345
- bacterial arthritis, 125
 chronic tophaceous, 345, 345
 cystic defects, 345, 346
 ears, 98
 primary, 345
 secondary, 345
 skin changes, 65
 gout kidney, 345
 GPI-anchored proteins, 415
 Gradengio syndrome, 216
 graft-versus-host disease (GVH), scleroderma, 183
 Graham Steel murmur
 Eisenmenger syndrome, 702
 mitral stenosis, 657
 Gram-negative microorganisms
 acute nephritic syndrome, 866
 pneumonias, 526–529
 urinary tract infections, 846
 see also specific microorganisms
 Gram-positive microorganisms
 pneumonias, 524–526, 528–529
 urinary tract infections, 846
 see also specific microorganisms
 grand mal seizures, 984
 granulated casts, 849, 850
 granulocytopenia, 198–199
 acute leukemia, 422
 granulomatosis, septic, 191
 granulomatous hepatitis, fever, 116
 Graves disease, 485–486
 associated ophthalmology, 485–486, 486
 eyes, 93
 facial appearance, 91, 92
 onycholysis, 487
 pretibial myxedema, 487
 Gray platelet syndrome, 458
 greater saphenous vein incompetence, 331
 Groenblad–Strandberg syndrome, 65
 ground-glass opacities, desquamative interstitial pneumonia, 554
 growth hormone (GH)
 acromegaly, 743
 deficiency, 1002
 hypoglycemia, 1002
 resistance, 84
 secondary hypertension, 753
 growth hormone releasing hormone (GHRH), tall stature, 80
 Guanarito virus, 123
 guanethidine, quadrant syndrome, 305
 Guillain–Barré polyradiculitis, 311
 Gumprecht shadows, chronic lymphocytic leukemia, 430
 gums, 77
 gynecomastia, 88, 88–89
 causes, 89
 liver disease, 767
- H**
- Haemophilus influenzae* infection
 bacterial meningitis, 133
 pneumonia, 526
 hair, 72–73
 loss *see* alopecia
 ‘hair on end’ skull radiograph, 405, 405
 hairy cell leukemia, 199, 431, 431
 incidence, 423
 hairy leukoplakia, HIV infection, 165, 168
 halitosis, 99
 hallucinations, ischemic stroke, 997

- hamartomas, 569, 818
 hamartomatous polyps, 283
 Hamman–Rich syndrome *see* interstitial pneumonia
 hand–foot–and–mouth disease, 139
 hands, 90–91
 Hand–Schüller–Christian syndrome, 360
 Langerhans cell histiocytosis, 445
 hanta pulmonary syndrome, 124
Hantavirus pneumonia, 536
 haptoglobin, laboratory parameters, 1042–1043
 hard metal lung, 560
Hashimoto thyroiditis, 484
 acquired hypothyroidism, 488
 nontoxic goiter vs., 483
 headaches
 arteritis temporalis, 178
 categories, 206
 leptospirosis, 135
 metabolic etiologies, 213
 organic origin, 213
 symptomatic, 207, 207–213
 toxic etiologies, 213
 tumor, 211
 see also specific area/type
 head and neck region
 disorders, 476–489
 innervation areas, 209
 see also face; neck; specific diseases/disorders
 head/facial pain, 206–217
 differential diagnosis, 206–207
 onset of pain, 206
 medical history, 206
 neuralgia in head region, 215–217
 see also specific area/type
 head impulse test, 959
 health status *see* physical examination
 hearing impairment/loss, 98
 heart
 chest radiograph, 619
 examination, 612, 612–613
 orientation, 619
 palpation, 27, 612, 612
 sarcoidosis, 588
 size, 619
 sounds *see* heart sounds
 see also entries beginning cardio-/cardiac
 heart diseases/disorders
 fever, 155–156
 rheumatic *see* rheumatic heart disease
 skin changes due to, 69
 see also specific diseases/disorders
 heart failure
 acute, 628–633
 causes, 628, 628–629
 clinical manifestations, 628
 differential diagnosis, 629, 629
 symptoms, 629
 volume overload, 644
 cardiac dyspnea, 605, 607
 causes, 634–674
 cardiac arrhythmias, 674
 impaired contractile function, 669–673
 impaired ventricular filling, 655–668
 increased cardiac output vs., 654
 pressure overload, 634–635, 634–644
 volume overload, 644–655
 chronic, 633
 causes, 633
 decompensated, 629, 629
 differential diagnosis, 629
 clinical presentation, severe advanced, 611
 ears, 98
 edema, 382
 high output, 607, 654–655
 causes, 654–655
 clinical features, 654
 pathophysiology, 654
 left-sided, 605
 acute, 236
 cardiac dyspnea, 500, 605
 chronic volume overload, 644
 pulmonary arterial hypertension, 639
 signs and symptoms, 608
 right-sided, 605
 cardiac dyspnea, 501, 605
 chronic volume overload, 644
 mitral stenosis, 655
 signs and symptoms, 608
 tricuspid insufficiency, 653
 tricuspid stenosis, 659
 venous congestion, 609
 symptoms, 608–609
 syncope, 978
 systolic vs. diastolic, 607
 heart murmurs
 arterial occlusive disease, 316
 continuous
 central cyanosis, 683
 pulmonary atresia, 687
 systemic-to-pulmonary shunt, 685
 diastolic murmurs, 617–618
 central cyanosis, 683
 double inlet ventricle, 698
 schematic representation, 617
 tricuspid stenosis, 659
 types, 618
 ventricular septal defect, 701
 diastolic regurgitant murmur
 chronic aortic insufficiency, 646
 mitral stenosis, 657
 pulmonary insufficiency, 654
 midsystolic murmur, tricuspid atresia, 690
 systolic murmurs, 616–617
 atrial septal defect, 704
 atrioventricular septal defect, 695
 cyanosis, 683
 differentiation, 616
 double inlet ventricle, 696–697
 Ebstein anomaly, 706
 schematic representation, 617
 tetralogy of Fallot, 685
 types, 618
 ventricular septal defect, 701
 heart sounds, 613, 618
 differential diagnosis, 613–614
 mitral stenosis, 657
 second, 613, 614
 aortic stenosis, 640
 arterial hypertension, 635
 atrial septal defect, 704
 atrioventricular septal defect, 695
 central cyanosis, 683
 double inlet ventricle, 697
 pulmonary atresia, 687
 transposition of great arteries, complete, 692
 see also heart murmurs
 heavy-chain disease, multiple myeloma, 441
 Heberden nodes, osteoarthritis, 90, 349
 Hedinger syndrome, 826
Heerfordt syndrome, 480, 588
 height vertigo, 968
 Heinz bodies, 399
 erythrocyte enzyme deficiency, 418
 hemoglobinopathy, 417
 methemoglobinemia, 709
Helicobacter pylori infection
 abdominal ulcers, 276, 278
 detection, 277
 lymphoma, induced by, 440
HELLP syndrome, 792
 anemia, 416
 helminth infections
 meningitis, 135
 opportunistic, 169
 hemangioidosarcoma, 360
 hemangiopericytoma, 360
 malignant, 796
 hemangioma, 360
 hemangiopericytoma, 360
 hemangiosarcoma, 796
 hemangiopericytoma, 360
 hematemesis, 280
 hematologic disease
 abdominal pain, 272
 arthropathies, 348
 coagulopathies *see* coagulation disorders
 hemoglobinopathies, 417
 peripheral cyanosis, 708
 skin changes, 68–69
 see also specific diseases/disorders
 hematoma
 anterior spinal artery syndrome, 302
 paroxysmal finger, 327, 327
 pulmonary, 566
 retroperitoneal, unilateral leg pain, 309
 subdural *see* subdural hematoma
 transient hyperbilirubinemia, 763
 hematomelia, 302
 hematuria
 congenital disease with, 876–878
 glomerular vs. nonglomerular, 847
 urinary sediment, 848
 heme
 metabolism disorders *see* porphyrias
 molecule, 400
 synthesis, defects/disorders, 400
 porphyrias, 269
 see also hemoglobin
 hemicrania, chronic paroxysmal, 215
 hemicrania continua, 215
 hemiplegic migraine, 996
 familial, 214
 hemispheric strokes, 997
 hemobilia, 280
 hemochromatosis, 347–348, 788
 restrictive cardiomyopathy, 667
 hemodynamics
 Doppler echocardiography, 625
 peripheral artery disease, 317
 hemoglobin
 biosynthesis, 400, 709
 disorders of, 404–405
 electrophoresis, 418
 see also heme
 hemoglobin cyanosis, 678, 679–708
 associated findings, 679
 definition, 678
 pathophysiology, 679
 hemosuccus pancreaticus, 281, 282
 hemosynthesis inhibition, lead poisoning, 271
 Henderson–Hasselbalch equation, 918
 Henoch–Schönlein disease, 181
 purpura, 465, 465–466, 867
 diarrhea, 812
 heparin-induced thrombocytopenia (HIT), 469
 heparins, 463
 thrombocytopenia, 469
 hemoglobinopathies, 417
 see also specific types
 hemoglobinopathy M, 709
 hemoglobinuria
 paroxysmal cold, 414
 paroxysmal nocturnal, 415
 urine analysis, 841–842
 hemolysis
 acute tubular necrosis, 854
 diagnostic strategy, 419
 erythrocyte fragmentation, 415–417, 416
 fever, 194
 jaundice, 763
 oxidative stress, 413
 hemolytic anemia, 412–419, 413
 acquired, 413
 alloimmune, 414
 autoimmune, 414, 414
 clinical findings, 412
 congenital, 413
 definition, 412
 diagnosis, 412
 exogenous, 413–414
 sedimentation tube, 413
 skin discoloration, 53
 hemolytic crisis, prehepatitic jaundice, 145
 hemolytic–uremia syndrome (HUS), 416, 460, 470
 diarrhea, 148
 fragmentocytes, 875
 rapidly progressive glomerulonephritis, 875
 hemophagocytosis syndrome, 195
 hemophilias
 acquired immune-inhibitor, 461
 hemophilia A, 461
 pseudotumor, 456
 hemophilia B, 461
 hemopoietic neoplasia
 diagnosis, 422
 leukemia, 422–431
 myelodysplastic syndrome, 432–433
 myeloproliferative syndrome, 434–435
 pathogenesis, 422
 hemoptysis, 43, 495, 590
 causes, 43
 Goodpasture syndrome, 874
 pulmonary infarction, 543
 hemorrhage *see* bleeding
 hemorrhagic dengue fever, 175
 hemorrhagic diathesis, liver disease, 767
 hemorrhagic fever, 163
 renal syndrome, with, 124
 hemorrhagic telangiectasia, 655
 hemosiderosis, pulmonary, 561
 hemostasis
 defects in, 456
 laboratory methods, 451
 primary, 452
 disorders, 457–461
 laboratory methods, 451
 secondary
 disorders of, 461–463
 laboratory methods, 451
 hemosuccus pancreaticus, 281, 282
 hemosynthesis inhibition, lead poisoning, 271
 Henderson–Hasselbalch equation, 918
 Henoch–Schönlein disease, 181
 purpura, 465, 465–466, 867
 diarrhea, 812
 heparin-induced thrombocytopenia (HIT), 469
 heparins, 463
 thrombocytopenia, 469

- hepatic abscesses, 796
infections, 146, 151
hepatitis obliterans, 790
hepatic coma, 1004
hepatic encephalopathy, 780, 787
hepatic porphyria, 270
hepatitis
acute, laboratory findings, 768
alcohol-induced, 772, 778–779
abdominal pain, 272
liver swelling, 288
autoimmune, 778
autoantibodies, 770
chronic
definition and classification, 772, 773
laboratory findings, 768
skin changes due to, 69
viral, 772–777
differential diagnosis, 772
liver cirrhosis, 780
transmission, 773
see also specific infections
- hepatitis A, 773, 773–774
course, 775
serologic and molecular
findings, 774
- hepatitis B, 773, 774–776
clinical features, 776
course, 775
extrahepatic manifestations, 776
molecular screening methods, 776
polyarteritis nodosa, 179
- serology, 774, 774–776
transmission and epidemiology, 774
viral arthritis, 126
- hepatitis C, 773, 776–777
course, 775
membranoproliferative
glomerulonephritis, 867
- serologic and molecular
findings, 774
- hepatitis D, 773, 777
serologic and molecular
findings, 774
- superinfection, 775, 777
- hepatitis E, 773, 777
serologic and molecular
findings, 774
- hepatitis G, 777
- hepatitis viruses, 772–773, 773
serologic and molecular
findings, 774
*see also specific
viruses/infections*
- hepatobiliary disease,
clinical-chemical diagnosis, 768
- hepatoblastoma, 796
- hepatocellular carcinoma (HCC), 796, 797
- hepatocellular damage, laboratory
parameters, 768
- hepatojugular reflux (HJR), 27, 611
- hepatomegaly
Budd-Chiari syndrome, 790
cardiac dyspnea, 611
pharyngitis, 138
- hepatopulmonary syndrome, 639–640, 787–788
- hepatorenal syndrome, 787
- hepatosplenomegaly, 151
- hepatotoxic drugs, 146
- hereditary angioedema, 390
- hereditary colorectal carcinoma, 819, 819
- hereditary coproporphyria (HCP), 268, 270
- hereditary diseases, 21–22
see also specific diseases
- hereditary elliptocytosis, 417
- hereditary hemochromatosis
(HH), 788
iron indices, 788
- hereditary hemorrhagic
telangiectasia (HHT), 464
- hereditary intrinsic factor
deficiency, 406
- hereditary lymphedemaphaeox, 387
- hereditary neuropathy with
liability to pressure palsies
(HNPP), 308
- hereditary nonpolyposis
colorectal carcinoma (HNPCC), 819
- hereditary telangiectasis, 572, 572
- hereditary thrombophilia,
467–468
- Hermansky-Pudlak syndrome, 457, 458
- hernias
cardiophrenic angle, 578
palpation, 31
- herniated disk, 303
- heroin overdose
coma, 1007
pulmonary edema, 632
- herpangina, common cold, 139
- herpes genitalis, AIDS, 166
- herpes simplex virus infection, 122
acute encephalitis, 136
clinical manifestations, 123
encephalitis, coma, 995
skin presentation, 57
- herpesvirus infections, 122
clinical manifestations, 123
- herpes zoster, 58, 58, 122
lymph node enlargement, 128
pain, 273
radiculitis, 304
- herpes zoster oticus, 122
- heterochromia, 96
- hexose monophosphate shunt, 191
enzyme deficiencies, 418
- hiatus hernia, 283, 578
dysphagia, 803
- hiatus leukemicus, 424
- hibernating myocardium, 673
- hiccups, 47
- 'hidden agenda,' patients, 5, 33, 36–37
- high-altitude edema, 390
- high-altitude pulmonary edema, 632
- high-density lipoprotein (HDL)
cholesterol, 1043
- high grade atrioventricular block, 717
- high lumbar radicular pain, 310
- hilar enlargement, 582–599
bilateral, 583, 583–590
causes, 582
clinical features, 582
Kaposi sarcoma, 561
mediastinum widening *see*
mediastinum
unilateral, 590–596
- Hirschsprung disease, 832
- hirsutism, 73
- histamine
chronic renal failure, 860
urticaria pigmentosa, 55
- histiocytic tumors, 360
- histiocytosis, 445
malignant, 445
non-Langerhans cell, 445
- histiocytosis X, 360, 445, 564
- Histoplasma capsulatum*, 170
- histoplasmosis, 170, 539, 539
- history-taking *see* medical history
- HIV-1 RNA determination, 166
- HIV infection, 163–166
acute, 163–164
associated diseases, 165, 166
tuberculosis, 144
asymptomatic, 164
- candidal stomatitis, 168
- cardiomyopathy, 669
- clinical manifestations, 164
- differential diagnosis, fever, 111
- encephalitis, 137
- hairy leukoplakia, 168
- lymphoepithelial cysts, 130
- macular exanthem, 58
- pulmonary hypertension, 637
- pulmonary infiltrates, 540
- skin, 72
- symptomatic, 164–166
- vitamin B₁₂ deficiency, 407
- see also AIDS*
- HLA-B27, spondylarthropathies, 341
- HLA-DR3, Graves disease, 485
- HLA-haplotype DQB1*0602,
narcolepsy, 1009
- hoarseness, 102
pulmonary hypertension, 636
- Hodgkin cells, 435
- Hodgkin disease, 435–437, 437
Ann Arbor classification, 437, 438
B symptoms, 436
clinical symptoms, 436
diagnosis, 436–437
fever, 194
hilar enlargement, 589,
589–590
- histology, 437
- mediastinal lymph nodes, 436
- nodular sclerosis, 437
- pulmonary nodules, 568
- stages, 437
- holocephalic pain, 215
- holodiastolic reflux, chronic aortic
insufficiency, 647
- holosystolic murmur, tricuspid
atria, 690
- holosystolic regurgitant murmur
chronic mitral insufficiency,
650
mitral stenosis, 657
- Holter monitoring
arrhythmias, 715
- syncope, 974
- homocysteine
hereditary thrombophilia, 468
laboratory parameters, 1044
- homocystinuria, 79
- homogentisic acid
alkaptonuria, 65
ochronosis, 347
- honeycomb lung, 551, 552, 565
- hordoeulum, diabetes mellitus, 94
- hormone-secreting tumors,
diarrhea, 826
- Horner syndrome, 94, 95, 567, 596
dysphagia, 803
- head pain, 215
- unilateral arm pain, 307
- Wallenberg syndrome, 301
- 'hot nodules'
nontoxic goiter, 483
toxic adenoma, 486
toxic multinodular goiter, 488
- hourglass nails, 28
- hourglass stomach, 277, 278
- human chorionic gonadotropin
(HCG), 1044
- human herpesvirus 6 infection,
122–123
clinical manifestations, 123
- human herpesvirus 8, 168
- humoral immunodeficiency, 168,
187, 189
- hunger edema, 384
- hungry bone disease, 933
- Hunter glossitis, 78
pernicious anemia, 406, 407
- Hunt neuralgia, 217
- hyaline casts, urinary sediment,
849, 850
- hydralazine, drug-induced lupus,
181
- hydrocarbons, coma, 1008
- hydrocephalus
acute malabsorptive, 209
acute occlusive, 209
- hydrogen cyanide, coma, 1008
- hydrogen ions, acid-base
metabolism, 915
- hydrogen sulfide, coma, 1008
- hydronephrosis, 884–885
bilateral, 884
unilateral, 884
- hydrophilic mucopolysaccharides,
edema, 384, 385
- hydrorhaphis, 710
- b-hydroxybutyric acid,
normochloremic metabolic
acidosis, 920
- 5-hydroxyindole acetic acid
(5-HIAA), carcinoid syndrome,
826
- 21-hydroxylase antibodies,
Addison disease, 752
- 11 b-hydroxysteroid
dehydrogenase type 2, steroid
biosynthesis, 908
- 5-hydroxytryptamine (serotonin),
carcinoid syndrome, 826
- hyperaldosteronism,
hypokalemia, 911
- hyperamylasemia, 292
- hyperamylasuria, 292
- hyperbilirubinemia, 763
hereditary isolated
nonhemolytic, 772
isolated, nonhemolytic,
771–772
unconjugated, 766, 771–772
- hypercalcemia, 934–935, 935
chronic renal failure, 860–861
diagnosis, 937
differential diagnosis, 936
familial hypocalciuric, 944
hyperparathyroidism, 375
membrane excitability, 930
- hypercalcinuria, 586
- hypercalciuric hypocalcemia,
familial, 932
- hypercapnia
chronic
chronic respiratory
insufficiency, 925
metabolic alkalosis, 924
respiratory alkalosis, 928
- hyperchloremic acidosis, with
normochloremic acidosis, 920
- hyperchloremic metabolic
acidosis, 920
with normal serum anion gap,
921–922
- hypercholesterolemia, 229
screening, 34
- hyperchylomicronemia, 226, 227
- hypercortisolism, secondary
osteoporosis, 369
- hyperemesis gravidarum,
jaundice, 790
- hyperemic conjunctiva, 680, 682
- hypereosinophilic syndrome, 547
- hyperfiltration, focal segmental
glomerulosclerosis, 870

- hypergammaglobulinemia, 584
 eosinophilic fasciitis, 186
 polyclonal, autoimmune hepatitis, 778
 hyperglycemia, diabetes mellitus, 40
 hyperglycemic hyperosmolar nonketotic coma, 1002–1003
 hypergranular promyelocytic leukemia, **426**
 hyperhomocysteinemia hereditary thrombophilia, 468
 obliterating arteriosclerosis, 319
 hyperhydration chronic renal insufficiency, 862
 prerenal kidney failure, 852
 hyperimmunoglobulinemia D syndrome (HIDS), 192–193
 differential diagnosis, **192**
 hyperkalemia, 862, 912–914
 chronic renal insufficiency, 862, 913
 clinical features, 909
 definition, 909
 diagnosis, 909, 914
 differential diagnosis, **913**
 ECG changes, 862, 909, 909
 excessive potassium intake, 912
 familial periodic paralysis, 912
 mineralocorticoid deficiency, 914
 reduced distal sodium delivery, 913–914
 reduced potassium excretion, 913–914
 in renal failure, **862**
 renal tubular acidosis, 921, 922
 signs and symptoms, **909**
 transcellular shifts, 912
 hyperkinetic heart syndrome, 655
 hyperlipidemia, **229**
 alcohol-induced hepatitis, 779
 familial, 271
 nephrotic syndrome, 868, 869
 transient, abdominal pain, 271
 hyperlipoproteinemia, 226
 hypermagnesemia, 944–945
 differential diagnosis, **943**
 signs and symptoms, **942**
 hypermenorrhea, anemia, 402
 hypernatremia, 905–906
 differential diagnosis, **904**
 hypernephroma, fever, 194
 hyperosmolar coma, 1002–1003
 differential diagnosis, vs., **1003**
 hyperosmolarity, 896
 dehydration, **1060, 1061**
 hyperhydration, **1061**
 hyperostosis, 363–364
 hyperostosis frontalis interna, 364
 hyperparathyroidism, 375, 375–376, 934–935
 acute, fever, 193
 chronic renal failure, 860–861
 differential diagnosis, **936**
 hypocalcemia, 934, 934
 hypophosphatemia, 939
 hypotension, 751
 primary, 375
 secondary, 860
 differential diagnosis, **376**
 osteomalacia, 373
 vitamin D deficiency, 933
 vitamin D excess, 935
 hyperphosphatemia, 941
 chronic renal failure, 860
 definition, 937
 diagnosis, 941
 differential diagnosis, **939**
 iron malabsorption, 402
 signs and symptoms, **938**
 vitamin D deficiency, 933
 hyperpigmentation, 54–56
 causes, **55**
 oral cavity, 77
 hyperplasia, nodular regenerative, 786
 hyperplastic nodules, nontoxic goiter, 483
 hyperprolactinemia, secondary osteoporosis, 370
 hyperreninemic hypoaldosteronism, 914
 hypersegmented neutrophils, 407
 hypersensitivity pneumonitis, 556–557
 hypersensitivity vasculitis, 181
 hypersomnia, 984, 1008–1010, 1010
 clinical features, 1008–1009
 diagnostic confirmation, 1010
 differential diagnosis, 1010
 following coma, 989, 990
 hypersplenism, 460
 hypersynchronization, syncope, 954
 hypertension acute cardiac decompensation, 629
 aortic dissection, 245, 267
 arterial, 635
 chronic stable angina pectoris, 225
 screening, 34
 atherosclerosis risk, 226
 cardiac output, increased, 745
 chest radiograph, 620
 classification, 732, **732**
 clinical examination, 734
 definition, 732, **732**
 diagnostic management, 732–734
 drug-induced, 746
 encephalopathy, coma, 995
 endocrine disorders, associated, 737–744
 genetic forms, 744, **744**
 gout, 345
 hemorrhages, 997
 hypokalemia, 911
 idiopathic, 635–636
 thrombus formation, 640
 laboratory testing, 734
 malignant, anemia, 416
 management, **733**
 medical history, 734
 membranous glomerulonephritis, 870
 monogenetic forms, 744
 pregnancy, 746, **746**
 primary, **733, 734**
 pulmonary see pulmonary hypertension
 pulmonary edema, 630, 631
 recommended interventions, 732
 renal insufficiency, 859
 renovascular see renovascular hypertension
 risk assessment, 732, 734, **734**
 screening, 34
 secondary, **733, 735–746, 746**
 clinical examination, 733
 diagnostic studies, 733–734
 endocrine forms, 733
 evaluation, 732–734
 history, 733
 laboratory tests, 733
 preliminary analysis, 733
 toxic agent-induced, 746
 hypertensive crisis, arterial hypertrophy, 635
 hypertensive heart, 621, 664
 hyperthermia, 111
 malignant, 111
 hyperthyroidism, 485–488
 causes, **483, 485**
 diarrhea, 825
 edema, 384
 fever, 193
 high output heart failure, 655
 hypotension, 751
 secondary osteoporosis, 369
 skin changes, 66
 thyrotoxic crises, 193
 toxic multinodular goiter, 487
 hypertonic hyperhydration, edema, 385
 hypertriglyceridemia, **229**
 hypertrophic cardiomyopathy, 662–664, **663**
 clinical features, 664
 differential diagnosis, 664
 dilated, 663
 ECG, 665
 etiology and pathogenesis, 662–664
 signs and symptoms, **664**
 hypertrophic obstructive cardiomyopathy (HOCM) ECG, 665
 murmur, 616
 schematic representation, 664
 syncope, 978
 tachyarrhythmias, 976
 hypertrophic osteoarthropathy, 348, 363–364
 nail changes, 75
 see also clubbing
 hypertrophic subpulmonic stenosis, 642
 hypertropic cardiomyopathy, murmur, 616
 hyperuricemia, gout, 345
 hyperuricosuria, 886
 hyperventilation, 502, 993
 hyperventilation tetany, 985
 hyperviscosity syndrome, 444 coma, 1005
 hypervolemic hyponatremia, 906 differential diagnosis, **904**
 hypervolemic hyponatremia, 902, **902, 904**
 hypnagogic hallucinations, 984
 hypnic headache, 215
 hypnotics, coma, 1007
 hypoalbuminemia calcium levels, 930
 nephrotic syndrome, 868
 hypoaldosteronism Addison disease, 752
 genetic variants, 914
 hypo-a-lipoproteinemia, 227
 hypobaric hypoxia, 501
 hypocalcemia, 932–934
 acute pancreatitis, 292
 diagnosis, 933
 differential diagnosis, **932**
 familial hypercalcic, 932
 membrane excitability, 930
 hypocalcium, hypotension, 755
 hypochromia anemia, 397
 iron deficiency anemia, 401
 microcytic anemia, 373
 renal anemia, 410
 thalassemia, 404–405
 hypogammaglobulinemia acquired, 189
 celiac disease, 822
 hypogastric pain, differential diagnosis, 264
 hypoglycemia, 1000
 alcohol-induced coma, 1007
 coma see below
 differential diagnosis, **1000**
 drug-induced, 1002
 fasting, 1001–1002
 hypoglycemic coma, 999–1002
 adrenergic manifestations, 1000
 clinical features, 999–1000
 differential diagnosis, 1001
 neuroglycopenic manifestations, 1000
 without diabetes mellitus, 1001–1002
 hypogonadism, 43
 secondary osteoporosis, 369
 hypogonadotropic hypogonadism, 755
 hypokalemia anorexia nervosa, 755
 clinical features, 909
 definition, 909
 diagnosis, 909, 912
 differential diagnosis, **910**
 ECG changes, 909, 909
 enhanced potassium loss, 911
 familial periodic paralysis, 911
 hypertension, 911
 hypotension, 755
 primary aldosteronism, 738
 reduced potassium intake, 910
 signs and symptoms, **909**
 transcellular potassium shifts, 911
 with normal/reduced blood pressure, 911
 hypomagnesemia, 942–943
 definition, 942
 diagnosis, 944
 differential diagnosis, **943**
 hypokalemia, 911
 hypotension, 755
 signs and symptoms, **942**
 hyponatremia, 901–904
 Addison disease, 752
 cardiac dyspnea, 618
 diagnosis, 903
 euvolemic, 902, **902, 903–904**
 causes, 903
 differential diagnosis, 903–904
 volume expansion, 900
 hypo-osmolar hyperhydration, **1060**
 hypoparathyroidism, 932–933
 diarrhea, 825
 differential diagnosis, **932**
 hyperphosphatemia, 941
 nail changes, 74
 hypoparathyroidism, skin changes, 66
 hypophosphatasia, osteomalacia, 373
 hypophosphatemia, 939–940
 definition, 937
 diagnosis, 940
 differential diagnosis, **939**
 hemolytic anemia, 413
 hyperparathyroidism, 376
 osteomalacia, 373
 signs and symptoms, **938**
 hypophosphatemic vitamin D-resistant rickets, 940
 hypophyseal insufficiency, hereditary hemochromatosis, 788
 hypopigmentation, 54
 Addison disease, 54, 66, 752
 postinflammatory, 54
 hypopituitarism causes, 754
 hair loss, 73
 skin color, 53
 hypoplastic myelodysplastic syndrome, 411
 hypopnea, 505
 assessment, 505
 hypoproteinemic edema, 383–384
 clinical features, 383
 diagnosis, 383
 etiology, 383–384

- hyporegenerative normochromic normocytic anemia, 409–412, **410**
classification, 409
- hyporegenerative situations, 409
- hyporeninemic
 hypoaldosteronism, 914
- hypotension
 acute ischemic tubular necrosis, 854
 cardiac, 756
 definition, 750
 endocrine, **750**, 750–751
 associated disturbances, 755
 genetic forms, 755–756, **756**
 hypovolemic, 757
 myocardial infarction, in course of, 240
 neurogenic, 756
 orthostatic dysregulation, 979
 portal see portal hypertension
 primary, 750
 renal, 756
 secondary, **750**, 750–756
 toxic and drug-induced, 757
- hypothalamic-pituitary-adrenal axis, Cushing syndrome, 741
- hypotheses, first working, 7
- hypothyroidism, 488–489, 489
acquired, 488–489
anemia, 410
causes, 488, **488**
definition, 488
facial appearance, 91, 92
hypercholesterolemia, 230
hypotension, 751
neonatal, 488, **488**
primary, 488, **488**
screening, 36
secondary, 488
 causes, **488**
 symptoms, 489
skin changes, 66
tertiary, 488, **488**
- hypotonic hyperhydration, 385
- hypotonic hyponatremia, **902**
- hypotrichosis, jaundice, 767
- hypovolemia, 898
 hypotension, **750**
 nephrotic syndrome, 869
- hypovolemic hypernatremia, 905
- differential diagnosis, **904**
- hypovolemic hyponatremia, 901, **902**
causes, 902
diuretics, 902–903
- hypovolemic shock, 633
- hypoxia
 cardiac dyspnea, 607
 pulmonary emphysema, 512
 respiratory alkalosis, 928
 respiratory failure, 497
- hysterical state, 985
- I**
- iatrogenic disorders
 arterial disease, 320
 atrioventricular fistulas, high output heart failure, 655
 Cushing syndrome, 740
 hypotension, 750
 plexus lesion, unilateral leg pain, 309
 pneumothorax, 250
 secondary adrenocortical insufficiency, 753
 see also drug-induced diseases/disorders
- idiopathic calcification, **64**
- idiopathic cranial hypertension, 211
- idiopathic epilepsy, 981
- idiopathic headache, 213–215
- idiopathic hirsutism, 73
- idiopathic hypersomnia, 1010
- idiopathic hypertension, 734
- idiopathic hypotension, 750
- idiopathic intestinal pseudoobstruction, 262
- idiopathic kyphoscoliosis, 502
- idiopathic mediastinal fibrosis, 599
- idiopathic pericarditis, 242
- idiopathic portal hypertension, 786
- idiopathic primary glomerulopathy, 865
- idiopathic pulmonary fibrosis (IPF), 550–551, 552
- idiopathic pulmonary hemosiderosis, 561
- idiopathic thrombocytopenic purpura (ITP), 454, 459
 Bernard-Soulier syndrome, differentiation, 457
- idiopathic ventricular tachycardia, 727, 727, 978
- ileal disease, bile acid malabsorption, 824
- ileal resection
 bile acid malabsorption, 824
 short bowel syndrome, 824
- ileocecal resection, small bowel bacterial overgrowth, 824
- ileocecal tuberculosis, 817
- ileus, 260–263
 bowel obstruction, 817
 mechanical, 260–262
 paralytic, 262–263
- iliac artery
 aneurysms, 323
 obstruction, 319
 claudication, 314
- iliofemoral vein, acute deep vein thrombosis, 330
- illicit drugs, coma, 1005, **1006**
- imaging
 acute pancreatitis, 292
 neck masses, 476
 see also specific modalities
- Imerslund-Graesbeck syndrome, 407
- immobilization, long-term, nephrolithiasis, 935
- immobilizing vertigo, 955
- immune complexes, 17
diseases, 22
- immune-inhibitor hemophilia, 461
- immune mediated diseases, 17
 autoimmune see autoimmune diseases
 see also specific diseases
- immune-mediated enteropathy, celiac disease, 821–822
- immunocompromised patients
 diarrhea, 147
 fungal infection, 537–539
 infections, 167–169
 non-Hodgkin lymphoma, 438
 pneumonia, 141
 see also AIDS; HIV infection
- immunodeficiency
 cellular, 168, **187**, 190
 classification, 187–188, **187–188**
 humoral, 168, **187**, 189
- immunoglobulin(s)
 laboratory parameters, 1044–1046
 nephrotic syndrome, 869
 see also specific isotypes
- immunoglobulin A (IgA)
 deficiency, 191
 selective, 189
- laboratory parameters, 1044–1045
- nephropathy, 876, 877
- immunoglobulin D (IgD),
 hyper-IgD syndrome, 192
- immunoglobulin E (IgE),
 laboratory parameters, 1045–1046
- immunoglobulin G (IgG), 465
 laboratory parameters, 1044–1045
 poststreptococcal
 glomerulonephritis, 867
- immunoglobulin M (IgM), 465
 laboratory parameters, 1044–1045
- impaired consciousness, 951–953
 clinical forms, **953**
- impotence, **48**, **48**
- 'inborn errors of metabolism,' 20
- incarcerated inguinal hernia, 262
- incidentalomata
 pheochromocytoma, 740
 prevalence, 742
- individually adapted diagnosis, 5
- indocyanine green (ICG) clearance testing, 769
- indolent lymphoma, 438
- industrial toxins, hemolytic anemia, 413
- infarction, spleen, 267
- infections
 acute leukemia, 422
 ascites, 784
 bacterial see bacterial infections
 chronic renal insufficiency, 863
 diarrheal disease, 811
 fungal see fungal infections
 lymphadenopathy, 446
 opportunistic see opportunistic infections
 parasitic see parasitic diseases
- postoperative
 special patient groups, fever, 111
 see also specific infections
- pulmonary edema, 632
- skin changes due to, 71–72
- viral see viral infections
 see also specific infections
- infectious diseases, 16
abdominal pain, 272
fever, 114
petechiae and purpura, 116
rash, presenting with, **117**
 see also specific diseases
- infectious lymphadenitis, 477
- infectious mononucleosis, 138–139
- inferior sinus venous defect, 703
- inferior vena cava,
 hypoproteinemic edema, 383
- infertility, 42–43
- inflammation/inflammatory disorders, 16, 465–466
 concomitant arthralgias, 465
edema, 388–389
giant cell arteritis, 320
- intestinal infections, 147
- obliterating arteriosclerosis, 319
- pseudotumors, 130
- pulmonary nodules, 569–570
- stenosis, 803
- thromboangiitis obliterans, 320
- Wegener disease, 873
- see also specific diseases/disorders
- influenza, 140
- influenza pneumonia, 536
- influenza vaccination, 33–34
- infundibular pulmonary stenosis, ventricular septal defect, 701, 701
- inguinal compression
 neuropathies, unilateral leg pain, 310
- inheritance
 autosomal dominant, 21–22
 autosomal recessive, 22
- inner ear, perilymph fistula, 971
- insomnia, 46, 990
 clinical features, **46**
- insulin
 autoantibodies, hypoglycemia, 1002
 deficiency, ketoacidotic coma, 1002
- hyperglycemic hyperosmolar nonketotic coma, 1002
- hypophosphatemia therapy, 940
- laboratory parameters, 1035
- potassium shifts, 907
- see also diabetes mellitus
- insulin-like growth factor 1 (IGF-1), 743
- insulinomas, fasting
 hypoglycemia, 1001
- insulin receptor defects, 39
 hypertension, 744
- insulin resistance, 38
 acromegaly, 743
 see also metabolic syndrome
- intercostal neuralgia, 273
- intercostal pain, 251
- interleukin-6 (IL-6), anemia, 404
- intermediate atrioventricular septal defect, 694
- intermittent claudication, 314–315
 posture for optimal resolution, 314
- intermittent fever, 196, **196**
- intermittent porphyria, acute, 268, 270
- International Headache Society criteria, migraine without aura, 213
- international normalized ratio (INR), 1058
- International Prognostic Scoring System (IPSS), myelodysplastic syndrome, 433, **433**
- internuclear ophthalmoplegia (INO), 962
 etiology, **964**
- interphalangeal joints, rheumatoid arthritis, 338
- interstitial edema, acute, cardiac dyspnea, 500
- interstitial nephritis, urinary findings, **879**
- interstitial pneumonia, 145
 acute, 553–554
 collagen vascular disease associated, 554–555, 555
- idiopathic, 549–554
- lymphoid, 554
- nonspecific, 551, 553
- toxic and drug-induced, 556
- see also diffuse parenchymal lung disease (DPLD)
- interstitial pneumonitis, *Pneumocystis carinii*, 167
- interstitial pulmonary edema, 622, 630
- intestinal pseudo-obstruction syndrome, 831
- intestinal torsion, mechanical ileus, 261
- intestinal tuberculosis, 149
- intoxication-induced coma, 1005–1008
 causes, **1006**
 clinical features, 1005–1006
- diagnosis, 1005–1006

intoxications, 23
 abdominal pain, 268
 epilepsy, 981
 odor, 99
 skin changes, 68
 intra-abdominal abscesses, 150
 intra-abdominal infections, 149
 intracardiac echocardiography, 626
 intracellular buffer systems, 915–916
 intracellular volume (ICV), 895
 intracerebral hemorrhage, 208, 997–998, 998
 intracranial hypertension, 211
 intracranial hypotension, 211
 intrahepatic cholestasis, 765, 790–792, 794
 classification, 791
 severe infectious diseases, with, 792
 intrahepatic postsinusoidal portal hypertension, 786
 intrahepatic pregnancy-related cholestasis, 790
 intrahepatic presinusoidal resistance, 785
 intrahepatic sinusoidal resistance, 786
 intrapulmonary intra-alveolar edema, 609
 intrarenal diseases, 853
 intrarenal kidney failure, 853
 intrathoracic goiter, 597, 598
 intravasal catheter infections, 111
 intravenous iron substitution, 403
 intrinsic asthma, 507
 intrinsic factor, 406
 iodine
 deficiency, nontoxic goiter, 483
 requirements, 483
 ion transport defects, 417
 iridocyclitis, 96
 head/facial pain, 212
 iris, 96
 head/facial pain, 212
 iron
 daily cycle, 401
 deficiency see iron deficiency
 formulations, melena, 281
 laboratory parameters, 1046
 metabolism, 400
 disorders, 400, 404
 negative balance, 400
 reabsorption, 400
 requirement, 400
 iron deficiency
 anemia see iron deficiency anemia
 anemia
 cheilosis, 404
 dietetic, 402
 renal anemia, 410
 symptoms, 403
 iron deficiency anemia, 400–403
 atrophic tongue, 403
 bleeding diathesis, 454
 causes, 404
 diagnosis, 401
 gastric carcinoma, 280
 nail changes, 74
 skin presentations, 69
 irritable bowel syndrome (IBS), 284–285
 abdominal pain, 273
 clinical features, 284–285
 definition, 284
 diagnosis, 285
 differential diagnosis, 285
 pain localization, 285
 pain misinterpretation, 285
 irritable stomach, 276
 ischemic brain lesions, 208–209

stroke, 997
 ischemic cardiomyopathy, 673, 673
 ischemic chest pain, differential diagnosis, 221
 ischemic colitis, 815
 ischemic edema, 390
 ischemic papillary muscle rupture, 632
 ischemic rest pain, 315
 ischemic stroke, 997
 ischemic tubular necrosis, acute, 854
 isolated noncompaction of left ventricle, 670, 672
 isoniazid, siderochrestic anemia, 405
 isosthenuria, 843

J

Jacksonian motor seizure, 981–982
 Janeway lesions, endocarditis, 69
 Japanese encephalitis virus, 137
 jaundice, 145–146, 763–799
 causes, 765
 clinical classification, 765–766
 clinical symptoms, 766–767
 fever, 145–146
 hemolytic anemia, 412
 pharyngitis, 138
 sclerae, yellow, 95
 skin color, 54
 venous congestion, 611
 definition, 763
 differential diagnosis, 763–771, 771–797
 imaging techniques, 771
 immunoglobulins, 769
 laboratory parameters, 768–770, 1027
 medical history, 766
 obstructive, 794, 795
 pancreatic carcinoma, 296
 transaminase levels, 768
 pathophysiology, 763–766
 posthepatic, 146
 postoperative, 792
 during pregnancy, 790–792, 792
 quantitative liver function tests, 769
 urinary findings, 769
 jejunum
 bacterial culture, 824
 distension, dumping syndrome, 284
 peptic ulcer, 284
 Jo-1 antibodies, 186–187
 joint inflammation
 anemia, 403
 calcium pyrophosphate, 345
 rheumatic, 338–348
 arthropathies associated with metabolic disease, 345–346
 rheumatoid arthritis, 338–340
 spondylarthropathies, 341–344
 joint prostheses infections, 126–127
 joints
 arthritis see arthritis
 examination, 31–32
 inflammation see joint inflammation
 pain see arthralgia
 sarcoidosis, 588
 swelling, rheumatoid arthritis, 338
 systemic lupus erythematosus, 181

tuberculosis, 126
 judgment, false diagnoses and, 10
 jugular vein
 edema, heart failure, 382
 filling, 610
 pulse, 610
 junctional rhythms, 719
 ECG presentation, 719
 Junin virus, 123
 juvenile arthritis, 340
 chronic oligoarticular, 340
 juvenile bone cyst, 362
 juvenile nephronophthisis complex, 888

K

Kaposi sarcoma, 561, 563, 817
 AIDS, 166
 gums, 77, 77
 human herpes virus 8, 168
 Kartagener syndrome, 515
 Kasabach–Merritt syndrome, 796
 high output heart failure, 655
 Katayama fever, 173
 Kawasaki disease, 129
 Kawasaki syndrome, 57
 Kayer–Fleischer corneal ring, 788, 789
 keratitis, 97
 ketoacidosis, fasting, 921
 ketoacidotic coma, 1002
 hyperosmolar coma vs., 1003
 ketoacidotic decompensation, 1002
 ketones, 843
 ketonuria, 843
 kidney(s)
 acid excretion regulation, 916–917
 altered function
 diagnostic procedures, 839
 laboratory findings, 839
 pathological sonographic findings, 882–890
 serologic examinations, 839–840
 symptoms and signs, 839–840
 ammonium excretion mechanisms, 916
 biopsy
 acute renal failure, 857
 poststreptococcal glomerulonephritis, 868
 calcium loss, 934
 calcium retention, 935
 chloride loss, 923
 electrolyte excretion, 895
 endocrine functions, chronic renal failure, 857
 enlargement, autosomal dominant polycystic kidney disease, 888
 failure, prerenal, 852–853
 causes, 852
 diagnostic difficulties, 852
 palpation, 31
 phosphate loss, 940
 phosphate retention, 941
 polyarteritis nodosa, 179
 potassium excretion, 908, 909
 size determination, 864
 sodium retention, 899
 transplantation
 chronic renal failure, 857
 hypertension following, 735
 see also entries beginning nephro-/glomerular/renal
 kidney diseases, 840
 abscess, 883
 urinary tract infections, 883
 anemia, 409–410

bilateral, 735
 calculi, 885
 cancer, 888–890
 diagnosis, 889
 pulmonary metastasis, 571
 ultrasound, 889
 see also renal cell carcinomas
 chronic, secondary hypertension, 732
 cysts
 acquired cystic disease, 864
 sonographic findings, 887–888
 urinary tract infections, 883
 eclampsia, 985
 hypertension, 735, 735–737
 hypoperfusion, hypovolemia, 898
 malaria, 172
 osteodystrophy
 chronic renal failure, 860–861
 mechanisms, 861
 prevention, 861
 osteopathy, osteomalacia, 372
 unilateral, 735
 see also specific diseases
 Kiel classification, non-Hodgkin lymphoma, 439
 Kikuchi–Fujimoto disease, 130
 Kimmelstiel–Wilson glomerulosclerosis, 326, 871
Klebsiella pneumoniae, 526
 Kleine–Levin syndrome, 984
 Klinefelter syndrome, 21, 80, 81
 hair loss, 73
 Klippel–Trénaunay syndrome, 80, 80
 knee trauma, osteonecrosis, 366
 knowledge, false diagnoses and, 10
 Koenen tumors, 69, 70
 Köhler disease, 365
 Köhlmeier–Degos syndrome abdominal pain, 272
 skin changes, 272
 koilonychia, 74
 Koplik spots, 122
 Kozhevnikov epilepsy, 983
 Kümmel–Verneuil disease, 365
 Kussmaul respiration, 28
 hyperosmolar coma, 1003
 ketoacidotic coma, 1002
 Kussmaul sign, 610
 Kveim reaction, 589
 kwashiorkor, 384
 kyphoscoliosis, 502, 502
 cyanosis, 683

L

L3 associated pain syndrome, 309
 L4 syndrome, 309
 L5 syndrome, 309
 laboratory techniques, 6
 laboratory tests
 myocarditis, 673
 parameters, 1017
 pulmonary edema, 631
 pulmonary hypertension, 637–638
 restrictive cardiomyopathy, 666
 see also specific tests/substances
 labyrinth
 arterial blood supply, 958
 injury, traumatic vertigo, 971
 lesions, 970
 labyrinthitis, 98
 lactase deficiency, 820–821
 acquired, 820
 secondary, short bowel syndrome, 824

- lactate
 laboratory parameters, 1046–1047
 lactic acidosis, 921
 lactate dehydrogenase (LDH), 591
 acute coronary syndrome, 239
 laboratory parameters, 1047
 pleural fluid, 247
 lactic acidosis, 921
 coma, 1003–1004
 differential diagnosis, **1003**
 type B, 921
 lactose intolerance, secondary, 821
 lactose tolerance test, 820
 lacunar infarcts, head pain, 208–209
 lamina dura,
 hyperparathyroidism, 375
 Landouzy sepsis, 144
 Langerhans cell histiocytosis, 360, 445, 564
 language disturbances, 100–102
 laparoscopy, jaundice, 771
 Laplace law, 634
 large bowel
 ileus, 261
 obstruction, colonic carcinoma, 818
 stenosis, diverticulosis, 820
 see also anorectum; colon;
 entries beginning colorectal
 large-vessel vasculitis, Takayasu arteritis, 320
 Laron dwarfs, 84
 larynx diseases, 506
 Lasègue sign, 304
 radiculopathy, 303
 Lassa fever, 123
 late-diastolic murmurs, 618
 late dumping syndrome, 284, 1001
 latent syphilis, 161
 lateral cervical cysts, 476, 477
 lateral cervical fistulae, 476
 lateral recess obstructions,
 radicular compression syndromes, 304
 Lawrence–Moon syndrome, 83, 86
 lead anemia, 271
 leading loop syndrome, 284
 lead poisoning
 abdominal pain, 268
 erythropoietic porphyria, 271
 left atrial enlargement, chest radiograph, 620
 left bundle branch block
 coronary artery occlusion, 234
 transmural ischemia, 236
 left common iliac vein
 compression, 330
 left hypochondriac abdominal pain, differential diagnosis, **259**
 left iliac fossa pain, differential diagnosis, **259**
 left-to-right shunt, double inlet ventricle, 696
 left ventricle see ventricle, left
Legionella pneumonia, 527, 528
Legionella pneumophila, 142
 Legionnaires disease, 142, 527
 legs
 bilateral arm/leg pain, 310–311
 Déjerine–Roussy syndrome, 308
 dermatomes, 309
 Fabry disease, 311
 Lyme borreliosis, 311
 polyneuropathy, 311
 radicular leg pain, 309
 ulcers, causes, **63**
 unilateral leg pain, 308–309
 diabetic neuropathy, 309–310
- inguinal compression
 neuropathies, 310
 mononeuropathy, 310
 topical neurological syndromes, 308–310
 unilateral neurogenic leg pains, 308–310
 leiomyoma, 803
 stomach, 282
 leiomyosarcoma, gastric carcinoma, 280
Leishmania donovani, 172–173
 leishmaniasis, 172–173
 Lemierre syndrome, 130–131
 lens, 96
 lepromatous leprosy, 120
 leprosy, 120
Leptospira interrogans, 162
 leptospirosis, 162
 meningitis, **132**, 135
 lesions, space-occupying
 laboratory findings, **768**
 liver, 795–797
 pancreatic region, 294–295
 lethargia pituitaria, 1004
 lethargic encephalitis, 995
 Letterer–Siwe syndrome, 360
 leucine crystals, urinary sediment, 850
 leukemia, 422–431
 acute, 422–428
 clinical symptoms, 422
 diagnosis, 422
 see also specific forms
 chronic forms, 428–431
 see also specific forms
 classification, 422
 distribution, 422
 hilar enlargement, 590
 myeloblastic
 with maturation, **426**
 with minimal maturation, **426**
 without maturation, **426**
 leukemoid reactions, 198
 leukocyte casts, urinary sediment, 848, 849
 leukocytes, 198–199
 paroxysmal nocturnal hemoglobinuria, 415
 urinary sediment, 847, 848
 leukocytosis, 198
 acute appendicitis, 263
 acute pancreatitis, 292
 hyper-IgD syndrome, 192
 peritonitis, 150
 leukocyturia, urinary sediment, 848
 leukonychia, 76
 leukopenia, 198–199
 pernicious anemia, 407
 tuberculosis, 144
 leukoplakia, 77
 causes, **77**
 Lewis method, cyanosis differentiation, 682
 Libman–Sacks endocarditis, 182
 Libman–Sacks syndrome, 155
 lichen ruber planus, 75, 75
 Liddle syndrome, 744
 lifestyle, influencing diagnosis, 12–13
 lifting trauma, radicular compression syndromes, 304
 ligament ossification, ankylosing spondylitis, 341, 342
 limbic structures, epilepsy, 982
 limbs
 movements, consciousness assessment, 993
 neurological examination, 32
 see also arms; legs
 lines of Mees, 74
- lipase
 chronic pancreatitis, 296
 laboratory parameters, 1048
 lipedema, 386, 388
 lipid(s)
 dyslipoproteinemia, 226
 laboratory parameters, 1048–1050
 lipid storage disease, skin changes, 65
 lipiduria, nephrotic syndrome, 868
 lipodystrophies, 87
 lipoid nephrosis, 844
 lipoid pneumonia, 541
 lipomas, 569
 neck, 479
 lipoproteins
 categorization, 226
 metabolism, 230
 structure and function, **227**
 liquorice, primary aldosteronism, 739
 listeria meningitis, 133–134
 lithium, hyperparathyroidism, 375
 livedo, causes, **57**
 livedo racemosa, 327
 livedo reticularis, 327, 708, 854, 854
 liver
 angiography, 771, 786
 biopsy, 771
 failure, 787
 function tests, quantitative, 769
 iron index, hereditary hemochromatosis, 788
 palpation, 30–31
 see also entries beginning hepato-/hepatocytic
 liver cirrhosis, 780–788, 782
 acanthocytes, 398
 ascites, 780
 Child–Pugh classification, **783**
 classification, 780
 severity dependence, 783
 clinical features, 780–783, 781
 decompensated, 780
 tremor, 91
 ultrasound pattern, 782
 definition, 780
 etiologies, **780**
 fever, 116
 hereditary hemochromatosis, 788
 laboratory findings, **768**
 laparoscopic findings, 780
 pathogenesis, 780
 pleural effusion, 248
 pulmonary hypertension, 639
 skin alterations, 69, 781
 liver disease
 abdominal pain, 272
 abscesses, 146, 151, 796
 acute gastritis vs., 275
 acute venous congestion, 288
 anemia, 410
 chronic congestion, edema, 382–383
 chronic, porphyria cutanea tarda, 270
 cirrhosis see liver cirrhosis
 coagulation, 462
 fibrosis, congenital, 786
 hepatitis see hepatitis
 hepatovenous causes, 789–790
 hypoproteinemic edema, 383
 laboratory findings, **768**
 macrocytic anemia, 409
 osteomyelofibrosis, 435
 sarcoidosis, 587
 skin changes due to, 69, 781
- swelling, post-cholecystectomy, 288
 toxic and drug-induced, 778–779
 tumors, 795–796
 metastases, 795, 796, 818
 see also specific diseases/disorders
 liver failure, 787
 liver function tests, quantitative, 769
 liver–kidney microsomes (LKM)
 antibodies, liver disease, 770
 lividoid vasculitis, 327
Loa loa infection, 175
 inflammatory edema, 388
 lobular panniculitis, **61**
 localized bullous emphysema, 513
 localized lymphadenopathy, 446
 local psychosyndrome, 21
 locked-in syndrome, 991
 Löffler endocarditis, 666, 667
 Löfgren syndrome, 585, 588
 erythema nodosum, 61
 long QT syndrome, 977
 long sleepers, 1010
 loop diuretics, renal calcium loss, 934
 Looser zones, 373–374
 lordosis
 intermittent claudication, 314
 lumbar, unilateral leg pain, 309
 low output heart failure, 607
 low oxygen affinity hemoglobins, 709
 lucidity, 951, 988
 lumbar spine
 hyperostosis, 351
 osteoarthritis, 351
 osteochondrosis, 350, 351
 lumbosacral plexitis, 309
 lung(s)
 auscultation, cardiac dyspnea, 501
 cancer see lung cancer
 cysts, 565, 574
 disease see pulmonary diseases/disorders
 hyperinflation, 512
 physical examination, 27–30
 sequestration, 578
 see also entries beginning pulmonary/respiratory
 lung cancer, 145, 567–569, 590–592, 594
 classification, 592, **593**
 diagnosis, 591–592, 592
 epidemiology, 590
 hemoptysis, 495
 localizations, 591
 screening, 35
 staging, **593**
 survival rates, **593**
 symptoms, **590**, 590–591
 see also pulmonary nodules
 lung function tests see pulmonary function tests
 lupus anticoagulation,
 anti-phospholipid antibody syndrome, 468
 lupus erythematoses, 554
 lupus erythematosus, 67
 lupus pernio, 588
 luteal hormone-releasing hormone (LHRH) agonists,
 secondary osteoporosis, 369
 Lyell syndrome, 59–60, 60
 Lyme disease, 157–158, 669
 abdominal pain, 273
 bilateral arm/leg pain, 311
 clinical manifestations, **158**
 dilated cardiomyopathy, 669
 inflammatory edema, 389
 skin presentation, 56

- lymphadenitis
acquired toxoplasmic, 478
acute, 478
acute nonspecific, 477–478
acute suppurative, 479
chronic, 478–479
histoplasmosis, 170
infectious, 477
specific, 478
toxoplasmic, 478
- lymphadenopathy
generalized, without splenomegaly, 446–447
- Hodgkin disease, 436
- localized, 446
- reactive, 445–447
- see also lymph node enlargement*
- lymphangioleiomymatosis (LAM), 564–565, 565
- lymphangioma, 360
neck, 477
- lymphangiopathy, occlusive, 387
- lymphangiosis carcinomatosa, 561, 563
- lymphangitis
acute, 333
chronic obstructive, 174
- lymphatic disorders
chronic, 333
see also specific disorders
- lymphatic drainage, edema, 384
- lymphatic filariasis, 174–175
- lymphatic fistulas, secondary lymphedema, 388
- lymphedema, 385
primary, 385–387
secondary, 386, 387–388
- sporadic, 387
- lymph node(s)
examination, 445–446
metastases, 479–480
tonsillar carcinoma, 480
- physical examination, 26
- toxoplasmosis, 162
- lymph node enlargement
cytology and histology, 446
- diagnosis, 446
- examination, 445–446
- generalized, 127
- hilar enlargement *see* hilar enlargement
- infections, 128–129
- localized, 127–128
- occipital, 128
- unknown origin, 129–130
- see also lymphadenopathy*
- lymphocytes, 200
chronic lymphocytic leukemia, 430
- lymphocytic choriomeningitis, meningitis, 134–135
- lymphoepithelial cysts, HIV infection, 130
- lymphogranuloma, 200
- lymphogranuloma venereum, 161
anorectal, 814
- lymphyography, 387
lymphedema, 387
- lymphoid interstitial pneumonia (LIP), 554
- lymphoma
bilateral hilar enlargement, 589–590
- cervical lymph nodes, 480
- fever, 194
- lymphoplasmocytic, 439
- lymphoplastic, 444
- malignant, 435–444
multiple myeloma and Waldenström disease, 441–444
- pleural, 249
- stomach, 282
- see also* Hodgkin disease; non-Hodgkin lymphoma
- lymphomatoid granulomatosis, 571
- lymphomonocytosis, 139, 139
- lymphopenias, 190, 200
- lymphoplasmocytic lymphoma, 439
- lymphoplastic lymphoma, 444
- Lynch syndrome, 819
- M**
- Machupo virus, 123
- Macleod syndrome, 510
- macroamylasemia, pancreatic disease, 290
- macroangiopathy, acromegaly, 743
- macrocytic normochromic anemia, 406–409
causes, 408, 409
classification, 406
definition, 406
see also specific causes
- macrocytosis, 397
- myelodysplastic syndrome, 411
- macroglobulinemia, 444
- macroglossia, 78
- macrohematuria, urinary sediment analysis, 847
- macrovesicular steatosis, 778
- macular degeneration, senile, 97
- macular exanthem, 58
- maculopapular exanthema, 118
- Maffucci syndrome, 357
- magnesium
deficiency *see* hypomagnesemia
extrarenal loss, 943
homeostasis disorders *see* magnesium homeostasis disorders
increased intake, 944
laboratory parameters, 1050
properties, 928
reduced intake, 942
renal loss, 943
renal retention, 944
transcellular shifts, 942–943, 944
- magnesium homeostasis disorders, 928, 942–945
causes, 942
clinical features, 942
definition, 942
diagnosis, 942
differential diagnosis, 943
physiologic principles, 928–930
signs and symptoms, 942
see also hypermagnesemia; hypomagnesemia
- magnetic resonance angiography (MRA)
peripheral artery disease, 318
- renovascular hypertension, 737
- magnetic resonance
cholangiography (MRCP), 766, 771
chronic pancreatitis, 294
- magnetic resonance imaging (MRI)
cardiac uses, 626
central cyanosis, 684
coronary heart disease, 232
infectious diseases, 114
jaundice, 771
myocardial ischemia, 233
osteomyelitis, 127
osteonecrosis, 364
malabsorption, 821–825
hypomagnesemia, 942
pathogenesis, 821
primary, 821–823
- secondary, 823
short stature due to, 83–84
- malacoplakia, 883–884
- malaria, 171–172
clinical features and diagnosis, 172
blood smears, 174
- diarrhea, 149
- exogenous hemolytic anemia, 413
- fever
course of, 172
without localized symptoms, 114
pathogens and types, 171
- quartan, 171, 172
- malassimilation, 821–825
causes, 822
pathogenesis, 821
- malabsorption, 823
- malignancies *see cancer; tumor(s); specific malignancies*
- malignant ascites, 784
- malignant atrophic papulosis, 272
- malignant bone tumors, 356
- malignant fibrous histiocytoma, 360
- malignant
hemangioendothelioma, 796
- malignant histiocytosis, 445
- malignant hyperthermia, 111
- malignant melanoma, 14
- malignant tumors *see cancer; tumor(s)*
- Mallory–Weiss syndrome, 280
- malnutrition
chronic renal failure, 861
fasting ketoacidosis, 921
hypomagnesemia, 942
vitamin D deficiency, 933
see also malabsorption; malassimilation
- Maltese crosses
nephrotic syndrome, 869
urinary sediment, 849, 849
- MALT lymphoma, 440
- malum perforans, 326, 326
- mammography, 35
- mandibular joint, arthropathy and dysfunction, 213
- manometry, normal swallow, 805
- mantle cell lymphoma, 440
- Mantoux test (tuberculin skin test), 144
- hilar lymph node tuberculosis, 596
- Hodgkin disease, 437
- primary tuberculosis, 531
- sarcoidosis, 589
- marantic parotitis, 130
- marble bone disease, 363
- Marburg virus, 123
- Marcumar, 462
- Marfan syndrome, 79, 79
aortic dissection, 245
hands, 90
skin presentation, 66
vessel wall, 464
- Marie–Bamberger syndrome, 515
- mast cells, allergic bronchial asthma, 506
- mastocytosis, 363
carcinoid syndrome, 826
hyperpigmentation, 55
- maturity-onset diabetes of the young (MODY), 39
- maximum oxygen uptake, spiroergometry, 627
- May–Hegglin anomaly, 198, 458, 460
- May–Turner syndrome, 330
- McBurney point, acute appendicitis, 263
- McLeod phenotype, erythrocyte shape variations, 418
- MCP joints, hemochromatosis, 347
- measles, 122
maculopapular exanthema, 118
- pneumonia, 536, 537
- mechanical features, diagnosis, 260
- mechanical ileus, 260–262, 263
causes, 260–261, 262
clinical features, 260
complications, 260
localization, 261
- Meckel diverticulum, mechanical ileus, 262
- medial anterior infarct, 997
- medial calcinosis, 321, 321–322
- medial longitudinal fasciculus, 962
- rostral interstitial nucleus of MLF, 962
- mediastinal lymph nodes, 436
non-Hodgkin lymphoma, 438
- mediastinoscopy, 589
- mediastinum
diseases/disorders, 803
emphysema, 250
idiopathic fibrosis, 599
inflammations, 597–599
phlegmon, 597–599
tumors, 596–597, 597
widening, 596–599
- medical errors, 9
technical, 10
- medical history, 5–6
insufficient, 10
interview components, 26
- Mediterranean fever, 116
- medullary cystic renal disease, 888
- medullary sponge kidneys, 886
- medullary thyroid carcinoma, 484
- mefenamic acid, coma, 1007
- megacolon, 832
- megaesophagus, 599
- megakaryoblastic leukemia, 426, 426
- megakaryopoiesis,
myelodysplastic syndrome, 432
- megalocytic interstitial nephritis, 883–884
- megalocytosis, 398
- megarectum, 832
- MEGX test, 769
- Meige disease, 387
- Meig syndrome, 248
- melanin, hyperpigmentation, 54
- melena, 281–282
diagnosis, 281–282
- Melkersson–Rosenthal syndrome, 53, 389
- meloidosis, 175
- membranoproliferative glomerulonephritides, 867
- membranous glomerulonephritis, 870, 871
- Mendelian genetics, 21–22
- Ménétrier disease, 276
- Ménière disease, 98, 970
vertigo, 954
- meningeal artery injury, 998
- meningioma, radiculopathy, 304
- meningism, subarachnoid hemorrhage, 207
- meningitis, 208
bacterial, 133–134, 208
cerebrospinal fluid findings, 132
- coma, 995

- concomitant cases, 135
 fungal, 135
 helminth, 135
 migraine, 996
 neonatal, 134
 posture, 85
 protozoal, 135
 serous, 134–135
 leptospirosis, 135
 purulent meningitis vs., 134
 symptoms, 131
 viral, 208
 cerebrospinal fluid findings, **132**
 meningococcal meningitis, 133
 skin lesions, **133**
 meningococcal sepsis
 petechial skin hemorrhage, 455
 skin changes, 72
 meningococcemia, petechiae and purpura, 116
 meningoencephalitis, 208
 coma, 995
 postinfectious, 133
 menopause, osteoporosis, 368
 mental disorders, 20–21
 mental state examination, 32, 992
 mercury intoxication
 chronic, 193
 diarrhea, 812
 mesencephalic reticular formation
 supranuclear gaze paresis, 962
 syncope, 952
 mesenteric angina, ischemic colitis, 815
 mesenteric artery hypoperfusion, **266**
 mesenteric infarction
 abdominal angina, 266
 fever, 116
 mechanical ileus, 261
 mesenteric vein thrombosis, 267
 mesial temporal lobe syndrome, 983
 mesoblastic tumors, 597
 mesothelial cyst, 578
 metaanalysis, **7**, **7**
 metabolic acidosis, 920–922
 chronic renal failure, 862, 921
 differential diagnosis, **921**, **923**
 dyspnea, 501–502
 laboratory parameters, **1017**, **1017–1018**, **1018**
 normochloremic, 920
 with increased serum anion gap, 920–921
 normochloremic acidosis, with hyperchloremic acidosis, 920
 pH of urine, 842
 uremic coma, 1004
 metabolic alkalosis, 922–924
 diagnosis, 924
 differential diagnosis, 922, **925**
 exogenous alkali intake, 924
 laboratory parameters, **1018**
 maintenance factors, 922–923, 924
 pH of urine, 842
 urinary findings, **925**
 metabolic coma, 1004–1005
 metabolic diseases/disorders, 20
 abdominal pain, 271–272
 associated arthropathy, 345–346
 coma, 996, 999–1005
 dyslipoproteinemia, 230
 odor, 99
see also specific diseases/disorders
 metabolic liver disorders, 788–789
- metabolic syndrome, 39, 88
 atherosclerosis risk, 226
 definition, **88**
 dyslipoproteinemia, 230
 hypertension, 737
 metabolic-toxic encephalopathies, coma, 996
 metacarpophalangeal (MP) joints
 chronic polyarthritides, 90
 rheumatoid arthritis, 338
 metapneumovirus infections, common cold, 140
 metastases
 bone, 304, 356
 calcification, 862, 863
 skin, **64**
 hemolytic anemia, 416
 kidney, 571
 liver, 795, 796, 818
 lung, 567, 568, 570, 571
 lymph node(s), 479–480
 tonsillar carcinoma, 480
 metatarsophalangeal joints, rheumatoid arthritis, 338
 methanol, coma, 1008
 methemoglobinemia, 708–710
 differential diagnosis, 710
 hereditary, 709
 sulfhemoglobinemia, 710
 toxic, 709
 methotrexate, folic acid deficiency, 409
 Meulengracht intermittent juvenile jaundice, 771–772
 microalbuminuria, 844
 microangiopathic hemolytic anemia (MAHA), hemolysis with erythrocyte fragmentation, 415
 microcirculatory disorders, 470
 microcytic hypochromic anemia, 400–405
 aluminium intoxication, 404
 classification, **400**
 clinical findings, 403
 diagnosis, 401–402
 diagnostic strategy, 406
 etiology, 402–403
 nephrotic syndrome, 869
 microcytosis
 iron deficiency anemia, 401
 thalassemia, 404–405
 microemboli, 980
 septic, endocarditis, 155
 microhematuria
 asymptomatic, **875**
 nephrolithiasis, 885
 urinary sediment analysis, 847, **851**
 microlithiasis alveolaris, 564
 micromegakaryocytes, chronic myeloid leukemia, 429
 microscopid polyangiitis, 178, 873
 differential diagnosis, **181**
 microsleep episodes, 1009
 microspherocytes, hemolytic anemia, 414
 microvascular disease, 326–328
 microvesicular steatosis, 778
 mid-diastolic murmurs, 618
 atrioventricular septal defect, 695
 middle lobe syndrome, 576–577, 577
 middle stream urine, 841
 midsystolicclick, 614, **616**
 mitral valve prolapse, 652
 midsystolic murmur, tricuspid atresia, 690
 migraine
 with aura, 214
 basilar, 214, 972
- consciousness disturbances, 996
 consciousness disturbances, 996
 Raynaud phenomenon, 325
 vertigo, 954
 vestibular, 972
 without aura, 213–214
 migratory thrombophlebitis, 320, 328, 328
 milary tuberculosis *see* tuberculosis
 milk-alkali syndrome, 935
 milk intolerance, 820
 mineralocorticoids
 Addison disease, 752
 deficiency, hyperkalemia, 914
 excess
 metabolic alkalosis, 924
 volume expansion, 900
 hypertension, 738–739
 potassium regulation, 907
 minimal-change
 glomerulonephritis, 870
 mitochondrial cytopathy (MELAS), 214
 mitral facies, 53, 657
 mitral valve
 annulus, calcification of, 651
 defects, 651
 insufficiency *see* mitral valve insufficiency
 leaflet thickening, 655
 opening sound, 613, **615**, 657
 premature closing, acute aortic insufficiency, 644
 pressure gradient, pre-valvuloplasty, 656
 prolapse, 652–653
 acute mitral insufficiency, 649
 differential diagnosis, **220**
 sclerae, 96
 regurgitation
 atrioventricular septal defect, 695
 echocardiography, 651
 stenosis *see* mitral valve stenosis
 systolic prolapse of leaflet, 614
 valvuloplasty, 627
 mitral valve insufficiency
 acute, 649
 acute heart failure, 628
 cardiogenic shock, 632
 chronic, 649–652
 causes, **652**, **652**
 operative treatment, indications for, 652
 pathophysiology, 649–650
 schematic representation, 650
 special studies, 651–652
 symptoms and findings, **650**, 650–651
 chronic volume overload, 644
 dilated cardiomyopathy, 669, 670
 Doppler echocardiography, 652
 eccentric hypertrophy, 635
 hypotension in myocardial infarction, 240
 murmur, 617
 pulmonary edema, 631
 thrill, **612**
 mitral valve stenosis, 655–658
 abnormal first heart sounds, 613
 differential diagnosis, 658
 murmur, 617
 pathogenesis, 655
 schematic representation, 656
 signs, 657, **657**
- skin color, 53, 91, 92
 special studies, 657–658
 symptoms, 655, **657**
 syncope, 978
 mitral valvuloplasty, 627
 mixed connective tissue disease, 176, 186
 autoantibodies, **177**
 microaneurysm, 327
 M-mode echocardiography, cardiac dyspnea, 623
 Mobitz second degree
 atrioventricular block, 717
 modified Bernoulli equation, 624
 molluscipoxvirus, 124
 molluscum contagiosum, 124
 Mönckeberg medial sclerosis, 321–322
 Mondor disease, 252, 328
 monitoring, 5, 6, 9
 monkeypox virus, 118, 124, 125
 monoblastic leukemia, 426, **426**
 monoclonal antibodies, cellular immune deficiencies, 190
 monoclonal gammopathy multiple myeloma, 441
 of unknown significance (MGUS), **444**
 monocytes, 191, 200
 monocytic leukemia, 426, **426**
 monoethylglycinexylidide (MEGX) test, 769
 monogenetic hypotension, 755–756
 monomorphic ventricular tachycardia, 726–727
 mononeuropathy, 305
 unilateral leg pain, 310
 mononucleosis
 hilar enlargement, 590
 pneumonia, 536
 moon face, Cushing syndrome, 740, 741
 morbidity, 11
 morbilliform exanthem, 56, 57
 Morgagni hernia, 578
 Morgagni syndrome, 364
 mortality, 11
 cancer-related, 18
 causes, 12
 Morton neuralgia, 310
 motion sickness, 968
 motor aphasia, 101
 motor deficits, grading, 32
 motor paralysis, acute
 intermittent porphyria, 270
 mountain sickness, 390
 mouth *see* oral cavity
 MRI *see* magnetic resonance imaging (MRI)
 mucoepidermoid tumors, 592
 mucopurulent sputum, 495
 mucormycosis, 169
 mucosal bleeding, von Willebrand disease, 462
 mucosal disease (odynophagia), 806–807
 mucous colitis, irritable bowel syndrome, 285
 mucous sputum, 495
 mucoviscidosis, 514–515
 multifactorial heredity, 22
 multifocal atrial tachycardia, 722
 multifocal central nervous system diseases, 995–996
 multiple endocrine neoplasia (MEN)
 hypercalcemia, 934
 hyperparathyroidism, 375
 thyroid carcinoma, 484
 multiple exostosis, 357
 multiple myeloma, 441–444, 567, 568

- paper electrophoresis, 443
 plasma cells *see* plasma cell myeloma
 polymorphic plasma cells, 443
 smoldering, 444
 spinal radiograph, 443
 multiple sclerosis, 12
 multiple sleep latency test (MSLT), 1010
 multiple symmetrical lipomatosis, 87
 multisensory vertigo, 973
 mumps, 130
 meningitis, 134
 salivary glands, 480
 Münchausen syndrome, 10
 muscular atrophy, liver diseases, 767
 muscular ventricular septal defect, 699
 musculoskeletal system
 chest pain, 223
 differential diagnosis, 221
 physical examination, 31, 31–32
 polyarteritis nodosa, 179
 primary adrenocortical insufficiency, 751
 mushroom poisoning, diarrhea, 812
 mutism, 100
 myalgia, musculoskeletal thoracic pain, 251
 myasthenia gravis, 595
 eyelids, 94
 ocular, 962
 mycobacteria other than tuberculosis (MOTT), 535, 535
Mycobacterium avium-intracellulare, 535, 535
Mycobacterium infections
 lymph nodes, 129
 nontuberculous, 120, 144–145
 skin, 120
Mycobacterium leprae, 120
Mycobacterium marinum
 infection, skin lesions, 119, 120
Mycobacterium tuberculosis, 143, 530
see also tuberculosis
Mycobacterium ulcerans, 120
 mycoses infections
 pharyngitis, 138
 pneumonia, 527
see also specific infections/organisms
Mycoplasma pneumoniae, 142, 526
 mycoses *see* fungal infections
 mycosis fungoïdes, 440–441
 mycotic aneurysms, 156
 myeloblastic leukemia *see* leukemia
 myeloblasts, myelodysplastic syndrome, 432
 myelodysplastic syndrome (MDS), 411, 432–433
 FAB classification, 432
 hypoplastic, 411
 International Prognostic Scoring System, 433, 433
 siderochrestic anemia, 405
 World Health Organization classification, 433
 myelofibrosis, chronic idiopathic, 435
 myelogenic tumors, 360
 myelogenous leukemia, symptoms, 422
 myeloma *see* multiple myeloma
 myelomonocytic leukemia, 426
 myelopathies, vertigo, 973
 myelopoiesis, myelodysplastic syndrome, 432
 myeloproliferative diseases, 468
 myeloproliferative syndrome (MPS), 434–435
 Budd-Chiari syndrome, 790
 myocardial aneurysm, chest radiograph, 621
 myocardial cell destruction, eccentric hypertrophy, 635
 myocardial contractility, decreased
 chronic volume overload, 644
 eccentric hypertrophy, 635
 myocardial dysfunction, peripheral cardiac cyanosis, 708
 myocardial hypertrophy, chronic volume overload, 644
 myocardial infarction (MI)
 abdominal pain, 272
 acute *see* acute myocardial infarction (AMI)
 acute mitral insufficiency, 649
 biomarkers, 239
 cardiogenic shock, 632
 differential diagnosis, 220 complications, 239–240
 ECG changes, 235
 ST segment elevation (STEMI), 235–237, 237 without ST segment elevation (non-STEMI), 234–235, 235
 embolism, 322
 hypotension in course of, 240
 syncope, 978
 myocardial ischemia
 acute heart failure, 629
 angina pectoris *see* angina pectoris
 coronary angiography, 233, 234
 ECG signs, 236
 magnetic resonance imaging, 233
 silent, 224
 transient, left ventricle hypertrophy, 223
see also myocardial infarction (MI)
 myocardial necrosis, ECG signs, 237
 myocardial scarring, ECG signs, 237
 myocardial scintigraphy, 231–232
 myocarditis, 145, 672–673
 bacterial, 672 causes, 672, 672 Kawasaki disease, 129 viral, 672, 672 viral infections, 672, 672
 myoclonus, 985 myoclonic attacks, 983 myogelosis, musculoskeletal thoracic pain, 251
 myoglobin acute coronary syndrome, 238 laboratory parameters, 1051 myoglobinuria, urine analysis, 841–842
 myxedema, 384, 384 pleural effusion, 248 myxedema coma, 1005 myxoma (atrial tumor) *see* atrial myxoma
N
 NADH-oxidase deficiency, 191 NADPH methemoglobin reductase deficiency, 709 *Naegleria fowleri*, 135 nail-patella syndrome, 75, 75, 877–878 nails, 74–76 bed psoriasis, 74, 74 clubbing, 74
 discoloration, 75–76 fold keratosis, 67 liver diseases, 767 psoriatic arthritis, 342 shape and structure changes, 74–75
 naloxone, coma, 1007 narcolepsy, 984, 1009, 1009 narcotics, pulmonary edema, 632 narrow-complex tachycardia, 721–725 differential diagnosis, 722 nausea, venous congestion, 609 N-benzoyl-L-tyrosyl-p-aminobenzoic acid (NBT-PARA), 291 neck congenital abnormalities, 476–477 inflammatory disorders, 477–479 superficial, 477 masses, 479–480 differential diagnosis, 476 examination, 476 stiffness causes, 131 neurological examination, 131 swelling, 130–131 vascular malformations, 476–477 veins, cardiogenic shock, 632 webbed, Turner syndrome, 82 *see also* cervical spine necrobiosis lipoidica, 61 necrobiosis lipoidica diabetorum, 65 necrotolytic migratory erythema, 65 necrosis, ischemic limb pain, 315 necrotizing external otitis, 140 necrotizing fasciitis, neck, 479 necrotizing sarcoidlike granulomatosis, 571 necrotizing vasculitis, systemic, 307 needle biopsy, transthoracic, 247 *Neisseria meningitidis* infection, 133 petechiae and purpura, 116 *see also* meningococcal meningitis; meningocephalitis sepsis; meningoencephalitis neonatal hypothyroidism *see* hypothyroidism neonatal meningitis, 134 neoplasms, 469 associated arthritis, 348 causes, 483 consciousness disturbances, 998–999 meningitis, 208 pericarditis, 243 pleural effusion, 248 *see also* cancer; tumor(s); specific neoplasms nephritic syndrome acute, 866 causes, 866, 867 clinical features, 866 edema, nephrotic syndrome, vs., 869 urinary sediment patterns, 851 nephritis chronic interstitial, 880–882 hereditary clinical manifestations, 877 hematuria, 876–877 nephroblastomas, 890 nephrocalcinosis, 586, 885–887 etiology, 885–887 hyperparathyroidism, 375 stone composition, 885–887
 nephrogenic diabetes insipidus, 40–41
 nephrolithiasis, 885–887 immobilization, long-term, 935 nephrologic syndromes, 839, 840 differential diagnosis, 865–890 nephronophthisis, 888 nephronophthisis complex, juvenile, 888 nephropathy, acute vs. chronic, 864 nephrosclerosis, gout, 345 nephrotic edema, facial appearance, 91 nephrotic syndrome, 868–872 causes, 870 clinical features, 868–869 coagulation defects, 469 hypoproteinemic edema, 383 membranous glomerulonephritis, 870 renal hypotension, 757 urinary sediment patterns, 851 vitamin D deficiency, 933 nephrotoxic drugs acute renal failure, 855 antibiotics, acute tubular necrosis, 854 nerve palsy *see specific nerves* net urinary excretion (NAE), 916 neuralgia, 300 clinical criteria, 300 head region, 215–217, 216 occipital, 212, 216 shoulder amyotrophy, 306 traumatic, head/facial pain, 217 neurasthenia, 755 neurinoma, 303, 304, 594, 597 neuroborreliosis, 135 Lyme disease, 157 neurocardiogenic syncope, 978 tilt table testing, 715 neurocutaneous diseases, 69–71 neuroendocrine cancer, 592 neurofibromas, 54 neurofibromatosis, 54, 54, 69–71 neurogenic hypotension, 750 neurogenic pain abdomen, 273 arms, unilateral, 306–308 causative factors, 301 characteristics, 300 clinical findings, 300–301 definition, 300–301 differential diagnosis, 301 legs, unilateral, 308–310 limb pain, 300–311 definitions, 300–301 neurogenic pulmonary edema, 632 neurogenic shoulder-girdle syndrome, 307 neurogenic syncope, 979 neuroleptics, coma, 1007 neurological examination, 32 gait, 32 history, 26 neurologic disorders arthropathies, 348 seizure disorders, 984 *see also specific disorders* neuromuscular excitability, potassium disorders, 909 neuromuscular respiratory failure, 502–503 neuropathic joint disorders, 348 neuropathic pain, 48 unilateral arm pain, 308 neurosarcoidosis, 587 neurosyphilis, 135, 161 diagnosis, 159 neutropenia, 168 diarrhea, 147

- neutrophilia, polycythemia rubra vera, 434
- neutrophils, 191
- toxic, 198, 199
- nevus flammeus, 71, 71
- New York Heart Association (NYHA), **608**
- Nezelof syndrome, 190
- nicotinamide adenine dinucleotide phosphate (NADPH), 418
- Nikolski phenomenon, 59
- nitrite, urinary tract infections, 846
- nitroglycerin, angina pectoris, 222
- Nocardia asteroides*, 145, 526, 526
- Nocardia* infections see nocardiosis
- nocardiosis, 71, 145
- skin lesions, 119
- nocturia, cardiac dyspnea, 609
- nocturnal calf cramps, 331
- nocturnal choking attacks, obstructive sleep apnea syndrome, 516
- nodular glomerulosclerosis, 871
- nodular regenerative hyperplasia, 786
- nodular sclerosis, Hodgkin disease, 437
- nodular skin lesions, 60–61, 118–119
- nodules, pulmonary opacities, 521
- nonalcoholic fatty liver (NAFL), 778
- nonalcoholic steatohepatitis (NASH), 779
- nonconvulsive epileptic state, 996
- nonerosive reflux disease (NERD), 803
- non-Hodgkin lymphoma, 438–441, 440
- chromosomal aberrations, 439
 - classification, 439, **439**
 - clinical symptoms, 438
 - acquired ichthyosis, 67
 - fever, 194
 - hilar enlargement, 589–590 - diagnosis, 439
 - gastric carcinoma, 280
 - histology, 439
 - immunoblastic, 441
 - polymorphic centroblastic, 441
 - pulmonary, 568–569
 - rare, 440–441
 - stomach, 282
- nonhydrogenated ergotamine alkaloids, 324
- nonhypertensive hemorrhages, 998
- noninfectious endocarditis, 155
- noninflammatory intestinal infections, 147
- non-Langerhans cell histiocytosis, 445
- Nonne–Milroy disease, 387
- nonossifying fibroma, 359, 360
- nonpapillary carcinomas, pain, 296
- nonpneumotropic viruses, pneumonia, 536
- non-rapid eye movement (NREM) sleep, 988, 989
- nonrestrictive ventricular septal defect (VSD), 699, 700
- non-specific interstitial pneumonia (NSIP), 551, 553
- non-STEMI, 234–235, **235**
- non-steroidal anti-inflammatory drugs (NSAIDs)
- acquired thrombocytopathies, 457
- coma, 1007
- edema, 389–390
- eosinophilic pulmonary infiltrates, 547
- hypertension, 746
- nonsteroidal antirheumatics, acute gastritis, 274
- non-ST segment elevation myocardial infarction (non-STEMI), 234–235, **235**
- nontoxic goiter see goiter
- non-tuberculous mycobacteria infection, 120, 144–145
- Noonan syndrome, 83
- normochloremic metabolic acidosis see metabolic acidosis
- normochromic normocytic anemia
- diagnostic strategy, 412
 - renal insufficiency, 859
- normotension, upper limits, 732
- nose, 99
- nosocomial diarrhea, 147
- nosocomial staphylococcal infection, 153
- NT-pro-brain natriuretic peptide (NT-proBNP), 1028
- nuclear imaging
- pheochromocytoma, 740
 - primary aldosteronism, 739
 - prostate cancer, 935
- nystagmus, 965–966
- consciousness, assessment of, 993
 - patterns, **967**
 - spontaneous, 958, 965, **967**
 - development of, 965
 - peripheral vestibular vertigo, 968
- O**
- obesity, 13, 86–88, 87
- atherosclerosis risk, 226
 - definition and epidemiology, 86
 - primary, 86
 - screening, 34
 - secondary, 87
- obesity-hypoventilation syndrome, 503
- obliterating arteriosclerosis, 319
- obliterative angiopathy, ischemic colitis, 815
- obstetric complications, hereditary thrombophilia, 468
- obstructive cholestasis see cholestasis
- obstructive hypopnea, 505
- assessment, 505
 - obstructive ileus, 260–262
 - differential diagnosis, **260**
- obstructive jaundice see jaundice
- obstructive lung diseases, 497–498
- dyspnea, 496
 - pulmonary dyspnea, 500
- obstructive lymphangitis, chronic, 174
- obstructive sleep apnea syndrome (OSAS), 516–517
- assessment, 505, 505
- obstructive uropathies, 882
- obturator nerve mononeuropathy, 310
- occasional seizure, syncope, 952
- occipital lymph node enlargement, 128
- occipital neuralgia, 212, 216
- occlusive lymphangiopathy, secondary lymphedema, 387
- occult gastrointestinal bleeding, anemia, 402
- occupational asthma, 509
- occupational diseases/disorders, 12, 14, **15–16**, 509
- see also specific diseases/disorders
- ochronosis, 65, 347, 347
- ears, 98
 - skin discoloration, 53
- ocular misalignment, 958
- ocular motility, 98
- disorders, 956–967
- ocular myasthenia gravis, **962**
- ocular nerve paresis, 960, 960–961
- differential diagnosis, **962**
 - etiology, **961**
- ocular tilt reaction, 965–966
- development of, 966
- ocular vertigo, 955
- oculocephalic reflexes (OCR), 993
- oculoglandular syndrome, 128
- oculomotor nerve palsy, 212, 216, 993
- eyelids, 94
 - subarachnoid hemorrhage, 207
- oculomotor paresis, 960
- odor, 99–100, **99–100**
- odynophagia, 47, 806–807
- definition, 802
- oligoarticular juvenile chronic arthritis, 340
- oligomenorrhea, Graves disease, 485
- oligospermia, 43
- oligosymptomatic peritonitis, 264
- oliguria, 842
- Ollier disease, 357
- onchocercosis, 175
- oncogenic osteomalacia, 372, 374
- renal phosphate loss, 940
- onycholysis, 74
- Graves disease, 487
- ophthalmic zoster, 122
- ophthalmologic head/facial pain, 212
- ophthalmoplegic migraine, 214
- opiates, coma, 1006
- Opisthorchis viverrini*, 794
- opportunistic infections, 4
- bacterial, 168
 - fungal, 168–169
 - protozoa and helminths, 169
 - viral, 168
 - see also specific infections/organisms
- opsonization dysfunction, 191
- optic neuritis, 216
- optokinetic drum test, 965
- optomotor system
- cortical, 964
 - examination, 958
 - importance of, 951
 - subcortical, 963
 - synopsis of, 956
- oral anticoagulation (OAC), 462–463
- oral cavity, 76–78
- scleroderma, 183
- oral contraceptives
- Dubin–Johnson syndrome, 772
 - focal nodular hyperplasia, 795
 - hypertension, 746
- oral glucose testing, acromegaly, 744
- oral glucose tolerance test (OGTT)
- oral iron supplementation, 403
- oral thrush, 77
- oral ulcers, 77
- orchietomy, anemia, 410
- organic atrioventricular block see atrioventricular (AV) block
- organic dust toxic syndrome (ODTS), 557
- organ transplants
- rejection, hereditary thrombophilia, 468
 - transplant-associated microangiopathy, 416
 - transplantation osteopathies, 370
- organ tuberculosis, 143
- orgasm headache, 215
- Orientia tsutsugamushi*, 122
- Ormond disease, 599
- postrenal kidney failure, 853
- ornithosis, 528
- oropharyngeal dysphagia, 802
- orphan lung diseases, 561–565
- see also specific diseases
- orthodontic head/facial pain, 212–213
- orthomyxovirus, 140
- orthopnea, 605, 608
- cardiac dyspnea, 500
- orthopoxviruses, 124
- orthostatic dysregulation, 979
- orthostatic hypotension, 757
- orthostatic proteinuria, 844
- Ortner syndrome, 636
- oscillopsia, 971
- Osgood–Schlatter disease, 365
- Osler nodes, 69, 155, 155
- Osler–Weber–Rendu disease, 463–464
- high output heart failure, 655
 - lesions, 464
- osmolarity
- laboratory parameters, 1051
 - potassium shifts, 907
- osmoregulation, 896
- feedback loop, 896, 897
 - overview, 898, **898**
- osmotically active substances, 901, **901**
- osmotic diarrhea, mechanisms, **810**
- osmotic gap, 896
- laboratory parameters, 1051
- osmotic resistance, erythrocyte shape variations, 417
- ossifying fibroma, 360
- osteitis fibrosa cystica, 372
- chronic renal failure, 860, 861
- osteoarthritis, 349–350
- cervical spine, 350, 350
 - clinical findings, 349
 - diagnosis, 349
 - epidemiology, 349
 - eruptive form, 349
 - hands, 90
 - hereditary hemochromatosis, 788
 - hips, 349
 - interphalangeal joints, 349
 - late consequences, 349–350
 - lumbar spine, 351
 - with osteophytes, 303
 - rheumatoid arthritis vs., **349**
 - secondary, 350
- osteoblastoma, 359, 359
- osteoblasts, secondary osteoporosis, 369
- osteocartilaginous exostosis, 357
- osteochondritis dissecans, 348, 366
- osteochondroma, 357, 358
- osteoclast-activating factors, 935
- osteoclasts, 367
- osteodensitometry, bone pain, 356
- osteogenesis imperfecta, 371
- sclerae, 94, 96
- osteogenic tumors, 358–359, 359
- osteoid osteoma, 358–359, 359
- osteolytic foci, multiple myeloma, 442

- osteolytic metastasis, 357
 osteomalacia, 371–374, 374
 causes, **372**
 chronic renal failure, 860, 861
 clinical findings, 373
 definition, 371
 laboratory investigations, 373,
374
 pathogenesis, 371–373
 radiological findings, 373–374
 osteomas, 358, 569
 osteomyelitis, 126–127
 diabetic microangiopathy, 326
 imaging methods, 114
 osteomyelofibrosis, 435, 435
 osteonecrosis, 364, 364–366, 365
 adulthood, in, 366
 clinical features, 364
 definition, 364
 knee joint, 366
 pathogenesis, 364
 radiological findings, 364
 osteopenia, densitometric
 classification, 370
 osteopetrosis, 363
 osteopetrosis tarda, 363
 osteoporosis, 368–371, 371
 clinical features, 368–369
 definition, 368
 diagnostic assessment, 370
 epidemiology, 368
 inherited diseases of
 supporting tissue, 371
 laboratory tests, **370**
 multiple myeloma, 442
 pathophysiology, 368
 risk factors, **369**
 secondary, 369–371
 endocrinopathy, due to,
 369–371
 immunogenic, 370–371
 medication induced, 370
 types, **369**
 osteosarcoma, 359
 ostitis multiplex cystoides, 588
 otitis, 140
 otitis media, acute, 140, 207
 otolith shedding, traumatic
 vertigo, 971
 otorhinologic head/facial pain,
 212
 ototoxic drugs, 98, **971**
 ovalocytosis, 398
 erythrocyte shape variations,
 417
 pernicious anemia, 407
 ovarian carcinoma
 screening, 35
 virilization, 73
 overflow proteinuria, 845
 overlap syndrome, 186
 oxidative resistance, tests for, **418**
 oxidative stress, hemolysis, 413
 oximetry, pulmonary edema, 631
 oxygen, 1051–1052
 oxygen content [Cto₂], 1051–1052
 oxygen partial pressure [Po₂],
 1051–1052
 oxygen saturation [So₂],
 1051–1052
 oxyhemoglobin fraction [FHbo₂],
 1051–1052
 oxalate crystals, urinary
 sediment, 849, 851
- P**
- pacemaker-mediated tachycardia,
 728
 pachydermoperiostosis, 364
 Paget disease, 93, 367
 bone, 367
 complications, **367**
- facial appearance, 91
 high output heart failure, 655
 stages, 367
 Paget–Schrötter syndrome, 330
 pain, 47–48
 abdominal see abdominal pain
 bone see bone pain
 central syndromes, 301–302
 bilateral arm/leg pain,
 310–311
 unilateral arm pain, 306
 unilateral leg pain, 308–309
 chest see chest pain
 deafferentation, 300–301, **301**
 gastrointestinal system,
 260–264
 neurogenic see neurogenic pain
 neuropathic, 48, 308
 see also specific types/locations
 pallor, 53
 palmar erythema, 90
 jaundice, 767
 liver cirrhosis, 782
 palmar hyperkeratoses, 90
 palmar xanthoma,
 dyslipoproteinemia, 227
 palmoplantar pustulosis, 344
 palpation
 abdomen, 30–31
 acute pancreatitis, 291
 arterial occlusive disease, 315
 bladder, 31
 hernias, 31
 liver, 30–31, 766
 lymph nodes, 26, 28
 mechanical ileus, 260
 spine, **31**
 thyroid gland, 27
 vocal fremitus, 28
 palpitations, 45
 causes, **45**
 chronic aortic insufficiency, 646
 panarteritis, 178–180
 diagnosis, 179–180
 etiology and clinical features,
 179
 panarteritis nodosa (PAN),
 873–874
 abdominal angina, 266
 abdominal pain, 272
 panbronchiolitis, diffuse, 511
 Pancoast syndrome, 305–306,
 306–307
 Pancoast tumor, 567, 568
 pancreas
 amylase, 1024
 b-cells
 adenoma, 1001
 genetic defect, 39
 disease see pancreatic disease
 endocrine function, 291
 exocrine function, 290–291
 function tests, 291
 pancreatic disease, 289–296
 abscesses, 151
 carcinoma, 293, 295–296
 fever, 194
 screening, 35–36
 clinical symptoms, 289
 cysts, 295
 diagnosis, 290–291
 diarrhea, 825
 laboratory analysis, **291**
 see also specific
 diseases/disorders
 pancreatic function tests, 291
 pancreatic insufficiency, 291
 cystic fibrosis, 515
 pancreatitis, 289–290
 acute, 289–290, 291–293
 causes, **292**
 chronic pancreatitis vs., 293
 clinical features, 291–292
- complications, 292, **293**
 diagnosis, 292
 medical treatment, course of,
 289
 obstructive jaundice, 794
 cholecystitis vs., 146
 chronic, 289–290, 293–294, **295**
 causes, 293
 clinical features, 293–294
 complications, 294
 diagnosis, 294
 differential diagnosis,
 pancreatic carcinoma, 294
 epidemiology, 293
 medical treatment, course of,
 289
 natural course, 294
 steatorrhea, 823
 hereditary, 293
 local complications, 293
 pleural effusion, 248
 pancreolauryl test, pancreatic
 function, 291
 pancreozymin-secretin test,
 290–291
 pancytopenia, aplastic anemia,
 411
 panhypopituitarism, skin changes,
 66
 panic attacks, 502
 panic reaction, 502
 paniculosis, 352
 panlobular emphysema, 511
 panmictic, 61, **61**, 352
 panmictic nodularis, 296
 Papanicolaou smears, 35
 papillary carcinoma, 795
 papillary muscle rupture,
 hypotension in myocardial
 infarction, 240
 papillary necroses, analgesic
 nephropathy, 880
 papillary stenosis
 obstructive jaundice, 794
 post cholecystectomy, 288
 papilla vateri, obstructive
 jaundice, 794
 papillitis stenosans, 795
 papilloedema, chronic subdural
 hematoma, 998
 pappataci fever, 163
 papular skin diseases, 60
 paracetamol see acetaminophen
 paradoxical embolism, 322
 paradoxical pulse, 610
 pericardial tamponade, 660
 paraendocrine syndromes, 18, **19**
 paraesophageal hernia, 283, 283
 paraganglioma, 479
 parainfluenza pneumonia, 536
 paralytic ileus, 262–263
 differential diagnosis, **260**
 paramedian pontine reticular
 formation (PPRF), 960
 paramyxoviruses, 122
 parotid swelling, 130
 pneumonia, 536
 paraneoplastic Cushing
 syndrome, 742
 paraneoplastic syndromes, 18, **19**
 lung cancer, 592
 renal cell carcinomas, 889
 parapharyngeal space, abscess of,
 479
 paraprotein deposits, 444
 paraproteinemia
 coma, 1005
 multiple myeloma, 441
 parasitic diseases
 diarrhea, 149, 811, **812**
 eosinophilia, 199
 jaundice, 146
 see also specific
 diseases/infections
- parasternal regurgitant murmur,
 tricuspid insufficiency, 653
 parathormone-related peptide
 (PTHrP), hyperparathyroidism,
 375
 parathyroidectomy
 hypocalcemia, 934
 skin, effect on, 860
 parathyroid gland
 diseases, 489
 adenoma,
 hyperparathyroidism, 375
 carcinoma,
 hyperparathyroidism, 375
 removal, 860, 934
 parathyroid hormone (PTH)
 calcium homeostasis, 929
 chronic renal failure, 860
 laboratory parameters, 1052
 phosphate homeostasis, 929
 parathyroid osteitis fibrosa
 cystica, 860
 parathyphus B, 148
 paravalvular regurgitation, valve
 replacement, following, 652
 parenchymal lung pathology,
 pleural effusion, 247
 parenteral hyperalimentation,
 hypophosphatemia, 940
 parenteral nutrition
 hypophosphatemia, 940
 phlebitis, 111
 paresthetic meralgia, 310
 Parkinson disease
 basal ganglionic dysarthria, 102
 facial expression, 91
 gait, 85–86
 posture, 85, 85
 Parkinson syndrome, unilateral
 leg pain, 308
 parotid glands
 hypertrophy, 130
 hyperparathyroidism, 376
 pleomorphic adenoma, 481
 sialadenosis, 481
 swelling, 130
 Sjögren syndrome, 340
 parotitis, 130
 recurrent, childhood, 480
 paroxysmal atrial fibrillation, 724
 paroxysmal cold hemoglobinuria,
 414
 paroxysmal cough, bronchial
 asthma, 507
 paroxysmal dysarthrophonia, 973
 paroxysmal finger hematoma,
 327, 327
 paroxysmal nocturnal dyspnea,
 605, 609
 paroxysmal nocturnal
 hemoglobinuria (PNH), 415, 415
 paroxysmal supraventricular
 tachycardias see
 tachyarrhythmias
 partial atrioventricular septal
 defect (AVSD), 694
 partially restrictive ventricular
 septal defect (VSD), 699
 partial thromboplastin time (PTT),
 1052–1053
 parvovirus B19, 122
Pasteurella multocida, 163
 pasteurellosis, 163
 patent ductus arteriosus, 698
 aortopulmonary connections,
 698
 differential cyanosis, 699
 murmurs, 618
 patent mesenteric vessels,
 ischemic colitis, 815
 pathologic urine findings,
 841–851

- patients
 asymptomatic, 33, 33–37
 false diagnosis, role in, 10
 'hidden agendas,' 5, 33, 36–37
 medical history-taking *see*
 medical history
 'shared decision-making,' 5
 peak expiratory flow (PEF), 497,
 498
 pedal arteries, claudication, 314
 Pel-Ebstein fever, 194, 194, 196
 Pelger-Huet leukocyte anomaly,
 198, 199
 pelvic floor dysfunction,
 constipation, 832
 pelvic veins, deep vein
 thrombosis, 330
pemphigus vulgaris, 59
 penicillin, hypokalemia, 911
 peptic stenosis, 803
 peptic ulcer, 279
 percussion, 28–29
 percutaneous coronary
 interventions (PCI)
 angina pectoris, following, 224
 stress ECG, 231
 percutaneous transhepatic
 cholangiopancreatography
 (PTC), 766, 771, 793
 perforated duodenal ulcer, 258
 perfusion status, cardiac dyspnea,
 611
 perianal fistula, Crohn disease,
 816
 periarthritis nodosa, 178
 periarthropathia
 humeroscapularis, 353, 353
 periarthropathies, 352–353
 periarticular osteopenia,
 rheumatoid arthritis, 338, 339
 pericardial cysts, 578, 595, 598
 pericardial effusion, 145,
 240–243, 242
 chest radiograph, 242
 chronic
 chest radiograph, 619
 echocardiography, 242
 ECG changes, 240
 echocardiography, 242
 renal insufficiency, 859
 pericardial knock, 660
 pericardial rub, 240
 renal insufficiency, 859
 pericardial tamponade, 659–660
 hypotension in myocardial
 infarction, 240
 pericardiocentesis, chest
 radiograph, 242
 pericarditis, 145, 240–243, 544
 acute
 clinical features, 240
 differential diagnosis, 240
 ECG presentation, 240–242,
 241
 etiology, 242–243
 myocardial ischemia *vs.*, 237
 bacterial, 243
 chest pain, 222
 chronic, 243
 constrictive *see* constrictive
 pericarditis
 differential diagnosis, 220, 240
 acute myocardial infarction
vs., 239
 ECG changes, 240–242
 etiology, 243
 Kawasaki disease, 129
 post-myocardial infarction, 239
 renal insufficiency, 859
 viral, 242, 660
 viral infections, 242, 660
 pericarditis constrictiva, 243
 portal hypertension, 787
- perihepatitis, 150
 acute, 264, 287
 perilymph fistula, 971
 perimembranous ventricular
 septal defect, 699
 perinuclear antineutrophilic
 cytoplasmic antibodies
 (pANCA), 793
 Periodic Acid Schiff (PAS), 564
 periodic fever, 192–193
 periodic health exams, 34–36
 periodontitis, head/facial pain,
 212
 periorbital edema, 94
 nephrotic syndrome, 869, 869
 periosteal chondroma, 356
 peripartum cardiomyopathy, 670
 peripheral artery aneurysms,
 322–324
 peripheral artery disease
 causes, 319
 hemodynamically significant,
 evaluation tests, 317–318
 modified Fontaine stages, 315
 Ratschow positioning test, 316,
 317
 Rutherford classification, 315
 stages, 315
 peripheral cyanosis, 708
 cardiac, 708
 definition, 678
 dilated cardiomyopathy, 669
 peripheral edema *see* edema
 peripheral local cyanosis, 708
 peripheral nervous system (PNS)
 disturbances of, renal
 insufficiency, 860
 polyarteritis nodosa, 179
 peripheral pitting edema, 611
 peripheral positioning vertigo,
 central postural vertigo *vs.*, 970
 peripheral pulse, arrhythmias,
 714–715
 peripheral reactive sclerosis, 359
 peripheral venous pressure
 testing, 27
 peripheral venous pulsations, 27
 peripheral vestibular deficit
 syndrome, 971
 peritoneal pain, 264–265
 peritonitis, 150, 264
 primary, 150
 rare causes, 265
 rebound pain, 30
 secondary, 150
 tertiary, 150
 peritonissilar abscess, 479
 permanent atrial fibrillation, 724
 permissive hypercapnia, 926
 pernicious anemia, 12, 406–407
 clinical findings, 406–407
 diagnosis, 407
 Hunter glossitis, 406, 407
 malassimilation, 821
 pathogenesis, 406
 presentations, 68–69
 skin color, 53
 peroneal paralysis, tibialis
 anterior syndrome, 327
 peroxisome proliferator-activated
 receptor-g (PPAR-g),
 hypertension, 744
 persistent atrial fibrillation, 724
 persistent vegetative state (PVS),
 991
 Perthes-Calvé-Legg–
 Waldenström disease, 365
 Perthes disease, 365
 petechiae, 116–118
 cyanosis, 681
 infectious causes, 116
 meningococcal sepsis, 455
 noninfectious causes, 118
 thrombocytopenia, 455
- petit mal state, 996
 Peutz-Jeghers syndrome, 819
 colonic polyps, 283
 PFAPA syndrome, 193
 Pfeifer-Weber-Christian
 syndrome, 296
 Pfeiffer disease, 138–139
 phagocytes, 187
 defects, 188, 191–192, 192
 phakomatoses, 889–890
 Phalen test, unilateral arm, 308
 pharyngitis, 138–139
 pharyngotonsillitis, Epstein-Barr
 virus, 477
 phenacetin, 710
 analgesic nephropathy, 880
 phenylketonuria, skin
 presentation, 65
 pheochromocytoma, 739–740
 clinical features, 739
 diagnosis, 740
 differential diagnosis, 739–740
 fever, 193
 hereditary forms, 740
 hypertension, 738
 hypotension, 751
 incidentaloma, 740
 localization, 740
 Philadelphia chromosome,
 chronic myeloid leukemia,
 429–430
 phlebedema, 386
 phlebitis, parenteral nutrition, 111
 phlebitis saltans, 328
 phlebography, arm vein
 thrombosis, 330
 phlebopathy, 328
 phlegmasia coerulea dolens, 329
 phobic swaying vertigo, 973
 phonation disturbances, 102
 phosphate
 binders
 chronic renal failure, 861
 hyperphosphatemia, 937
 homeostasis
 disorders *see* phosphate
 homeostasis disorders
 regulation, 929–930
 increased intestinal absorption,
 941
 laboratory parameters,
 1053–1054
 properties, 928
 reduced intestinal absorption,
 939–940
 retention
 hyperparathyroidism, 376
 osteomalacia, 372
 transcellular shifts, 940, 941
 phosphate diabetes, 940
 phosphate homeostasis disorders,
 928–929, 937–941
 causes, 937–939
 clinical features, 937
 definition, 937
 differential diagnosis, 939
 fundamental pathogenesis, 938
 physiologic principles, 928–930
 signs and symptoms, 938
see also hyperphosphatemia;
 hypophosphatemia
 phospholipid-binding agents,
 anti-phospholipid antibody
 syndrome, 468
 photosensitivity
 bullous skin diseases, 60
 erythropoietic protoporphyria,
 271
 porphyrias, 268
 pH, urine, 842
 physical examination, 6, 26–32
 abdomen, 30–31
 asymptomatic patients, 33,
 33–37
- cardiovascular system, 27
 chest and lungs, 27–30
 lungs, 27–30
 lymph nodes, 26
 musculoskeletal system, 31,
 31–32
 neurological, 32
 thyroid gland, 27, 27
 physical pneumonitis, 540–541
 physical urine analysis, 841–843,
 842
 physicians, false diagnoses and, 10
 physiologic stimulus-induced
 vertigo, 968
 Pickwick syndrome, 503
 pigmentation disturbances, 54–56
 Addison disease, 54, 66, 752
 corticosteroids, 54
 hands, 90
 tuberous sclerosis, 54
see also hyperpigmentation;
 hypopigmentation
 pigmented gallstones, 286
 'pink puffers,' 511
 pink urine, 842
 pinna, 98
 pinpoint pupils, consciousness,
 examination of, 993
 piriform muscle syndrome, 310
 Pирингер–Кучинка syndrome, 478
 pitting edema *see* edema
 pituitary apoplexy, 210, 998
 pituitary dwarfism, 84
 voice, 102
 pituitary gigantism, 80, 81
 pituitary insufficiency
 anterior (adenohypophysis)
 causes, 754
 hypotension, 753–755
 symptoms and diagnosis, 754
 causes, 754, 755
 clinical features, 753, 754
 coma due to, 1004
 diagnosis, 755
 dwarfism, 84, 102
 pityriasis versicolor alba, 54
 placental thrombosis, hereditary
 thrombophilia, 468
 plague, 128–129
 planimetry, aortic stenosis, 642
 plantar xanthoma,
 hyperlipidemia, 228
 plaque-forming skin diseases, 60
 plasma
 hypovolemic hypotension, 757
 volume expansion, anemia,
 411–412
 plasma cell dyscrasia, 845
 plasma cell myeloma, 441–444
 classification, 443
 clinical symptoms, 442
 criteria, 444
 diagnosis, 442–443
 differential diagnosis, 443
 Durie-Salmon staging system,
 444
 skull radiograph, 442
 staging, 443–444
 plasma cell neoplasia, 439
 plasmacellular response,
 lymphocytes, 200
 plasma proteins
 hypoproteinemic edema, 383
 laboratory parameters, 1057
 meningitis, 131
 plasmatic coagulation disorder,
 455
Plasmodium falciparum, 171–172,
 174
 characteristics, 172
 course, 172
 life cycle in humans, 172, 173
see also malaria

- Plasmodium malariae*, 171
see also malaria
- Plasmodium ovale*, 171
see also malaria
- Plasmodium vivax*, 171, 174
see also malaria
- platelets
 aggregation testing, 451
 aggregation, thrombotic
 thrombocytopenic purpura, 470
 pooling, 460
- platypnea-orthodeoxia syndrome, 500
- platypnea, pulmonary dyspnea, 500
- Plaut-Vincent angina, 138
- pleocytosis, meningitis, 131
- pleomorphic adenoma
 parotid glands, 481
 salivary glands, 481
- plethysmography
 arterial occlusive disease, 317
 claudication, 315
 deep vein thrombosis, 330
- pleura
 biopsy, 247
 effusion *see* pleural effusion
 empyema, 249
 fluid analysis, 247
 friction rubs, 245
 mesothelioma, 249, 250
 neoplasms, 249
 pain
 pleuritis, 245–250
 pulmonary infarction, 543
 rub, 30
- pleural effusion, 245–247
 abdominal diseases, 248
 ascites, 783
 cardiac dyspnea, 611
 chest radiograph, 246
 clinical features, 245–246
 collagen vascular diseases, 248
 differential diagnosis, 246–247
 etiology, 245
 myxedema, 248
 pancreatic cysts, 295
 pulmonary infarction, 249
 yellow nail syndrome, 248
- pleuritis, 245
 chest pain, 245–250
- pleurodynia, 141
- pleuropericarditis, rheumatoid arthritis, 338
- plexus lesions, 305
 causes, 305
 unilateral arm pain, 306–307
 unilateral leg pain, 309
- Plummer-Vinson syndrome, 803
 skin presentations, 69
- pneumatoxis cystoids intestinalis, 285, 286
- pneumococcal vaccination, 34
- pneumococci infections
 meningitis, 133
 peritonitis, 150
 pneumonia, 524, 524–525
- pneumoconiosis, 557–560, 559
- Pneumocystis carinii* infections, 169
 interstitial pneumonitis, 167
 pneumonia, 526, 537–539
- pneumonia, 4, 141–143, 521–540
 acute eosinophilic, 547
 acute interstitial, 553–554
 adenovirus, 536
 aspiration, 528–529, 573
 bacterial, 141, 523–529
 classification, 522, 523–524
 clinical presentation, 524, 524–529, 525, 526
- pneumococcal, 524, 524–525
- pulmonary abscess
 formation, 574
- staphylococcal, 525, 525
- streptococcal, 525, 526
- superinfection, 545
- bronchiectasis, 545
- bronchiolitis obliterans
 organizing pneumonia, 511, 541, 551–553
- chronic, 545
- community-acquired, 523
 prognostic factors, 523
- eosinophilia
 acute, 547
 chronic, 547, 548
- Epstein-Barr virus, 536
- fungal, 537–539
 classification, 522
- hospital-acquired, 523
- interstitial *see* diffuse
 parenchymal lung disease (DPLD); interstitial pneumonia
- lipoid, 541
- lymphoid interstitial, 554
- measles, 536, 537
- nonspecific interstitial, 551, 553
- pulmonary infarction, 249
- staphylococcal, 525, 525
- viral, 536, 537
 classification, 522
 nonpneumotropic, 536
 paramyxoviruses, 536
- pneumonic plague, 129
- pneumonitis, 540–541
- pneumothorax
 Langerhans cell histiocytosis, 564
 primary, 250
 secondary, 250
 spontaneous, 250, 251
 differential diagnosis, acute myocardial infarction, 239
- POEMS syndrome, 130
 multiple myeloma, 442
- poikilocytosis, pernicious anemia, 407
- poliomyelitis, meningitis, 134
- polyarteritis nodosa
 Churg-Strauss syndrome *vs.*, 179
 pulmonary involvement, 180
- vessel effects, 320
- polyarthritis, 14
 chronic, 14
 hands, 90
- post-arbovirus infection, 163
- polyarthritis nodosa, 178–180
 definition, 178
 differential diagnosis, 179
 etiology and clinical features, 179
 laboratory results, 179
- polyarticular juvenile chronic arthritis, 340
- polychondritis, 348
 ears, 98, 98
 nose, appearance of, 99
- polychromatic erythrocytes, 399
- polyclonal
 hypergammaglobulinemia, autoimmune hepatitis, 778
- polycystic kidney disease, 888
 anemia, 409
- polycystic ovary disease, virilization, 73
- polycythemia
 cardiac dyspnea, 618
 skin color, 54
- skin presentations, 69
- polycythemia rubra vera, 434
- polycythemia vera (PV), 468
- polydipsia, 38–41
 primary, 41
 differential diagnosis, SIADH, 904
- polymerase chain reaction (PCR), 596
- Lyme disease, 158
- polymorphic ventricular tachycardia, 727, 727
- polymyalgia rheumatica, 12, 115, 178
 giant cell arteritis, 320
- musculoskeletal thoracic pain, 251
- polymyositis, 67, 186–187
 autoantibodies, 177
- polyneuropathy, 305
 bilateral arm/leg pain, 311
 vertigo, 973
- polyphagia, 37
- polyps
 colorectal *see* colorectal polyps
 gastrointestinal diseases/disorders, 282, 282–283
- hamartomatous, 283
see also adenomas
- polyradiculitis, 311
- polyradiculopathies, vertigo, 973
- polyserositis, systemic lupus erythematosus, 182
- polysomnography (PSG), 505
 Cheyne-Stokes breathing, 504
 hypersomnia, 1010
- polyuria, 39, 40, 842
 differential diagnosis, 41
- popliteal artery
 aneurysm, 323
 auscultation, 315
 duplex ultrasound, 329
 embolism, 322
 stenosis, 321
- Duplex ultrasonography, 318
- popliteal entrapment syndrome, 321
- peripheral artery aneurysms, 323
- pork tapeworm, 137
- porphyria cutanea tarda (PCT), 268, 270, 271
- porphyrias, 268–271
 acute intermittent, 268, 270
 differential diagnosis, 269
 enzyme defects, 269
 heme synthesis defects, 269
 pathogenesis, 268–270
 skin changes, 65
 urine appearance, 270
- porphyrin synthesis disorders, 400
- porphyrobilinogen (PBG), acute intermittent porphyria, 270
- portacaval shunts, 766
- portal hypertension, 30, 767, 784–787
 diagnosis, 785
 diseases with, 786
 intrahepatic causes, 785–786
- major collaterals, 785
- pathogenesis, 785
- posthepatitic causes, 787
- prehepatitic causes, 785
- pulmonary hypertension, 639
- venous flow impairment, 787
- portal system, angiography, 786
- portal vein thrombosis, 267, 785
 acute, 267
- portopulmonary hypertension, 639
- positive predictive value, 11
- positive pressure breathing, obstructive sleep apnea syndrome, 517
- positron emission tomography (PET)
 chronic pancreatitis, 294
 coronary heart disease, 232
^{[18F]-fluorodeoxyglucose (FDG)}, 114, 115
- postbulbar ulcers, 277
- postcapillary venules, Osler-Weber-Rendu disease, 464
- postductal stenosis, hypertension, 745
- posterior cervical contusion, 302
- posterior laryngitis, 102
- posthemorrhagic anemia, 409
- posthepatitic jaundice, 146
- posthypercapnic alkalosis, 924
- postictal state, 996
- postinfectious encephalitis, 137
- postinfectious
 glomerulonephritides, 866
- postinfectious meningoencephalitis, 133
- postinflammatory hypopigmentation, 54
- postirradiation changes, restrictive cardiomyopathy, 666
- postischemic edema, 390
- postoperative adhesions, mechanical ileus, 261, 262
- postoperative endocarditis, 155
- postoperative jaundice, 792
- postpartum headache, 210
- postprandial abdominal pain *see* abdominal pain
- 'postreceptor defect,' 39
- postrenal kidney failure, 853
 by obstruction, 853
- poststreptococcal glomerulonephritis *see* glomerulonephritis
- posttraumatic headaches, 212
- posttraumatic stress disorder, 755
- posture, 79–86
 gait, 85–86
 lying, 85
 standing, 85
- postvagotomy diarrhea, 284
- potassium distribution, 907
 excretion, 907–908
 excretion mechanisms, 907
 external balance, 907–908
- homeostasis disorders *see* potassium homeostasis disorders
- internal balance, 907
- kidney, regulation in, 907–908
- laboratory parameters, 1054–1056
- transcellular shifts, 907
- potassium homeostasis disorders, 907–914
- ECG changes, 909
- physiologic principles, 907–908
- signs and symptoms, 909
- see also* hyperkalemia; hypokalemia
- Potts shunt
 aortopulmonary connections, 698
 definition, 678
 tetralogy of Fallot, 685
- poxviruses, 124
- P pulmonale, atrial septal defect, 704
- practical procedure, diagnostic, 5–6
- Prader-Willi-Labhart syndrome, 83, 86
- precordial impulse, 612
- precursor B-cells, acute lymphoblastic leukemia (B-ALL), 423

- precordial prominence, 27, 682–683
- precursor T-cells, acute lymphoblastic leukemia (T-ALL), 423
- preeclampsia, 985
- jaundice, 792
- pulmonary edema, 632
- pregnancy
- aortic dissection, 245
 - Dubin-Johnson syndrome, 772
 - fatty liver, 790–791
 - folic acid deficiency, 408
 - hemolytic anemia, 416
 - hypertension, 746, **746**
 - jaundice, 790–792, **792**
 - preeclampsia/eclampsia, 632, 792, 985
 - thrombocytopenia, 460
- prehepatic jaundice, 145
- prepositus hypoglossi (PPH), 962
- prepyloric ventricular ulcer, 277
- prerenal azotemia, nephrotic syndrome, 869
- prerenal diseases, **853**
- kidney failure, 852–853
 - see also specific diseases/disorders*
- presbycusis, 98
- pressor-postpressor syncope, 979
- pressure curve, aortic stenosis, 640, 641
- pressure overload
- acute heart failure, **628**, 628–629
 - eccentric hypertrophy, 635
- presystolic gallop, 614
- presystolic rumble, chronic aortic insufficiency, 646
- pretibial myxedema, 384, 384
- Graves disease, 486, 487
- primary adrenal insufficiency *see Addison disease*
- primary biliary cirrhosis (PBC), 792–793
- autoantibodies, **770**
 - scleroderma, 183
- primary sclerosing cholangitis (PSC), 793
- autoantibodies, **770**
- primary atrial septal defect, 702–703
- Prinzmetal angina, 223
- ECG presentation, 223
- probability-based decision analysis, 6–7
- problem-oriented patient care, 6
- procainamide, drug-induced lupus, 181
- procalcitonin, 197
- laboratory parameters, 1056
- proctalgia fugax, irritable bowel syndrome, 285
- productive cough, pulmonary edema, 630
- progressive cyanosis, right ventricular outflow tract obstruction, 685
- progressive systemic sclerosis (PSS), 183–184
- proinflammatory cytokines, disseminated intravascular coagulation, 470
- prolactin
- deficiency, secondary hypotension, 753
 - laboratory parameters, 1056
- proliferative vascular disorders, 463–464
- prolonged nocturnal sleep, 1008
- promyelocytic leukemia, 425
- Pronator Teres syndrome, 308
- proprioceptive vertigo, 973
- prostate gland
- diseases *see prostate gland disease*
 - palpation, 31
 - prostate gland disease
 - carcinoma
 - screening, 36
 - secondary osteoporosis, 369 - postrenal kidney failure, 853
 - prostatitis, 152, 882–883
 - prostate-specific antigen (PSA), 17, 36
 - laboratory parameters, 1057
 - prostatitis, 152, 882–883
- prosthetic heart valves, hemolysis with erythrocyte fragmentation, 415
- protein electrophoresis, 1057–1058
- minimal-change glomerulonephritis, 870
- proteinuria, 841
- asymptomatic, **875**
 - bilateral renal disease, 735
 - classification, **844**
 - by body position, 876
 - consequences, 868
 - isolated, 875–876
 - minimal-change glomerulonephritis, 870
 - nephrotic syndrome, 868
 - poststreptococcal glomerulonephritis, 867
 - types, **844**
 - see also* albumin
- prothrombin time (PT), laboratory parameters, 1058
- protodiastolic gallop, 613
- protozoal infections
- meningitis, 135
 - opportunistic, 169
- provocation tests
- neurogenic limb pain, 300
 - radicular irritation, 304
- proximal interphalangeal (PIP) joints, chronic polyarthritis, 90
- proximal renal tubular acidosis, 921
- proximal tubular disorders, hypophosphatemia, 940
- pruritus, 766–767
- chronic renal failure, 860
 - pruritus sine materia, 55
- Prussian-blue staining, anemia, 401, 402
- pseudoaneurysm, 240, 323
- pseudochylothorax, 247, 248–249
- pseudochylous ascites, 784
- pseudo-Cushing syndrome, 741
- pseudocyanosis, 710
- definition, 678
- pseudocysts
- acute pancreatitis, 292–293
 - pancreatic cysts, 295, 296
- pseudocytopenia, 459
- pseudodiverticulae, 806, 806
- pseudofractures, 373–374
- pseudogout, 345–346
- pseudogynecostasia, 88
- pseudohyperaldosteronism, 911
- pseudohyperkalemia, 909
- pseudohypoadosteronism, 914
- hypotension, 755
- pseudohypokalemia, 909
- pseudohyponatremia, 901
- pseudohypoparathyroidism, 932
- pseudolymphoma, 568
- pseudomembranous colitis, 811
- Pseudomonas aeruginosa*
- infection, 14, 154, 168
 - cystic fibrosis, 515
 - nail discoloration, 76
 - petechiae and purpura, 116
- pneumonia, 141, 527
- skin changes, 72
- urinary tract infections, 847
- pseudoparesis, 353
- pseudoperitonitis, 1002
- pseudorespiratory alkalosis, 928
- pseudotumor cerebri, 211
- pseudotumors, 597
- hemophilia A, 456
- pseudo-Turner syndrome, 83
- pseudovitamin D deficiency rickets, 372
- pseudo-von-Willebrand disease, **458**
- pseudoxanthoma elasticum, 66
- skin presentation, 65
 - vessel wall, 464
- psittacosis, 142, 528
- fever without localized symptoms, 114
- splenomegaly and fever, 146
- psoriasis, nail changes, 74
- psoriatic arthritis, 342, 342–343
- differential diagnosis, 343
- psychiatric disorders, 20–21
- psychogenic disorders
- coma, 999
 - diarrhea, 821
 - hypersomnia, 1010
 - hyperventilation, acute, 928
 - seizures, 985
 - vertigo, 973
- psychoorganic syndrome (POS), 21
- psychosocial history, 26
- psychosomatic disorders, 20, 21
- see also* psychogenic disorders
- psychovegetative syndromes, 20
- signs, **11**
 - pterygium colli, 83
 - Turner syndrome, 82
- ptosis, bilateral, 993
- pudendal neuralgia, 273
- puerperal headache, 210
- pulmonary alveolar proteinosis (PAP), 564
- pulmonary arteries
- banding, atrioventricular septal defect, 694
 - dilated, 583
- pulmonary atresia, 686–687
- ventricular septal defect, 689
- pulmonary capillary wedge pressure (PCWP), 630
- pulmonary edema, 631
- pulmonary chest pain, **220**
- pulmonary congestion, 583
- auscultation, 583
 - chest radiograph, 606, 621–622
 - mitral stenosis, 655
 - stages, 622
 - supraventricular tachycardia, 606
- pulmonary diseases/disorders
- abdominal pain, 272
 - abscesses, 141, 142, 529, 529, 573–574
 - amebic, 146, 574
 - aspiration, 573–574
 - actinomycosis, 525–526
 - adenomatosis, 561
 - anthrax, 120, 143
 - cancer *see* lung cancer
 - cyanosis, 706–707
 - cysts, 565, 574
 - echinococcosis, 539, 569, 569–570
 - edema *see* pulmonary edema
 - emboli *see* pulmonary emboli
 - hemorrhage, 544
 - metastasis, 567, 568, 570, 571
 - nocardiosis, 525–526, 526
 - parasitosis, 540
- sarcoidosis *see sarcoidosis*
- special patient groups, fever, 111
- stenosis, murmur, 616
- subphrenic abscesses, pleural effusion, 248
- systemic lupus erythematosus, 182
- tumors *see lung cancer*
- see also specific diseases/disorders*
- pulmonary edema, 382, 630–632
- acute, 605
 - arterial hypertension, 635
 - acute heart failure, 628
 - acute mitral insufficiency, 649
 - causes, 630–632, **631**
 - chronic renal insufficiency, 862
 - clinical features, 630
 - coma, 1007
 - diagnosis, 630–631
 - interstitial, 541, 542
 - auscultation, 543
 - non cardiac, 631
 - pathophysiology and definition, 630
 - rales, expiratory wheeze, 611
 - special forms, 632
 - stages, 630
- pulmonary ejection click
- central cyanosis, 683
 - double inlet ventricle, 696
 - Eisenmenger syndrome, 702
 - transposition of great arteries, complete, 692
- pulmonary emboli, 145, 543–544, 544, 545
- acute myocardial infarction vs., 239
 - cancer patients, 469
 - chronic recurrent, 640
 - deep vein thrombosis, 330
 - fever, 116
 - hereditary thrombophilia, 467
 - nephrotic syndrome, 869
 - pleural effusion, 247
 - syncope, 978
- pulmonary fibrosis, 565
- drug-induced, 550, 556
 - idiopathic, 550–551, 552
 - scleroderma, 183
 - see also* diffuse parenchymal lung disease (DPLD)
- pulmonary function tests, 551
- cardiac dyspnea, 501
 - idiopathic pulmonary fibrosis, 551
 - pulmonary dyspnea, 500
 - pulmonary hypertension, 637
- pulmonary hemosiderosis, 561
- pulmonary hyperinflation, bronchial asthma, 507
- pulmonary hypertension, 583, 584, 635–640
- associated diseases, 639–640
 - atrial septal defect, 703, 705
 - atrioventricular septal defect, 694
 - central cyanosis, 683
 - classification, **636**, 638
 - clinical features, 636–637
 - definition, 635–636
 - investigation algorithm, 639
 - mitral stenosis, 655
 - primary, 584
 - pulmonary emphysema, 512
 - pulmonary insufficiency, 654
 - respiratory failure, 497
 - risk factors, 638–639
 - special studies, 637–638
 - symptoms and signs, **636**
 - syncope, 978

- pulmonary infarction, 145, 524, 543, 543–544
pleural effusion, 249
pneumonia, 249
pulmonary infiltrates
 congestive heart failure, 541–543
 eosinophilic, 546, 546–547
 HIV infection, 540
 infectious *see* pneumonia
 noninfectious, 540–545
 Wegener disease, 873
pulmonary interstitial edema *see*
 pulmonary edema
pulmonary nodules, 566–572
 hematoma, 566
 inflammatory, 569–570
 multiple, 570–573, 571
 solitary, 567, 567–570
 benign tumors, 569
 malignant neoplasms, 567, 567–569
 vanishing, 570
pulmonary opacities
 cardiophrenic angle, 578
 radiologic morphology, 521
pulmonary tuberculosis, 143, 530–534, 558
 classification, 531
 diagnosis, 530–531
postprimary, 531–534
 exudative, 531, 532
 fibroproliferative, 534, 534
 tuberculoma, 534, 534, 569
 tuberculous cavity, 531–533, 532
primary, 531
pulmonary valve
 insufficiency, 654
 mitral stenosis, 657
 murmur, 617
 outflow tract obstruction
 double inlet ventricle, 696
 transposition of great arteries, complete, 692
 stenosis, tricuspid atresia, 688
pulmonary valve, closure delay, 613
pulmonary vascular disease
 atrioventricular septal defect, 695
 central cyanosis, 682
 congestive *see* pulmonary venous congestion
 see also specific disorders
pulmonary vasculature
 aortopulmonary connections, 699
 disease *see* pulmonary vascular disease
 evaluation, 684
 transposition of great arteries, complete, 692
 see also specific vessels
pulmonary venous congestion, 605
 acute mitral insufficiency, 649
 atrioventricular septal defect, 695
 ischemic cardiomyopathy, 673
pulmonic stenosis, 642–644
 cardiac catheterization, 627
 clinical features, 644
 etiology and pathogenesis, 642
 special studies, 644
 symptoms and signs, 644
thrill, 612
pulpitis, head/facial pain, 212
pulsating exophthalmos, 94
pulse
 abnormal propagation, atrial flutter, 722
 bilateral palpation, 745
 cardiac dyspnea, 610
 carotid artery, Takayasu arteritis, 320
 chronic aortic insufficiency, 646, 648
 paradoxical, 610, 660
 peripheral, arrhythmias, 714–715
 segmental volume recordings, peripheral artery disease, 317
 submaximal rate, ergometry, 627
pulsion diverticulum, 804
pulsus paradoxus
 bronchial asthma, 507
 portal hypertension, 787
pulsus parvus, 610
 aortic stenosis, 640
pulsus tardus, 610
pupillary areflexia, unilateral, 96
pupillary motility abnormalities, 96–97
pupils, 96–97
 Argyll Robertson, 96, 97
 consciousness, 992–993
pinpoint, 993
reactions, 96–97
 consciousness, 992–993
 hysterical state, 985
pure red-cell aplasia, 411, 411
pure tone audiogram (PTA), 965
purpura, 64, 64, 116–118
 Henoch–Schönlein purpura, 867, 868
 infectious causes, 116
 noninfectious causes, 118
 senile, vessel wall, 464
 traumatic, 465
purpura-arthralgia-nephritis syndrome, 181, 181
purpuric rash, idiopathic thrombocytopenic purpura, 454
purulent meningitis, serous meningitis vs., 134
purulent sputum, 495
pustular skin diseases, 61
pustules, 118
P waves, 719, 724
 block, 717
pyelonephritis
 acute complicated, 152
 acute uncomplicated, 151–152
 chronic, 882
 urinary tract infections, 883
pygmies, 84
pylephlebitis, 146
pyloric stenosis, 279
pyoderma gangrenosum, 62, 119
pyomyositis, 119
pyonephrosis, 884
pyrazinamide, sideroachrestic anemia, 405
pyrazol, coma, 1007
pyrin gene mutation, 192
- Q**
- Q fever, 142
QRS duration, wide-complex tachycardias, 726
quadrant syndrome, 305
quality assurance, 7
 guidelines, 8
 see also evidence-based medicine
quantitative liver function tests, 769
quartan malaria, 171
 course, 172
Quebec platelet syndrome, 457, 458
- Quick prothrombin time, 1058
 diagnostic algorithm, 452
 liver disease, 462
Quincke edema, 389, 390
- R**
- rabies, 163
radiation-induced plexus injuries, 307
radiation nephritis, 882
radiation pneumonitis, 541, 541
radicular compression syndromes, 304
radicular deficit syndrome, 303
radicular lesions, bilateral, 311
radicular provocation maneuvers, 303
radicular syndromes, 273
 bilateral, 311
 causes, 303
 unilateral arm pain, 306
 unilateral leg pain, 309
radiculitis, 303, 304
radiculopathy, 302–304
 clinical findings, 302–303
 diagnostic tests, 303
 differential diagnosis, 303
 radicular compression syndromes, 304
 radiculitis, 304
radioactive iodine treatment, edema, 384
Radio-Allergo-Sorbent Test (RAST), 22
radiography
 chest *see* chest radiographs
 osteoporosis, 370
radionuclide imaging
 thyroid function and morphology, 482
 see also positron emission tomography (PET)
radiotherapy
 dental hypoplasia, 76
 radiation-induced plexus injuries, 307
 radiation nephritis, 882
 radiation pneumonitis, 541, 541
Raeder syndrome, 217
rales, 611–612
Ramsay–Hunt syndrome, 970
rapid eye movement (REM) sleep, 988, 989
rapidly progressive glomerulonephritis (RPGN), 872–878
 causes, 872–873
 classification, 872
 clinical features, 872
 differential diagnosis, 875
 extended, 873
 extrarenal symptom complex, 872
 indirect immunofluorescence staining, 874
RAST (Radio-Allergo-Sorbent Test), 22
rat bite necrosis, 185
Ratschow positioning test, 316, 317
Raynaud phenomenon, 325, 325, 465
 pulmonary hypertension, 636
 secondary, 325
RBC creatine, 396
reactive arthritis, 125, 126, 343
reactive hemophagocytic syndrome, 445
reactive lymphadenopathy, 445–447
reactive postprandial hypoglycemia, 1001
- rebound nystagmus, 967
rebound pain, 30
rebound tenderness
 acute abdomen, 257
 acute appendicitis, 263
 acute pancreatitis, 291
 differential diagnosis, 259
 peritonitis, 264
recombinant immunoblot assay (RIBA), hepatitis C, 776
rectal bleeding
 melena, 281
 ulcerative colitis, 813
rectal carcinoma, 818
rectus abdominis muscle, neuropathy, 273
red blood cells *see* erythrocytes
red cast cells, urinary sediment, 848
red eye, 97
redundant colon, 832
red urine, 841–842, 842
Reed–Sternberg giant cells, 435, 436
reentrant tachycardia, medical history, 714
refeeding syndrome
 hypokalemia, 911
 hypophosphatemia, 940
reflux nephropathy, 882
refractive media disorders, 955
refractory hypertension, 734
refractory sprue, T-cell lymphoma, 822
regurgitant systolic murmurs, 618
Reiter syndrome, 68, 68, 343
 reactive arthritis, 126
relapsing polychondritis, 348
remitting fever, 196, 196
renal artery angiography, 736, 737
renal artery stenosis
 angiography, 737
 Doppler ultrasound, 737, 737
 screening methods, 736
 screening tests, 736
renal cell carcinomas, 888–890, 889
 CT scan, 890
renal colic, 885, 885
renal cortex granulomas, genitourinary tuberculosis, 884
renal diabetes insipidus, 40–41
renal epithelial cells, urinary sediment, 849
renal failure
 acute *see* acute renal failure (ARF)
 advanced, causes, 858
 anemia, 409
 chronic *see* chronic renal failure (CRF)
 hyperkalemia, 862
 hyperparathyroidism, 376
 thrombocytopathies, 458
renal insufficiency
 acute
 hypermagnesemia, 944
 phosphate retention, 941
 chronic
 cardiovascular manifestations, 859
 clinical characteristics, 859–865
 dermatologic manifestations, 860
 gastrointestinal symptoms, 861
 general symptoms, 859
 hematologic changes, 859
 hyperkalemia, 913
 hypermagnesemia, 944
 infections, 863

- malignancies, 863
malnutrition, 861
neurologic changes, 860
phosphate retention, 941
vitamin D deficiency, 933
water, electrolyte and acid-base disturbances, 862
- diagnosis, 859, 864
differential diagnosis, 864
renal syndrome, hemorrhagic fever, with, 124
renal tubular acidosis (RTA)
differential diagnosis, 922
hyperkalemic, 921, 922
renal tubular epithelial cells, urinary sediment, 849
renal tubular necrosis
acute see acute tubular necrosis (ATN)
intrarenal kidney failure, 853
renal tubulopathies
acute necrosis see acute tubular necrosis (ATN)
intrarenal kidney failure, 853
nephritis see tubulointerstitial nephritis (TIN)
osteomalacia, 373
proximal disorders,
hypophosphatemia, 940
tubular proteinuria, 845
tubulointerstitial nephritides, 878
tubulointerstitial nephropathies, urinary sediment analysis, 847
see also renal tubular acidosis (RTA)
- renal vein thrombosis, 469
nephrotic syndrome, 869
Rendu–Osler–Weber disease, 572, 572
- renin
laboratory parameters, 1058
primary aldosteronism, 738
- renin–angiotensin–aldosterone system
mineralocorticoid hypertension, 738
volume expansion, 900
- renovascular hypertension, 735–737
causes, 736
diagnosis, 736–737
screening tests, 736
- reperfusion therapy, cardiogenic shock, 632
- reset osmostat, 903
- respiration
auxiliary muscles, 27
palpation, 28
consciousness, disturbances of, 992
physical examination, 28
types, 28
- respiratory acidosis, 925–926
differential diagnosis, 926, 926
laboratory parameters, 1018
- respiratory alkalosis, 928
laboratory parameters, 1019
- respiratory bronchiolitis, 511
- respiratory bronchiolitis-associated interstitial lung disease (RB-ILD), 554
- respiratory dysregulation, 503
- respiratory excursions, physical examination, 28
- respiratory failure, 496–500
causes, differentiation of, 496–497
clinical features, 497
definition, 496
goiter, 499
- neuromuscular, 502–503
types, 496
- respiratory infections, 14
- respiratory insufficiency, acute intermittent porphyria, 270
- respiratory rate, physical examination, 28
- respiratory syncytial virus (RSV), 139
acute bronchiolitis, 510
- restenosis, angina pectoris, 224
- resting electrocardiogram,
coronary heart disease, 230
- restless arms syndrome, 311
- restless legs syndrome, 311, 334
renal insufficiency, 860
sleep patterns, 1010
- restrictive cardiomyopathy, 665–668
causes, 666–667
clinical features and studies, 666
etiology and pathogenesis, 665–666
signs and symptoms, 666
- restrictive lung diseases, dyspnea, 496
- restrictive ventilatory defects, 498–500
pulmonary dyspnea, 500
- restrictive ventricular septal defect, 699
- reticulocytes, 396, 399
aplastic anemia, 411
- reticulocytosis, erythropoietic porphyria, 271
- retina, 97
- retinopathy, 97
- retroperitoneal fibrosis, 268
- retroperitoneal hematoma,
unilateral leg pain, 309
- retroperitoneal pain, 268
- retropharyngeal tendonitis, 212
- reversed Lasègue sign, 304
- rhabdomyolysis, acute tubular necrosis, 854
- rhabdoviruses, 163
- rheumatic fever, 343
heart disease see rheumatic heart disease
- leukocytes, 198
- skin changes, 68
- streptococcal pharyngitis, 138
- rheumatic heart disease
chronic mitral insufficiency, 652
mitral stenosis, 655
tricuspid stenosis, 659
- rheumatic nodules, rheumatoid arthritis, 338
- rheumatoid arthritis, 338, 338–340
clinical findings, 338
diagnosis, 338–339
differential diagnosis, 339
osteoarthritis vs., 349
- epidemiology, 338
extra-articular manifestations, 338
hands, 90
- pericardial effusion, 243
- pleural effusions, 248
- rheumatic nodules, 338
- rheumatoid factor
adult still disease, 339
- Felty syndrome, 339
- laboratory parameters, 1059
- polymyositis, 187
- purpura–arthralgia–nephritis syndrome, 181
- rheumatoid arthritis, 339
- spondylarthropathies, 341
- rheumatological disease
skin changes, 67–68
soft tissues *see* soft tissue rheumatism
see also specific diseases
- rhinophyma, 99
- rhinosinusitis, 509
- rhinovirus infection, common cold, 139
- Rhiz osteoarthritis, 349
- Rhodococcus equi*, 168
- rib tip syndrome, 252
- rickets
hypocalcemia, 933–934
vitamin D dependent, type 1, 372–373
- Rickettsia africae*, 121, 121
- Rickettsia conorii*, 121
- rickettsial diseases, 121, 121–122
pneumonia, 527
- Rickettsia prowazekii*, 121
- Rickettsia rickettsii*, 121
- Rickettsia typhi*, 121
- Riedel thyroiditis, 484
- right atrial tumor (myxoma) *see* atrial myxoma
- right bundle branch block, atrial septal defect, 704
- right hypochondriac abdominal pain, 259
- right hypogastric pain, 289
- right lower quadrant pain, 263–264
- right-sided heart failure *see* heart failure
- right-to-left shunt
central cyanosis, 682
- tetralogy of Fallot, 685
- right ventricle *see* ventricle, right
ringed sideroblasts, 405, 405
- risk factors, diagnosis and, 5
- risus sardonicus, 91
- Rochalimaea henselae*, 128
- Rocky Mountain spotted fever, 121
- Romberg test, pernicious anemia, 407
- Rosai–Dorfman disease, 130
chronic lymphadenitis, 479
- roseola, maculopapular exanthema, 118
- roseola syphilistica, 58
- rostral interstitial nucleus of MLF (riMLF), 962
- rotational vertigo, 969
- rotator cuff, periarthropathy humeroscapularis, 353
- Rota virus* food poisoning, 811
- Rotor syndrome, 765, 766, 772, 772
- rubella, 122, 590
embryopathy, hearing impairment, 98
- maculopapular exanthema, 118
- viral arthritis, 126
- rubeoliform exanthem, 56
- ruboeosis iritis, 212
- rugger jersey phenomenon, 374
- Rumple–Leede phenomenon, 455
- ruptured spleen, 267
- ruptures, 578
- Rutherford classification, peripheral artery disease, 315
- S**
- S1 syndrome, 309
- Salami convulsions, 983
- saccades, 958, 965
- sacular aneurysms *see* aneurysms
- sacrococcygeal joints
- ankylosing spondylitis, 341, 342
- psoriatic arthritis, 342
- reactive arthritis, 343
- sacroiliitis
- enterocolitis associated arthropathy, 343
- spondylarthropathies, 341
- saddle nose, 93, 99
- salicylates
lactic acidosis, 921
- overdose
coma, 1007
- lactic acidosis, 1004
- salivary gland diseases/disorders, 480–481
enlargement
differential diagnosis, 480
- Sjögren syndrome, 340
- neoplasms, 481
- tumors, 480
benign, 481
malignant, 481
- Salmonella* infections, 148
food poisoning, 811
- Salmonella typhi*, 147
diarrhea, 148
- salt retention
edema, heart failure, 382
- nephrotic syndrome, 868
- SAPHO syndrome, 252, 344
- sarcoidosis, 583–589, 596
acute, 585, 588
clinical features, 585–586
- diagnosis, 588–589
- differential diagnosis, 554–555
- erythema nodosum, 61
- etiology, 584
- malignancies, 589–590
- organ involvement, 587–588, 588
- pathogenesis, 584
- restrictive cardiomyopathy, 666–667
- salivary glands, 480
- specific lymphadenitis, 478
- stages, 585, 585, 586, 587
- SARS, 143, 536
- sausage finger
psoriatic arthritis, 342
- reactive arthritis, 343
- scaly exanthem, 57
- scarlatiniform exanthem, 56
- scarlet fever, tonsillopharyngitis, 138
- Schatzki ring, 803
- Scheuermann disease, 365, 366
- Schilling test, pernicious anemia, 407
- schistocytes, hemolysis with erythrocyte fragmentation, 415
- Schistosoma haematobium*, 173
- Schistosoma japonica*, 173
- Schistosoma mansoni*, 173
- schistosomiasis, 173
portal hypertension, 785
- schizophreniclike syndrome, ischemic stroke, 997
- Schmorl nodes, Scheuermann disease, 366
- Schwartz–Bartter syndrome, 903
- sciatic nerve lesion, 309
- scintigraphy
bone pain, 356
- osteomalacia, 374
- osteonecrosis, 364
- renovascular hypertension, 737
- thyroid function, 482, 482
- toxic adenoma, 487, 487
- scintillating scotoma, 214
- sclerae, 94
- scleral icterus, 94
- scleroderma, 67, 183–184
clinical symptoms, 184
- edema, 385

- facial appearance, 91
 hands, 90
 organ involvement, 184
 rapidly progressive
 glomerulonephritis, 875
 skin, 184
 scleroderma adultorum, 184
 scleroderma lung, 554, 555
 sclerosing cholangitis, secondary, 793
 sclerosis
 nodular, Hodgkin disease, 437
 systemic
 collagen vascular disease, 320
 microaneurysm, 327
 scolices, sputum, 570
 scoliosis, posture, 85
 scores, diagnosis and, 4
 screening, 33, 34–36
 see also specific conditions
 scrotum pain, nephrolithiasis, 885
 scrub typhus, 122
 second degree atrioventricular block see atrioventricular (AV) block
 second morning urine, 841
 secretory diarrhea, 810
 secundum atrial septal defect, 702
 sedatives, coma, 1007
 sedimentation tube, hemolytic anemia, 413
 see-saw nystagmus, 967
 segmental granulomatous ileocolitis, 815–816
 segmental pulse volume recordings, peripheral artery disease, 317
 seizures see cerebral seizures
 selective immunoglobulin A deficiency, 189
 selenium, 1059
 senile macular degeneration, 97
 senile purpura, vessel wall, 464
 sensorimotor dysfunction
 diarrhea, 810
 sensorineural hearing impairment/loss, 98
 sensorineural hearing loss, 98
 sensory aphasia, 101, 991
 sensory disturbances, pain, 301
 sensory neuropathies, unilateral arm pain, 308
 sepsis
 causative pathogens, 153–155
 clinical and laboratory findings, 152
 definition, 152
 fever, 152–155
 sources and predisposition, 153
 septal panniculitis, 61
 septic emboli, 153
 septic granulomatosis,
 NADH-oxidase deficiency, 191
 septic microembolisms,
 endocarditis, 155
 septic shock, 152
 differential diagnosis, 633
 septic thrombophlebitis, 156
 serine protease inhibitors Kazal type 1 (SPINK1), 293
 serotonin, carcinoid syndrome, 826
 serous meningitis see meningitis
 serum anion gap (SAG)
 definition, 920
 pathogenesis, 920
 serum enzymes, pancreatic disease, 291
 serum osmolarity, 896
 serum proteins, electrophoresis, 845
 severe acute respiratory syndrome (SARS), 143, 536
 sexual dysfunction, 48
 sexually transmitted infections, 159–161
 etiology, lifestyle factors, 13
 travel abroad, 175
 see also urinary tract infections (UTIs); specific infections
 Sézary syndrome, 440–441
 Sharp syndrome, 176, 186
 shigellosis, 148
 food poisoning, 811
 hemolytic uremic syndrome, 416
 shingles, 122
 radiculitis, 304
 shock
 cardiogenic see cardiogenic shock
 dengue shock syndrome, 175
 hypovolemic, 633
 septic, 152
 differential diagnosis, 633
 short bowel syndrome, 824
 shortness of breath see dyspnea
 short stature, 82–86
 causes, 82
 congenital syndromes, due to, 82–83
 Shulman syndrome, 68, 186
 shunt bilirubin, 763
 sialadenitis, 480
 differential diagnosis, 480
 sialadenosis, 481, 481
 differential diagnosis, 480
 sialogram, parotid swelling, 130
 sialolithiasis, 480
 sicca symptoms, Sjögren syndrome, 339
 sickle cell anemia, 14, 16, 398
 hemoglobinopathy, 417
 skin presentations, 69
 sickling test, 417
 sick sinus syndrome, 716
 siderochrestic anemia, 405
 sideroblastic anemia, 400
 siderosis, 559
 sigmoid colon, diverticulosis, 820, 820
 sigmoidoscopy, 35
 silent chest, bronchial asthma, 507
 silent myocardial ischemia, 224
 silicatosis, 559–560
 silicosis, 557–558, 558, 596, 596
 simple Mendelian genetics, 21–22
 simulated fever, 195
 simultaneous sinus tachycardia, 717
 singultus, 47
 Sintrom, 462
 sinus histiocytosis,
 lymphadenopathy, with, 130
 sinusitis, 140
 sinusitis sphenoidal, 212
 sinus node dysfunction, 716
 sinus of Valsalva
 chronic aortic insufficiency, 649
 rupture, 646
 sinus tachycardia, 721
 sinus vein thrombosis (SVT), 995
 sinus venous defect, 703
 six-minute walking test, 627
 Sjögren syndrome, 339, 339–340, 340
 clinical findings, 340
 diagnosis, 340
 parotid swelling, 130
 sialadenitis, 480
 skeletal dysplasia, short stature, 83
 skin appearance, 53–78
- Addison disease, 66, 752, 752, 753
 calcification, 64, 64
 chronic renal failure, 860
 clinical findings, 53–64
 color, 53–56
 examination method, 53
 jaundice, 767
 Köhlmeier-Degos syndrome, 272
 lesions, ischemic rest pain, 315
 pigmentary changes see
 pigmentation disturbances
 polyarteritis nodosa, 179
 porphyria cutanea tarda, 270
 psoriatic arthritis, 342
 reactive arthritis, 343
 sarcoidosis, 588, 588
 scleroderma, 183, 184, 185
 seizures, 983
 systemic disease, changes due to, 65–72
 systemic lupus erythematosus, 181, 182
 turgor disturbances, 64
 ulceration, 62
 see also entries beginning
 dermato-/cutaneous
 skin tests, bronchial asthma, 508
 sleep apnea syndrome, 211, 1009
 respiratory dysregulation, 503
 see also obstructive sleep apnea syndrome (OSAS)
 sleep attacks, narcolepsy, 984
 sleep history, 46
 sleeping sickness, 175
 coma, 995
 sleep paralysis, 984, 1009
 sleep patterns
 chronic insufficiency, 1010, 1010
 normal, 989
 sliding hernias, mechanical ileus, 261
 slipping rib syndrome, 252
 small intestinal ileus, 262
 small airway diseases, 510–511
 small bowel bacterial overgrowth (SBO), 824
 small intestine (bowel)
 adenocarcinoma, 817
 bacterial overgrowth, 824
 diarrhea, 810
 histology, 823
 ileus, 263
 lesions, 282
 lymphoma, 817
 malignant tumors, 817
 pain, 274–284
 screen, malabsorption, 821
 vitamin B₁₂ deficiency, 407
 see also specific components
 smallpox, 124
 small vessel occlusions, collagen vascular disease, 320
 smoking see tobacco smoking
 smoldering myeloma (SMM), 444
 smudge cells, chronic
 lymphocytic leukemia, 430
 Sneddon syndrome, 327
 snoring, obstructive sleep apnea syndrome, 516
 sodium, 1060–1061
 edema and, 383
 homeostasis disorders, 862, 895–906
 physiologic principles, 895–898
 volume disorders, 899–900
 see also hypernatremia;
 hyponatremia
 sodium-potassium channel blocker, Brugada syndrome, 977
 soft tissue rheumatism, 352–353
 fibromyalgia, 352
 periarthropathies, 352–353
 solitary arteriovenous fistula, 323
 solitary bone cyst, 361
 soluble transferrin receptor levels, 404
 solvents, coma, 1008
 somatic abdominal pain, 256
 somnolence, 952, 990
 sonography see ultrasonography
 sopor, 952, 990
 ischemic stroke, 997
 sore throat, definition, 802
 Sotos syndrome, 79
 South American trypanosomosis, 175
 space-occupying lesions see
 lesions, space-occupying
 specific lymphadenitis, 478
 speech disturbances, 100–102
 speech dyspnea, 609
 spherocytosis, 397
 spider nevi, 64
 chronic liver disease, 767
 liver cirrhosis, 781
 spina bifida occulta, 71
 spinal claudication, 314
 spinal disk calcification, 347
 spinal joints, psoriatic arthritis, 342
 spinal nerves, anterior rami
 neuropathy, 273
 'spina ventosa,' 588
 spine
 ankylosing spondylitis, 341, 341
 degenerative disease of, 350–351
 examination, 31
 inflammation, enterocolitis
 associated arthropathy, 343
 see also individual regions
 spiral computed tomography, 495
 spiroergometry, cardiac dyspnea, 627
 spirogram, 498
 spirometry, 497
 bronchial asthma, 507
 bronchitis, 510
 spleen
 abscesses, 151
 examination, 445–446
 infarction, 267
 osteomyelofibrosis, 435
 pain, 267
 palpation, 31
 removal, 168
 size
 enlarged see splenomegaly
 relevance, 446
 splenectomy, 168
 splenomegaly, 445–447
 ascites, 783
 endocarditis, 155
 erythrocyte shape variations, 417
 examination, 446
 fever, 146, 147
 pharyngitis, 138
 polyarteritis nodosa, 179
 polycythemia rubra vera, 434
 spondylarthropathies, 341–344
 HLA-B27 frequency, 341
 sacroiliitis frequency, 341
 undifferentiated, 344
 spondylitis
 brucellosis, 161, 162
 imaging methods, 114
 rheumatoid arthritis, 339
 spondylocidicitis, 126–127

- spondylogenic pains, radiculopathy, 303
 spondylolisthesis, unilateral leg pain, 309
 spondylosis deformans, 350–351
 spontaneous bacterial peritonitis (SBP), 783
 spontaneous nystagmus *see* nystagmus
 spontaneous pneumothorax, 250, 251
 acute myocardial infarction vs., 239
 sporadic lymphedema, 387
 spotted fever, 121
 spot urine, 841
 sputum
 bronchial asthma, 508
 bronchiectasis, 514
 bronchitis, 510
 cardiac dyspnea, 501
 expectorated sputum, 570
 pneumococcal pneumonia, 525
 production, 495
 squamous cell carcinoma, esophagus, 802
 squamous cells, urinary sediment, 847–849, 849
 stab cells, 198
 stable angina pectoris *see* angina pectoris
 staccato speech, 102
 stance, neurological examination, 32
 Stanford classification, aortic dissection, 244
 stannosis, 559
Staphylococcus aureus infection
 bone infections, 126
 endocarditis, 155
 food poisoning, 149
 sepsis, 153
Staphylococcus epidermidis infection, endocarditis, 155
Staphylococcus infections
 acute nephritic syndrome, 866
 pneumonia, 525, 525
 scalded skin syndrome, 57
 sepsis, 153–154
 skin changes, 71–72
 skin infections, 119
 stature, 79–86
 short, 82–86
 tall, 79–82
 status epilepticus, 983
 Stauffer syndrome, 889
 steatorrhea
 bile acid malabsorption, 824–825
 chronic pancreatitis, 294
 hypomagnesemia, 942
 malassimilation, 821
 normal small bowel histology, 823
 Stein-Leventhal syndrome, 73
 stent implantation
 angina pectoris, 224
 balloon dilation, 232
 technique, 224
 steppage gait, 86
 sterile leukocyturia, 847
 steroids *see* corticosteroids
 Stevens-Johnson syndrome, 59
 allergic reactions, 195
 Stewart-Treves syndrome, 388
 stiff heart syndrome, 666
 Still disease, 340
 skin presentation, 68
 stimulants, coma, 1006
 stomach
 diseases/disorders, 282–283
 adenocarcinoma, thrombosis, 469
 see also gastrointestinal diseases/disorders; specific disorders
 pain, 274–284
 surgery
 complaints following, 284
 resection, vitamin B₁₂ deficiency, 407
 see also entries beginning gastro-gastric
 stomacytosis, 398
 stomatocytosis, hereditary, 417
 storage pool defects (SPD), 457
Streptococcus moniliformis infections, petechiae and purpura, 116
 streptococcal toxic shocklike syndrome, 154
 streptococci group A infections
 lymph node enlargement, 127, 128
 peritonitis, 150
 streptococci group B infections, sepsis, 154
Streptococcus agalactiae infection, sepsis, 154
Streptococcus bovis infection, colon carcinoma, 155
Streptococcus infections
 angina, 138
 necrotizing fasciitis, 479
 pneumonia, 525, 526
 sepsis, 154
 skin changes, 71
 skin infections, 119–120
Streptococcus pneumoniae infection, 523, 524
 sepsis, 154
Streptococcus pneumoniae infections, hemolytic uremic syndrome, 416
Streptococcus pyogenes infection, sepsis, 154
 stress, atherosclerosis risk, 226
 stress echocardiography
 arrhythmias, 715
 cardiac dyspnea, 623
 chronic stable angina pectoris, 231
 dobutamine, 231
 stress testing, 34–35
 cardiac dyspnea, 627
 stress ulcers, 281
 gastric ulcers, 2
 striae rubrae, Cushing syndrome, 741, 741
 stridor, 30
 strokes, bilateral, 997
Strongyloides stercoralis, 149
 struvite stones, 887
 ST segment elevation myocardial infarction (STEMI), 235–237, 237
 stupor, 990
 Sturge-Weber syndrome, 71, 71
 sty, diabetes mellitus, 94
 subacromial irritation, diffuse idiopathic skeletal hyperostosis, 346
 subacute cutaneous lupus erythematosus (SCLE), 181
 subacute sclerosing panencephalitis (SSPE), 995
 subacute stent thrombosis, 224
 subacute thyroiditis *see* thyroiditis
 subarachnoid headache
 CCT, 207
 cerebrospinal fluid findings, 133
 subarachnoid hemorrhage, 207–208
 anterior spinal artery syndrome, 302
 coma, 995
 differential diagnosis, 208
 subclavian artery
 auscultation, peripheral artery disease, 315
 obstruction, Takayasu arteritis, 320
 occlusion, 980
 subclavian steal syndrome, 980, 980
 Takayasu arteritis, 320
 subclavian vein occlusion, 330, 331
 subdural empyema, 138
 subdural hematoma, 210, 998
 acute, 998
 chronic, 998, 999
 subendocardial ischemia, ECG changes, 232, 237
 subinfundibular stenosis, 642
 submaximal exercise capacity, 627, 627
 submaximal pulse rate, ergometry, 627
 subphrenic abscesses, pleural effusion, 248
 subungual hyperkeratosis, 74
 subungual splinter hemorrhages, 74
 subvalvular stenosis, tricuspid atresia, 688
 sudden cardiac death *see* cardiac death, sudden
 Sudeck atrophy, edema, 390
 Sudeck disease, 334
 Sudeck syndrome, 305
 Sulcus-ulnaris syndrome, 308
 sulfonamides, 710
 urinary crystals, 850
 sunburn, 14
 superficial thrombophlebitis, 328
 superinfection, pneumonia, 545
 superior laryngeal neuralgia, 217
 superior sinus venous defect, 703
 supranuclear gaze paresis, 962
 supravalvular stenosis, 642
 supraventricular extrasystoles, 719–720
 ECG presentation, 720
 supraventricular tachycardias
 clinical examination, 715
 syncope, 978
 tachycardia-induced cardiomyopathy, 674
 swallow reflex, manometry, 805
 sweat test, cystic fibrosis, 514
 Sweet syndrome, 67, 67, 118
 swineherd disease, 135
 sympathomimetic drugs, coma, 1006
 symptomatic epilepsy, 981
 symptomatic retroperitoneal fibrosis, 268
 symptoms
 cardinal, 6
 masking, 10
 nonspecific, 11
 see also individual symptoms; specific diseases/disorders
 syncope, 952–953
 acute coronary syndrome with ST elevation, 236
 aortic stenosis, 640
 arrhythmias, 714
 bradycardias, 976
 causes, 975
 diagnostic evaluation, 974–975
 differential diagnosis, 974
 history taking, 974
 overview, 951–953
 physical status, 974
 reflex vascular causes, 978–979
 syndrome of inappropriate antidiuretic hormone secretion (SIADH), 903
 syphilis, 159–161
 clinical features, 160–161
 congenital, 161
 evaluation, 160
 hemagglutination assay, 159
 laboratory diagnosis, 159
 latent, 161
 lymph node enlargement, 128
 meningitis, 135
 secondary
 rash, 118
 skin changes, 72
 tongue, 78
 serologic test results, disease stage, 160
 specific lymphadenitis, 478
 tertiary, 161
 syringobulbia, central facial pain, 217
 syringomyelia, 302
 systematic auscultation, 612, 612–613
 systemic arteriovenous fistulas, high output heart failure, 655
 systemic illness, coma, 1005
 systemic inflammatory response syndrome (SIRS), 152
 systemic lupus erythematosus (SLE), 181–183
 abdominal pain, 272
 anti-phospholipid antibody syndrome, 183
 autoantibodies, 177
 clinical diagnostic criteria, 182–183
 clinical features, 181–182, 182
 collagen vascular disease, 320
 definition, 181
 drug-induced, 181
 facial appearance, 91
 fever, 115
 immunological diagnosis, 183
 laboratory testing, 182, 183, 1026
 pericardial effusion, 243
 pleural effusions, 248
 skin manifestations, 182
 systemic mycoses, 114
 systemic necrotizing vasculitis, 307
 systemic sclerosis *see* sclerosis
 systolic ankle pressures, peripheral artery disease, 317
 systolic-diastolic murmurs, 618
 systolic dysfunction
 cardiac dyspnea, 607
 eccentric hypertrophy, 635
 systolic ejection murmur, 616, 618
 aortic stenosis, 640, 641
 arterial hypertension, 635
 chronic aortic insufficiency, 646
 hypertrophic cardiomyopathy, 664
 systolic heart failure, differential diagnosis, 607
 systolic hypertension, isolated, 732, 734
 systolic murmurs *see* heart murmurs
 systolic ventricular pressure changes, constrictive pericarditis, 661

T

tabes dorsalis, 273, 302
 central facial pain, 217
 tachyarrhythmias, 721–728
 cardiac dyspnea, 610
 classification, 721
 clinical differentiation, 721
 ECG artifact mimicking, 728,
 728
 focal, 714
 induced cardiomyopathy, 674
 induced syncope, 976
 medical history, 714
 narrow-complex tachycardia,
 721–725
 non-structural cardiac disease,
 976–978
 origin, 714
 paroxysmal supraventricular
 clinical differentiation, 721
 medical history, 714
 pulmonary edema, 630
 reentrant, 714
 structural cardiac disease, 976
 symptoms, 721
 syncope, 976–978
 termination, 721
 wide-complex, 725–728
 differential diagnosis,
 725–726
 medical history, 725
 postmyocardial infarction,
 725
 QRS duration, 726
 ratio of atrial-ventricular
 beats, 725
 ventricular activation axis,
 725–726
 wide complex tachycardia,
 725–728
see also specific types
 tachycardias *see* tachyarrhythmias
 tachypnea, 605
Taenia solium, 137
 Tahyna virus infection, 163
 Takayasu arteritis, 320
 tall stature, 79, 79–82
 childhood, 80–82
 congenital syndromes, 79–80
 Tamm–Horsfall mucoprotein, 849
 Tarsal tunnel syndrome, 310
 T cells *see* T lymphocytes
 teardrop erythrocytes,
 myelodysplastic syndrome, 411
^{99m}-technetium-labeled
 pertechnetate, thyroid function,
 482
^{99m}-technetium-labeled sestamibi
 myocardial scintigraphy, 231
^{99m}-technetium-labeled
 tetrofosmin myocardial
 scintigraphy, 231
 teeth, 76–77
 abscesses, head/facial pain, 212
 hyperparathyroidism, 375
 teichopsia, 214
 telangiectasia, 64
 chronic liver disease, 767
 Köhlmeier–Degos syndrome,
 272
 mitral stenosis, 657
 Osler–Weber–Rendu disease,
 464
 urticaria pigmentosa, 55
 telesystolic mitral insufficiency,
 615
 telesystolic murmur, 614
 temporal arteritis, giant cell
 arteritis, 320
 temporal artery
 biopsy, 178
 pain, 178

tendomyalgia, 352
 tendon xanthoma
 dyslipoproteinemia, 227
 hyperlipidemia, 228
 tenesmus, ulcerative colitis, 813
 tennis elbow, 353
 tenosynovitis, 353
 tension headache, 214–215
 tension pneumothorax, 250
 spontaneous, 250
 teratomas, 569
 neck, 477
 territorial infarcts, head pain, 209
 Terson syndrome, 207
 tertian malaria, 171
 course, 172
 tertiary esophageal contractions,
 806
 tertiary peritonitis, 150
 tertiary syphilis, 161
 testicles
 atrophy, hereditary
 hemochromatosis, 788
 pain, nephrolithiasis, 885
 testosterone, laboratory
 parameters, 1061–1062
 test results
 distribution, 7
 errors, 10
 specificity and sensitivity, 7
 tetanus, facial expression, 91
 tetracycline, teeth, discoloration
 of, 76
 tetraiodothyronine *see* thyroxine
 (T4)
 tetralogy of Fallot, 684–686, 685
 anatomy, 684–685
 auscultation, 685
 chest radiograph, 686
 clinical features, 685
 ECG, 685–686
 echocardiography, 686
 thrill, 612
 thalamic hand, 301
 thalassemia-b, 405
 thalassemias, 404–405
 hemoglobinopathy, 417
 skin presentations, 69
 target cells, 399
 thallium 201, myocardial
 scintigraphy, 231–232
 thallium poisoning, abdominal
 pain, 268
 thiamine deficiency, coma, 1005
 thiazide diuretics
 hyperparathyroidism, 375
 hypovolemic hyponatremia,
 902
 Thibierge–Weissenbach
 syndrome, 90, 183, 185
 thin basement membrane
 nephropathy, 877
 third degree atrioventricular
 block, 717, 718
 third heart sounds, dilated
 cardiomyopathy, 669
 thirst *see* polydipsia
 thirst test, 905
 thoracic deformities, cyanosis,
 683
 thoracic kyphosis, 85
 thoracic outlet syndrome (TOS),
 307, 333–334
 peripheral artery aneurysms,
 323
 thoracotomy, 250
 thrill, 612
 aortic stenosis, 640
 cyanosis, 683
 mitral stenosis, 657
 thrombin inhibitor, 463
 thromboangiitis obliterans,
 319–320
 gangrene, 315
 phlebopathy, 328
 thrombocytopathies
 acquired, 457–458
 congenital, 457, 458
see also specific disorders
 thrombocytopenia, 457, 459
 abnormal platelet production,
 460
 acute leukemia, 422
 alcohol-induced hepatitis, 779
 congenital, 458
 drug-induced, 461
 GPIIb–IIIa-receptor
 antagonist-induced, 461
 increased peripheral
 consumption, 460–461
 pernicious anemia, 407
 petechial skin hemorrhage, 455
 Waldenström disease, 444
 thrombocytopenic purpura,
 diarrhea, 148
 thrombocytosis, 457
 thrombopathy, 457
 thrombophilia
 acquired, 467, 468–469
 cancer patients, 469
 congenital, 450
 thrombophilic diathesis, 466–469
 acquired thrombophilia,
 468–469
 clinical approach, 466
 hereditary thrombophilia,
 467–468
 thrombophlebitis
 fever, 195
 septic, 156
 thrombophlebitis migrans,
 chronic pancreatitis, 296
 thromboplastin time, 1058
 thrombose par effort, 330–331
 thrombosis
 DVT *see* deep vein thrombosis
 (DVT)
 fever, 195
 idiopathic pulmonary
 hypertension, 640
 polycythemia rubra vera, 434
 risk factors, 543
 thrombotic thrombocytopenic
 purpura (TTP), 416, 460, 470
 thrush, oral *see* Chlamydia
 infection
 thunderclap headache, 215
 thymoma, 593–595
 pure red-cell aplasia, 411
 thymus gland tumors, 595, 597
 thyroglossal duct
 cysts, 476, 477
 fistulae, 476
 thyroectomy, edema, 384
 thyroid gland
disease see thyroid gland
diseases
 function, diagnostic tests, 482
hormones see thyroid
hormones
 physical examination, 27, 27
 size and morphology,
 evaluation, 482
 thyroid gland diseases, 482–489
 cancer, 484–485
 cysts, ultrasonography, 482
 hyperplasia, 483–485
 causes, 483
 nontoxic goiter, 483
 hypotension, 751
 screening, 36
see also specific
diseases/disorders

- tonsillar carcinoma, lymph node metastasis, 480
- tonsillitis, 138
- acute, perifocal cellulitis, 478
 - bacterial, 138
- tooth *see* teeth
- tophaceous gout, chronic, 345, 345
- topical neurological syndromes, unilateral leg pain, 308–310
- topical steroids, skin atrophy, 66
- topoisomerase-II inhibitor, acute myelogenous leukemia, 428
- Torsades de pointes, 727, 727
- total body sodium, 898
- Touraine-Solente-Golé syndrome, 364
- toxic adenoma, 486–487
- toxic cardiomyopathy, 669–670
- toxic epidermal necrolysis, 59–60, 60
- toxic hyperostosis, 363
- toxic hypotension, 750
- toxic leukopenia, 198
- toxic liver damage, 772
- toxic megacolon, ulcerative colitis, 814
- toxic multinodular goiter, 487–488
- toxic neutrophils, 198, 199
- toxic shock syndrome (TSS), 12, 119–120, 154
- rash, 118
 - skin presentation, 57, 119
- toxic syndromes, 1005
- toxidromes, 1005
- toxin related diarrhea, 811–812
- toxins, acute tubular necrosis, 854
- Toxocara canis*, 162
- Toxocara cati*, 162
- Toxoplasma gondii*, 128, 162
- toxoplasmosis, 128, 162
- cerebral, 137
 - fever without localized symptoms, 114
 - lymph nodes, 128
- trachea, dyspnea, 506
- tracheobronchitis, 141
- traction diverticulum, 804
- transaminases
- alcoholic fatty liver, 778
 - alcohol-induced hepatitis, 778
 - autoimmune hepatitis, 778
 - congested liver, 789
 - extrahepatic cholestasis, 793
 - hepatitis B, 774
 - hepatocellular damage, 768
 - laboratory parameters, 1022–1023
 - liver cirrhosis, 780
 - liver lesions, space occupying, 795
 - postoperative jaundice, 792
- transarterial chemoembolization (TACE), 771
- transcellular third space, 896
- transesophageal echocardiography, 625–626
- atrial myxoma, 659
- transferrin
- anemia of chronic disease, 404
 - hereditary hemochromatosis, 788
 - nephrotic syndrome, 869
 - saturation, 1064
- transglutaminase, celiac disease, 822
- transient eosinophilic pulmonary infiltrates, 546
- transient global amnesia, 991
- transient hyperlipidemia, 271
- transient ischemic attacks (TIA), 979–980
- head pain, 208–209
- migraine vs., 214
- transient myocardial ischemia, left ventricle hypertrophy, 223
- transitional epithelial cells, urinary sediment, 849
- transjugular intrahepatic portosystemic shunt (TIPS), 771
- hemolysis with erythrocyte fragmentation, 415
- translocation hyponatremia, 901
- transmural fistula, Crohn disease, 816
- transmural ischemia
- ECG changes, 232
 - left bundle branch block, 236
- transplantation *see* organ transplants
- transposition of great arteries
- complete (D-TGA), 691–693, 693
 - anatomy, 691–692
 - chest radiograph, 692–693
 - clinical features and auscultation, 692
 - double inlet ventricle, 697
 - ECG and echocardiography, 693
 - congenitally corrected (L-TGA), 693–694, 694
 - tricuspid atresia, 688, 690
 - ventricular septal defect, with, 690
- transthoracic echocardiography, 6
- transthoracic needle biopsy, 247
- transudate ascites, 784
- transudate pleural fluid, 247, 247
- trastuzumab, dilated cardiomyopathy, 670
- traumatic neuralgia, head/facial pain, 217
- traumatic purpura, 465
- traumatic vertigo, 971
- travel and tropical diseases, 170–175
- treadmill testing
- cardiac dyspnea, 627
 - peripheral artery disease, 317
- Treitz ligament, mechanical ileus, 262
- Trendelenburg test, primary varicosis, 331
- Treponema pallidum* *see* syphilis
- triage, 4, 4–5
- Trichinella spiralis*, 162
- trichinosis, 162
- tricuspid valve
- atresia, 687–690
 - atrial septal defect, 689
 - clinical features and investigations, 690
 - transposition of great arteries, with, 690, 691
 - ventricular septal defect, 689
- endocarditis, 654
- insufficiency, 653–654
- dilated cardiomyopathy, 669
 - jugular pulse, 610
 - phonocardiogram, 653
 - pulmonary hypertension, 636
 - venous congestion, 611
- regurgitant murmur, Ebstein anomaly, 706
- stenosis, 659
- murmur, 617
 - phonocardiogram, 659
- trigeminal neuralgia, 216
- trigeminus, 719
- triglycerides, nephrotic syndrome, 869
- triiodothyronine (T3)
- biosynthesis defects, 483
 - free *see* free triiodothyronine (fT3)
- laboratory parameters, 1063
- thyroid function tests, 482
- triple phosphates, urinary sediment, 850
- triplet extrasystoles, 719
- Triple X syndrome, 21
- trisomy 21 *see* Down syndrome
- trochlear nerve paresis (IV), 960
- Tropheryma whipelii*, 149, 824
- arthropathies, 343
 - endocarditis, 156
- trrophic skin changes, jaundice, 767
- tropical diseases, 14, 170–175
- see also specific diseases/disorders*
- tropical pulmonary eosinophilia, 175, 546
- tropical sprue, 823
- celiac disease, common histology, 822
 - folic acid deficiency, 409
 - iron malabsorption, 403
 - vitamin B₁₂ deficiency, 407
- troponins
- acute coronary syndrome, 238
 - elevated levels, causes, 239
 - laboratory parameters, 1064
 - non-STEMI, 235
- trypanosomosis, 175, 669
- achalaos, 804
 - coma, 995
- tubercular meningitis, 135
- cerebrospinal fluid findings, 132
- tuberculin skin test *see* Mantoux test (tuberculin skin test)
- tuberculoid leprosy, 120
- tuberculosis, postprimary pulmonary tuberculosis, 534, 534, 569
- tuberculosis, 143–144, 584
- Addison disease, 752
 - constrictive pericarditis, 660
 - diarrhea, 149
 - erythema nodosum, 61
 - exudative, 531, 532
 - fibroproliferative, 534, 534
 - hilar lymph node, 595, 595–596
 - miliary, 144, 144, 531, 533, 533
 - jaundice, 145
 - lymphopenia, 200
 - pulmonary *see* pulmonary tuberculosis
 - specific lymphadenitis, 478
- tuberculous cavity, 531–533, 532
- tuberculous effusion, 248
- tuberculous paravertebral abscess, 597–599
- tuberculous peritonitis, 150
- tubero-eruptive xanthoma, dyslipoproteinemia, 227
- tuberous sclerosis, 69, 70
- phakomatoses, 889–890
 - pigmentation disturbances, 54
- tubular proteinuria, 845
- tubulointerstitial nephritis (TIN), 878–882
- acute, 879–880
 - diagnosis, 879
 - drug causes, 879
 - urinary sediment patterns, 851
- causes, 878
- classification, 878
- diagnosis, 878
- intrarenal kidney failure, 853
- tubulointerstitial nephropathies, urinary sediment analysis, 847
- tularmia, 128
- Tullio phenomenon, 971
- tumor(s)
- anemia, 403
 - benign, 592–595
 - bone, 356
 - neck, 479
 - pleural, 249
 - pulmonary, 569
 - salivary glands, 481
 - small bowel, 817
 - see also* adenomas; polyps
 - bone marrow, 412
 - etiology, 18–20
 - lifestyle factors, 13
- extrahepatic cholestasis, 794
- fever, 194, 194
- malignant
- neck, 479–480
 - salivary glands, 481
 - see also* cancer
- markers, 17–18
- CA 19–9, 35–36
 - CA-125, 35
 - liver, 769–770
 - skin changes due to, 66–67
 - vanishing, 570
 - see also* neoplasms; specific types/locations
- tumor necrosis factor (TNF), anemia, 404
- tumor necrosis factor receptor-associated periodic fever (TRAPS), 193
- differential diagnosis, 192
- Turcot syndrome, 819
- Turner syndrome, 21, 82–83, 83
- hair loss, 73
- 24-hour urine, 841
- Cushing syndrome, 741
 - primary aldosteronism, 738
- twilight states, 991
- two-dimensional echocardiography, cardiac dyspnea, 623
- typhoid diarrhea, 148
- rose spots, 148, 148
- typhoid fever, rash, 118
- typhus, 121
- typhus exanthematicus, 121
- typical angina, definition, 221
- tyrosinemia, 65

U

ulcerative colitis, 813–814, 814, 815

ulcerative jejunitis, T-cell lymphoma, 822

ulcerative proctitis, 813

ulcers, 119, 276–279

ultrasonography

abdominal, secondary hypertension, 733

cholelithiasis, 287

Doppler *see* Doppler ultrasound

duplex *see* duplex sonography

fasting hypoglycemia, 1001

jaundice, 771

mechanical ileus, 260

renal, 882–890

umbilical abdominal pain, differential diagnosis, 259

uncal syndrome, 993

unconjugated bilirubin, 763

- undifferentiated spondylarthropathy, 344

unilateral diaphragmatic paralysis, 502–503

unilateral exophthalmos, 93, 94

unilateral hydronephrosis, 884

unilateral neurogenic arm pain, 306–308

unilateral neurogenic leg pains, 308–310

unilateral pupillary areflexia, 96

unilateral renal disease, 735

unilateral vocal cord paralysis, 506

unstable angina pectoris, 222 coronary angiography, 234

upper airway stenosis, 497, 499

urea, laboratory parameters, 1065

urease, *Helicobacter pylori* detection, 277

uremia

 - coma, 1004
 - diarrhea, 811–812
 - encephalopathy, 860
 - myopathy, 860
 - pericardial effusion, 243
 - pericarditis, renal insufficiency, 859
 - polyneuropathy, 860

ureter

 - compression, hydronephrosis, 884
 - obstruction
 - hydronephrosis, 884
 - retroperitoneal fibrosis, 268
 - urethritis, 151, 882–883

uric acid

 - calculi, 886
 - crystals, 850, 851
 - euvolemic hyponatremia, 903
 - laboratory parameters, 1065–1066
 - uricosuria, 24-hour urine, 841

urinalysis, 841

 - acute renal failure, 856
 - dipsticks, 841, 843, 843
 - microbiology, 846

urinary tract

 - diseases, 840
 - infections *see* urinary tract infections (UTIs)
 - obstruction, 884–887
 - tumors, 876
 - analgesic nephropathy, 881
 - urothelial carcinomas *see below*

urinary tract infections (UTIs), 882–884

 - causative agents, 846
 - complicated, 883
 - nitrite identification, 846–847

pH of urine, 842

special patient groups, fever, 111

uncomplicated infections, 151

urinary sediment analysis, 847

urinary sediment patterns, 851

women, 151

urinary tract syndrome, 882–887

urine

 - abnormalities
 - asymptomatic, 875–876
 - crystals, 849–850, 851
 - nonglomerular bleeding, 876
 - chloride, metabolic alkalosis, 923
 - color, 841–842
 - composition, 841
 - culture, 846
 - electrophoresis, 845
 - osmolarity, 842–843, 862
 - pH values, 842

sample collection and processing, 841

sediment, 847–851

 - analysis, 847–851
 - practical value, 850
 - typical patterns, 851
 - vaginal contamination, 847
 - volume, 842

see also urinalysis

urobilinogen, 845–846

urogenital tuberculosis, 847

uropathies, obstructive, 882

urothelial carcinomas, 890

 - analgesic nephropathy, 880
 - urticaria, 63, 119, 389–390
 - acute, 63
 - urticaria pigmentosa, 55, 56
 - mastocytosis, 363

uterine carcinoma, 13

uveitis, 97

V

vaccinations, 33–34

 - plexus lesions, 307
 - see also specific diseases*

vagal schwannoma, 479

vagal stimulation, acute coronary syndrome with ST elevation, 236

vaginal contamination, urinary sediment, 847

vaginitis, 882–883

vagotomy, diarrhea following, 284

vagotonic atrioventricular block

 - see* atrioventricular (AV) block

Valleix pressure point, radicular compression, 305

valve replacement, paravalvular regurgitation, 652

valvular aplasia, congenital, 333

valvular heart disease

 - insufficiency
 - cardiogenic shock, 632
 - echocardiography, 624
 - edema, 384
 - Kawasaki disease, 129
 - palpable thrill, 612
 - stenosis, echocardiography, 624
 - tachyarrhythmias, 976
 - see also individual heart valves*

vanishing bile duct syndrome (VBDS), 793

vanishing tumor, 245, 246

varicella, 122

 - clinical manifestations, 123
 - skin presentation, 58

varicophlebitis, 328, 328

varicose complex, 331

varicose syndrome, 331

varicose veins, 331

 - cyanosis, 681
 - primary, 331
 - secondary, 333

variegate porphyria (VP), 268, 270

variola, 124

vascular bleeding diathesis, 463–465

vascular bruits, thoracic outlet syndrome, 333

vascular imaging, peripheral artery disease, 317

vascular lung diseases

 - dyspnea, 496
 - pulmonary dyspnea, 500

vascular malformations, neck, 476–477

vascular structural defects, 464–465

vascular syncope, 978–980

 - organic (cerebrovascular)
 - causes, 979–980

vascular tumors, 360

vasculitis, 17, 115, 554

 - autoantibodies, 177
 - Churg–Strauss syndrome, 547
 - classification, 177
 - fever, 176
 - imaging methods, 115
 - large vessels, 178
 - medium-sized vessels, 178–180
 - small vessels, 180–187
 - differential diagnosis, 181

vasoactive intestinal peptide (VIP), 826

vasopressinase, 906

vasopressin, osmoregulation, 896

vasospastic Raynaud syndrome, 325

vasovagal syncope, 978

vegetarian diet, vitamin B₁₂ deficiency, 407

vegetative dystonia, fever, 193

veins

 - diseases of, 328–333
 - see also entries beginning venous; individual vessels*

vena cava superior syndrome, 596

venereal diseases

 - anorectum, 814
 - see also specific diseases/disorders*

venom, hemolytic anemia, 413

veno-occlusive disease, 790

venous claudication, 314

venous congestion

 - abdominal symptoms, 609
 - jugular vein, 610
 - signs, 609

venous edema, 385

venous flow, changes, 610–611

venous hypertension, 333

venous insufficiency, chronic, 331–333, 332

 - childhood onset, 333
 - clinical findings, 331
 - definition, 331
 - edema, 385
 - pathogenesis, 331–333
 - postthrombotic damage, 333
 - venous sinus thrombosis, 210, 210

venous thromboembolism, cancer patients, 469

venous ulcer, 332

ventilation, pulmonary cyanosis, 707

ventricle, left

 - decompensation, arterial hypertrophy, 635
 - emptying disorders, 978
 - enlargement, chest radiograph, 619–620
 - failure, 583
 - clinical manifestations, 607
 - filling disorders, syncope, 978
 - hypertrophy
 - angina pectoris, 223–224
 - chest radiograph, 619, 620
 - ECG, 618
 - isolated noncompaction, 670, 672

ventricle, right

 - arrhythmogenic cardiomyopathy
 - ECG changes, 976
 - tachyarrhythmias, 976
 - dilation, tricuspid insufficiency, 653
 - enlargement
 - chest radiograph, 620
 - heart configuration, 621
 - failure, clinical manifestations, 607
 - hypertrophy

vesicles, 118

vesicular skin diseases, 57–58

vessel walls

 - abnormal composition, 464
 - cardiac dyspnea, 610
 - infiltration of, 465

chest radiograph, 620

ECG, 618

myocardial infarction, 240

hypotension, 240

ventricular activation axis, wide-complex tachycardias, 725–726

ventricular arrhythmias

 - arrhythmogenic right ventricular cardiomyopathy (ARVC), 670

left ventricular isolated noncompaction, 670

see also specific diseases/disorders

ventricular extrasystoles, 720

ECG presentation, 720

ventricular fibrillation, 728

ventricular septal defect (VSD), 699–702, 701

anatomy and pathophysiology, 699–700

central cyanosis, 683

clinical features, 700–701

differential diagnosis, 701

double inlet ventricle, 695

heart sounds, 614

hypotension in myocardial infarction, 240

investigations, 701–702

murmur, 617

partially restrictive, 699

perimembranous, 699

pulmonary atresia, 689

right-to-left shunt, 685

thrill, 612

tricuspid atresia, 689

ventricular tachycardias

 - clinical differentiation, 721
 - clinical examination, 715
 - coronary heart disease patients, 726
 - diagnostic criteria, 726
 - fusion beats, with, 727
 - myocardial infarction, previous, 721
 - syncope, 976

ventricular extrasystoles, 720

Verner–Morrison syndrome, 826

verrucous endocarditis, 182

vertebral artery dissection, 208

vertigo, 951–953

 - auditory symptoms, 954
 - brief attacks, 955
 - cardinal disorders of, 952
 - central postural, peripheral positioning vs., 970
 - central vestibular, 972–973
 - cerebral causes, 972–973
 - definition, 951
 - duration of, 955
 - medical history, 954–956
 - multisensory, 973
 - nature of, 954–955
 - ocular, 955
 - onset, 954, 956
 - peripheral positioning, central postural vs., 970
 - peripheral vestibular, 968–971
 - phobic swaying, 973
 - physiologic stimulus-induced vertigo, 968
 - prolonged episodes, 955
 - proprioceptive, 973
 - psychogenic, 973
 - traumatic, 971

vesicles, 118

vesicular skin diseases, 57–58

vessel walls

 - abnormal composition, 464
 - cardiac dyspnea, 610
 - infiltration of, 465

vestibular disorders
central
duration, 954
vertigo, 954
duration, 954
peripheral
duration, 954
prolonged vertigo, 955
spontaneous nystagmus, 965
vertigo, 954, 968–971
see also vertigo; specific diseases/disorders
vestibular epilepsy, 972
vestibular labyrinth, anatomy, 957, 957
vestibular migraine, 972
vestibular nerve, 970
vestibular neuritis, 970
vestibular nuclei (VN), medial longitudinal fasciculus, 962
vestibular system
disorders *see* vestibular disorders
lesions, 972
vestibulo-cerebellar dysfunctions, Wallenberg syndrome, 301
vestibulo-ocular reflexes (VOR), consciousness, examination of, 993
vestibulopathy, bilateral, 971
Vibrio cholerae, 149
vigilance, 951, 988
evaluation, 991
examination, 992
increased, 990
villous adenoma, 818
VIPoma, 826
viral arthritis, 126
viral hemorrhagic fevers, 123–124, 124
viral infections
acute lymphoblastic leukemia, 423
cellular immune deficiencies, 190
erythrocyte sedimentation rate, 197
fever, 114
multiple organ involvement, 157
idiopathic thrombocytopenic purpura, 459
maculopapular exanthema, 118
meningitis *see* meningitis
myocarditis, 672, 672
opportunistic, 168
pericarditis, 242, 660
pneumonia *see* pneumonia
polyarteritis nodosa, 178
pulmonary hypertension, 637
skin, 72
skin rash, with, 122–124
thrombocytopenia, 460
see also specific organisms/infections
virilism, 73
virilization, 73
viruses
nonpneumotropic pneumonia, 536
tumor etiology, 20
see also viral infections
visceral abdominal pain, 256
visceral abscesses, 150–151
visceral leishmaniasis, 172
visceral pain, localization, 256

vital capacity (VC), 497
bronchial asthma, 507
extrapulmonary restriction, 502
vital signs
consciousness disturbances, 991
evaluation, 5, 5
vitamin B₁ deficiency, coma, 1005
vitamin B₆, sideroachrestic anemia, 405
vitamin B₁₂
deficiency
causes, 407
myelodysplastic syndrome, 432
pernicious anemia, 406, 407
laboratory parameters, 1066
vitamin C
deficiency, 464
urinary sediment, 849
vitamin D
biosynthesis, 930
deficiency
differential diagnosis, 932
hyperparathyroidism, 376
hypocalcemia, 933
hypophosphatemia, 939–940
intestinal absorption,
reduced, 939–940
metabolism diseases, 933
nephrotic syndrome, 869
osteomalacia, 371–373
excess
differential diagnosis, 936
hypercalcemia, 935
hyperphosphatemia, 941
increased intestinal absorption, 941
metabolism, 372
osteomalacia, 372
1,25-(OH)₂ vitamin D₃
biosynthesis, 933
calcium homeostasis regulation, 929
hyperphosphatemia, 937
phosphate homeostasis regulation, 929
vitamin K
deficiency, 462
oral anticoagulation, 462
vitiligo, 54, 90
vitreous body, 97
vocal cords
inflammation, 506
seizures, 983
unilateral paralysis, 506
vocal fremitus, palpation, 28
volume depletion, 899
differential diagnosis, 900
signs of, 899
volume expansion, 899
differential diagnosis, 900
increased intake, 900
signs of, 899
volume homeostasis, 896–898
feedback loop, 896–898
overview, 898, 898
volume homeostasis disorders, 899–900
clinical features, 899
diagnosis, 899
laboratory parameters, 899
see also volume depletion;
volume expansion; volume overload
volume overload
acute, 644
acute heart failure, 628, 628–629
chronic, 614, 644
volume status, 610–611
volvulus, mechanical ileus, 261
vomiting, 41
causes, 42
gastric carcinoma, 280
ketoadidotic coma, 1002
von Hippel–Lindau syndrome, 71
phakomatosis, 889
von Recklinghausen disease, 54, 54, 69–71
von Willebrand disease, 461–462
acquired, 462
clinical features, 462
pathogenesis and classification, 461
von Willebrand factor (vWF),
hemolytic uremic syndrome, 416
VOR fixation suppression, 958

W

Waldenström disease, 439, 441–444
Waldeyer tonsillar ring, 480
walking test, peripheral artery disease, 317
walking-through phenomenon, 223, 314
Wallenberg syndrome, 208, 217, 301–302
central facial pain, 217
vertigo, 954
Warthin–Starry staining, *Helicobacter pylori* detection, 277
Warthin tumor, 481
water distribution, adult body, 895
water homeostasis disorders, 862, 895–906
physiologic principles, 895–898
volume disorders, 899–900
Waterhouse–Friderichsen syndrome, 133
water intoxication, 1004
water retention
heart failure, 382
nephrotic syndrome, 868
Waterston shunt
aortopulmonary connections, 698
definition, 678
tetralogy of Fallot, 685
waxy casts, urinary sediment, 849, 850
weakness, cardiac dyspnea, 609
Weber–Christian syndrome, 87
Wegener granulomatosis, 93, 93, 180, 570, 571, 873
differential diagnosis, 181
laboratory findings, 873
organs involved, 873
polyarteritis nodosa vs., 179
weight loss
Addison disease, 752
chronic pancreatitis, 293
diabetes mellitus type 1, 39
malassimilation, 821
see also anorexia
Weil disease, 162
Wenckebach second degree atrioventricular block, 716
ECG presentation, 717

X

xanthelasma
biliary cirrhosis, 767
dyslipoproteinemia, 227
hypercholesterolemia, 228
xanthogranulomatous pyelonephritis, 883
xanthoma, tendons *see* tendon xanthoma
X-chromosomal inheritance, 22
xerostomia, 77
ximelagatran, platelet inhibition, 450
X-linked agammaglobulinemia, 189
X-linked hypophosphatemic rickets, 372–373
XYY syndrome, 80

Y

yellow fever, 175
yellow nail syndrome, 76, 76, 387
pleural effusion, 248
Yersinia enterocolitica, 149
Yersinia enterocolitica infection, 147
diarrheal disease, 811
Yersinia pestis, 128–129
Yersinia pseudotuberculosis, 149
Young syndrome, 515–516

Z

Zeive syndrome, 779
Zenker diverticulum, 804, 804
zidovudine, nail changes, 75, 75
Zieve syndrome, 410
zinc, laboratory parameters, 1066–1067
Zollinger–Ellison syndrome, 826
ulcers, 279
zona glomerulosa, mineralocorticoid hypertension, 738
zoonosis, 161–163
Zygomycetes, 169