

- Bone diseases, metabolic, 750-756, 750t. *see also* specific diseases.  
 definition of, 750  
 differential diagnosis of, 750-755  
 monogenic causes of, 755  
 treatment of, 755-756
- Bone loss, causes of, 757-758
- Bone marrow  
 hematopoiesis in, 478  
 in myelodysplastic syndrome, 485  
 in neutropenia, 519
- Bone marrow biopsy, for aplastic anemia, 483
- Bone marrow failure. *see* Hematopoietic failure.
- Bone marrow fibrosis, causes of, 492t
- Bone mineral density, 758-761, 759f  
 age and, 757-758, 758f, 760f  
 National Osteoporosis Foundation  
 recommendations for, 761t  
 osteoarthritis and, 805
- Bone sarcomas, 616
- Borchartd triad, 415-416
- Bordetella pertussis* infection, 186
- Borrelia burgdorferi*, 843  
 infection, 906
- Bortezomib, 590t  
 in multiple myeloma, 532  
 for Waldenström macroglobulinemia, 532
- Bosniak renal cyst classification scheme, 333, 333t
- Bosutinib, 494
- Botulinum toxin  
 for gastroparesis, 415  
 for headache, 997
- Botulism, 1099-1100
- Boutonnière deformity, in rheumatoid arthritis, 772
- Bovine spongiform encephalopathy, 866
- Bowel edema, tricuspid valve disease and, 84
- Bowel sounds, 373
- Bowman's capsule, 284
- Brachial plexus, 1079.e1f
- Bradycardia, 116-120  
 anatomy and physiology in, 116  
 atrioventricular conduction disturbances in, 117-120  
 autonomic regulation of heart rate in, 116  
 sinus node dysfunction in, 116-117, 118f
- Bradycardia-tachycardia syndrome, 117, 118f
- Bradycinesia, 1017
- Brain  
 biopsy of, 1066  
 function of, criteria for cessation of, 970t  
 herniation of, 965, 1067  
 mass lesion, in coma, 965-966
- Brain death, 969-970, 970t
- Brain injury, traumatic  
 future of, 1049-1050  
 management of, 1046-1048, 1047t  
 prognosis of, 1049  
 second impact syndrome in, 1046
- Brain malformations, congenital, 1024-1026
- Brain natriuretic peptide (BNP), in heart failure, 60
- Brain tissue, injury to, 1038
- Brain tumors, 1064  
 headaches caused by, 998, 999t, 1065  
 metastatic, 1064  
 visual loss caused by, 1006
- Brainstem  
 abscess of, 862  
 infarcts of, 1039  
 locked-in syndrome and, 969  
 mass lesion, in coma, 965-966  
 respiratory center in, 195
- Breast cancer, 610-612  
 dose-dense approach in, 586-587, 591  
 endocrine therapy for, 588  
 epidemiology of, 610, 610f  
 gene expression signature in, 585  
 gene silencing in, 6  
 hypercalcemia in, 620  
 male, 655  
 pathology of, 611  
 prognosis of, 611-612  
 screening for, 583  
 initial presentation and staging of, 610-611  
 of women, 702t  
 treatment of, 611
- Breast discharge, 709-710
- Breast-feeding, anticoagulation during, 573
- Breast masses, 709-710
- Breast pain, 709-710
- Breath sounds, 188
- Breath tests, 382-383
- Breathing. *see also* Respiratory physiology.  
 sleep-disordered, 971-972
- Breathing frequency, 192  
 control of, 195
- Broadbent sign, 30
- Broca's aphasia, 978
- Bromocriptine. *see* Dopamine agonist.
- Bronchi, 190-191, 190f
- Bronchial arteries, 192
- Bronchiectasis, 184, 208t, 216-217  
 cystic, 216.e1f  
 high-resolution CT in, 204
- Bronchiolar disorders, 207, 208t, 215-216. *see also*  
 Bronchiolitis; Bronchiolitis obliterans.
- Bronchioles, 190f, 191, 215.e1f
- Bronchiolitis  
 in chronic obstructive pulmonary disease, 210-211  
 respiratory, 211.e1f
- Bronchiolitis obliterans, 215
- Bronchitis  
 chronic, 184, 208, 210, 210f  
 definition of, 186  
 respiratory control in, 246  
 hemoptysis in, 186
- Bronchoalveolar cell carcinomas, 267, 593
- Bronchodilators  
 in asthma, 220  
 in chronic obstructive pulmonary disease, 217
- Bronchopneumonia, 872
- Bronchoprovocation testing, 201-202  
 in asthma, 201-202, 202f, 219-220
- Bronchopulmonary dysplasia, 183
- Bronchoscopy, 188, 205  
 for lung cancer, 267
- Bronchospasm, treatment of, 214f
- Brown-Sequard syndrome, 1048
- Brown tumors, in hyperparathyroidism, 753
- Bruce protocol, 44
- Brucellosis, 842
- Brudzinski's reflex, 966-967, 967f
- Brugada syndrome, 133
- Bruising. *see* Purpura.
- Bruits, abdominal pain with, 373
- Brush border, 284
- Bubonic plague, 844
- Budd-Chiari syndrome, 467
- Budesonide, for Crohn's disease, 422-423
- Buerger's disease, 162-163
- Bullectomy, COPD, 214-215
- Bundle branch blocks, 40-41, 42f  
 rate-related, 40-41
- Bundle branches, 17
- Buprenorphine, for opioid abuse, 1133-1134
- Burkitt's lymphoma, 526
- Burn wounds, 889
- Bursitis, 809, 810t
- C**
- C-peptide, 658
- C-reactive protein (CRP)  
 in coronary artery disease, 88  
 in rheumatic disease, 769  
 in rheumatoid arthritis, 773
- C1 esterase inhibitor, 823
- C3 convertase, 823
- C3 glomerulonephritis, 319-320, 320f
- Cabergoline, for prolactinoma, 626
- CABG. *see* Coronary artery bypass grafting (CABG).
- Cachexia  
 in HIV-infected patients, 936  
 in malignancy, 187  
 in obstructive lung disease, 214
- CAD. *see* Coronary artery disease (CAD).
- Cadmium, chronic interstitial nephritis from, 331
- CAGE questionnaire, 1128, 1128t
- Calcitonin, 634, 736  
 for hypercalcemia, 620  
 measurement of, 634  
 for osteoporosis, 762-763, 762t
- Calcitonin gene-related peptide (CGRP), for migraine, 996-997
- Calcitriol, 732-733, 735-736, 735f
- Calcium. *see also* Hypercalcemia; Hypocalcemia.  
 fractional absorption of, 732  
 homeostasis of, 732-736  
 extracellular fluid and, 732-735, 732f  
 integration of, 736, 736f-737f  
 regulatory hormones and, 735-736  
 for hyperkalemia, 305-306  
 intestinal absorption of, 732-733  
 myocardial contraction and, 18, 18f  
 renal handling of, 733  
 serum, 732  
 parathyroid hormone and, 735  
 skeletal fluxes of, 732-735  
 supplementation of, for osteoporosis prevention, 761
- Calcium bilirubinate, 469
- Calcium channel blockers, 113, 115t  
 for angina pectoris, 95  
 contraindications to, 174t  
 heart failure and, 64  
 for hypertension, 172, 173t  
 for hypertensive emergencies, 178, 179t