

- Calcium channel blockers (*Continued*)
 for nephrolithiasis, 338
 perioperative, with noncardiac surgery, 275
 for pulmonary arterial hypertension, 241
 for Raynaud's phenomenon, 163, 791
 side effects of, 174t
- Calcium oxalate deposition disease, 803
- Calcium phosphate stones, 339
- Calcium pyrophosphate dehydrate, in osteoarthritis, 806
- Calcium pyrophosphate deposition disease (CPPD), 801f, 803
- Calcium stones, 338-339
 risk factors for, 338t
- Calcofluor, fluorescent staining with, 830-831, 831f
- Caloric restriction (CR), lifespan and, 1104
- Caloric testing, 967
- Calyces, in kidneys, 282
- Campylobacter jejuni*
 diarrhea from, 900t, 901
 Guillain-Barré syndrome associated with, 1084
- Canagliflozin, for type 2 diabetes, 666t, 667
- Cancer. *see also* Tumors; specific cancers.
 complications of, 618-622, 618t. *see also*
 Hypercalcemia, cancer-associated;
 Paraneoplastic syndromes
 febrile neutropenia, 620
 spinal cord compression, 619
 superior vena cava syndrome, 619-620
 thrombosis, 568, 618-619
 diagnosis of, 585
 epidemiology methods, 579
 estimated cases and deaths from, 580f
 in gastrointestinal system. *see* Gastrointestinal cancers
 genetics of, 576-577, 577t
 hallmarks of, 576, 576t
 hereditary syndromes of, 579-580, 582t
 metastatic, 576
 staging of, 585
 mortality rates of, 581f
 origins of, 577-578
 phenotype, 576t
 prevention of, 583
 chemoprevention in, 583
 genetic testing and, 579-580, 582t
 lifestyle changes in, 583
 risk factors and, 579-583
 screening of women for, 702t
 screening for, 583
 staging of, 585
 steps toward, 577-578
 treatment of, 585. *see also* Chemotherapy;
 Radiation therapy; Stem cell transplantation
 biologic and immunologic therapy in, 590
 complications of, 618t
 diagnosis and staging, 585
 endocrine therapy in, 588
 evaluation of response in, 591
 palliative, 585-586, 591
 personalized medicine in, 590-591
 supportive care in, 591
 surgery in, 585-586
 targeted therapy in, 588-590, 589f, 590t
- Cancer of unknown primary site (CUP), 616-617
- Cancer stem cells, 578
- Candida* infection
 esophageal, 401, 401.e1f
 vaginitis, in HIV-infected women, 931
- Candidate gene approach, 10
- Candidiasis, oral, 257
- Cannabinoids, 1129t-1130t
- Cannabis, 1135-1136
- Cannon a wave, 27
- Capillaritis, pulmonary, 234
- Capnocytophaga canimorsus*, skin and soft tissue infection from, 886
- Capsaicin, topical, for osteoarthritis, 807
- Captopril, in scleroderma renal crisis, 348
- Carbamazepine, 1059, 1060t
- Carbohydrate counting, 662-663
- Carbohydrates, digestion and absorption of, 378-379
- Carbon dioxide, ventilatory response to, 195, 195f
- Carbon monoxide, binding by hemoglobin, 197
- Carbon monoxide poisoning, 263-264
- Carbonic acid, in blood, 197
- Carbonic anhydrase, in red blood cells, 197
- Carbuncle, 884
- Cardiac arrest. *see also* Sudden cardiac death.
 coma after, prognosis in, 968-969
- Cardiac arrhythmias, in sleep apnea, 245
- Cardiac catheterization, 48-49. *see also* Coronary angiography.
 in aortic coarctation, 71
 in aortic valve stenosis, 73
 in atrial septal defects, 68
 clinical evaluation algorithm for diagnostic, 276f
 in constrictive pericarditis, 138
 in mitral regurgitation, 83
 for myocardial infarction, 108
 right ventricular, 49-51, 50f, 50t
 in pulmonary arterial hypertension, 164
 in ventricular septal defects, 69
- Cardiac cycle, 19, 19f
- Cardiac dysfunction, 56-57
 monitoring of, coronary artery disease and, 277
- Cardiac index, 19-20
- Cardiac injuries
 nonpenetrating, 146, 146t
 penetrating, 147
- Cardiac output, 19-20
 determination of, 49
- Cardiac performance, 19-20
 factors affecting, 20t
- Cardiac resynchronization therapy, heart failure and, 64
- Cardiac surgery, 147-155. *see also* Cardiac transplantation; Coronary artery bypass grafting (CABG).
- Cardiac tamponade, 137-138
- Cardiac transplantation, 153-154
- Cardiac tumors, 145, 145t, 146f
- Cardioembolism, stroke caused by, 1033
- Cardiogenic shock, 263
 myocardial infarction and, 107
- Cardiomegaly, 880
- Cardiomyopathy(ies), 140-144, 141t. *see also* Heart failure.
 arrhythmogenic right ventricular, 144
 dilated, 140-142
 hypertrophic, 142
 MIR for, 51, 52f
 peripartum, 157
 restrictive, 143-144, 143t
- Cardiopulmonary bypass, 149
- Cardiorenal syndrome, in prerenal acute kidney injury, 356-357
- Cardiovascular disease
 chronic kidney disease with, 365
 clinical presentation, 22-26
 definition and epidemiology of, 22
 diabetes and, 671
 diagnosis and physical examination, 26-35
 arterial pressure and pulse, examination of, 28-30, 29f
 auscultation, 30-35
 general, 26-27
 of jugular venous pulsations, 27, 28f
 precordium, examination of, 30
 diagnostic tests and procedures for, 37-54
 abnormal electrocardiographic patterns, 39-42, 41t
 abnormalities of the ST segment and T wave, 41-42, 44f
 cardiac catheterization, 48-49
 chamber abnormalities and ventricular hypertrophy, 39-40, 41t
 chest radiography, 37-39, 37f
 computed tomography, 51-53
 echocardiography, 45-46, 45f
 electrocardiography, 38-39, 38f-39f
 interventricular conduction delays, 40-41
 long-term ambulatory electrocardiographic recording, 42-54
 magnetic resonance imaging, 51, 51f
 myocardial ischemia and infarction, 41, 43f, 44t
 noninvasive vascular testing, 53-54
 right ventricular heart catheterization, 49-51, 50f, 50t
 stress testing, 42-45
 evaluation of, 22-36
 future prospectus for, 158
 in HIV-infected patient, 937-938
 pathology of, 22
 screening of women for, 702t
 systemic lupus erythematosus and, 785
- Cardiovascular system, in Sjögren's syndrome, 818
- Cardioversion
 of atrial fibrillation, 127
 direct current, 115
- Caregiving, in older adults, 1111
- Caretaker genes, 577, 577t
- β -carotene, lung cancer and, 268
- Carotid artery
 blood supply from, 1035
 internal, stroke associated with, 1035, 1038t
 plaque in, visual loss caused by, 1006
- Carotid body, 195
- Carotid endarterectomy, 1041
- Carotid pulse, 29f