

- Adnexal components, of skin, 1142-1143
tumors of, 1152-1154, 1153f
- Adrenal carcinoma, 1133f
- Adrenal cortex, 1122-1133
- Adrenal glands, 1122-1136
changes, due to shock, 134
- Adrenal hypoplasia congenita, 1131
- Adrenal incidentaloma, 1133
- Adrenal medulla, 1122, 1133-1136
- Adrenal myelolipomas, 1133
- Adrenal neuroblastoma, 476f
- Adrenocortical adenomas, 1132f, 1132b-1133b
- Adrenocortical hyperfunction, 1123-1129
in adrenogenital syndromes, 1127-1129
in hypercortisolism (Cushing syndrome), 1123-1125
- Adrenocortical insufficiency, 1129-1132, 1129t, 1131b
primary, chronic (Addison disease), 1130-1131
secondary, 1131-1132
- Adrenocortical neoplasms, 1126-1128, 1132-1133
- Adrenocorticotrophic hormone (ACTH). *See also* Cushing syndrome.
produced by corticoprophs, 1074, 1074f
tumor classes and, 1076t, 1123, 1123t
as products of carcinoma, 1079-1080, 1080b
precursor molecule, 1079b, 1080
excess production of, 1079-1080
in medullary carcinoma, 1099
Cushing syndrome and, 1123, 1123t, 1124t, 1124b
in endocrine tumors, 1122
hyperaldosteronism, 1125-1126, 1126f, 1126b
- Adrenogenital syndromes, 1127-1129, 1128b-1129b
- Adrenoleukodystrophy, 1131, 1303
- Adult red cell (HbA), 635
- Adult stem cells, 27
- Adult T-cell leukemia/lymphoma (ATLL), 591t, 605, 606b
human T-cell leukemia virus type 1 and, 325
- Advanced glycation end products (AGEs), 1115
- Adventitia, of blood vessels, 484-485
- Adverse drug reactions (ADRs), 419-423, 420f, 420t
of acetaminophen, 422, 422f
of anabolic steroids, 422
of anticoagulants, 420-421
of aspirin, 422-423
of menopausal hormone therapy, 421
of oral contraceptives, 421-422
- Aerobic glycolysis, in cancer, 300
- Affected females, of fragile-X syndrome, 169
- Affinity maturation, in humoral immunity, 198
- Aflatoxin, 448-449
hepatocarcinogenesis and, 870-871
- Aflatoxin B₁, 323-324
- African Americans, 571-572, 635
- African trypanosomiasis, 394, 394b
- Agammaglobulinemia, X-linked (Bruton), 240-241
- Age
and breast cancer, 1053
and cancer, 278
- Agnesis, 453-454
- Age-related macular degeneration (AMD), 1338-1339, 1338f
- Aging, and heart, 525-526, 526t
- Agranulocytosis, 582-583, 583b
- Agricultural exposures, occupational health risks, 413-417
- Agyria, 1257, 1257f
- Air embolism, 128-129
- "Airway remodeling," in asthma, 681f, 682b, 683f
- Albers-Schönberg disease, 1186
- Albinism, 143
- Alcohol
abuse, 417
blood level, 417
cancer and, 277
effects of, 417-419, 419b
myopathies and, 1241
pancreatitis and, 886, 889, 889f
as teratogen, 454-455
- Alcoholic cerebellar degeneration, 1305f
- Alcoholic cirrhosis, 844f
- Alcoholic liver disease, 842-845, 842f, 845b
morphology of, 842b-843b
- Alcoholic steatofibrosis, 842b-843b, 842f
- Alcoholic steatohepatitis, 842b-843b, 843f
- Alcoholism
acute, 418-419
chronic, 419, 433
- ALDH2*2, 418
- Aldosterone-producing adenomas, 1126b
- Aldosterone suppression test, 1127
- Alexander disease, 1253
- Alimentary tract, in systemic sclerosis, 229b
- Alkaptonuria, 64
- All-*trans*-retinoic acid, 437
and congenital anomalies, 456
- Allergic bronchopulmonary aspergillosis, 683
- Allergic diseases, chronic inflammation due to, 93
- Allergic rhinitis, 735
- Allergies, development of, 204
- Allogeneic hematopoietic stem cell transplantation, 616
- Allogeneic MHC molecules, recognition of, 232
- Allograft arteriopathy, cardiac, 577
- Allografts, mechanisms of recognition and rejection of, 231-233, 237b
- Allorecognition
direct pathway of, 232
indirect pathway of, 232-233
- Alpha-thalassemia/mental retardation syndrome, X-linked (ATRX), 1121
- Alport syndrome, 924, 924b, 924f
- ALPS. *See* Autoimmune lymphoproliferative syndrome (ALPS).
- Alternative pathway, 88
- Alveolar damage, diffuse, due to shock, 134
- Alveolar rhabdomyosarcoma, 1222b, 1223f
- Alveolar walls, 670, 670f
- Alveoli, 670, 673f
- Alzheimer disease (AD), 1287-1292, 1290f, 1291f
clinical features of, 1292
molecular genetics and pathogenesis of, 1288-1290
- Amebocytes, 71
- Ameloblastoma, of oral cavity, 735
- Amenorrhea, 435
- 76-amino acid protein, 14
- Ammonia, lung diseases due to, 688t
- Amnion nodosum, 452-453
- Amniotic bands, 452, 453f
- Amniotic fluid embolism, 129, 129f
- Amphetamines, abuse of, 424-425
- Amphiboles, 691
- Amplicon length analysis, 176
- Amylin, in energy balance, 446
- Amyloid
of aging, 260
chemical nature of, 257-258
deposition within islets, 1117b-1119b
endocrine, 260
physical nature of, 257
structure of, 257f
- β-amyloid (Aβ) protein, 257
in Alzheimer disease, 1288
- Amyloid-associated (AA) protein, 257
- Amyloid light chain (AL) protein, 257
- Amyloid precursor protein (APP), 257
in Alzheimer disease, 1288
- Amyloidosis, 256-262, 261f, 262b
cardiac, 571-573, 573f
classification of, 258-262, 259t
clinical features of, 262
hemodialysis-associated, 260
and light-chain cast nephropathy, 937
localized, 260
morphology of, 260b-261b
pathogenesis of, 258-262, 258f
perivascular, 657
plasma cell disorders associated with, 258-259
primary, 258-259
properties of amyloid proteins and, 257-258
reactive systemic, 259
secondary, 99
vascular, 262
- Amyotrophic lateral sclerosis (ALS), 1300-1301, 1300b, 1301f
- Anaerobic bacteria, 382-383
- Anal canal, tumors of, 815, 815f
- Analgesics, and bladder cancer, 965
- Anaphase lag, 159
- Anaphylatoxins, 83, 89, 202
- Anaphylaxis, 89
systemic, 204-205
- Anaplasia, 268-271
- Anaplastic astrocytomas, 1307b-1308b
- Anaplastic large-cell lymphoma, 591t, 604-605, 605f, 606b
- Anaplastic (malignant) meningioma, 1314b-1315b
- Anaplastic oligodendrogliomas, 1310b
- Anaplastic seminoma, 976
- Anaplastic tumors, 270f
- Anaplastic (undifferentiated) carcinomas, 1095, 1098-1099, 1098b, 1100b
- Anasarca, in right-sided heart failure, 530
- Anchoring junctions, 11-12
- Androgen receptor (AR), in prostate cancer, 984
- Androgens, in prostate cancer, 984
- Anemia(s), 629-655
aplastic, 653-655, 653t, 654f
of blood loss, 630t, 631
of chronic disease, 652-653
classification of, 629-630, 630t
clinical features of, 630-631
defined, 629
of diminished erythropoiesis, 630t, 645-655
due to chronic renal failure, 655
due to endocrine disorders, 655
due to hepatocellular liver disease, 655
due to pure red cell aplasia, 655
- Fanconi, 653