

Subject Index

A

As the subject of this book is allergy, entries have been kept to a minimum under this reference. Readers are advised to seek more exact terms. Page references in *italics* indicate figures. vs. indicates a comparison or differential diagnosis.

- A**
- ABCD resuscitation 107, 194
- abdomen
examination 56
pain in food allergies 154
- ACE inhibitors *see* angiotensin converting enzyme (ACE) inhibitors
- acetylcholine
bronchial physiology 136
non-specific bronchial provocation 74
- acid hydrolases, anaphylaxis 104
- acquired immune response 1, 8
- acquired immunodeficiency syndrome *see* AIDS
- acrylics, oral mucosal allergies 160
- acute necrotizing ulcerative gingivitis (ANUG), oral mucosal allergies vs. 160
- acute recurrent urticaria 116
- adenoidectomy 134
- adhesion molecules
acquired immune response 8
antigen presentation 14
keratinocytes 108
- adjuvants, allergy etiology 4
- adrenalin *see* epinephrine
- affinity, definition 206
- agrepot, definition 206
- AIDS
acute necrotizing ulcerative gingivitis 160
tuberculin test 66
- airborne contact dermatitis 112
- air pollution 180, 181
allergen interaction 52, 180, 181
allergy etiology 4
- airways, hypersensitivity type 1 reactions 26
- alcohol, breast milk effects 182
- alder (*Alnus*) 38, 39
- allergen(s)
air pollution interaction 52
avoidance *see* allergen avoidance
avoidance
contact 196–204
ammoniated mercury 199
balsam of Peru 199
benzocaine 199
bufexamac 199
p-t-butyl phenol formaldehyde resin 203
cetyl steryl alcohol 199
cobalt chloride 200
dibromodicyanobutane 200
epoxy resins 200
formaldehyde 200–201
fragrance mix 201
isopropyl-*n*-phenyl-*p*-phenylenediamine 201
mercaptobenzothiazole 201
mercapto mix 201
(chlor) methylisothiazolinone 199–200
neomycin 201
nickel sulfate 201–202
paraben mix 202
paraphenylenediamine 202
phenoxyethanol 200
potassium dichromate 202
propolis 202
rosin 203
thiuram mix 203
turpentine 203
wool alcohols 203–204
zinc bis-diethyldithiocarbamate 204
- definition 206
early exposure 4
fungi 196
groups 34, 35, 36, 37
nomenclature 34
- perennial 42–45, 43, 45
properties 34, 35
seasonal 34, 35, 36–41, 37, 39, 41
sources 34, 35
yeasts 196
see also individual diseases/disorders
- allergen avoidance 84, 85
allergic rhinitis therapy 130, 131
asthma therapy 140
childhood asthma therapy 166
childhood atopic dermatitis therapy 168
climate therapy 88, 89
eyelid dermatitis therapy 151
occupational respiratory disease therapy 190
oral allergy syndrome therapy 134
primary allergy prevention 6
see also diets, elimi nation
- allergic bronchopulmonary aspergillosis (ABPA) 142, 143, 144
perennial allergen 42, 43
allergic contact conjunctivitis *see* conjunctivitis, allergic contact
- allergic contact dermatitis *see* dermatitis, allergic contact
- allergic granulomatous angiitis *see* Churg–Strauss syndrome
- allergic respiratory disease, occupational disorders 190, 191
- allergic rhinitis *see* rhinitis, allergic
- allergic rhinoconjunctivitis *see* rhinoconjunctivitis, allergic

- A** allergies
 causes 4, 5
 childhood *see* childhood allergies
 clinical manifestations 52, 53
 definition 2, 3, 206
 ear, nose and throat 124–135
 emergencies *see* anaphylaxis
 environmental effects 180–185
 eye diseases 146–151
 frequency 4, 5
 gastrointestinal tract diseases 152–161
 and immunizations 172–175
 immunological interactions 174, 175
 lung diseases 136–145
 occupations *see* occupational disorders
 prevention *see* allergy therapy, preventive
 psychology 176–179
 seasonal 36
 sensitization phase 52, 53
 skin diseases 108–123
 therapy *see* allergy therapy
see also individual diseases
- allergy diagnosis 54–83
 history 54, 55
 physical examination 56, 57
 testing *see* allergy testing
- allergy testing 56, 58–83
 complications 58
 contraindications 58, 59
 influencing factors 60, 61
in vitro tests 60, 61, 80–83, 81, 83
 method choice 60, 61
 potential errors 58
 provocation tests 60, 61
 standardization 58, 59
see also individual tests
- allergy therapy
 climate therapy 88, 89
 immune therapy 90
 perennial allergies 92, 93
 preventive 6, 7, 84–88
 primary 84, 85
 secondary 84, 85
 tertiary 84, 85, 86
 seasonal allergies 92, 93
 “therapy shopping” 179
see also individual diseases/disorders; individual therapies
- allopurinol, toxic epidermal necrolysis 120
- a-fetoprotein (AFP), during pregnancy 162
- a-sympathomimetics 98, 99
- Alternaria alternata* 38, 39
- alveoli, anatomy and physiology 136, 137
- alveolitis
 extrinsic allergic *see* extrinsic allergic alveolitis (EAA)
 as hypersensitivity type III 24
- amines, biogenic *see* biogenic amines
- aminoglycosides
 oral mucosal allergies 160
 during pregnancy and breast feeding 195
- ammoniated mercury, as contact allergen 199
- analgesic drugs
 allergic drug reactions 50
 anaphylaxis 102
 during pregnancy and breast feeding 195
see also individual drugs
- anaphylactoid reactions 102, 103
- anaphylaxis (anaphylactic shock) 24, 102–107, 103, 105, 107
 allergy testing complications 56
 causes 102, 103, 105
 clinical features 104, 105, 106, 107, 193–194
 definition 104, 206
 drug-induced hypersensitivity type I 50
 food allergies 48
Hymenoptera stings 44
 iatrogenic allergen exposure 102, 103
 incidence 102
 natural allergen exposure 102, 103
 pathogenesis 104, 105, 106, 107
 staging 104, 105
 therapy 104, 105, 106, 107, 193–194
 corticosteroid 96, 104
see also hypersensitivity type I (immediate)
- anemia
 hemolytic *see* hemolytic anemia
 pernicious 156, 157
- angioedema 116, 117
 anaphylactic shock 106
 drug-induced hypersensitivity type I 50
 food allergies 48
Hymenoptera stings 44
 pharynx/larynx allergic diseases vs. 134
- angiotensin converting enzyme (ACE) inhibitors
 angioedema etiology 116
Hymenoptera stings 44
 hyposensitization in anaphylaxis 102
 pseudoallergies 2
- “angry back” syndrome 64
- animal hair allergy
 indoor living conditions 184
 perennial allergic rhinitis 128
 secondary prevention 84
see also individual animals
- animals
 as perennial allergens 42, 43
see also individual animals
- anosmia, definition 206
- anterior rhinoscopy, nasal polyp diagnosis 132
- anti-allergy medications
 during pregnancy and breast feeding 195
see also antihistamines; corticosteroids
- antibiotics
 allergic drug reactions 50
 anaphylaxis 102
 childhood atopic dermatitis therapy 168
 oral mucosal allergies 160
 during pregnancy and breast feeding 195
 pseudoallergies 2
 vaccines 172
see also individual antibiotics
- antibodies *see* immunoglobulin(s)

- antibody-dependent cell-mediated cytotoxicity (ADCC) 28
- anticholinergic drugs 98, 99
- antigen presentation 8, 13, 14, 15
 - conjunctiva 146
 - to T helper cells 175
 - tonsils 126, 127
- antigen-presenting cells (APCs) 8, 12, 13
 - atopy 174, 175
 - definition 206
 - dermis 108
 - function modulation 174, 175
 - nasal mucosa 126
 - T cell interaction 14, 15
- antigen processing 8, 13
 - definition 206
 - tonsils 126, 127
- antigens, definition 206
- anti-gliadin antibodies, celiac disease diagnosis 156
- antihistamines 94
 - allergic rhinitis therapy 130
 - allergic rhinoconjunctivitis therapy 148
 - anaphylactic shock therapy 106
 - anaphylaxis therapy 104
 - anticholinergic features 94
 - childhood asthma therapy 164
 - emergency kits 106
 - Hymenoptera* sting therapy 44
 - indications 94
 - mechanism of action 95
 - pharynx/larynx allergic diseases therapy 134
 - side effects 94
 - urticaria therapy 116
- anti-inflammatory drugs
 - asthma therapy 140
 - see also individual drugs*
- antineutrophilic cytoplasmic antibodies (cANCA), Wegener's granulomatosis 118
- anti-RhD prophylaxis 170
- anxiety, anaphylaxis 104
- aphthae, oral mucosal allergies vs. 160
- apoptosis
 - cytotoxic T cells, induction by 32
 - definition 206
 - FAS ligand 32
- appendix 152
- apples, birch pollen allergy 34
- arachidonic acid metabolism, anaphylactoid reactions 102, 103
- arthropod venoms, anaphylaxis 102, 103
- Arthus reaction
 - hypersensitivity type III 28
 - from vaccines 172
- ash (*Fraxinus*) 38
- Aspergillus fumigatus* *see* allergic bronchopulmonary aspergillosis (ABPA)
- aspirin pseudoallergy, nasal polyps 132
- astemizole 94
- asthma 130
 - allergy testing complications 56
 - atopic dermatitis 114
 - bronchial 130, 131
 - childhood 166, 167
 - clinical features 166, 167
 - diagnosis 166
 - mast cell stabilizer therapy 96
 - pathogenesis 166, 167
 - therapy 164, 166, 167
 - clinical features 140, 141
 - definition 206
 - diagnosis 140, 141
 - differential diagnosis 140
 - epidemiology 138
 - etiology 138, 139
 - food allergies 48, 154
 - hypersensitivity type I reaction 24
 - drug-induced 50
 - immunization contraindication 172
 - immunopathogenesis 138, 139
 - morphological changes 138, 139
 - pathology 131, 141
 - prevalence 4, 5, 6
- asthma therapy 140, 141
 - childhood 164, 166, 167
 - climate therapy 88
 - corticosteroids 96
 - leukotriene antagonists 98
 - mast cell stabilizers 98
- during pregnancy and breast feeding 195
- atelectasis, allergic bronchopulmonary aspergillosis 142
- atopic dermatitis *see* dermatitis, atopic
- atopic keratoconjunctivitis *see* keratoconjunctivitis, atopic
- atopy
 - antigen-presenting cells 174, 175
 - definition 2, 206
 - genetic determination 6
 - patch test 64
 - prophylaxis 6, 7
- autoimmune diseases
 - allergic drug reactions 50
 - antigen-presenting cells 174
 - eosinophilia 122
 - etiology 174
- autoimmune gastritis, pernicious anemia 156
- azelastine 95

B

- "baboon syndrome" 120
- bacterial infections, allergy
 - etiology 4
- bakers, occupational allergic contact dermatitis 188, 189
- baker's asthma 190
- baker's rhinitis 190
- balsam of Peru, as contact allergen 199
- barbers, occupational allergic contact dermatitis 188, 189
- barbiturates
 - allergic drug reactions 50
 - anaphylaxis 102
 - during pregnancy and breast feeding 195
- barley (*Hordeum vulgare*) 40
- basal membrane (skin), anatomy and physiology 108, 109
- basophil(s) 12
 - development 12, 13
 - hypersensitivity type I 26, 27
- basophil degranulation
 - allergic rhinitis 128
 - immunoglobulin stimulation 16

- C** basophil degranulation test (BDT) 82, 83
- B** cells
activation 16, 17, 126
antigen-presenting cell modulation 174
definition 206
development and function 16, 17
mucosa-associated lymphoid tissue 22
nasal-associated lymphoid tissue 126
production and maturation 10
T cell interaction 8
- bees (*Apis*), venom allergy 44, 45
- Behçet disease, oral mucosal allergies vs. 160
- benzocaine, as contact allergen 199
- benzodiazepines, during pregnancy and breast feeding 195
- benzothiadiazine, drug induced hypersensitivity 50
- beta-blockers
Hymenoptera stings 44
hyposensitization contraindication 92, 102
- b-lactam antibiotics, drug-induced hypersensitivity type 1 50
- b₂-sympathomimetic agents
anaphylaxis therapy 104, 106
asthma 140
emergency kits 106
during pregnancy and breast feeding 195
- bile acids 152
- biogenic amines
food allergy vs. 154
intake in food intolerance 48
pseudoallergies 2
see also histamine
- biopsies, celiac disease diagnosis 156
- birch pollen, apple allergy 34
- bird keeper's lung 144
- birds, as perennial allergens 42, 43
- blepharitis 150, 151
atopic conjunctivitis 148
- blisters, acute toxic dermatitis 110
- blood expanders *see* plasma expanders
- blood products, anaphylaxis 102
- bone marrow 10, 11
- bowel motility, as protective mechanism 152
- bowel wall eosinophilia 158, 159
- Bowman membrane, cornea 146
- bradykinin
allergic rhinitis 128
anaphylaxis 104
- breast feeding 182, 183
atopy reduction 6
medications (mother) 195
- breast milk, composition 162, 182
- bronchi
anatomy and physiology 136, 137
glands 138
hyperreactivity 72, 130
- bronchial asthma *see* asthma
- bronchial provocation tests 74–77, 75, 77
allergen provocation 76, 77
non-specific 74, 75, 76, 77
obstruction measurement 74, 75
- bronchiolitis, childhood
asthma 166
- bronchitis
asthma 131
chronic nonobstructive, asthma vs. 140
eosinophilic 138
- bronchoalveolar lavage, extrinsic allergic alveolitis diagnosis 144
- bronchoconstriction
anaphylactic shock 106
asthma 138
- bronchodilators
asthma therapy 140
childhood asthma therapy 164
- bronchospasm, anaphylaxis 104
- bronchus-associated lymphoid tissue (BALT) 10, 22
see also mucosa-associated lymphoid tissue (MALT)
- bufexamac, as contact allergen 199
- bullous pemphigoid, eosinophilia 122
- burning, anaphylactic shock 106
- p-t-butyl phenol formaldehyde resin, as contact allergen 203
- C**
- C1 esterase inhibitor deficiency, angioedema etiology 116
- Can d I, dog allergen 43
- candidal stomatitis, oral mucosal allergies vs. 160
- carbamol, non-specific bronchial provocation 74
- carbamazepine
allergic drug reactions 50
toxic epidermal necrolysis 120
- carbon monoxide, air pollution 180
- cardiovascular abnormalities, anaphylaxis 104
- catarrhal stomatitis, oral mucosal allergies vs. 160
- cats, as perennial allergens 42, 43
- causes, of allergies 4, 5
- CD4 cells *see* T helper cells
- CD4 molecule 10
- CD8 cells *see* cytotoxic T cells
- CD28 14
- CD86 14
- celiac disease 156, 157
- cell adhesion molecules *see* adhesion molecules
- cellular antigen stimulation test (CAST) 82, 83
- cellulitis, eosinophilic 122
- cephalosporins
anaphylaxis 102
penicillin cross-reactivity 34
during pregnancy and breast feeding 195
- cetirizine 94
- cetyl steryl alcohol, as contact allergen 199
- Chaetomium globosum*, as perennial allergen 42
- Charcot-Leyden crystals, asthma 140

- chemokines 18, 19
 eosinophil recruitment 132
 fibroblast production 108
 mast cells 12
 production in skin 108
see also cytokines
- chemosis, conjunctivitis 146
- chemotaxis, definition 206
- chestnut (*Aesculus*) 38, 39
- chief cells, stomach 152
- childhood allergies 162–171
 atopic dermatitis *see* dermatitis, atopic
 childhood
 breast feeding (breast-feeding) 162, 163
 diagnosis 164, 165
 immunological background 162, 163
 therapy 164, 165
- childhood asthma *see* asthma, childhood
- childhood sprue 156, 157
- (chlor) methylisothiazolinone, as contact allergen 199–200
- chlorpheniramine 94
- chlorpromazine 94
 photoallergic contact dermatitis 112
- cholinergic urticaria 68
- chronic nonobstructive bronchitis, asthma vs. 140
- chronic obstructive pulmonary disease (COPD)
 asthma vs. 140
 as occupational disease 190
- Churg–Strauss syndrome 118, 119, 142, 143, 192
 Wegener's granulomatosis vs. 142
- CIE (crossed immunoelectrophoresis) 82, 83
- Cladosporium* 38, 39
- class switching of immunoglobulins 10, 16, 17
- cleansers, skin diseases 100, 101
- clemastine 94
- climate therapy 88, 89
 childhood atopic dermatitis therapy 168
 ultraviolet irradiation 88, 89
- clinical manifestations, allergies 52, 53
- cobalt, oral mucosal allergies 160
- cobalt chloride, as contact allergen 200
- codeine, urticaria 116
- cold agglutinin disease, non-allergic urticaria 68
- cold tests 68, 69
- colonoscopic allergen provocation (COLAP) test 78, 79
- colonoscopy, food allergy diagnosis 154
- combination effect, definition 206
- compensatory behavior 178
- complement
 anaphylactoid reactions 102
 hypersensitivity type III 24, 28
 tears 146
 urticaria 116
- computerized tomography (CT)
 allergic bronchopulmonary aspergillosis 142
 extrinsic allergic alveolitis diagnosis 144
 nasal polyp diagnosis 132
- conchae 124
- conjunctiva 146, 147
- conjunctival provocation tests 72, 73
- conjunctivitis
 allergic contact 146, 150, 151
 antihistamines 94
 atopic conjunctivitis 148, 149
 eyelid edema 151
 giant papillary conjunctivitis *see* conjunctivitis, giant papillary
 mast cell stabilizer therapy 96
 pathophysiology 146
 rhinoconjunctivitis *see* rhinoconjunctivitis, allergic
 vernal keratoconjunctivitis *see* keratoconjunctivitis, vernal
 giant papillary 148, 149, 150
 eyelid edema 151
- connective tissue fibers, skin 108
- contact allergens *see* allergen(s), contact
- contact dermatitis 46
see also dermatitis, allergic
 contact
- contact lenses
 contact conjunctivitis 150
see also conjunctivitis, giant papillary
- contact stomatitis 134
- contrast materials, pseudoallergies 2
- copper, contact dermatitis 46
- corn (*Zea mays*) 40
- cornea 146, 147
- corticosteroids 96
 allergic bronchopulmonary aspergillosis therapy 142
 allergic rhinitis therapy 130
 allergy test contraindication 60
 anaphylactic shock therapy 106
 anaphylaxis therapy 104
 asthma therapy 140
 atopic conjunctivitis therapy 148
 childhood allergy therapy 164
- Churg–Strauss syndrome therapy 142
- emergency kits 106
- extrinsic allergic alveolitis therapy 144
- Hymenoptera* sting therapy 44
- mechanism of action 96, 97
- pharynx/larynx allergic diseases therapy 134
- during pregnancy and breast feeding 195
- properties and effects 96, 97
- side effects 96, 97
- topical *see* corticosteroids, topical
- vaccination contraindication 172
- vernal keratoconjunctivitis therapy 148
see also individual drugs
- corticosteroids, topical
 allergic contact dermatitis treatment 112
 atopic dermatitis therapy 114
 childhood asthma therapy 166

- D**
- corticosteroids, topical
 - childhood atopic dermatitis therapy 168
 - contact conjunctivitis therapy 150
 - eyelid dermatitis therapy 150
 - nasal polyp therapy 132
 - vernal keratoconjunctivitis therapy 148
 - coupled allergy, allergic contact dermatitis 112
 - CRE (crossed radioimmunoelectrophoresis) 82
 - Crohn disease 158, 159
 - oral mucosal allergies vs. 160
 - cromolyn 96
 - allergic rhinoconjunctivitis therapy 148
 - asthma therapy 140
 - childhood asthma therapy 164
 - food allergy therapy 154
 - during pregnancy and breast feeding 195
 - crossed immunoelectrophoresis (CIE) 82, 83
 - crossed radioimmunoelectrophoresis (CRE) 82
 - cross-reactions 174
 - between allergens 34
 - definition 206
 - drugs 50
 - molecular mimicry 175
 - mugwort (*Artemisia vulgaris*) 40, 41
 - tree pollens 38
 - cryoglobulinemia, non-allergic urticaria 68
 - cumulative toxic dermatitis 47, 110, 111
 - Curschmann spirals, asthma 140
 - cutaneous drug reactions 120, 121
 - cutaneous lymphocyte associated antigen (CLA) 20
 - food allergies 48
 - cutaneous vasculitis, Churg–Strauss syndrome 142
 - cyclophosphamide, Churg–Strauss syndrome therapy 142
 - cyclosporin A eye drops 148
 - cypress (*Cupressus*) 38
 - cystic fibrosis, nasal polyps 132
 - cytokines 18, 19
 - acquired immune response 8
 - asthma 138
 - B cell activation 16
 - definition 206
 - diesel pollution effects 180
 - helper T cell production 9, 18
 - hypersensitivity type I reactions 24, 26
 - mast cells 12
 - proinflammatory 18
 - skin, production in 108
 - T cell differentiation 14
 - see also chemokines
 - cytotoxic T cells 12, 20
 - activation 32, 33
 - antigen presentation 8
 - definition 206
 - development 14, 15
 - hypersensitivity type IV 24, 32, 33
 - maturation and function 15
 - mechanism of action 32, 33
- D**
- daily pollen reports, secondary prevention 84
 - dapsone, dermatitis herpetiformis therapy 156
 - Darier sign 56
 - defensins, as immunological barrier 1
 - delayed hypersensitivity see hypersensitivity type IV (delayed)
 - dendritic cells
 - definition 206
 - development 13
 - lymph nodes 10
 - skin 108, 109
 - Dennie–Morgan lines, atopic dermatitis diagnosis 56
 - dental material allergy 134, 160
 - depression, allergies 176
 - Der f 1, house dust mite allergen 42
 - Der f 3, house dust mite allergen 42
 - dermatitis
 - acute 110, 111
 - airborne contact 112
 - allergic contact 47, 113, 121
 - airborne 112
 - allergens 46
 - classification 47
 - coupled allergy 112
 - diagnosis and treatment 112
 - group allergy 112
 - hypersensitivity type IV 24, 46
 - indoor living conditions 184
 - nickel 110
 - occupational disorders 188, 189
 - photoallergic see dermatitis, photoallergic
 - reaction mechanisms 46
 - secondary allergy 112
 - atopic 114, 115
 - atopic conjunctivitis association 148
 - childhood see dermatitis, atopic childhood
 - climate therapy 88
 - corticosteroid therapy 96
 - diagnosis 56
 - dietary measure 86, 87
 - food allergies 48
 - immunization contraindication 172
 - non-pharmacological management 100, 101
 - oral provocation tests 78
 - prevalence 4, 5, 6
 - psychological effects 178
 - ultraviolet irradiation therapy 88
 - atopic childhood 114, 115
 - epidemiology 168
 - pathogenesis and clinical features 168, 169
 - predisposing factors 168, 169
 - therapy 168, 169
 - chronic 111
 - contact 46
 - contact conjunctivitis 150
 - definition 206–207
 - diagnosis and treatment 112, 113
 - differential diagnosis 112, 113
 - eczema vs. 46, 110
 - pathogenesis and clinical features 110, 111

- photoallergic 112
 drug-induced hypersensitivity type IV 52
 patch testing 64
 seborrheic 150
 toxic 46
 acute 47, 110, 111
 cumulative 47, 110, 111
 reaction mechanisms 47
see also eczema
- dermatitis herpetiformis, celiac disease association 154
- Dermatophagoides pteronyssinus* *see* house dust mites
- dermatophytes, dermatitis 110
- dermis, anatomy and physiology 108, 109
- dermographism 68, 69
- Der p 1 34
- Descemet membrane 146
- dextran
 allergens in vaccines 172
 direct mast cell stimulation 102
- diabetes mellitus type I, antigen-presenting cells 174
- diagnosis of allergies *see* allergy diagnosis
- diapedesis 20
- diarrhea, food allergies 154
- dibromodicyanobutane, as contact allergen 200
- diesel pollution 180
- diet, allergy sensitization 52
- diets, elimination 86, 87
 atopic dermatitis 86, 87
 celiac disease therapy 156
 food allergy therapy 154
 migraine in children 170
 nickel 86, 87
 oral provocation tests 78
 pseudoallergies 86, 87
 ulcerative colitis 158
see also allergen avoidance
- dimetinden maleate 94
- diphenhydramine 94
 during pregnancy and breast feeding 195
- disinfectants, allergic contact dermatitis 110
- disodium cromoglycate *see* cromolyn
- dobutamine, anaphylaxis therapy 104
- dogs, as perennial allergens 42, 43
- drug reactions 50, 51, 52
 background 50, 51
 causes and mechanisms 50, 51
 definition 50, 51
 skin 120, 121
- duodenum, anatomy 152
- dysphonia, anaphylaxis 104
- dyspnea, anaphylaxis 104
- E**
- ear, allergies 124–135
- eczema
 definition 207
 dermatitis vs. 46, 110
see also dermatitis
- eczema herpeticum 168
- eczema vaccinatum 172
- edema
 acute toxic dermatitis 110
 asthma 138
 conjunctivitis 146
 corticosteroid side effects 96
 dermatitis 110
 inflammatory 138
- effector cells, definition 207
- egg-related allergies, vaccines 172
- elimination diets *see* diets, elimination
- ELISA *see* enzyme-linked immunosorbent assay (ELISA)
- elm (*Ulmus*) 38
- emergencies, allergic 102–106, 107
see also anaphylaxis
- emergency kits, anaphylactic shock 106, 107
- emollients, skin diseases 100, 101
- emotional stress, allergy clinical manifestations 52
- endemic sprue 156, 157
- endonasal ethmoid surgery, nasal polyp therapy 132
- endoscopy, food allergy diagnosis 154
- endothelial cells, dermis 108
- ENT (ear, nose and throat) allergies 124–135
- environment, allergies and 180–185
- enzyme-linked immunosorbent assay (ELISA)
- celiac disease diagnosis 156
- IgE measurement 80, 81
- enzymes, anaphylaxis 102
- eosinophil(s) 12
 associated diseases 122, 123
 cytokine production 158
 degranulation 16
 development 12, 13
 function 158
 high levels *see* eosinophilia
 hypersensitivity type I reactions 26
 immunoglobulin stimulation 16
 mediators and actions 123
 recruitment 132
- eosinophil-derived neurotoxin (EPX) 158
- eosinophilia 122, 123
 Churg–Strauss syndrome 142
 nasal polyps 132
- eosinophilic bronchitis 138
- eosinophilic cationic protein (ECP)
 allergic rhinitis 128
 eosinophils, production by 158
 measurement 82, 83
- eosinophilic cellulitis 122
- eosinophilic fasciitis 122
- eosinophilic gastroenteritis 158, 159
- eosinophilic leukemia 122
- eotaxin 18
 asthma 138
 eosinophil recruitment 20, 132
 fibroblast production 108
 production and function 19
- ulcerative colitis 158
- epidermis (skin)
 anatomy and physiology 108, 109
 as immunological barrier 1
- epinephrine
 anaphylaxis therapy 104, 106
 bronchial physiology 136
 emergency kits 106
Hymenoptera sting therapy 44
- epithelial cells
 gastric mucosa 152
 as immunological barrier 1

- G**
- epithelial cells
 - as innate immune response 8
 - nasal mucosa 126
 - epitopes, definition 207
 - epoxy resins
 - as contact allergen 200
 - oral mucosal allergies 160
 - erythema
 - acute toxic dermatitis 110
 - anaphylaxis/anaphylactic shock 104, 106
 - conjunctivitis 146
 - dermatitis 110
 - Hymenoptera* stings 44
 - erythema multiforme (EM)
 - allergic drug reactions 50
 - cutaneous drug reactions 120
 - erythrocyte sedimentation rate, eosinophilic fasciitis 122
 - erythromycin
 - blepharitis therapy 150
 - during pregnancy and breast feeding 195
 - Etagenwechsel* 130
 - European Academy of Allergy and Clinical Immunology (EAACI), food allergies and intolerance 154
 - exercise, non-specific
 - bronchial provocation 74
 - exogenous allergic alveolitis, asthma vs. 140
 - extrinsic allergic alveolitis (EAA) 142, 144, 145
 - differential diagnosis 190
 - hypersensitivity type III 28
 - as occupational disease 190, 191
 - eye, anatomy and physiology 146, 147
 - eye allergies 146–151, 147, 149, 151
 - pathophysiology 146, 147
 - eyelids 146
 - dermatitis 150, 151
 - edema 150, 151
- F**
- factitial urticaria 68
 - family history
 - allergy diagnosis 54, 55
 - atopic dermatitis 114
 - see also* history taking
 - farmer's lung 142
 - fasciitis, eosinophilic 122
 - FAS ligand 32
 - favism 2
 - fear, allergies 176
 - Fel d I, cat allergen 43
 - fescue (*Festuca pratensis*) 40
 - FEV₁ *see* forced expirational volume (FEV₁)
 - fexofenadine 94
 - fibroblasts 108
 - as innate immune system 8
 - Finn chamber 64
 - fixed drug reactions 120
 - florists 186
 - occupational allergic contact dermatitis 188, 189
 - flushing, anaphylaxis 104
 - food allergies
 - allergens 48, 49, 86
 - allergic rhinitis 130, 131
 - anaphylaxis 102, 103
 - childhood asthma 166
 - children 170, 171
 - classification and prevalence 48
 - common allergens 86
 - diagnosis 78, 79, 154, 155, 164
 - see also individual tests*
 - differential diagnosis 154
 - food intolerance vs. 48
 - hypersensitivity reactions 48, 49
 - occupational allergies 186
 - prevalence 4, 5, 78
 - reaction mechanisms 48, 49
 - secondary prevention 86, 87
 - therapy 154, 155
 - food intolerance 48, 49
 - food allergies vs. 48
 - foodstuff mites 42, 43
 - forced expirational volume (FEV₁)
 - asthma diagnosis 140
 - measurement 74, 75, 76, 77
 - occupational respiratory diseases 190
 - formaldehyde
 - as contact allergen 200–201
 - as interior pollutant 184
 - fragrance mix, as contact allergen 201
 - framycetin, allergens in vaccines 172
 - frequency, of allergies 4, 5
 - fungi
 - as allergens 42, 43, 196
 - see also* molds
- G**
- gardeners, occupational allergic contact dermatitis 188, 189
 - gastric acid, protective mechanism 152
 - gastric mucosa 152
 - gastroenteritis, eosinophilic 158, 159
 - gastrointestinal tract
 - anatomy 152, 153
 - diseases 152–161, 153, 155, 157, 159, 161
 - see also individual diseases/disorders*
 - functions 152, 153
 - protective mechanisms 152, 153
 - see also individual organs*
 - genetic predisposition to allergies 4
 - allergy sensitization 52
 - food allergies 48
 - giant cell arteritis 192
 - giant papillary conjunctivitis
 - see* conjunctivitis, giant papillary
 - gingivitis, oral mucosal allergies 160
 - gliadin, celiac disease 156
 - glial cells, as innate immune system 8
 - glomerulonephritis, as hypersensitivity type II 24
 - glottis 124
 - glucose-6-phosphate dehydrogenase deficiency 2
 - gluten avoidance, celiac disease therapy 156
 - gold salts, drug-induced hypersensitivity type III 50
 - graft-versus-host disease (GVHD), eosinophilia 122
 - granulocytes
 - development 12, 13
 - hypersensitivity type III 24
 - see also individual cell types*
 - grass pollen 40, 41
 - see also individual species*

- group allergy, allergic contact dermatitis 112
- growth factors 18
- gut-associated lymphoid tissue (GALT) 10, 22, 152
see also mucosa-associated lymphoid tissue (MALT)
- H**
- haptens
definition 207
hypersensitivity type IV 30
- hay fever see rhinitis, allergic
- hazel (*Corylus avellana*) 38, 39
- head and neck, examination 56
- health workers, occupational allergic contact dermatitis 188, 189
- heat tests 68, 69
- hematopoiesis 10
- hemoconcentration, anaphylactic shock 106
- hemolytic anemia
antibody-dependent cell-mediated cytotoxicity 28
drug-induced hypersensitivity type II 50
- hemolytic disease of the newborn 170, 171
as hypersensitivity type II 24
- Henoch-Schönlein purpura 118, 119, 192
- heparin, drug-induced hypersensitivity type II 50
- hepatitis C, urticaria 116
- hepatocytes, as innate immune system 8
- herpes simplex infections
childhood atopic dermatitis 168
erythema multiforme 120
oral mucosal allergies vs. 160
- Hertoghe sign, atopic dermatitis diagnosis 56
- histamine 94, 95
allergic conjunctivitis 146
allergic rhinitis 128
anaphylaxis 104
bronchial physiology 136
childhood urticaria 170
food allergy vs. 154
hypersensitivity type I 24, 26, 27
intake in food intolerance 48
mast cell production 108
receptor antagonists see antihistamines
receptors 94, 95
release by psychological factors 176
see also biogenic amines
- history taking
allergic contact dermatitis 112
allergic rhinitis 128
childhood allergy diagnosis 164
- extrinsic allergic alveolitis
diagnosis 144
patient diary 54, 55, 205
personal history 54, 55
urticaria 116
see also family history
- hives see urticaria
- HIV infection see AIDS
- house dust mite allergy
perennial allergic rhinitis 128
secondary prevention 84
- house dust mites 42, 43
allergens 34
indoor living conditions 184
- human leukocyte antigen (HLA)
allergy predisposition 4
celiac disease susceptibility 156
definition 207
fetal expression 162
see also major histocompatibility complex (MHC)
- human mucosal lymphocyte antigen 1 (HML-1) 146
- humidifier lung 144
- Hunter glossitis, pernicious anemia 156
- hyaluronidase, *Hymenoptera* venom 44
- hydrops fetalis 170
- hydroxyethyl starch solution (HES), anaphylactic shock therapy 106
- Hymenoptera* venom 44, 45
oral mucosal allergies 160
urticaria 116
see also sting provocation tests
- hyperactivity 170
- hypereosinophilic syndrome 122
- hyper-IgE syndrome, childhood atopic dermatitis vs. 168
- hyperplastic mucosae, allergic rhinitis 128
- hypersensitivity type I (immediate) 24, 25
allergic drug reactions 50
blood products 102
definition 2
effector mechanisms 26, 27
eosinophilic cationic protein levels 83
eye 146
food allergies 48, 49
IgE production 26, 27
occupational disorders 186, 187
oral mucosal allergies 160
pharynx and larynx 134
subcutaneous provocation tests 70
see also anaphylaxis
- hypersensitivity type II (immunoglobulin-mediated cytotoxicity) 24, 25, 28, 29
allergic bronchopulmonary aspergillosis 142
allergic drug reactions 50
hemolytic anemia 170, 171
- hypersensitivity type III (immune complex) 24, 25, 28, 29
allergic drug reactions 50
blood products 102
food allergies 48, 49
- hypersensitivity type IV (delayed) 24, 25, 30, 31
allergic drug reactions 50, 52
contact conjunctivitis 150
contact dermatitis 46
cytotoxic T cells 32, 33
definition 2
food allergies 48, 49
oral mucosal allergies 160
pharynx and larynx 134
T helper cells 30, 31
- hypertension, corticosteroid side effects 96
- hyperventilation, asthma vs. 140
- hypoallergenic milk replacement products 182
atopy reduction 6
- hypopharynx 124, 125
- hyposensitization
allergic rhinitis therapy 130

- I
 - hyposensitization
 - anaphylaxis 102
 - childhood allergy therapy 164
 - childhood asthma therapy 166
 - contraindications 92, 93
 - food allergy therapy 154
 - indications 92
 - oral allergy syndrome therapy 134
 - regimens 92, 93
 - risk factors 92
 - side effects 93
 - and vaccinations 172
 - see also* immune therapy
 - hyposmia
 - definition 207
 - perennial allergic rhinitis 128
 - hypotension, anaphylaxis 104
 - hypovolaemia, anaphylactic shock 106
- I
 - ICAM-1, antigen presentation 14
 - idiosyncrasy, definition 2, 3, 207
 - idiotype switching 16
 - ileum 152
 - immediate hypersensitivity *see* hypersensitivity type I (immediate)
 - immune complexes
 - anaphylactoid reactions 102, 103
 - definition 207
 - hypersensitivity *see* hypersensitivity type III (immune complex)
 - vasculitis 28
 - immune elimination, nasal mucosa 126, 127
 - immune exclusion 1
 - mucosa-associated lymphoid tissue (MALT) 22, 23
 - nasal mucosa 126, 127
 - immune privilege, fetus 162
 - immune response
 - acquired 1, 8, 9
 - innate 1, 8, 9
 - immune system 8–21
 - cells 12, 13
 - see also* individual cells
 - organs 10, 11
 - see also* individual organs
 - physical barriers 1, 8, 9
 - immune therapy 90, 91, 92, 93
 - contraindications 92, 93
 - practical aspects 92
 - precautions 92
 - side effects 92, 93
 - see also* hyposensitization
 - immunizations *see* vaccinations
 - immunodeficiency *see* AIDS
 - immunodiffusion 82, 83
 - immunoDOTs, IgE measurement 80, 81
 - immunoglobulin(s)
 - class switching 10, 16, 17
 - functions 16
 - production 10, 16, 17
 - structure 16, 17
 - see also* specific types
 - immunoglobulin A (IgA) 16
 - deficiency
 - anaphylactoid reactions 102
 - celiac disease 156
 - immunoglobulin A, secretory (sIgA)
 - breast milk 162, 182
 - conjunctiva 146
 - gastrointestinal tract 152
 - mucosa-associated lymphoid tissue 22, 23
 - nasal mucosa 126
 - saliva 1
 - tears 146
 - immunoglobulin D (IgD) 16
 - immunoglobulin E (IgE) 16
 - diesel pollution effects 180
 - measurement 80, 81
 - production 26, 27
 - serum levels in allergic rhinitis 128
 - structure 17
 - immunoglobulin G (IgG) 16
 - immunoglobulin M (IgM) 16
 - immunoglobulin-mediated cytotoxic hypersensitivity *see* hypersensitivity type II (immunoglobulin-mediated cytotoxicity)
 - immunosuppression
 - allergic drug reactions 50
 - definition 207
 - tuberculin test 66
 - vaccination contraindication 172
 - indomethacin, drug-induced hypersensitivity type III 50
 - infant formulae 182
 - infantile atopic dermatitis 114, 115
 - infections, allergy sensitization 52
 - infectious mononucleosis, non-allergic urticaria 68
 - inflammation
 - allergy sensitization 52
 - definition 207
 - eosinophilia 122
 - nasal mucosa 126
 - as nonspecific immune response 1
 - skin 20, 21
 - sulfur and nitrogen pollution effects 180
 - inflammatory bowel disease 158, 159
 - influenza vaccine, egg-related allergies 172
 - inhalational provocation tests 60
 - innate immune response 1, 8, 9
 - see also* individual components
 - interferon(s) 18
 - definition 207
 - interferon-g (IFN-g)
 - acquired immune response 8
 - fetal blood 162
 - T cells, production by 9, 15
 - interleukin(s) 18
 - definition 207
 - interleukin-1 (IL-1) 18
 - corticosteroids, inhibition by 96
 - hypersensitivity type IV 30
 - interleukin-2 (IL-2) 18
 - Crohn's disease 158
 - T cell clonal proliferation 8
 - T cell production 9
 - T_{H1} cells, production by 15
 - interleukin-3 (IL-3), asthma 138
 - interleukin-4 (IL-4)
 - asthma 138
 - eosinophils, production by 158
 - fibroblast stimulation 108
 - gene, allergy predisposition 4
 - hypersensitivity type I 24

- IgE production 26
immunoglobulin isotype switching 16
T cell differentiation 14
T cells, production by 9
T_{H2} cells, production by 9, 15
ulcerative colitis 158
- interleukin-5 (IL-5)
asthma 138
eosinophils
production by 158
recruitment of 132
hypersensitivity type I 24
T cells, production by 9
T_{H2} cells, production by 15
ulcerative colitis 158
- interleukin-6 (IL-6) 18
T cells, production by 9
T_{H2} cells, production by 15
- interleukin-8 (IL-8)
mast cells, production by 108
neutrophil chemotaxis 20
T_{H2} cells, production by 15
- interleukin-9 (IL-9)
T cells, production by 9
T_{H2} cells, production by 15
- interleukin-10 (IL-10)
maternal immunological suppression 162
T cells, production by 9
T_{H2} cells, production by 15
- interleukin-12 (IL-12), T cell differentiation 14
- interleukin-13 (IL-13)
IgE production 26
immunoglobulin isotype switching 16
T cells, production by 9
T_{H2} cells, production by 15
- intestinal provocation tests 78, 79
- intolerance reactions 2, 3
intoxication, definition 207
- intracutaneous test 62, 63
- intrinsic factor deficiency, pernicious anemia 156
- isopropyl-*n*-phenyl-*p*-phenylenediamine, as contact allergen 201
- isotype switching 16, 17
- itraconazole, allergic bronchopulmonary aspergillosis therapy 142
- J**
- Janus kinase (JAK), immunoglobulin isotype switching 16, 17
- Japanese cedar (*Cryptomeria japonica*) 38
- jejunum 152
- K**
- Kartagener syndrome, nasal polyps 132
- Kawasaki disease 192
- Kentucky bluegrass (*Poa pratensis*) 40
- keratinocytes
adhesion molecules 108
basal membrane 108
epidermis 108
innate immune response 20
as innate immune system 8
- keratoconjunctivitis
atopic
giant papillary conjunctivitis association 148, 150
pathophysiology 146
vernal 148, 149
giant papillary conjunctivitis association 148, 150
pathophysiology 146
- ketotifen 94
- L**
- b*-lactam antibiotics, drug-induced hypersensitivity type I 50
- lactase deficiency 2
- lactoferrin
breast milk 162, 182
tears 146
- lactose intolerance 2, 48, 154
lactose intolerance test 154
- Langerhans cells 108
activation 20, 21
cumulative toxic dermatitis 110
innate immune response 20
- large intestine, anatomy 152
- laryngotracheal stenosis, asthma vs. 140
- larynx
allergic diseases 134, 135
anatomy and physiology 124, 125
- latex allergy
contact dermatitis 46
occupational allergies 186
perennial allergic rhinitis 128
primary prevention 84
secondary prevention 84
sensitization 52
- left ventricular insufficiency, asthma vs. 140
- leukemia, eosinophilic 122
- leukotriene antagonists 98, 99
asthma therapy 140
childhood asthma therapy 164
- leukotrienes
allergic conjunctivitis 146
allergic rhinitis 128
anaphylaxis 104
bronchial physiology 136
corticosteroids, inhibition by 96
eosinophils, production by 158
- leukotrienes
hypersensitivity type I 24, 26
mast cells 12
- levocabastine 95
allergic rhinoconjunctivitis therapy 148
- lichenification, atopic dermatitis 114
- lichen planus, cutaneous drug reactions 120
- ligands, definition 207
- limbs, examination 56
- limen nasi 124
- linkage analysis 4
- livedo racemosa, polyarteritis nodosa 118
- lodoxamide, allergic rhinoconjunctivitis therapy 148
- loratadine 94
- low-nickel diet 86, 87
- lung allergies 136–145
- lymph nodes 10, 11
examination 56
- lymphocytes
breast milk 162
conjunctiva 146
hypersensitivity type III 28

M

lymphocytes
 sulfur and nitrogen pollution effects 180
see also B cells; T cells
 lymphopoiesis 13
 lymphotoxin, T_{H1} cells, production by 15
 lysozyme
 breast milk 162, 182
 tears 146

M

macropapular exanthem, drug-induced hypersensitivity type IV 50
 macrophages
 activation 9
 breast milk 162, 182
 hypersensitivity type III 28
 nasal mucosa 126
 production and maturation 10
 T cell activation 8
 major histocompatibility complex (MHC)
 definition 207
 T cell interaction 14
see also human leukocyte antigen (HLA)
 manual labor, occupational
 allergic contact dermatitis 188, 189
 mast cell degranulation
 allergic rhinitis 128
 immunoglobulin stimulation 16, 17
 urticaria 116
 mast cells
 anaphylactoid reactions 102, 103
 cytokine production 108
 dermis 108
 development 12, 13
 hypersensitivity type I 26, 27
 sulfur and nitrogen pollution effects 180
 mast cell stabilizers 98, 99
 allergic rhinitis therapy 130
 allergic rhinoconjunctivitis therapy 148
 atopic conjunctivitis therapy 148

childhood asthma therapy 166
 food allergies 154
 measles-mumps-rubella vaccine, as allergen 172
 measles vaccine, egg-related allergies 172
 meclozine 94
 during pregnancy and breast feeding 195
 melanocytes 108
 mellitin, *Hymenoptera* venom 44
 memory cells 1
 mercaptobenzothiazole, as contact allergen 201
 mercapto mix, as contact allergen 201
 mercury, oral mucosal allergies 160
 Mérieux test 66, 67
 metacholine, non-specific bronchial provocation 74 (chlor) methylisothiazolone, as contact allergen 199-200
 middle ear obstruction, allergic rhinitis 130
 migraine headaches, children 170, 171
 mites 42, 43
see also individual types
 molds 36, 38, 39
 as allergens 42, 43, 196
 indoor living conditions 184
 as perennial allergens 42, 43
 perennial allergic rhinitis 128
see also individual species
 molecular weight, allergens 34
 molluscum contagiosum 168
 Monday morning disease 184
 monocytes
 development 13
 hypersensitivity type III 24
 production and maturation 10
 T cell activation 8
 tears 146
 mononeuritis, Churg-Strauss syndrome 142
 morphine
 direct mast cell stimulation 102
 pseudoallergies 2

mountain cedar (*Thuja*) 38
 mucins, breast milk 162
Mucor, as perennial allergen 42
 mucosa
 allergic reactions in oral cavity 160, 161
 as immunological barrier 1 nose 125, 127
 mucosa-associated lymphoid tissue (MALT) 10, 22, 23
 appendix 152
 bronchus-associated (BALT) 10, 22
 gut-associated (GALT) 10, 22, 152
 nose *see* nasal-associated lymphoid tissue (NALT)
 ulcerative colitis 158
 mucus, as immunological barrier 1
 mucus neck cells, stomach 152
 mugwort (*Artemisia vulgaris*) 40, 41
 mugwort-celery-spice syndrome 34
 multiple chemical sensitivity syndrome 186
 multiple sclerosis 174
 multitest 66, 67
 mumps vaccine, egg-related allergies 172
 muscle relaxants
 allergies 50
 direct mast cell stimulation 102
 pseudoallergies 2

N

naphazoline 98
 nasal-associated lymphoid tissue (NALT) 22, 126, 127
see also mucosa-associated lymphoid tissue (MALT); Waldeyer ring
 nasal mucosa 125, 127
 nasal polyps 132, 133
 allergic rhinitis 130
 eosinophilic cationic protein levels 83
 nasal provocation tests 72, 73
 nasopharynx 124, 125
 natural immune tolerance 22
 natural killer cells (NKCs) 12
 nausea, food allergies 154

- nedocromil 96
 allergic rhinoconjunctivitis therapy 148
 asthma therapy 140
 childhood asthma therapy 164
- neomycin
 allergens in vaccines 172
 as contact allergen 201
- nerve cells
 skin 108, 109
- neurological factors, allergy
 clinical manifestations 52
- neutrophils 12
 hypersensitivity type III 28
 IL8 chemotaxis 20
- nickel
 allergic contact dermatitis 110
 contact dermatitis 46, 47
 oral mucosal allergies 160
- nickel sulfate, as contact allergen 201–202
- nitrous oxide, air pollution 180
- nonallergic eosinophilic syndrome (NARES), eosinophilic cationic protein levels 83
- nonsteroidal anti-inflammatory drugs (NSAIDs), pseudoallergies 2
- normal gut flora, protective mechanism 152
- nose
 allergies 124–135
 anatomy and physiology 124, 125
 hypersensitivity type I reactions 26
- O**
- oak (*Quercus*) 38, 39
- oats (*Avena sativa*) 40
- obstructive airway disease
 see occupational disorders
- occupational disorders 186–191, 187, 189, 191
 allergic contact dermatitis 188, 189
 allergic respiratory disease 190, 191
 atopic dermatitis 114
 common allergies 184, 185
 definition 207–208
- indoor living conditions 184, 185
- interior pollutants 184, 185
- primary prevention 84
- sensitization 52
 see also *individual diseases/disorders, and occupations*
- ointments, skin diseases 100, 101
- opiates
 allergies 50
 urticaria 116
- oral allergy syndrome (OAS) 134, 135, 160
 diagnosis 154
 food allergies 48, 154
 oral provocation tests 78
- oral cavity, allergic reactions 160, 161
- oral provocation tests 60, 78, 79
 atopic dermatitis 86
 pharynx/larynx allergic diseases 134
- orchard grass (*Dactylis glomerata*) 40, 41
- organic dust toxic syndrome, exogenous allergic alveolitis vs. 190
- oropharynx 124, 125
- otitis media 124
 allergic rhinitis 131
- Ouchterlony diffusion tests 82, 83
- oxygen, anaphylactic shock therapy 106
- oxymetazoline 98
- ozone 180
- P**
- palladium, oral mucosal allergies 160
- pancreatic enzymes 152
- paraben mix, as contact allergen 202
- paracetamol, pregnancy and breast feeding 195
- paraphenylenediamine, as contact allergen 202
- parasitic diseases
 eosinophilia 122
 urticaria 116
- parietal cells, stomach 152
- particulate air pollution 180, 181
- passive smoking see smoking, passive
- patch testing 64, 65
 allergic contact dermatitis diagnosis 112
 modifications 64, 65
 pharynx/larynx allergic diseases 134
 test substances 64, 65
 see also allergen(s), contact
- patient diary 54, 55, 205
- peau d'orange 68
- penicillin
 allergic drug reactions 50
 anaphylaxis 102
 cephalosporin cross-reactivity 34
 cutaneous drug reactions 120
 drug-induced hypersensitivity type II 50
 oral mucosal allergies 160
 during pregnancy and breast feeding 195
- penicillin
 toxic epidermal necrolysis 120
 urticaria 116
- Penicillium*, as perennial allergen 42, 43
- peptide hormones, anaphylaxis 102
- perennial ryegrass (*Lolium perenne*) 40
- perforins, cytotoxic T cells 32
- pernicious anemia 156, 157
- peroxidases, eosinophils, production by 158
- personal history, allergy diagnosis 54, 55
- Peyer patches 22, 23
- phagocytes 12
 as nonspecific immune response 1
 see also *individual cell types*
- phagocytosis 8
- pharmacotherapy
 allergic rhinitis 130, 131
 anaphylaxis 102
 occupational allergies 186
- pharyngitis, allergic rhinitis 131
- pharynx
 allergic diseases 134, 135
 anatomy and physiology 124, 125

- R**
- phenothiazine, drug-induced hypersensitivity type II 50
 - phenoxyethanol, as contact allergen 200
 - phenytoin
 - allergic drug reactions 50
 - toxic epidermal necrolysis 120
 - phospholipases, *Hymenoptera* venom 44
 - photoallergic dermatitis *see* dermatitis, photoallergic
 - pine (*Pinus*) 38, 39
 - plasma cells, definition 208
 - plasma expanders
 - anaphylactic shock therapy 106
 - anaphylaxis therapy 104
 - pseudoallergies 2
 - platelet-activating factor (PAF)
 - anaphylaxis 104
 - bronchial physiology 136
 - poison ivy, contact dermatitis 46
 - pollen(s) 36
 - cross reactivity 34
 - dispersal 36
 - distribution 40, 41
 - grass 40, 41
 - trees 38
 - weeds 40, 41
 - see also individual types*
 - pollen allergy 128
 - secondary prevention 84
 - see also* rhinitis, allergic
 - pollen-associated food allergies *see* oral allergy syndrome (OAS)
 - pollen calendars, secondary prevention 84
 - pollution, air *see* air pollution
 - polyarteritis nodosa 118, 119, 192
 - polymyalgia rheumatica 118, 119, 192
 - polyneuropathy, Churg–Strauss syndrome 142
 - polypectomy, nasal polyp therapy 132
 - polypharmacy, allergic drug reactions 50
 - poplar (*Populus*) 38, 39
 - potassium dichromate, as contact allergen 202
 - pox virus infections, childhood atopic dermatitis 168
 - pregnancy, medications (mother) 195
 - preservatives, allergens in vaccines 172
 - pressure tests 68, 69
 - prevention, allergies *see* allergy therapy, preventive
 - prick tests 62, 63
 - allergic bronchopulmonary aspergillosis 142
 - childhood allergy diagnosis 164
 - childhood asthma diagnosis 166
 - pharynx/larynx allergic diseases 134
 - primary vasculitis 118, 119
 - priming, definition 208
 - progesterone, maternal immunological suppression 162
 - proinflammatory cytokines 18
 - propolis, as contact allergen 202
 - prostaglandins
 - corticosteroids, inhibition by 96
 - hypersensitivity type I 24, 26
 - induction in food intolerance 48
 - mast cells 12
 - protective clothing, skin diseases 100, 101
 - proteoglycans, mast cells 12
 - provocation testing
 - asthma diagnosis 140
 - childhood asthma diagnosis 166
 - conjunctiva 72, 73
 - inhalational 60
 - intestine 78, 79
 - nose 72, 73
 - occupational respiratory diseases 190
 - sting provocation tests 70, 71
 - subcutaneous 70, 71
 - see also individual types*
 - prurigo, atopic dermatitis 114
 - pruritus
 - anaphylactic shock 106
 - anaphylaxis 104
 - psychological effects 176, 178
 - urticaria 116
 - pseudoallergies 48, 49
 - altered arachidonic acid metabolism 102
 - definition 2, 3
 - dietary measures 86
 - food intolerance *see* food intolerance
 - oral mucosal allergies vs. 160
 - urticaria 116
- pseudolymphoma, drug-induced hypersensitivity type IV 52
- psoriasis, streptococcal infections 174
- psychological factors
 - allergy clinical manifestations 52, 176–179, 177, 179
 - children 178, 179
- psychosomatic symptoms 176, 177
- psychotropic drugs, allergy test contraindication 60
- pulmonary function testing
 - childhood asthma diagnosis 166
 - extrinsic allergic alveolitis diagnosis 144
- pulmonary mycotoxin exposure, exogenous allergic alveolitis vs. 190
- purified protein derivative-standard (PPD-S) 66
- purpura 121
- purpura fulminans 118
- PVA therapy, cutaneous drug reactions 120
- pyrazolone
 - drug-induced hypersensitivity type I 50
 - toxic epidermal necrolysis 120
- Q**
- Quincke edema *see* angioedema
- quinidine, drug-induced hypersensitivity type II 50
- quinine, drug-induced hypersensitivity type II 50
- R**
- rabies vaccine, egg-related allergies 172

- radioallergosorbent test (RAST)
allergic rhinitis 128
childhood allergy diagnosis 164
IgE measurement 80, 81
radiology, extrinsic allergic alveolitis diagnosis 144
ragweed (*Ambrosia artemisiifolia*) 40, 41
reflex bradycardia, anaphylactic shock 106
respiration, children 166
respiratory tract, children 166, 167
resuscitation *see* ABCD resuscitation
Rhesus incompatibility, hemolytic disease of the newborn 170
rheumatoid arthritis, antigen-presenting cells 174
rhinitis, allergic 128, 129, 130, 131
 alpha-sympathomimetic therapy 98
 antihistamines 94
 associated disorders 130, 131
 clinical features 128, 129
 corticosteroid therapy 96
 definition 126
 diagnosis 128, 129
 epidemiology 128, 129
 etiology 128
 food allergies 154
 as hypersensitivity type I 24
 immunization contraindication 172
 mast cell stabilizer therapy 96
 nasal polyps 132
 as occupational respiratory disease 190
 ozone effects 180
 perennial 128, 129
 prevalence 4, 5, 6
 seasonal 128, 129
 sulfur and nitrogen pollution effects 180
 therapy 130, 131
 see also pollen
rhinoconjunctivitis, allergic 148, 149
 atopic dermatitis 114
 eyelid edema 151
 food allergies 48
 hyposensitization therapy 92
rhinomanometry
 nasal polyp diagnosis 132
 nasal provocation tests 72, 73
rhinorrhea, anaphylaxis 104
rhinoscopy, nasal polyp diagnosis 132
rodents, as perennial allergens 42
rosacea, blepharitis 150
rosin, as contact allergen 203
rub test 62, 63
rye (*Secale cereale*) 40, 41
- S**
- sarcoidosis, asthma vs. 140
Sarcoptes scabiei, dermatitis 110
scabies, childhood atopic dermatitis vs. 168
Schamberg disease 118
Schilling test 156, 157
Schwartzmann–Sanarelli reaction *see* Arthus reaction
scratch tests 62, 63
 pharynx/larynx allergic diseases 134
screening, as secondary allergy prevention 6
seasonal affective disorder (SAD), ultraviolet irradiation therapy 88
secretory IgA *see* immunoglobulin A, secretory (sIgA)
sensitization
 contact dermatitis 46
 definition 208
sensitization phase, allergies 52, 53
serology
 allergic rhinitis diagnosis 128
 childhood allergy diagnosis 164
 childhood asthma diagnosis 166
serotonin, anaphylaxis 104
serum sickness
 drug-induced hypersensitivity type III 50
 as hypersensitivity type III 24
 from vaccines 172
shock index, definition 106
Shulman syndrome 122
sick building syndrome 186
sinuses, anatomy and physiology 124, 125
sinusitis
 allergic rhinitis 131
 Churg–Strauss syndrome 142
skin
 allergies 108–123
 anatomy and physiology 108, 109
 atopy 100, 101
 examination 56, 57
 hypersensitivity type I reactions 26
 inflammation in 20, 21
 skin-associated lymphoid tissue (SALT) 10, 20, 21
 skin tests 62–69, 63, 65, 67, 69
 skin tests
 oral allergy syndrome diagnosis 154
 scoring and pitfalls 62, 63
 see also individual tests
 small intestine, anatomy 152
 smoking
 breast milk effects 182
 interior living conditions 184
 passive
 atopy etiology 6
 childhood asthma 166
 soaps, skin diseases 100, 101
 social competence loss, allergies 176
 sonography, food allergy diagnosis 154
 spirometry 74, 75, 76, 77
 spleen 10, 11
 spongiotic dermatitis 111
 spores
 as allergens 36
 dispersal 36
 stability, allergens 34
 Staphylococcus aureus infections
 atopic dermatitis 114
 childhood atopic dermatitis 168
 state-provided benefits, occupational allergic contact dermatitis 188
 Stevens–Johnson syndrome, allergic drug reactions 50

- T** sting provocation tests 70, 71
see also Hymenoptera
 venom
- stomach, anatomy 152
- stomatitis
 contact 134
 oral mucosal allergies 160
- streptococcal infections,
 psoriasis 174
- streptococcal necrotizing
 fasciitis, eosinophilic
 fasciitis vs. 122
- streptomycin, allergens in
 vaccines 172
- stress, allergy test contrain-
 dication 60
- subcutaneous fat, skin 108
- subcutaneous provocation
 tests 70, 71
- subglottis 124
- sulfapyridine, dermatitis her-
 petiformis therapy 156
- sulfonamides
 allergic drug reactions 50
 anaphylaxis 102
 fixed drug reactions 120
 toxic epidermal necrolysis
 120
- sulfur dioxide, air pollution 180
- sunscreens, photoallergic
 contact dermatitis 112
- supraglottis 124
- surgery
 allergic rhinitis therapy 130
 nasal polyp therapy 132
- sweat test 68, 69
- sympathetic nervous system,
 bronchial physiology 136
- syphilis, non-allergic ur-
 ticaria 68
- systemic lupus erythemato-
 sus (SLE), hypersensitivity
 type III 28
- T**
- tachycardia, anaphylactic
 shock 106
- Takayasu syndrome 118, 119,
 192
- T cell receptor (TCR)
 antigen presentation 14
 B cell activation 16
 development and expres-
 sion 10
 structure 14
- T cells
 activation 8, 9, 114, 174, 175
 antigen-presenting cell in-
 teraction 14, 15
 atopic dermatitis 114
 B cell interaction 8
 cytokine production 18, 20
 development 14, 15
 differentiation 19
 mucosa-associated lym-
 phoid tissue 22
 production and maturation
 10
see also cytotoxic T cells; T
 helper cells
- tears 146
- temporal arteritis 118, 119, 192
- terpenes, as interior pollutant
 184
- tetracyclines
 allergens in vaccines 172
 fixed drug reactions 120
 during pregnancy and
 breast feeding 195
- T helper cells
 antigen presentation 8
 definition 206
- T helper cells type 1 (T_{H1})
 activation 8, 9
 antigen-presentation 175
 Crohn's disease 158
 cytokine production 15, 18
 cytokines 19
 development 14, 15, 19
 hypersensitivity type IV 24,
 30, 31
 maturation and function 15
- T helper cells type 2 (T_{H2})
 activation 8, 9
 antigen-presentation 175
 asthma 138
 cytokine production 15
 cytokines 19
 development 14, 15, 19
 maturation and function 15
 during pregnancy 162
 ulcerative colitis 158
- theophylline
 anaphylaxis therapy 104
 asthma therapy 140
 during pregnancy and
 breast feeding 195
 "therapy shopping" 179
- thiuram mix, as contact aller-
 gen 203
- thorax, examination 56
- throat, allergies 124–135
- thrombocytopenia
 antibody-dependent cell-
 mediated cytotoxicity 28
 drug-induced hypersensi-
 tivity type II 50
 hypersensitivity type II 28
- thromboxanes, corti-
 costeroids, inhibition by 96
- thymus 10, 11
 T cell development 14
- tick-borne meningoencephal-
 itis vaccine, egg-related al-
 lergies 172
- timothy grass (*Phleum*
pratense) 40, 41
- T lymphocytes *see* T cells
- tolerance, definition 208
- tonsillitis 134
- tonsils 124
 antigen processing and
 presentation 126, 127
 inflammation 134
 removal 134
- topical anesthetics, oral mu-
 cosal allergies 160
- topical corticosteroids *see*
 corticosteroids, topical
- tourniquets, anaphylactic
 shock therapy 106
- toxic epidermal necrolysis
 (TEN) 120, 121
 allergic drug reactions 50
- toxicity, definition 2, 3
- toxin, definition 208
- trachea, anatomy and physi-
 ology 136, 137
- transforming growth factor b
 (TGF- β)
 eosinophils, production by
 158
 maternal immunological
 suppression 162
- tree pollen 38
see also individual trees
- triggers
 asthma 140
 hypersensitivity type I 186,
 187
 urticaria 116
- trimethoprim, toxic epider-
 mal necrolysis 120
- tryptase
 anaphylaxis 104
 measurement 82, 83
- tuberculin test 66, 67
- tumor necrosis factor-a
 (TNF-a) 18

acquired immune response 8
 corticosteroids, inhibition by 96
 hypersensitivity type IV 30
 mast cell production 108
 tumor necrosis factor- γ (TNF- γ), Crohn's disease 158
 turpentine, as contact allergen 203

U

ulcerative colitis 158, 159
 ulcerative stomatitis, oral mucosal allergies vs. 160
 ultraviolet irradiation
 climate therapy 88, 89
 photoallergic contact dermatitis 112
 urticaria 116, 117, 121
 acute recurrent 116
 allergic drug reactions 50
 allergy testing complications 56
 anaphylactic shock 106
 anaphylaxis 104
 antihistamines 94
 children 170, 171
 cholinergic 68
 chronic 116
 corticosteroid therapy 96
 differential diagnosis 68, 69
 drug-induced hypersensitivity type I 50
 factitial 68
 food allergies 48, 154
Hymenoptera stings 44
 hypersensitivity reactions 24
 non-allergic 68
 patch testing 64
 prevalence 4
 urticarial dermatographism 68, 69

V

Vaccinations 90, 91
 allergy to 170, 172–175, 173, 175
 allergic patients 172, 173
 anaphylaxis 102
 components 170, 172, 173
 contraindications 172, 173
 preventative 90, 91
 therapeutic 90, 91
 vascular adhesion molecules, hypersensitivity type I reactions 26
 vasculitis
 classification 118, 192
 cutaneous, Churg–Strauss syndrome 142
 drug-induced 50
 hypersensitivity type III 24, 50
 primary 118, 119
 vasoconstriction, anaphylactic shock 106
 vasoconstrictor eye drops, allergic rhinoconjunctivitis therapy 148
 vernal keratoconjunctivitis see keratoconjunctivitis, vernal
 vesicles 110
 vibrissae 124
 viral infections, allergy etiology 4
 vital signs, allergy testing 56, 57
 vitamin B₁₂ deficiency 156, 157
 vocal cord dysfunction, asthma vs. 140

W

Waldeyer ring 126
 anatomy 124
 enlarged 160
 hyperplasia 134, 135
 see also nasal-associated lymphoid tissue (NALT)
 warmth, anaphylactic shock 106
 wasps (*Vespula*), venom allergy 44, 45
 weed pollen 40, 41
 Wegener's granulomatosis 118, 119, 192
 Churg–Strauss syndrome vs. 142
 weight gain, corticosteroid side effects 96
 Wells syndrome 122
 wheat (*Triticum aestivum*) 40
 white dermatographism 68
 whole-body plethysmography 74, 75, 76, 77
 willow (*Salix*) 38
 wool alcohols, as contact allergen 203–204

X

xylometazoline 98

Y

yeasts, as allergens 196
 yellow fever vaccine, egg-related allergies 172

Z

zinc bis-diethyldithiocarbamate as contact allergen 204