

Index

A

- Absenteeism, 153, 335
 - School days missed, 127, 184
 - Work days missed, 131, 184, 207, 316
- Academic performance, 210, 229
- Acculturation, 270
- Acetylcholine, 91
- Activity restriction, 124, 129, 184, 186, 237
- Acute asthma, 101, 129
- Adaptive immune response, 21
- Adherence to therapy, 74, 107, 131, 157
 - Age effects, 220
 - Barriers, 75, 209
 - Communication, 211
 - Costs, 330
 - Definition, 109, 209
 - Minority populations, 210, 269
 - Oral vs. inhaled medications, 97, 110–112
- Agent-disease-host, 272
- Air Quality Index (AQI), 49, 289
 - Air pollution, 48, 287, 338
- Airway hyperreactivity/hyperresponsiveness (see also Bronchial hyperresponsiveness), 5, 19, 35, 314
- Airway inflammation, 19
- Airway remodeling, 20
- Allies Against Asthma*, 80–81, 291
- Alternative medicines, 270
- Aluminum potroom asthma, 308
- Anaphylaxis, 100
- Anti-idling regulations, 288
- Anxiety, 144, 185, 205, 232, 268, 314
- Aspirin-induced asthma, 28, 100
- Asthma
 - Adherence (see Adherence to therapy)
 - Coalitions, 80, 289, 291, 341
 - Control (see Control of asthma)
 - Costs (see Cost of asthma)
 - Cultural Issues, 64, 73, 269
 - Definition, 4, 62, 181
 - Intermittent, 182
 - Reversible, 183
 - Variable, 183
 - Diagnosis (see Diagnosis of asthma)
 - Epidemiology (see Epidemiology of asthma)
 - Health disparities, 71, 198, 209, 292
 - Access, 208, 266, 331, 335–336
 - Asthma outcomes, 336
 - Discrimination, 208
 - Incidence, 3, 11, 43
 - Medical management (see Medical management of asthma)
 - Mortality, 13, 59, 64, 229
 - Risks, 101, 257
 - Pathophysiology, 19, 182, 251
 - Prevalence, 3, 6, 71, 153, 189, 201, 229, 245, 263
 - Risk Factors, 14
 - Allergen exposure, 45
 - Environment, 267
 - Screening (see Screening for Asthma)
 - Self-management (see Self-management of asthma)
 - Severity (see Severity of asthma)
 - Symptoms (see Symptoms of asthma)
 - Types, 27, 182
- Asthma action plan, 133, 135, 141, 232–233
- Asthma attitude, 125
- Asthma camps, 284
- Asthma clubs, 282
- Asthma education, 160, 193, 234–236
 - Adult asthma education, 163
 - Childcare sites, 284
 - Computer-based instruction, 161–162, 169
 - Emerging technologies, 154, 171
 - Individualized education, 187
 - Internet, 165
 - Website evaluation, 165
 - Lifespan perspective, 191
 - Pediatric asthma education, 161
 - Gaming, 161
 - Program evaluation, 239
 - School-based, 238
- Asthma genes, 50
 - ADAM33, 265
 - Antioxidant response element (ARE)
 - genes, 52
 - CD14 gene, 51
 - Glutathione-S-Transferase genes, 52
- Asthma knowledge, 117, 124, 220, 281
 - Cognitive factors, 129
- Asthma phenotypes, 23, 50
- Asthma Quality-of-Life Questionnaire (AQLQ), 130
- Asthma Responsibility Interview (ARI), 223

- Asthma triggers, 192
 Allergens, 284, 341
 Indoor, 48, 236, 285, 338
 Cigarette smoke, 188
 Exercise, 193
 Irritants, 193
- B**
 Beck Depression Inventory (BDI), 130
 Behavioral Risk Factor Surveillance System (BRFSS), 6–8, 10–11, 62, 341
 Body image, 203–204
 Body Mass Index (BMI), 205, 249, 338
 Bone mineral density, 202, 250
 Bronchial hyperresponsiveness, 37, 44, 62, 89, 252
 Bronchiectasis, 38
 Bronchoprovocation test, 5, 35, 63
- C**
 Case management, 332, 340
 Internet based, 167
 School nurse, 234
 Childhood Asthma Management Program (CAMP), 202
 Children's Health Survey for Asthma, 224
 Chronic non-specific lung disease, 26
 Chronic obstructive pulmonary disease, 26, 38, 182, 187, 316
 Community action plans, 290
 Community health coalitions, 80
 Community health workers, 280, 340
 Community interventions, 293
Computer-Assisted Triage System, 157
 Computer-based expert systems, 155
 Challenges, 170
 Computer-based reminder systems, 168
 Computerized physician order entry (CPOE) systems, 158
 Control of asthma, 117
 Barriers, 203, 208
 Conceptual model, 278
 Ecology, 339
 Levels of asthma control, 89–90
 Management approach, 98
 Coordinated system of care, 237
 Cost of asthma, 13, 190, 335
 Barriers to care, 234, 325, 332
 Direct costs, 328, 332
 Indirect costs, 329
 International comparisons, 329
 Methodological issues, 326
 Occupational asthma, 319
 Per capita expenditures, 128, 327–328
 Cough-variant asthma, 32
 Cyclic AMP (cAMP), 89
- D**
 Decision support systems, 155, 158
Asthma Kiosk, 160
 Denial, 185
 Depression, 185, 187, 202, 204–205, 232, 268, 314, 337
- Diagnosis of asthma, 36, 99
AsthmaExpert, 156
 Imaging, 35
 Medical history, 4, 33
 Occupational asthma, 306
 Physical exam, 34
 Pulmonary functions test, 35, 183
 Symptoms, 31, 266
 Difficult to treat asthma, 100
 Disability-Adjusted Life-Years (DALY), 13
 Disease Reservoir Hypothesis, 60
 Dutch hypothesis, 26
 Dynamic hyperinflation, 29
 Dyspnea, 29, 31–32
 Descriptors of breathlessness, 33
- E**
 Ecology of asthma (see also Social ecology of asthma), 339
 Healthcare perspective, 77–78
 Model, 72
 Electronic medical records, 154, 158
 Endotoxin, 23–24, 43, 46–47, 51
 Environmental Interventions, 285
 Indoor, 270, 341
 Environmental tobacco smoke (ETS), 48, 193, 246, 287, 338
 Eosinophilic bronchitis, 308
 Eosinophils, 20, 22, 27, 90
 Epidemiology of asthma
 Children, 6, 337
 Gender, 6, 245, 337
 Minority populations, 6, 63, 263
 Occupational asthma, 309
 Study designs, 3
 Temporal trends, 10
 Error grid analysis, 145
 Estrogen, 248
 Ethno-cultural beliefs, 72
 Exercise-induced asthma, 28, 62, 100, 211
 Exhaled nitric oxide, 5
 Experimenter expectancy, 134
 Extrinsic asthma, 28
- F**
 Family Asthma Management System Scale (FAMSS), 224
 Family function, 207
 Family conflict, 220
 Family therapy, 224
 Global family functioning, 218, 220
 Impact on asthma, 207, 217, 221, 223
 Family systems theory, 217
- G**
 Gastroesophageal reflux disease (GERD), 32, 38, 99
 Gene-environment interactions, 50, 52, 265
 Grain-dust induced asthma, 308
 Guidelines (see Practice guidelines)

H

- Health beliefs, 73, 130, 225
 - Minorities, 72, 269
 - Parents, 219
- Health communication, 73, 340
 - Interactive health communication, 156
- Health Insurance Portability and Accountability Act (HIPAA), 155
- Health literacy, 74
- Healthcare utilization for asthma, 190
 - Emergency room visits, 12, 127, 330
 - Hospitalization, 11–12, 49, 127, 131
 - Physician visits, 12
 - Women, 255, 257
- Home monitoring of asthma, 146
 - Home internet monitoring, 166
 - Health Buddy*, 167
- Home visits, 279
- Hormone replacement therapy, 248
- Housing, 286
 - Healthy Homes, 280
- Hygiene hypothesis, 23, 45–47, 76
- Hypothalamic-pituitary-adrenal axis, 196, 207

I

- IgE, 22, 45, 189, 264, 303
- Individualized Education Plans (IEP), 231
- Indoor air quality, 48, 237, 284, 338
- Infectious causes hypothesis, 24
- Inflammatory cells (see Eosinophils, Mast cells, Neutrophils)
- International Study of Asthma and Allergies in Childhood, 4, 9
- Intrinsic asthma, 27
- Irritant-induced asthma, 317

L

- Length-tension inappropriateness, 29
- Leukotrienes, 22, 95
- Locus of control, 125
 - Health Locus of Control (HLOC) scale, 125
- Lung cancer, 60

M

- Mast cells, 20, 22, 90
- Medical care utilization for asthma (see Healthcare utilization)
- Medical Expenditure Panel Survey (MEPS), 78
- Medical management of asthma
 - Anti-IgE therapy, 96
 - Anticholinergics, 91
 - Cromones, 93
 - Glucocorticosteroids, 92
 - Goals, 191, 194
 - Long acting beta-2 agonist (LABA), 93
 - Leukotriene modifiers, 95
 - Methylxanthines, 94
 - Pregnancy, 189, 197, 254–255
 - Short acting beta-2 agonist (SABA), 89, 190
 - Side effects, 185, 196, 250
 - Stepwise approach, 98, 195–196

- Menopause, 247
- Menstrual cycle, 251
- Millon Clinical Multiaxial Inventory (MCMI), 315
- Mobile clinic vans, 283
- Mood (see Anxiety; Depression)
- Mucus hypersecretion, 19
- Muscarinic receptors, 91

N

- National Cooperative Inner-City Asthma Study, 192, 268, 270
- National Health Interview Surveys, 6–9, 210, 229
- National Hospital Discharge Survey, 65
- Neutrophils, 20
- Nitrogen dioxide, 48–49, 289

O

- Obesity, 205, 246, 255, 268, 338
- Occupational asthma
 - Definition, 303
 - Latency period, 303, 305, 316
 - Medico-legal considerations, 308
 - Natural history, 305
 - Workplace exposure, 188, 310
- Omega-3 fatty acids, 45
- Oral contraceptives, 252
- Osmotic hypothesis, 28–29
- Ozone, 48, 50, 287

P

- Pediatric Asthma Caregivers Quality of Life Questionnaire, 157
- Pediatric Asthma Quality of Life Questionnaire, 123, 126, 157
- Panic, 184, 205, 232
- Parent-child relationship, 186, 206, 219
- Particulate matter, 48, 287
 - PM_{2.5}, 48
- Peak expiratory flow rate, 146
 - Conditional probability, 146
 - Measurement, 142
 - Relationship to other pulmonary responses, 124, 144
- Monitoring, 123, 192, 233
 - Usage and attitudes, 142
 - Versus medical management, 147
 - Versus symptom monitoring, 141, 145, 147
- Occupational asthma, 306
 - Relationship to symptoms, 143
- Perceptual error, 143
- Pharmacists, 282
- Piers-Harris Self-Concept Inventory, 125
- Population attributable risk, 14
 - Work exposures, 313
- Practice guidelines, 4, 153, 341–342
 - Global Initiative for Asthma (GINA), 89
 - National Asthma Education and Prevention Program (NAEPP), 156, 168, 181, 191, 230, 278, 336, 341–342

- Pregnancy, 188, 253, 342
 Medical treatment, 189, 197, 255
- Professional asthma education, 164
 Continuing medical education, 164
- Progressive muscle relaxation, 126
- Psychiatric Symptom Index (PSI), 315
- Psychosocial factors, 212, 267
 Assessment, 212
 Parental stress, 77, 218, 267
 Women, 256
- Puberty, 203, 247
- Public policy, 277, 342
- Pulmonary function, 35, 157, 183, 191
 Hormone replacement therapy, 249
 Minority populations, 264
 PEFr (see Peak expiratory flow rate)
- Pulsus paradoxus, 34
- Q**
- Quality Adjusted Life Years (QALY), 318
- Quality of evidence, 279, 310
- R**
- Radioallergoimmunosorbant test (RAST), 182
- Reactive Airways Dysfunction Syndrome (RADS), 303, 307
- Regulation of oxidant stress, 52
- Resilience, 271
- Respiratory Syncytial Virus (RSV), 25
- Revised Children's Manifest Anxiety Scale, 144
- Rhinovirus, 26
- Risky behaviors, 204
- S**
- St. George Respiratory Questionnaire (SGRQ), 130
- School Health Index*, 230
- Screening for asthma, 61
 Asthma detection, 62, 156, 283
 Criteria, 66–67
- Secondhand tobacco smoke (see Environmental tobacco smoke)
- Self-efficacy, 121, 125, 219
- Self-esteem, 186, 197, 202, 225
- Self-image, 203, 208
- Self-management of asthma (see also Asthma education)
 Adult programs, 128, 187
 Components, 118
 Effectiveness, 119
 Family, 222, 340
 Group training, 118
 Pediatric programs, 121, 186
 Relaxation training, 125
 Self-administered training, 118
 Tailored training, 118, 132, 279
 Theory, 120
 Behavior control, 120
 Environmental theory, 120
- Sensitization, 304
- Sentinel Event Notification System for Occupational Risk (SENSOR), 312, 317
- Severity of asthma
 Classification, 90, 184
 Costs, 329
 Medical management, 194
 Symptoms and lung function, 143
- Sleep disturbance, 210
- Social cognitive theory, 159
- Social determinants of health (see also Asthma, Health disparities), 277
- Social ecology of asthma, 71, 79
- Social learning theory, 121
- Social support, 222, 281
- Socioeconomic status (SES), 208–209, 246, 267, 307
- Spirometry (see Pulmonary function)
- Stress, 77, 125, 315, 337
- Stop Asthma Clinical System* (SACS), 159
- Support groups, 186
- Surveillance of Work-Related and Occupational Respiratory Diseases (SWORD), 313
- Symptoms of asthma, 32, 122, 141
 Family, 221
 Perception of symptoms, 145, 256
 Pregnancy, 254
 Race, 78, 336
 Symptom monitoring, 120, 141
 Weight, 206
 Work-related, 188, 311
- T**
- TH2 hypothesis, 21–22
 TH2 cells, 22
- Thermal hypothesis, 29
- Transtheoretical Stages of Change, 159
- U**
- Uninsured, 79, 331
- Universal health insurance, 331
- V**
- Value Based Insurance Design, 332
- Vehicular traffic, 49, 288
- Vocal cord dysfunction, 37, 187
- W**
- Wood smoke, 287
- Work-aggravated asthma, 307, 318
 Asthma-related work disability, 317
- Y**
- Youth Risk Behavior Surveillance System (YRBSS), 201