# Contents

# I. DYNAMICS OF THE HEALTH MARKETPLACE

# 1. Consumer Health Issues, 1

Misleading Information, 2 Quackery and Health Fraud, 5 Problems with Products, 6 Problems with Services, 7 Problems with Costs and Access, 8 Problems with Risk Perception, 8 The Need for Consumer Protection, 8 Intelligent Consumer Behavior, 10

# 2. Separating Fact from Fiction, 13

How Facts Are Determined, 14 Peer Review, 17 Trustworthiness of Sources, 19 Prudent Use of the Internet, 27 Further Suggestions for Consumers, 30

# 3. Frauds and Quackery, 33

Definitions, 34 Scope, 35 Vulnerability, 36 Hazards, 37 Common Misconceptions, 38 Recognizing Quackery, 41 Conspiracy Claims, 42 The Freedom-of-Choice Issue, 43

#### 4. Advertising and Other Promotional Activities, 45

Psychologic Manipulation, 46 Puffery, Weasel Words, and Half Truths, 48 Marketing Outlets, 49 Professional Advertising, 49 Marketing by Hospitals, 50 Prescription Drug Marketing, 51 Nonprescription Drug Advertising, 53 Tobacco Promotion, 53 Food Advertising, 54 Dietary Supplement Promotion, 54 Mail-Order Quackery, 57 Weight-Control Promotions, 59 Youth and Beauty Aids, 59 Exercise and Fitness Products, 60 Program-Length Infomercials, 60 Multilevel Marketing (MLM), 61 Telemarketing Schemes, 62 Industry Self-Regulation, 62 Regulatory Agencies, 63

# **II. HEALTH-CARE APPROACHES**

# 5. Science-Based Health Care, 65

Health-Care Personnel, 66 Choosing a Physician, 70 Basic Medical Care, 75 Surgical Care, 80 Quality of Medical Care, 82 The Intelligent Patient, 85

## 6. Mental and Behavioral Help, 89

Who Should Seek Help?, 90 Mental Health Practitioners, 90 Psychologic Methods, 93 Drug Therapy, 94 Electroconvulsive Therapy, 95 Psychosomatic Disorders, 96 Inpatient Care, 96 Help for Addictive Behavior, 96 Selecting a Therapist, 97 Questionable "Self-Help" Products, 98 Questionable Practices, 100 Mismanagement of Psychotherapy, 107

#### 7. Dental Care, 111

Dentists, 112 Allied Dental Personnel, 112 Tooth Decay, 113 Fluoridation, 114 Periodontal Disease, 115 Self-Care, 116 Dental Products, 117 Dental Restorations, 119 Endodontics (Root Canal Therapy), 120 Orthodontics, 120 Dentures, 121 Dental Implants, 121 Dental X-Ray Procedures, 121 Questionable Procedures, 122 Dental Quackery, 124 Choosing a Dentist, 126

#### 8. The "CAM" Movement, 131

Classification, 132 Popularity, 134 Common Themes, 135 Homeopathy, 137 Acupuncture and TCM, 141 Naturopathy, 143 Natural Hygiene, 145 Iridology, 145 Reflexology, 146 Cranial Therapy, 147 Aromatherapy, 147 "Energy Healing," 147 Massage Therapy, 148 Psychic Healing, 148 Astrology, 151 Transcendental Meditation, 152 Unscientific Medical Practices, 154 Supportive Organizations 158 "Medical Freedom" Laws, 158 The NIH Center for Complementary and Alternative Medicine (NCCAM), 158

## 9. A Close Look at Chiropractic, 163

Historical Perspective, 164 Chiropractic Philosophy, 165 Chiropractic Education, 168 Research Findings, 169 Problems for Consumers, 170

# **III.** NUTRITION AND FITNESS

# 10. Basic Nutrition Concepts, 175

Major Food Components, 176 Meeting Nutrient Needs, 179 Food-Group Systems, 182 Evaluating Your Diet, 183 Guidelines for Infants and Toddlers, 183 Vegetarianism, 184 "Fast Food," 186 Nutrients of Special Concern, 186 Nutrition Labeling, 187 Trustworthy Information Sources, 191

# 11. Nutrition Fads, Fallacies, and Scams, 195

Food Faddism and Quackery, 196 Dietary Supplements, 197 Megavitamin Claims vs Facts, 203 Appropriate Use of Supplements, 206 "Organic" Foods, 206 "Health" and "Natural" Foods, 207 Raw Foods and "Juicing," 213 "Medicinal" Use of Herbal Products, 213 Macrobiotic Diets, 219 Dubious Diagnostic Tests, 219 Promotion of Questionable Nutrition, 221 Promotional Organizations, 227 Prominent Individual Promoters, 228

#### 12. Weight Control, 233

Basic Concepts, 234 Eating Disorders, 238 The U.S. Weight-Loss Marketplace, 240 Questionable Diets, 240 Prescription Drugs, 243 Nonprescription Products, 244 Low-Calorie Products, 246 Bariatric Surgery, 248 Dubious Products and Procedures, 248 Federal Trade Commission Actions, 250 Weight-Control Organizations, 252 Suggestions for Weight Control, 254

# 13. Fitness Concepts, Products, and

Services, 259 Public Perceptions, 260 Benefits of Exercise, 261 Types of Exercise, 262 Components of Fitness, 262 Starting an Exercise Program, 263 Personal Trainers, 269 Sports Medicine Specialists, 270 Exercise Equipment and Supplies, 270 Exercise Facilities, 276 Martial Arts Training, 278 Children's Exercise Centers, 278 Exercise While Traveling, 278 Exercise and Weight Control, 279 Nutrition for Athletes, 279 Anabolic Steroids, 281 Other "Ergogenic Aids," 282

# **IV. PERSONAL HEALTH CONCERNS**

#### 14. Personal Health and Safety, 287

Types (Levels) of Prevention, 288 Health-Promoting Behaviors, 288 Safety Measures, 291 Indoor Air Quality, 291 Risk Perception, 292 Self-Diagnosis, 292 Managing Chronic Disease, 295 Self-Help Advice, 300 Self-Help Groups, 301 Questionable Self-Help Devices, 301 Internet Considerations, 301

#### 15. Cardiovascular Disease, 305

Significance of Cardiovascular Disease, 306 Risk Factors for Coronary Heart Disease, 306 Blood Lipid Levels, 307 Cholesterol Guidelines, 309 Dietary Modification, 311 Lipid-Lowering Drugs, 315 Preventive Use of Aspirin, 317 Questionable Preventive Measures, 318 High Blood Pressure, 320 Heart Attacks, 322 Diagnostic Tests, 322 Surgery to Restore Blood Flow, 324 Cardiac Rehabilitation Programs, 326

## 16. Cancer, 329

Avoidable Causes of Cancer, 330 Preventive Measures, 331 Diagnosis, 331 Prognosis, 332 Evidence-Based Treatment Methods, 332 Diet and Cancer Prevention, 333 Susceptibility to Cancer Quackery, 334 Questionable Methods, 335 Promotion of Questionable Methods, 344 Trustworthy Information Sources, 345 Treatment Guidelines, 345 Consumer Protection Laws, 346

# V. OTHER PRODUCTS AND SERVICES

**17. Drug Products, 349** Medication Types, 350

Pharmacists, 351 Prescription Drugs, 353 Generic vs Brand-Name Drugs, 354 Drug Interactions, 355 Drug Recalls, 355 Counterfeit Drugs, 355 Internet Pharmacy Sales, 358 Over-the-Counter Drugs, 359 External Analgesics, 360 Internal Analgesics, 361 Antacids and Other Heartburn Remedies, 364 Antimicrobial Drug Products, 364 Cough and Cold Remedies, 365 Sore-Throat Products, 367 **Ophthalmic Products**, 367 Diarrhea Remedies, 368 Anti-Hemorrhoidals, 368 Laxatives, 369 Smoking Deterrents, 370 Stimulants for Fatigue, 371 Sleep Aids, 371 Motion Sickness Remedies, 372 Iron-Containing Products, 372 Home Medicine Cabinet, 373 Prudent Use of Medication, 373

#### 18. Skin Care and Image Enhancement, 379

Cosmetic Regulation, 380 Soaps and Cleansers, 381 Moisturizers, 381 **Ouestionable Claims**, 382 Wrinkles and Age Spots, 383 Fade Creams, 384 Antiperspirants and Deodorants, 384 Acne Care, 384 Head Hair and Scalp Care, 386 Hair Loss, 388 Tattoos and Permanent Makeup, 389 Body Piercing, 390 Treatment of Common Foot Problems, 390 Poison Ivy, 390 Insect Repellents, 391 Sun Protection, 391 Camouflage Cosmetics, 393 Cosmetic Procedures, 393 **Bogus Breast and Penis Enlargement** Claims, 398

19. Sexual and Reproductive Health, 401

Menstrual Products, 402 Menstrual Problems, 403 Vaginal Hygiene, 404 Vaginitis, 405 "Jock Itch," 405 Sexually Transmitted Diseases, 405 Contraception, 406 Voluntary Abortions, 410 Infertility, 411 Genetic Testing and Prenatal Counseling, 411 Pregnancy and Delivery, 411 Cord Blood Banking, 414 Infant Feeding, 414 Treatment of Menopausal Symptoms, 415 Alleged Sex Enhancers, 416 Genuine Help for Erectile Dysfunction, 416

# 20. Health Devices, 419

Medical-Device Regulation, 420 Vision Products and Services, 421 Hearing Aids, 427 Humidifiers and Vaporizers, 429 Personal Emergency Response Systems, 430 Latex Allergy, 430 Dubious Water Purifier Promotions, 430 Spinal Decompression Machines, 431 Quack Devices, 431 Consumer Strategy, 435

# 21. Coping with Death, 437

Advance Directives, 438 Viatical Settlements, 441 Donations of Organs and Tissues, 442 Hospice Care, 443 Euthanasia and Assisted Suicide, 444 Reasons for an Autopsy, 445 Body Disposition, 445 Coping with Grief, 448 Life-Extension/Anti-Aging Quackery, 448

# 22. Health-Care Facilities, 453

Accreditation, 454 Outpatient Medical Facilities, 454 Hospitals, 457 Home Care Services, 460 Assisted Living Facilities, 461 Nursing Homes, 461 Continuing Care Retirement Communities, 464

## VI. PROTECTION OF THE CONSUMER

## 23. Health Insurance, 467

Background, 468 Comprehensive Medical Insurance, 468 Contract Provisions, 471 Types of Plans, 474 Consumer-Directed Expense Accounts, 476 "Concierge Medicine," 476 Indemnity vs Managed Care, 477 Loss Ratios, 478 Choosing a Plan, 478 Medicare, 480 Medicaid, 481 Other Government-Sponsored Programs, 481 Long-Term-Care Insurance, 481 Dental Insurance, 482 Collection of Insurance Benefits, 483 Disability Insurance, 484

# 24. Health-Care Financing, 487

Health-Care Costs, 488 Cost-Control Methods, 492 Insurance Fraud and Abuse, 494 National Health Insurance (NHI), 498

# 25. Consumer Laws, Agencies, and Strategies, 503

U.S. Food and Drug Administration, 504 Federal Trade Commission, 515 U.S. Postal Service, 517 Other Federal Agencies, 517 State and Local Agencies, 518 Physician Regulation, 518 Nongovernmental Organizations, 519 Consumer Action, 522

# Appendix: Trustworthy Sources of Information, 525

Federal Government Agencies, 526 Nongovernmental Organizations, 526

# Glossary, 529

Index, 541