CONNECT CORE CONCEPTS IN HEALTH

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SEVENTEENTH EDITION

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CONNECT CORE CONCEPTS IN HEALTH, SEVENTEENTH EDITION

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BRIEF CONTENTS

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PART ONE

ESTABLISHING A BASIS FOR WELLNESS

CHAPTER 1	Taking Charge of Your Health 1
CHAPTER 2	Stress: The Constant Challenge 27
CHAPTER 3	Psychological Health 49
CHAPTER 4	Sleep 76

PART TWO

UNDERSTANDING SEXUALITY

CHAPTER 5	Intimate Relationships and Communication 98
CHAPTER 6	Sex and Your Body 124
CHAPTER 7	Contraception 152
CHAPTER 8	Abortion 179
CHAPTER 9	Pregnancy and Childbirth 191

PART THREE

۲

SUBSTANCE USE DISORDERS: MAKING RESPONSIBLE DECISIONS

CHAPTER 10	Drug Use and Addiction 218	
CHAPTER 11	Alcohol: The Most Popular Drug	246
CHAPTER 12	Tobacco Use 269	

PART FOUR

GETTING FIT

CHAPTER 13	Nutri	tion	Ba	sics	295	
	_					

- **CHAPTER 14** Exercise for Health and Fitness 341
- CHAPTER 15 Weight Management 372

PART FIVE

PROTECTING YOURSELF FROM DISEASE

CHAPTER 16	Cardiovascular Health 406	
CHAPTER 17	Cancer 438	
CHAPTER 18	Immunity and Infection 466	
CHAPTER 19	Sexually Transmitted Infections	496

PART SIX

LIVING WELL IN THE WORLD

CHAPTER 20	Environmental Health 523		
CHAPTER 21	Conventional and Complementary Medicine <i>550</i>		
CHAPTER 22	Personal Safety 581		

PART SEVEN

ACCEPTING PHYSICAL LIMITS

CHAPTER 23 Aging: An Ongoing Process 610 CHAPTER 24 Dying and Death 629

APPENDIXES

APPENDIX A	Nutrition Resources 651
APPENDIX B	A Self-Care Guide for Common Medical Problems 652
Index 659	

iii

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CONTENTS

Preface xv



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PART ONE

()

ESTABLISHING A BASIS FOR WELLNESS

TAKING CHARGE OF YOUR HEALTH 1

WELLNESS AS A HEALTH GOAL 2 Dimensions of Wellness 2 The Long and the Short of Life Expectancy 3

PROMOTING NATIONAL HEALTH 8

Health Insurance Options 8 The Healthy People Initiative 8 Health Issues for Diverse Populations 9

FACTORS THAT INFLUENCE WELLNESS 12

Health Habits 12 Heredity/Family History 13 Environment 13 Access to Health Care 13 Personal Health Behaviors 13

REACHING WELLNESS THROUGH LIFESTYLE MANAGEMENT 13

Getting Serious about Your Health 14 Building Motivation to Change 14 Enhancing Your Readiness to Change 15 Dealing with Relapse 19 Developing Skills for Change: Creating a Personalized Plan 20 Putting Your Plan into Action 22 Staying with It 22

BEING HEALTHY FOR LIFE 23

Tips for Today and the Future23Summary24For More Information24Selected Bibliography25

2 STRESS: THE CONSTANT CHALLENGE 27

WHAT IS STRESS? 28

Physical Responses to Stressors 28 Cognitive and Psychological Responses to Stressors 31 The Stress Experience as a Whole 32

STRESS AND HEALTH 33

The General Adaptation Syndrome 33 Allostatic Load 34 Psychoneuroimmunology 34 Health Problems and Stress 34

COMMON SOURCES OF STRESS 36

Major Life Changes 36 Daily Hassles 36 College Stressors 36 Job-Related Stressors 37 Social Stressors 37 Environmental Stressors 37 Internal Stressors 37 Traumatic Stressors 38

MANAGING STRESS 38

Social Support 38 Volunteering 39 Communication 40 Exercise 40 Nutrition 40 Time Management 40 Cultivating Spiritual Wellness 41 Confiding in Yourself through Writing 42 Thinking and Acting Constructively 42 Body Awareness Techniques 44 Counterproductive Coping Strategies 44 Getting Help 45 Tips for Today and the Future 46 Summarv 46 For More Information 46 Selected Bibliography 48

۲

3 PSYCHOLOGICAL HEALTH 49

DEFINING PSYCHOLOGICAL HEALTH 50

Positive Psychology50What Psychological Health Is Not51

MEETING LIFE'S CHALLENGES WITH A POSITIVE SELF-CONCEPT 52

Growing Up Psychologically 52 Achieving Healthy Self-Esteem 53 Psychological Defense Mechanisms–Healthy and Unhealthy 56 Being Optimistic 56 Maintaining Honest Communication 57 Finding a Social Media Balance 57 Dealing with Loneliness 57 Dealing with Anger 57

PSYCHOLOGICAL DISORDERS 58

Anxiety Disorders 59 Attention-Deficit/Hyperactivity Disorder 62 Mood Disorders 62 Schizophrenia 65

SUICIDE 65

MODELS OF HUMAN NATURE AND THERAPEUTIC CHANGE 67

The Biological Model 67 The Behavioral Model 68 The Cognitive Model 69 The Psychodynamic Model 69 Evaluating the Models 69 Other Psychotherapies 70

GETTING HELP 70

 (\blacklozenge)

Self-Help 70 Peer Counseling and Support Groups 70 Online Help and Apps 71 Professional Help 71 *Tips for Today and the Future* 72 *Summary* 72 *For More Information* 73 *Selected Bibliography* 75

4 SLEEP 76

SLEEP BIOLOGY 77

Sleep Stages 77 Natural Sleep Drives 78

CHANGES IN SLEEP BIOLOGY ACROSS THE LIFE SPAN 82

Changes in Circadian Rhythm82Sleep Cycles, Age, and Gender83

SLEEP AND ITS RELATION TO HEALTH 84 Mood and Depression 84

Dementia 84

Athletic Performance 84 Musculoskeletal Pain 85 Obesity and Weight Management 85 Cardiovascular Disease 85 Diabetes 85 Public Health Impact 85

GETTING STARTED ON A HEALTHY SLEEP PROGRAM 86

Step I: Take an Inventory86Step II: Identify Sleep Disrupters87Step III: Improve Sleep Fitness89

SLEEP DISORDERS 91

Chronic Insomnia 91 Restless Leg Syndrome 93 Sleep Apnea 93 Narcolepsy 94 *Tips for Today and the Future* 95 *Summary* 95 *For More Information* 96 *Selected Bibliography* 97



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((()

PART TWO

UNDERSTANDING SEXUALITY

5 INTIMATE RELATIONSHIPS AND COMMUNICATION 98

DEVELOPING INTERPERSONAL RELATIONSHIPS 99

Self-Concept, Developing from Childhood 99
Nonsexual Intimate Relationships: Family, Friends, Peers 100
Love, Sex, and Intimacy 101
Challenges in Relationships 103
Unhealthy Intimate Relationships 105
Ending a Relationship 106

COMMUNICATION 106

Nonverbal Communication 106 Digital Communication and Our Social Networks 107 Communication Skills 108 Conflict and Conflict Resolution 108

PAIRING AND SINGLEHOOD 109

Choosing a Partner 110 Dating 110 Online Dating and Relationships 110 Sexual Orientation and Gender Identity in Relationships 112 Singlehood 113 Living Together 114

MARRIAGE 115

()

The Benefits of Marriage115Issues and Trends in Marriage115Separation and Divorce116

FAMILY LIFE 117

Becoming a Parent 117 Parenting 118 Single Parents 119 Stepfamilies/Blended Families 119 Successful Families 120 Tips for Today and the Future 121 Summary 121 For More Information 122 Selected Bibliography 122

6 SEX AND YOUR BODY 124

SEXUAL ANATOMY 125

From Binary to Spectrum 125 Female Sex Organs 125 Male Sex Organs 127

GENDER ROLES AND SEXUAL ORIENTATION 128

Gender Roles128Sexual Orientation129

HORMONES AND THE REPRODUCTIVE LIFE CYCLE 131 Differentiation of the Embryo 131

vi CONTENTS

Sexual Maturation 132 Aging and Human Sexuality 134

۲

HOW SEX ORGANS FUNCTION DURING SEXUAL

ACTIVITY 136 Sexual Stimulation 136 The Sexual Response Cycle 137 Sexual Problems 137

SEXUAL BEHAVIOR 142

The Development of Sexual Behavior 142 Varieties of Human Sexual Behavior 144 Commercial Sex 145 Responsible Sexual Behavior 147 *Tips for Today and the Future* 148 *Summary* 148 *For More Information* 149 *Selected Bibliography* 150

7 CONTRACEPTION 152

HOW CONTRACEPTIVES WORK 153

LONG-ACTING REVERSIBLE CONTRACEPTION 155

Intrauterine Devices (IUDs) 155 Contraceptive Implants 157

SHORT-ACTING REVERSIBLE

CONTRACEPTION 158 Oral Contraceptives: The Pill 158 Contraceptive Skin Patch 161 Vaginal Contraceptive Ring 161 Injectable Contraceptives 162 Male Condoms 162 Female Condoms 164 Diaphragm with Spermicide 165 Cervical Cap 166 Contraceptive Sponge 166 Vaginal Spermicides 167 Abstinence, Fertility Awareness, and Withdrawal 168 Combining Methods 169

EMERGENCY CONTRACEPTION 169

PERMANENT CONTRACEPTION170Male Sterilization: Vasectomy170Female Sterilization171

ISSUES IN CONTRACEPTION 172

When Is It OK to Begin Having Sexual Relations? 172
Contraception and Gender Differences 173
Sexuality and Contraception Education for Teenagers 174

WHICH CONTRACEPTIVE METHOD IS RIGHT FOR

YOU? 174 Tips for Today and the Future 176 Summary 176 For More Information 176 Selected Bibliography 177

⁸ ABORTION 179

ABORTION IN THE UNITED STATES SINCE THE 19TH CENTURY 180

UNDERSTANDING ABORTION 181

U.S. Abortion Statistics 181 Personal Considerations for the Woman 182 Personal Considerations for the Man 182

METHODS OF ABORTION 182 First-Trimester Abortion 182

Second-Trimester Abortion 184

POSTABORTION CONSIDERATIONS185Possible Emotional Effects185

LEGAL RESTRICTIONS ON ABORTION 185

THE PUBLIC DEBATE ABOUT ABORTION 187

Tips for Today and the Future 188 Summary 189 For More Information 189 Selected Bibliography 189

PREGNANCY AND CHILDBIRTH 191

PREPARATION FOR PARENTHOOD 192 Deciding to Become a Parent 192 Preconception Care 192

UNDERSTANDING FERTILITY AND

INFERTILITY 193 Conception 193 Infertility 197

()

PREGNANCY198Changes in the Woman's Body198Emotional Responses to Pregnancy201

FETAL DEVELOPMENT 201

The First Trimester 202 The Second Trimester 203 The Third Trimester 203 Diagnosing Fetal Abnormalities 203

THE IMPORTANCE OF PRENATAL CARE 204

Regular Checkups 204 Blood Tests 205 Prenatal Nutrition 205 Avoiding Drugs and Other Environmental Hazards 205 Prenatal Activity and Exercise 207 Preparing for Birth 208

COMPLICATIONS OF PREGNANCY AND PREGNANCY

LOSS 208 Ectopic Pregnancy 208 Spontaneous Abortion 209 Stillbirth 209 Preeclampsia 209 Placenta Previa 209 Placental Abruption 210 Gestational Diabetes 210 Preterm Labor and Birth 210 Labor Induction 210 Low Birth Weight and Premature Birth 210 Infant Mortality and SIDS 211 Coping with Loss 211

CHILDBIRTH 211

۲

Choices in Childbirth 211 Labor and Delivery 211 The Postpartum Period 214 *Tips for Today and the Future* 215 *Summary* 215 *For More Information* 216 *Selected Bibliography* 216



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PART THREE

SUBSTANCE USE DISORDERS: MAKING RESPONSIBLE DECISIONS

DRUG USE AND ADDICTION 218

ADDICTION 219 What Is Addiction? 219 Diagnosing Substance Misuse and Addiction 220 The Development of Addiction 221 Behavioral Addictions 221

WHY PEOPLE USE AND MISUSE DRUGS222The Allure of Drugs224Risk Factors for Drug Misuse and Addiction224

RISKS ASSOCIATED WITH DRUG MISUSE 226

HOW DRUGS AFFECT THE BODY 226

Changes in Brain Chemistry 226 Physical Factors 227 Psychological Factors 227 Social Factors 227

GROUPS OF PSYCHOACTIVE DRUGS 228

Opioids 228 Central Nervous System Depressants 228

CONTENTS vii

Central Nervous System Stimulants 231 Marijuana and Other Cannabis Products 233 Hallucinogens 234 Inhalants 236 Prescription Drug Misuse 236 New Psychoactive Substances 236

PREVENTING DRUG-RELATED PROBLEMS 237

Drugs, Society, and Families 237 Legalizing Drugs 237 Drug Testing 237 Treating Drug Addiction 238 Preventing Drug Misuse 241 Tips for Today and the Future 242 Summary 242 For More Information 243 Selected Bibliography 244

ALCOHOL: THE MOST POPULAR DRUG 246

ALCOHOL AND THE BODY 247

Common Alcoholic Beverages 247 Absorption 247 Metabolism and Excretion 248 Alcohol Intake and Blood Alcohol Concentration 249

ALCOHOL'S IMMEDIATE AND LONG-TERM

EFFECTS 250 Immediate Effects 251 Drinking and Driving 254 Long-Term Effects of Chronic Misuse 255 Alcohol Use during Pregnancy 256 Possible Health Benefits of Alcohol? 257

()

EXCESSIVE USE OF ALCOHOL 257

Statistics on Alcohol Use258Alcohol Use Disorder: From Mild to Severe258Binge Drinking258Alcoholism (Severe Alcohol Use Disorder)258Gender and Ethnic Differences261Helping Someone with an Alcohol Problem263

DRINKING BEHAVIOR AND RESPONSIBILITY 263

Examine Your Drinking Behavior 263 Drink Moderately and Responsibly 264 Promote Responsible Drinking 265 *Tips for Today and the Future* 266 *Summary* 266 *For More Information* 267 *Selected Bibliography* 267

12 TOBACCO USE 269

WHO USES TOBACCO? 270

Young People and Alternative Tobacco Products 270 Gender and Smoking 270 Tobacco and Other Factors 272

viii CONTENTS

WHY PEOPLE USE TOBACCO 272

Nicotine Addiction 272 Social and Psychological Factors 273 Genetic Factors 273 Why Start in the First Place? 274

HEALTH HAZARDS 275

۲

Tobacco Smoke: A Toxic Mix275The Immediate Effects of Smoking277The Long-Term Effects of Smoking278Additional Health, Cosmetic, and Economic Concerns281Risks Associated with Other Forms of Tobacco Use282

THE EFFECTS OF SMOKING ON THE NONSMOKER 284

Environmental Tobacco Smoke 284 Smoking and Pregnancy 286 The Cost of Tobacco Use to Society 286

WHAT CAN BE DONE TO COMBAT SMOKING? 286

Action at the Local Level 286 Action at the State and Federal Levels 287 FDA Regulation of Tobacco 287 International Action 288 Action in the Private Sector 288 Individual Action 288

HOW A TOBACCO USER CAN QUIT 289

Benefits of Quitting289Options for Quitting289Tips for Today and the Future291Summary291For More Information293Selected Bibliography293



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PART FOUR

GETTING FIT

13 NUTRITION BASICS 295

COMPONENTS OF A HEALTHY DIET 296

Energy 297 Proteins—The Basis of Body Structure 298 Fat—Another Essential Nutrient 299 Carbohydrates—An Important Source of Energy 300

Fiber–A Closer Look304Vitamins–Organic Micronutrients306Minerals–Inorganic Micronutrients306Water–Vital but Underappreciated308Other Substances in Food309

NUTRITIONAL GUIDELINES: PLANNING YOUR DIET 309

Dietary Reference Intakes (DRIs) 310 Dietary Guidelines for Americans 310 USDA's MyPlate 313 DASH Eating Plan 320 Choosing a Plant-Based Diet 320 Dietary Challenges for Various Population Groups 321

A PERSONAL PLAN: MAKING INFORMED CHOICES ABOUT FOOD 323

Reading Food Labels 323 Calorie Labeling: Restaurants and Vending Machines 323 Dietary Supplements 325 Protecting Yourself against Foodborne Illness 326 Environmental Contaminants 328 Organic Foods 328 Guidelines for Fish Consumption 329 Additives in Food 330 Functional Foods 330 Food Biotechnology 330 Food Allergies and Food Intolerances 331 Tips for Today and the Future 332 Summary 332 For More Information 334 Selected Bibliography 334

14 EXERCISE FOR HEALTH AND FITNESS 341

THE BENEFITS OF EXERCISE 342

Reduced Risk of Premature Death 342 Improved Cardiorespiratory Functioning 343 More Efficient Metabolism and Improved Cell Health 343 Improved Body Composition 343 Disease Prevention and Management 344 Improved Psychological and Emotional Wellness 345 Improved Immune Function 345 Prevention of Injuries and Low-Back Pain 345 Improved Wellness for Life 345

WHAT IS PHYSICAL FITNESS? 346

Cardiorespiratory Endurance 346 Muscular Strength 346 Muscular Endurance 347 Flexibility 347 Body Composition 347 Skill-Related Components of Fitness 347

COMPONENTS OF AN ACTIVE LIFESTYLE 347

Levels of Physical Activity 348 Increasing Physical Activity and Exercise 348 Reducing Sedentary Time 349

DESIGNING YOUR EXERCISE PROGRAM 351 First Steps 351 Cardiorespiratory Endurance Exercise 355 Exercises for Muscular Strength and Endurance 358 Flexibility Exercises 361 Training in Specific Skills 361 Putting It All Together 361

GETTING STARTED AND STAYING ON TRACK 362

Selecting Instructors, Equipment, and Facilities 362 Eating and Drinking for Exercise 364 Managing Your Fitness Program 364 *Tips for Today and the Future* 367 *Summary* 367 *For More Information* 368 *Selected Bibliography* 368

15 WEIGHT MANAGEMENT 372

EVALUATING BODY WEIGHT AND BODY COMPOSITION 373

Body Composition 373 Defining Healthy Weight, Overweight, and Obesity 373 Estimating Body Composition 374 Body Mass Index 375 Body Fat Distribution 376 What Is the Right Weight for You? 377

BODY FAT AND WELLNESS 377

Diabetes 377 Heart Disease and Other Chronic Conditions 379 Problems Associated with Very Low Levels of Body Fat 379

HOW DID I GET TO BE MY WEIGHT? 380

Energy Balance Model 380 Carbohydrate-Insulin Model 380 Multi-Factor Model 380

ADOPTING A HEALTHY LIFESTYLE FOR SUCCESSFUL WEIGHT MANAGEMENT 385

Dietary Patterns and Eating Habits 385 Physical Activity and Exercise 389 Thinking and Emotions 389 Coping Strategies 389

APPROACHES TO OVERCOMING A WEIGHT PROBLEM 389

Doing It Yourself 389 Diet Books, Websites, and Social Media Programs 391 Dietary Supplements and Diet Aids 391 Weight Loss Programs 391 Prescription Drugs 394 Surgery 395

BODY IMAGE AND EATING DISORDERS 396

Severe Body Image Problems 396 Eating Disorders 396 Positive Body Image: Finding Balance 399 Tips for Today and the Future 400 Summary 400 For More Information 401 Selected Bibliography 401

CONTENTS ix

()



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PART FIVE

PROTECTING YOURSELF FROM DISEASE

16 CARDIOVASCULAR HEALTH 406

THE CARDIOVASCULAR SYSTEM 407

The Heart 407 The Blood Vessels 409

MAJOR FORMS OF CARDIOVASCULAR DISEASE 410

Atherosclerosis 410 Coronary Artery Disease and Heart Attack 410 Stroke 415 Peripheral Arterial Disease 418 Congestive Heart Failure 418 Other Forms of Heart Disease 419

RISK FACTORS FOR CARDIOVASCULAR DISEASE 420

Major Risk Factors That Can Be Changed420Contributing Risk Factors That Can Be Changed426Major Risk Factors That Can't Be Changed428Possible Risk Factors Currently Being Studied429

PROTECTING YOURSELF AGAINST

CARDIOVASCULAR DISEASE 431 Eat Heart-Healthy 431 Exercise Regularly 433 Avoid Tobacco Products 433 Manage Your Blood Pressure, Cholesterol Levels, and Stress/Anger 433 Tips for Today and the Future 434 Summary 434 For More Information 434 Selected Bibliography 435

17 CANCER 438

BASIC FACTS ABOUT CANCER 439

Tumors439Metastasis439The Stages of Cancer440Remission440The Incidence of Cancer440

x CONTENTS

THE CAUSES OF CANCER 442

•

The Role of DNA 443 Cancer Promoters 445 Tobacco Use 445 Dietary Factors 445 Inactivity and Obesity 446 Carcinogens in the Environment 446

DETECTING, DIAGNOSING, AND TREATING

CANCER 448 Detecting Cancer 448 Diagnosing Cancer 448 Treating Cancer 450

COMMON TYPES OF CANCER 450

Lung Cancer 452 Colon and Rectal Cancer 452 Breast Cancer 453 Prostate Cancer 455 Cancers of the Female Reproductive Tract 456 Skin Cancer 457 Testicular Cancer 459 Other Cancers 460

NEW AND EMERGING CANCER TREATMENTS 461

Beyond Traditional Treatments461Experimental Techniques462Support during Cancer Therapy463Tips for Today and the Future463Summary463For More Information464Selected Bibliography464

18 IMMUNITY AND INFECTION 466

THE BODY'S DEFENSE SYSTEM 467

Physical and Chemical Barriers467The Immune System: Cells, Tissues, and Organs467Immunization470Allergy: A Case of Mistaken Identity472

THE SPREAD OF DISEASE 474

Symptoms and Contagion474The Chain of Infection474Epidemics and Pandemics476

PATHOGENS, DISEASES, AND TREATMENTS 477

Bacteria 477 Viruses 484 Fungi 489 Protozoa 490 Parasitic Worms 491 Emerging Infectious Diseases 491 Immune Disorders 492

SUPPORTING YOUR IMMUNE SYSTEM 492

Tips for Today and the Future493Summary493For More Information493Selected Bibliography494

19 SEXUALLY TRANSMITTED INFECTIONS 496

THE MAJOR SEXUALLY TRANSMITTED

INFECTIONS 497 HIV Infection and aids 498 Chlamydia 508 Gonorrhea 509 Pelvic Inflammatory Disease 510 Human Papillomavirus 511 Genital Herpes 513 Hepatitis A, B, and C 514 Syphilis 515 Trichomoniasis 516 Other Sexually Transmitted Infections 516

WHAT YOU CAN DO ABOUT SEXUALLY TRANSMITTED

INFECTIONS 516 Education 516 Diagnosis and Treatment 517 Prevention 518 Tips for Today and the Future 518 Summary 519 For More Information 519 Selected Bibliography 521



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PART SIX

LIVING WELL IN THE WORLD

20 ENVIRONMENTAL HEALTH 523

ENVIRONMENTAL HEALTH DEFINED 524

POPULATION GROWTH AND CONTROL525How Many People Can the World Hold?526Factors That Contribute to Population Growth527

ENVIRONMENTAL IMPACTS OF ENERGY USE

AND PRODUCTION 527
Environmental Threats of Extreme Energy Sources 528
Renewable Energy 528
Alternative Fuels 529
Hybrid and Electric Vehicles 530

AIR QUALITY AND POLLUTION 530

Air Quality and Smog 530 The Greenhouse Effect and Global Warming 531 Thinning of the Ozone Layer 534 Indoor Air Quality (IAQ) 534 Preventing Air Pollution 535

WATER QUALITY AND POLLUTION 535

Water Contamination and Treatment535Water Shortages537Sewage537Protecting the Water Supply538

SOLID WASTE POLLUTION 538

What's in Our Garbage?538Disposing of Solid Waste538Biodegradability539Reducing Solid Waste540

CHEMICAL POLLUTION AND HAZARDOUS

WASTE 540 Asbestos 540 Lead 541 Pesticides 542 Mercury 542 Other Chemical Pollutants 542 Preventing Chemical Pollution 543

RADIATION POLLUTION 544

Nuclear Weapons and Nuclear Energy544Medical Uses of Radiation545Radiation in the Home and Workplace545Avoiding Radiation546

NOISE POLLUTION 546

Tips for Today and the Future547Summary547For More Information547Selected Bibliography548

21 CONVENTIONAL AND COMPLEMENTARY MEDICINE 550

SELF-CARE551Self-Assessment551Knowing When to See a Physician551Self-Treatment552

PROFESSIONAL CARE 554

CONVENTIONAL MEDICINE 554

CONTENTS xi

ins49115_fm_i-xxii.indd 11

Premises and Assumptions of Conventional Medicine 555 Pharmaceuticals and the Placebo Effect 556 The Providers of Conventional Medicine 558 Choosing a Primary Care Physician 559 Choosing a Specialist 560 Getting the Most Out of Your Medical Care 560

INTEGRATIVE HEALTH 564

Alternative Medical Systems 564 Mind-Body Medicine 567 Natural Products 568 Manipulative and Body-Based Practices 569 Other CAM Practices 570 When Does CAM Become Conventional Medicine? 571 Evaluating Complementary and Alternative Therapies 572

PAYING FOR HEALTH CARE 573

The Affordable Care Act575How Health Insurance Works575Tips for Today and the Future578Summary578For More Information579Selected Bibliography579

22 PERSONAL SAFETY 581

UNINTENTIONAL INJURIES 582

What Causes an Injury?582Home Injuries582Motor Vehicle Injuries586Leisure Injuries591Work Injuries593

VIOLENCE AND INTENTIONAL

INJURIES 594 Factors Contributing to Violence 594 Assault 596 Homicide 596 Gang-Related Violence 596 Hate Crimes 596 School Violence 597 Workplace Violence 597 Terrorism 598 Family and Intimate-Partner Violence 598 Sexual Violence 601 What You Can Do about Violence 604

PROVIDING EMERGENCY CARE 606

Tips for Today and the Future606Summary607For More Information607Selected Bibliography608

xii CONTENTS

54 64 actices 569

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PART SEVEN

ACCEPTING PHYSICAL LIMITS

23 AGING: AN ONGOING PROCESS 610

PERSPECTIVES ON AGING611Life-Enhancing Measures612

DEALING WITH THE CHANGES OF AGING 614

Changing Roles and Relationships615Adapting to Physical Changes615Psychological and Cognitive Changes618

LIFE EXPECTANCY 620

LIFE IN AN AGING SOCIETY 621

The Aging Minority621Family and Community Resources for Older Adults622Government Aid and Policies625Reimagining Aging625Tips for Today and the Future626Summary626For More Information627Selected Bibliography627

24 DYING AND DEATH 629

UNDERSTANDING AND ACCEPTING DEATH AND

DYING 630 Defining Death 630 Learning about Death 631 Denying versus Acknowledging Death 632

PLANNING FOR DEATH 633

Making a Will 633 Completing an Advance Directive 633 Giving the Gift of Life 635 Considering Options for End-of-Life Care 636 Difficult Decisions at the End of Life 638 Planning a Funeral or Memorial Service 640



COPING WITH IMMINENT DEATH 642

The Tasks of Coping642Supporting a Person in the Last Phase of Life642The Trajectory of Dying643

COPING WITH LOSS 644

Experiencing Grief 644 Supporting a Grieving Person 646 When a Young Adult Loses a Friend 646 Helping Children Cope with Loss 646

COMING TO TERMS WITH DEATH 648

Tips for Today and the Future648Summary648For More Information649Selected Bibliography649

APPENDIXES

A NUTRITION RESOURCES 651 B A SELF-CARE GUIDE FOR COMMON MEDICAL PROBLEMS 652

Index 659

BOXES

()

ASSESS YOURSELF

Wellness: Evaluate Your Lifestyle 16 The Perceived Stress Scale 29 Are You Suffering from a Mood Disorder? 63 Questionnaire: Do I Get Enough Sleep? 87 Are You Emotionally Intelligent? 104 Which Contraceptive Method Is Right for You and Your Partner? 175 Creating a Family Health Tree 196 Is Internet Use a Problem for You? 223 Do You Have a Problem with Alcohol? 264 Tobacco Use Disorder: Are You Hooked? 273 Your Diet versus MvPlate Recommendations 319 The 1.5-Mile Run-Walk Test 365 What Triggers Your Eating? 382 Are You at Risk for CVD? 432 What's Your UV Risk? 457 Do Your Attitudes and Behaviors Put You at Risk for STIs? 518 Environmental Health Checklist 525 Exploring What You Know about CAM 573 Are You an Aggressive Driver? 588

BEHAVIOR CHANGE STRATEGY

Behavior Change Contract25Dealing with Test Anxiety47Dealing with Social Anxiety74Changing Your Drug Habits244Kicking the Tobacco Habit292

Improving Your Diet by Choosing Healthy Beverages333Planning a Personal Exercise Program370Creating a Personal Weight Management Plan405Reducing the Saturated and Trans Fats in Your Diet435Incorporating More Fruits and Vegetables into Your Diet465Talking about Condoms and Safer Sex520Adhering to Your Physician's Instructions579

CRITICAL CONSUMER

Evaluating Sources of Health Information 18 Choosing and Evaluating Mental Health Professionals 71 Sex Enhancement Products 140 Obtaining a Contraceptive from a Health Clinic or Physician 160 Home Pregnancy Tests 200 Choosing a Drug Treatment Program 240 Alcohol Advertising 266 Tobacco Advertising 275 Using Food Labels 324 Using Dietary Supplement Labels 327 What to Wear 363 Evaluating Fat and Sugar Substitutes 388 Are All Calories and Dietary Patterns Equal for Weight Loss? 392 Choosing Cancer Treatments Wisely 451 Sunscreens and Sun-Protective Clothing 459 Preventing and Treating Contagious Respiratory Virus Infections: The Common Cold and COVID-19 486 Tattoos and Body Piercing 489 Getting an HIV Test 505 Endocrine Disruption: A "New" Toxic Threat 543 Avoiding Health Fraud and Quackery 565 Choosing a Health Insurance Plan 576 Choosing a Place to Live 624 A Consumer Guide to Funerals 641

DIVERSITY MATTERS

Health Inequality and COVID-19 11 Diverse Populations, Discrimination, and Stress 38 Ethnicity, Culture, and Psychological Health 60 Marriage Equality 113 Transforming Bodies, Transforming Language 126 Barriers to Contraceptive Use 172 The Adoption Option 183 Abortion around the World 187 Ethnicity and Genetic Disease 194 Drug Use and Race/Ethnicity: A Look at High School Students 238 Metabolizing Alcohol: Our Bodies Work Differently 249 Ethnic Foods 315 Overweight and Obesity among U.S. Ethnic Populations 384 Gender, Race/Ethnicity, and Cardiovascular Disease 430 Race/Ethnicity, Poverty, and Cancer 442 Poverty, Ethnicity, and Asthma 473 HIV/AIDS around the World 500

CONTENTS xiii

ins49115_fm_i-xxii.indd 13

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Poverty, Gender, and Environmental Health 541 Health Care Visits and Gender 561 Injuries among Young Men 583 Why Do Women Live Longer? 621

LAB EXERCISES

Sleep Case Scenarios 96

TAKE CHARGE

()

Financial Wellness 4 Life Expectancy and the Obesity Epidemic 6 Mindfulness Meditation 43 Realistic Self-Talk 55 Digital Devices: Help or Harm for a Good Night's Sleep? 81 Delayed Sleep Phase 91 Guidelines for Effective Communication 109 Strategies of Strong Families 120 Communicating about Sexuality 147 Talking with a Partner about Contraception 173 Physical Activity during Pregnancy 208 If Someone You Know Has a Drug Problem . . . 241 Dealing with an Alcohol Emergency 252 Avoiding ETS 285 Strategies to Quit Smoking 290 Fats and Health 301 Choosing More Whole-Grain Foods 303 Eating for Healthy Bones 308 Positive Changes to Improve Your Diet 314 Judging Portion Sizes 318 Safe Food Handling 329 Making Time for Physical Activity 350 Move More, Sit Less 351 Interval Training: Pros and Cons 353 Determine Your Target Heart Rate 356 Lifestyle Strategies for Successful Weight Management 390 If Someone You Know Has an Eating Disorder ... 399 Warning Signs and Symptoms of Heart Attack, Stroke, or Cardiac Arrest 414

Digital Health Approach to Cardiovascular Disease 421 Testicle Self-Examination 460 Preventing STIs 508 Don't Wait–Early Treatment of STIs Really Matters 517 High-Efficiency Lighting 536 Evaluating Health News 557 Head Injuries in Contact Sports 592 Repetitive Strain Injury 594 Recognizing the Potential for Abusiveness in a Partner (or Yourself) 599 602 The #MeToo Movement and Sexual Harassment Can Exercise Delay the Effects of Aging? 614 Coping with Grief 645 Surviving the Sudden or Violent Death of a Loved One 647

WELLNESS ON CAMPUS

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Wellness Matters for College Students 12 Coping with News of Traumatic Events 39 Deliberate Self-Harm 67 Sleep-Improving and Sleep-Disrupting Medications 90 Learning While Sleeping 92 Hooking Up 111 Questions to Ask Before Engaging in a Sexual Relationship 144 Contraception Use and Pregnancy among College Students 154 Drug Use among College Students 225 Alcoholic Energy Drinks 253 Peer Pressure and College Binge Drinking 259 Eating Strategies for College Students 322 The Freshman 15: Fact or Myth? 386 Are College Students at Risk for Heart Attacks? 412 Strategies for Avoiding Illnesses 480 Playing It Safe 502 College Students and STIs 511 Creating Your Own Health Record 562 Cell Phones and Distracted Driving 587 Gun Violence 605

xiv CONTENTS

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PROVEN, SCIENCE-BASED CONTENT

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Now in its seventeenth edition, *Connect Core Concepts in Health* remains the leading health textbook in U.S. higher education. In 2020, *Connect Core Concepts in Health* won the Textbook and Academic Authors McGuffey Award for Excellence and Longevity. The book's unique psychological approach to mind-body health encourages students to take proactive self-assessments. Students can stay current on the latest studies while learning how to negotiate cross-cultural ideas of what it means to be healthy and how to live in our diverse, consumer-oriented society. McGraw Hill Education's digital and teaching learning tools also integrate *Connect Core Concepts in Health's* authoritative, science-based content.

Assess Yourself helps students analyze their own health and health-related behavior.

Take Charge challenges students to take meaningful action toward personal improvement.

Critical Consumer helps students navigate the numerous and diverse health-related products available on the market.

Diversity Matters introduces the many ways that cultural and gendered ideas of health come to influence our health strengths, risks, and behaviors.

Wellness on Campus focuses on health issues, challenges, and opportunities that students are likely to encounter on a regular basis.

Behavior Change Strategy offers specific behavior management/modification plans related to the chapter topic.

Ask Yourself: Questions for Critical Thinking and Reflection encourages critical reflection on students' own health-related behaviors.

Quick Stats updated for the seventeenth edition, focuses attention on particularly striking statistics related to the chapter content.

Tips for Today and the Future ends each chapter with a quick, bulleted list of concrete actions readers can take now and in the near future.

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CONNECT IS PROVEN EFFECTIVE

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Connect

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McGraw Hill Education Connect[®] is a digital teaching and learning environment that improves performance over a variety of critical outcomes; it is easy to use and proven effective. Connect[®] empowers students by continually adapting to deliver precisely what they need, when they need it, and how they need it, so your class time is more engaging and effective. Connect for Core Concepts in Health offers a wealth of interactive online content, including health labs and self-assessments, video activities on timely health topics, and practice quizzes with immediate feedback.

PERSONALIZED LEARNING SMARTBOOK[®]

Available within Connect, **SmartBook** 2.0[®] makes study time as productive and efficient as possible by identifying and closing knowledge gaps. SmartBook 2.0 identifies what an individual student knows and doesn't know based on the student's confidence level, responses to questions, and other factors. SmartBook 2.0 builds an optimal, personalized learning path for each student, so students spend less time on concepts they already understand and more time on those they don't. As a student engages with SmartBook 2.0, the reading experience continuously adapts by highlighting the most impactful content that person needs to learn at that moment. This ensures that every minute spent with SmartBook 2.0 is returned to the student as the most value-added minute possible. The result? More confidence, better grades, and greater success.

SmartBook 2.0 is now optimized for phones and tablets. Its interactive features are also accessible for students with disabilities Just like our new ebook and ReadAnywhere app, SmartBook 2.0 is available both online and offline.

Using Food Labels 1-

WELLNESS WORKSHEET

Informed Food Choices

Be sure to complete all portions of the lab. There are two parts, appearing on two separate screens. Once you con a particular part, you will be able to navigate to the next scr using the navigation map at the pottom of the activity

USING FOOD LABELS

Food Items Serving size

Choose three food items to evaluate. You might want to select three similar items, such salad dressing, or three very different items. Record the information from their food lab To receive an initial score of complete, fill out all fields in the table. Enter a zero (0) in a field if a food does not com rticular nutrient. Enter only whole numbers and decimals in the log. For exam ole, enter a half gram of dietary fi as 0.5. not 1/2

Physical Responses to Stressors

ProjSiCal ReSpONSeS to Stressors Imagine a close call: As you step off the curb, a car careens to-ward you. With just a fraction of a second to spare, you leap safely out of harm's way. In that split second of danger and in the moments following it, you experience a predictable series of physical reactions. Your body goes from a relaxed state to one prepared for physical action to cope with a threat to your life. Two systems in your body are responsible for your physi-cal response to stressors: the nervous system and the endo-crine system. Through rapid chemical reactions affecting almost every part of your body, you are primed to act quickly and appropriately in time of danger.

The Nervous System The nervous system consists of the brain, spinal cord, and nerves. Part of the nervous system is under voluntary control, as when you tell your arm to reach for a chocolate. The part that is *not* under conscious supervision—for example, the part that controls the diges-tion of the chocolate—is the autonomic nervous system. In addition to digestion, it controls your heart rate, breathing, blod pressure, and hundreds of other involuntary functions. The autonomic nervous system consists of two divisions:

- The parasympathetic division is in control when you are relaxed. It aids in digesting food, storing energy. digesting food, storing energy,
 - and promoting growth. The sympathetic division is activated when your body is stimulated, for example, by exercise, and when there is an emergency, such as severe pain, anger, or fear.

ion mercases to coor the sn The brain releases endorphins-chemicals that inhibit or block sensations of pain-in case injured.

As a group, these nearly instantaneous physic changes are called the fight-or-flight reaction, changes give you the heightened reflexes and stren

stress response The physical and emotional stress The general physical and emotion

nervous system The brain, spinal cord and autonomic nervous system The part of the system that controls certain basic body processes

parasympathetic division The part of the nervous system that moderates the excitatory

endocrine system

hormone A chemical messenger produce transported in the bloodstream to target cells specific regulation of their activities.

xvi PREFACE

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DIETARY ANALYSIS TOOL

NutritionCalc Plus is a suite of powerful dietary self-assessment tools that help students track their food intake and activity and analyze their diet and health goals. Students and instructors can trust the reliability of the ESHA database while interacting with a robust selection of reports. This tool is provided at no additional charge inside Connect Personal Health.

APPLICATION-BASED ACTIVITIES

New to this edition, Application-Based Activities help your students to assess their own health and behavior. Twelve new self-assessments and five new Portfolio Health Profiles include privacy controls to protect student data.

WRITING ASSIGNMENT

McGraw Hill's new Writing Assignment tool delivers a learning experience that improves students' written communication skills and conceptual understanding with every assignment. Assign, monitor, and provide feedback on writing more efficiently and grade assignments within McGraw Hill Connect[®]. Writing Assignment gives students an all-in-one place interface, so you can provide feedback more efficiently.

Features include:

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- Saved and reusable comments (text and audio)
- · Ability to link to resources in comments
- Rubric building and scoring
- · Ability to assign draft and final deadline milestones
- Tablet ready and tools for all learners

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CHAPTER-BY-CHAPTER CHANGES

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The seventeenth edition focuses current events, health trends, and content changes informed by the COVID-19 pandemic.

Chapter 1: Taking Charge of Your Health

- A new figure illustrating how lifestyle choices correlate to overall health.
- Expanded discussion of how healthy habits relate to quality of life and reduced risk of death.
- New Diversity Matters feature about health inequality and the COVID-19 pandemic.
- Updated data about the leading causes of death among college-age Americans.
- Updated data about the top 10 health issues affecting college students' academic performance.
- Hot-off-the-press Healthy People 2030 targets.

Chapter 2: Stress: The Constant Challenge

- Inclusion of the freeze response to describe physiological reactions to stress.
- Expanded discussion of the social stressors that impact girls and women more than men.
- Updated research about how social media can affect stress in young people.

Chapter 3: Psychological Health

- Updated language surrounding social anxiety disorder.
- New questions for reflection about digital technology, fear of missing out, and mental health.
- New discussion of the correlation between education about psychological symptoms and the number of college students who report seeking help for mental illness.

Chapter 4: Sleep

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- New discussion of circadian rhythm variation among individuals.
- Revised content about circadian rhythm disruptions and their impact.
- Revised discussion of how the homeostatic sleep drive and the circadian system work together to regulate sleep.
- Revised explanation about how sleep quality and duration change across the life span.

Chapter 5: Intimate Relationships and Communication

• Expanded discussion of gender roles, culture, and their effects on individuals.

- New content about nonsexual intimate relationships, including peer relationships.
- Expanded discussion of premarital sex, sex education, and the average age of Americans' first sexual experiences.
- New content about how to recognize unhealthy relationships and how these standards have changed over time.
- Revised discussion of how social media and digital tools affect relationships, including a discussion of online bullying, stalking, and violations of privacy.
- New discussion of cultural norms for finding and choosing romantic partners, including the role of online dating.
- Updated examination of marriage, cohabitation, and the factors that influence these trends, including an expanded discussion of trends surrounding the decision to remain single.
- Revised discussion of how spousal and parent roles have changed over time. This includes an updated exploration of single parenthood and blended families.

Chapter 6: Sex and Your Body

- Updated discussion of intersex conditions, how doctors assign genders, and how intersex individuals make key choices about their sex and gender.
- Expanded explanations of consent have been added throughout the chapter to highlight this important topic.

Chapter 7: Contraception

- Revised Wellness on Campus feature about contraception use and pregnancy among college students.
- New figure with updated data about contraceptive effectiveness.
- Updated content about how attitudes about gender differences can influence contraception choices, including discussing options with a partner, sharing the costs of contraception, and policies to support contraceptive health care.
- Revised Diversity Matters box about barriers to contraceptive use.

xviii PREFACE

Chapter 8: Abortion

- Updated discussion of the long-term mental health impact of having an abortion as opposed to being turned away.
- New figure illustrating access to abortion facilities in all 50 states.
- New coverage of policies that affect abortion in the United States, including refusal laws and state legislation that challenges *Roe v. Wade*.

Chapter 9: Pregnancy and Childbirth

- Discussion of fetal programming has been removed.
- Expanded discussion of first-trimester screening tests.

Chapter 10: Drug Use and Addiction

- Updated data on drug use among high school seniors, including vaping marijuana (newly added), smoking marijuana, and prescription painkillers. This includes new data about high school drug use and race/ethnicity.
- Revised content about gender differences in drug use, overdose deaths, and substance use disorder.
- Expanded discussion of how addiction works on a physiological level, including drug effects on neurotransmitters, receptors, and neurons.
- Revised discussion of the opioid epidemic, including updated data and the role of synthetic opioids.
- Revised discussion of use and abuse of stimulant ADHD medications.
- New content about the United Nations' findings about addiction as a public health issue. This includes the costs of treatment and drug-related incarceration and recommendations for addressing addiction.

Chapter 11: Alcohol: The Most Popular Drug

- Revised discussion of gender differences in alcohol use and alcohol's effects.
- Updated discussion of driving under the influence, including updated data and discussion questions.

Chapter 12: Tobacco Use

- Expanded discussion of e-cigarettes, including updated data, a new discussion of vaping THC and CBD products, and new recommendations from the Centers for Disease Control.
- New figure illustrating tobacco and e-cigarette use among high school and college students.
- Updated discussion of federal regulation of e-cigarettes and vaping products and devices.

Chapter 13: Nutrition Basics

• Updated material on the forthcoming 2020-2025 Dietary Guidelines for Americans.

- Revised discussion of the risks and regulation of trans fats.
- New practical advice for how students can afford to eat healthier on a budget.
- Expanded discussion of plant-based products and meat alternatives, including those that mimic meat.

Chapter 14: Exercise for Health and Fitness

- Revised explanation of the physical activity pyramid to enhance clarity.
- Updated material based on the recently released second edition of the U.S. Department of Health and Human Services's *Physical Activity Guidelines for Americans*.

Chapter 15: Weight Management

- New section explaining the various models to describe individual differences in weight and the underlying factors that determine a person's weight, including genetics, body composition, hormones, culture, behavior, and the microbiome.
- Revised Wellness on Campus feature providing practical ways to change behavior for healthy weight management.
- New discussion of intermittent fasting as a weight loss strategy.
- Expanded discussion of how to assess safe and effective weight loss programs.
- Updated explanation of avoidant restrictive food intake disorder (ARFID), a new DSM-5 diagnosis (previously referred to as "selective eating disorder.")

Chapter 16: Cardiovascular Health

- New Take Charge box about using online health tools for cardiovascular health.
- Simplified atherosclerosis figure and technical language throughout the chapter.

Chapter 17: Cancer

- New explanation of CAR-T cell immunotherapy.
- Current numbers of cancer cases and deaths for groups of different genders, ages, and ethnicities.

Chapter 18: Immunity and Infection

- Updated discussion of 2019 measles outbreak, including the role of reduced vaccination rates and the long-term effects of measles.
- New section on the COVID-19 pandemic, including the virus's symptoms, epidemiology, and similarity to other coronaviruses. It also includes sections on the response of the global public health sector.
- New section on the prevention of COVID-19 and similar viruses, and the reasons behind COVID-19's quick spread and difficult treatment. This includes specific behaviors students can take in public and at

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home to reduce their risk of infection and treat symptoms.

• Updated discussion of the risks of antibacterial soaps in generating drug-resistant bacteria.

Chapter 19: Sexually Transmitted Infections

- Extensive data updates about long-term trends in sexually transmitted infections.
- New Diversity Matters box about global disparities in cases of HIV/AIDS.
- Revised Wellness on Campus feature about the risks of a range of sexual behaviors, trends in STI contraction, and how to prevent infection.
- Updated discussions of treatment and diagnoses of HIV cases globally and in the United States.
- Revised feature about STI screening and prevention on college campuses, including strategies for protection.

Chapter 20: Environmental Health

• Updated discussion of the impact of climate change, including recent wildfires in California, Australia, and the Amazon rainforest.

Chapter 21: Conventional and Complementary Medicine

- New table showing common alternative mind-body therapies used in the United States.
- Updated statistics about the increased popularity of yoga and meditation in the United States.

Chapter 22: Personal Safety

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• Updated content about preventing distracted driving and the digital tools available to support safe driving.

• Updated explanation of harassment, including strategies for better understanding what type of behavior and communication is appropriate.

Chapter 23: Aging: An Ongoing Process

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- Revised discussion of data about gerontology and the study of aging.
- Revised content about the social effects of aging, including the impact of retirement, the death of a spouse, and divorce.
- Revised section about elderly people being vulnerable to crime.
- Reorganized and updated sections about hearing loss, arthritis, falls, sexual functioning, and cognitive changes.
- Revised discussion of the gender gap in life expectancy and differences in aging between men and women.
- Revised discussion of living and care options.

Chapter 24: Dying and Death

- Revised discussion of advance directives and specific tools for planning them.
- Updated discussion of organ donation, including how to register and what process is used for donating organs.
- Updated discussion of physician-assisted death, including legislation affecting death-with-dignity laws.

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YOUR COURSE, YOUR WAY

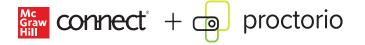
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McGraw Hill Education Create[®] is a self-service website that allows you to create customized course materials using McGraw Hill Education's comprehensive, cross-disciplinary content and digital products. You can even access third-party content such as readings, articles, cases, videos, and more.

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Remote Proctoring & Browser-Locking Capabilities



New remote proctoring and browser-locking capabilities, hosted by Proctorio within Connect, provide control of the assessment environment by enabling security options and verifying the identity of the student.

Seamlessly integrated within Connect, these services allow instructors to control students' assessment experience by restricting browser activity, recording students' activity, and verifying students are doing their own work.

Instant and detailed reporting gives instructors an at-a-glance view of potential academic integrity concerns, thereby avoiding personal bias and supporting evidence-based claims.

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McGraw Hill Education Campus[®] is a groundbreaking service that puts world-class digital learning resources just a click away for all faculty and students. All faculty—whether or not they use a McGraw Hill title—can instantly browse, search,

and access the entire library of McGraw Hill instructional resources and services, including eBooks, test banks, Power-Point slides, animations, and learning objects—from any Learning Management System (LMS), at no additional cost to an institution. Users also have single sign-on access to McGraw Hill digital platforms, including Connect, Create, and Tegrity, a fully automated lecture caption solution.

INSTRUCTOR RESOURCES

Core Concepts in Health offers an array of instructor resources for the personal health course:

Instructor's manual. The instructor's manual provides a wide variety of tools and resources for presenting the course, including learning objectives and ideas for lectures and discussions.

Test bank. By increasing the rigor of the test bank development process, McGraw Hill has raised the bar for student assessment. Each question has been tagged for level of difficulty, Bloom's taxonomy, and topic coverage. Organized by chapter, the questions are designed to test factual, conceptual, and higher-order thinking.

Test Builder. New to this edition and available within Connect, Test Builder is a cloud-based tool that enables instructors to format tests that can be printed and administered within a Learning Management System. Test Builder offers a modern, streamlined interface for easy content configuration that matches course needs, without requiring a download.

Test Builder enables instructors to:

- Access all test bank content from a particular title
- Easily pinpoint the most relevant content through robust filtering options
- Manipulate the order of questions or scramble questions and/or answers
- Pin questions to a specific location within a test
- Determine your preferred treatment of algorithmic questions
- Choose the layout and spacing
- Add instructions and configure default settings

PowerPoint. The PowerPoint presentations highlight the key points of the chapter and include supporting visuals. All slides are WCAG compliant.

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Taking Charge of Your Health

TEST YOUR KNOWLEDGE

- 1. Which of the following lifestyle factors influence wellness?
 - a. Managing your finances
 - b. Cultivating a support group
 - c. Exercising regularly
- 2. The terms health and wellness mean the same thing. True or False?
- 3. What is the leading cause of death for college-age students?
 - a. Alcohol misuse
 - b. Motor vehicle accidents
 - c. Cancer
- 4. A person's genetic makeup determines whether he or she will develop certain diseases (such as breast cancer), regardless of that person's health habits. True or False?

CHAPTER OBJECTIVES

- Define wellness as a health goal
- Explain two major efforts to promote national health
- Describe factors that influence wellness
- Explain methods for achieving wellness through lifestyle management
- List ways to promote lifelong wellness for yourself and your environment



1. ALL THREE. All of these practices affect your sense of well-being.

ANSWERS

- 2. FALSE. The term health refers to the overall condition of the body or mind and to the presence or absence of illness or injury. The term wellness refers to optimal health and vitality, encompassing the dimensions of well-being.
- 3. B. Motor vehicle accidents are the leading cause of death for people aged 15–24 years.
- 4. FALSE. In many cases, behavior can counter the effects of heredity or environment. For example, diabetes may run in families, but this disease is also associated with controllable factors, such as being overweight and inactive.

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hen was the last time you felt truly healthy? Not just free from illness, but energized, hungry, and flexible, like all your muscles just got a good stretching or workout? Many of us do not feel this way. We're overweight; we smoke; we eat a lot of sugar; we don't sleep well. We are surrounded by people who might be contagious, or we might be contagious.

The good news? There is always something we could be improving. This book can help you learn about the many aspects of life that work together to get you feeling on top of your game. Let's set some goals and make some changes!

WELLNESS AS A HEALTH GOAL

Generations of people have viewed good health simply as the absence of disease, and that view largely prevails today. The word **health** typically refers to the overall condition of a person's body or mind and to the presence or absence of illness or injury. **Wellness** expands this idea of good health to include living a rich, meaningful, and energetic life. Beyond the simple presence or absence of disease, wellness can refer to optimal health and vitality—to living life to its fullest. Although we use the words *health* and *wellness* interchangeably, they differ in two important ways:

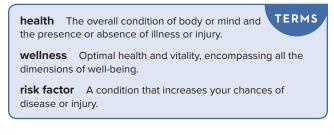
• *Health*—or some aspects of it—can be determined or influenced by factors beyond your control, such as your genes, age, and family history. Consider, for example, a 50-year-old man with a family history of early heart disease. This factor increases his risk of having a heart attack at an earlier age than might be expected.

• *Wellness* is determined largely by the decisions you make about how you live. That same 50-year-old man can reduce his risk of an early heart attack by eating sensibly, exercising, and having regular screening tests. Even if he develops heart disease, he may still live a long, rich, meaningful life. To achieve wellness he should choose not only to care for himself physically but also to maintain a positive outlook, enjoy his relationships with others, challenge himself intellectually, and nurture other aspects of his life.

Wellness, therefore, involves conscious decisions that affect **risk factors** that contribute to disease or injury. We cannot control risk factors such as age and family history, but we can control lifestyle behaviors.

Dimensions of Wellness

The process of achieving wellness is continual and dynamic, involving change and growth. The encouraging aspect of



² CHAPTER 1 TAKING CHARGE OF YOUR HEALTH

wellness is that you can actively pursue it. Here are nine dimensions of wellness:

Spiritual

Financial

• Environmental

Occupational

- Physical
- Emotional
- Intellectual
- Interpersonal
- Cultural

These dimensions are interrelated and may affect each other, as the following sections explain. Figure 1.1 lists specific qualities and behaviors associated with each dimension.

Physical Wellness Your physical wellness includes not just your body's overall condition and the absence of disease but also your fitness level and your ability to care for yourself. The higher your fitness level, the higher your level of physical wellness. Similarly, as you develop the ability to take care of your own physical needs, you ensure greater physical wellness. The decisions you make now, and the habits you develop over your lifetime, will determine the length and quality of your life.

Emotional Wellness Trust, self-confidence, optimism, satisfying relationships, and self-esteem are some of the qualities of emotional wellness. Emotional wellness is dynamic and involves the ups and downs of living. It fluctuates with your intellectual, physical, spiritual, cultural, and interpersonal health. Maintaining emotional wellness requires exploring thoughts and feelings. *Self-acceptance* is your personal satisfaction with yourself—it might exclude society's expectations—whereas *self-esteem* relates to the way you think others perceive you; *self-confidence* can be a part of both acceptance and esteem. Achieving emotional wellness means finding solutions to emotional problems, with professional help if necessary.

Intellectual Wellness Those who enjoy intellectual wellness constantly challenge their minds. An active mind is essential to wellness because it detects problems, finds solutions, and directs behavior. People with active minds often discover new things about themselves.

Interpersonal Wellness Satisfying and supportive relationships are important to physical and emotional wellness. Learning good communication skills, developing the capacity for intimacy, and cultivating a supportive network are all important to interpersonal (or social) wellness. Social wellness requires participating in and contributing to your community and to society.

Cultural Wellness Cultural wellness refers to the way you interact with others who are different from you in terms of ethnicity, religion, gender, sexual orientation, age, and customs. It involves creating relationships with others and suspending judgment of other's behavior until you have "walked in their shoes." It also includes accepting and valuing the different cultural ways people interact in the world. The extent to which you maintain and value cultural identities is one measure of cultural wellness.

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PHYSICAL WELLNESS	EMOTIONAL WELLNESS	INTELLECTUAL WELLNESS
 Eating well Exercising Avoiding harmful habits Practicing safer sex Recognizing symptoms of disease Getting regular checkups Avoiding injuries 	 Optimism Trust Self-esteem Self-acceptance Self-confidence Ability to understand and accept one's feelings Ability to share feelings with others 	 Openness to new ideas Capacity to question Ability to think critically Motivation to master new skills Sense of humor Creativity Curiosity Lifelong learning
INTERPERSONAL WELLNESS	CULTURAL WELLNESS	SPIRITUAL WELLNESS
 Communication skills Capacity for intimacy Ability to establish and maintain satisfying relationships Ability to cultivate a support system of friends and family 	 Creating relationships with those who are different from you Maintaining and valuing your own cultural identity Avoiding stereotyping based on race, ethnicity, gender, religion, or sexual orientation 	 Capacity for love Compassion Forgiveness Altruism Joy and fulfillment Caring for others Sense of meaning and purpose Sense of belonging to something greater than oneself
ENVIRONMENTAL WELLNESS	FINANCIAL WELLNESS	OCCUPATIONAL WELLNESS
 Having abundant, clean natural resources Maintaining sustainable development Recycling whenever possible Reducing pollution and waste 	 Having a basic understanding of how money works Living within one's means Avoiding debt, especially for unnecessary items Saving for the future and for emergencies 	 Enjoying what you do Feeling valued by your manager Building satisfying relationships with coworkers Taking advantage of opportunities to learn and be challenged

your personal wellness strengths and weaknesses.

Spiritual Wellness To enjoy spiritual wellness is to possess a set of guiding beliefs, principles, or values that give meaning and purpose to your life, especially in difficult times. The spiritually well person focuses on the positive aspects of life and finds spirituality to be an antidote for negative feelings such as cynicism, anger, and pessimism. Organized religions help many people develop spiritual health. Religion, however, is not the only source or form of spiritual wellness. Many people find meaning and purpose in their lives through their loved ones or on their own-through nature, art, meditation, or good works.

Environmental Wellness Your environmental wellness is defined by the livability of your surroundings. Personal health depends on the health of the planet-from the safety of the food supply to the degree of violence in society. To improve your environmental wellness, you can learn about and protect yourself against hazards in your surroundings and work to make your world a cleaner and safer place.

Financial Wellness Financial wellness refers to your ability to live within your means and manage your money in a way that gives you peace of mind. It includes balancing your income and expenses, staying out of debt, saving for the future, and understanding your emotions about money. See the "Financial Wellness" box.

Occupational Wellness Occupational wellness refers to the level of happiness and fulfillment you gain through your work. Although high salaries and prestigious titles are gratifying, they alone may not bring about occupational wellness. An occupationally well person enjoys his or her work, feels a connection with others in the workplace, and takes advantage of the opportunities to learn and be challenged. Another important aspect of occupational wellness is recognition from managers and colleagues. An ideal job draws on your interests and passions, as well as your vocational skills, and allows you to feel that you are making a contribution in your everyday work.

The Long and the Short of Life Expectancy

Can we control how long we will live, or is our life span determined by our genes? Studies suggest that our genes can determine up to 25% of the variability in life span. Some genes influence lifestyle factors, such as alcohol consumption and addiction. A new study found correlations among genes, behavior, and how long we might expect to live.

Researchers at the University of Edinburgh looked at the genomes of over 600,000 people in Europe, Australia, and North America and at their parents' life spans. They found that the strongest correlations between genes and mortality are susceptibility to coronary artery disease and modifiable behaviors such as cigarette smoking. Also correlated to a shorter life span are obesity, susceptibility to lung cancer, and insulin resistance. Greater longevity can happen for people who give up smoking, maintain their high-density lipoprotein cholesterol levels, attain more education, and cope well with stress.

WELLNESS AS A HEALTH GOAL 3

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