

CONTENTS

SECTION ONE: INTRODUCTION

1

HEALTH EDUCATION	3
Health Science as a Part of the College Curriculum ...	4
Understanding the Human Body, 4. Understanding Disease, 5. Understanding Marriage and Family Living, 5. Understanding Doctors and Medicines, 6.	

SECTION TWO: THE HUMAN BODY AT WORK AND REST

2

UNDERSTANDING THE HUMAN BODY	9
The Brain and the Central Nervous System	9
Respiration and Circulation.....	13
Stomach, Intestines and Colon.....	16
Liver and Gallbladder	17
Kidneys	18
Urinary Bladder	19
Spleen	20
Pancreas	20
Body Structure and Movement: The Skeletomuscular System	20

3

PHYSICAL FITNESS IN THE MODERN WORLD.....	25
College Physical Education	26
The Benefits of Exercise	27

Physical Fitness and Cardiovascular Health,
27. The Effects of Exercise on Weight Control, 33. The Effects of Exercise in the Relief of Nervous Tension, 36. The Effects of Exercise on Muscle Tone and Posture, 37. Effects of Physical Fitness on Scholastic Achievement, 38. Special Considerations in Exercise, 38.

CONTENTS

Physical Fitness after College.....	41
Future Planning	42

4

FATIGUE, SLEEP AND REST	44
-------------------------------	----

Fatigue	44
---------------	----

Causes of Fatigue, 44. Effects of Fatigue,
45. What to Do About Fatigue, 46. Pre-
vention of Chronic Fatigue Through Physical
Fitness, 46.

Sleep.....	47
------------	----

How Much Sleep Do We Need? 47. The
Soundness of Sleep, 48. Results of Insuf-
ficient Sleep, 48. Insomnia, 48. Dreams
and Movement During Sleep, 48. Sleep-
walking, 49. Snoring, 50. How to Ensure a
Good Night's Rest, 50.

SECTION THREE: UNDERSTANDING THE EMOTIONAL LIFE

5

THE HEALTHY MIND	55
------------------------	----

What is Normal?	56
-----------------------	----

Personality Structure of the Normal Person,
57. Normality Versus Perfection, 58.
How to Relieve Emotional Tensions, 60.

6

EMOTIONAL DISTURBANCES.....	63
-----------------------------	----

The Magnitude of the Mental Health Problem.....	63
---	----

Basic Emotional Needs	65
-----------------------------	----

The Neuroses	66
--------------------	----

The Development of Psychiatry.....	75
------------------------------------	----

7

SERIOUS EMOTIONAL ILLNESS AND MENTAL DEFICIENCY	78
--	----

The Psychopathic Personality.....	79
-----------------------------------	----

Sexual Criminality	79
--------------------------	----

Alcoholism and Drug Addiction.....	80
------------------------------------	----

CONTENTS

Sexual Deviations	80
Psychoses	82
Mental Defectives	94

SECTION FOUR: MARRIAGE

8

HEALTHY ATTITUDES TOWARD SEX	99
------------------------------------	----

Maturity and the Sexual Drive.....	101
Masturbation	102
Dreams and Nocturnal Emissions	102
Premarital Sexual Relations.....	103
Illegitimacy and Venereal Disease.....	105

9

MARRIAGE: EMOTIONAL ATTITUDES AND HEALTH PREPARATION	108
---	-----

Why Marry?	108
What Factors Contribute to a Successful Marriage? ...	109
The Courtship and Engagement Period	110
Love Versus Infatuation	111
What Is the Best Age to Marry?	112
Married Love	113
Health Preparation for Marriage	114
Heredity	114

SECTION FIVE: HUMAN REPRODUCTION

10

THE FEMALE REPRODUCTIVE SYSTEM	121
--------------------------------------	-----

The Organs of Reproduction.....	121
The Menstrual Cycle	125
Menstrual Abnormalities	127
Diseases of the Female Reproductive System	128
Feminine Hygiene	129
Female Climacteric.....	129

11

THE MALE REPRODUCTIVE SYSTEM	131
------------------------------------	-----

The Male Sex Organs	131
Problems of the Reproductive System	135

CONTENTS

Male Climacteric, 135.	Eunuchism and Castration, 135.	Sterility and Impotence, 135.	Diseases of the Reproductive System, 135.
12			
FAMILY PLANNING			137
The Rhythm Method (Safe Period and Temperature Method).....			138
The Calendar Method, 139.			The Temperature Method, 140.
The Intermenstrual (Mittelschmerz) Method, 141.			
Contraceptive Methods			141
For Women, 141.			For Men, 143.
13			
PREGNANCY AND CHILDBIRTH			146
Conception and the Course of Pregnancy	147		
Multiple Births.....	148		
Development of the Embryo	149		
Birth of the Child	156		
Natural Childbirth	158		
The Rooming-in System	158		
Cesarean Births	159		
Infant Mortality	159		
The Abortion Problem	160		
SECTION SIX: UNDERSTANDING DISEASE			
14			
THE NATURE OF DISEASE.....			165
Infectious Diseases: Transmission, Prevention and Cure			167
Microorganisms and Parasites, 167.			How Microorganisms Are Spread, 168.
How Infectious Agents Produce Disease, 170.			Body Defenses Against Infectious Disease, 170.
Therapeutic Agents for the Infectious Diseases, 174.			
15			
ENDOCRINE DISORDERS.....			177

CONTENTS

The Family of Endocrine Glands 178

The Pituitary Gland, 178. The Adrenal Glands, 179. The Islets of Langerhans in the Pancreas, 180. The Thyroid Gland, 181. The Parathyroid Glands, 183. The Sex Glands (Gonads), 183. Advances in Endocrinology, 183.

16

SOME COMMON "NUISANCE AILMENTS" 185

Headaches 185
The Common Cold 187
Allergies 189
Constipation 194
Varicose Veins 195

17

THE DISABLING DISEASES 197

Poliomyelitis (Infantile Paralysis) 197
Infectious Mononucleosis 201
Infectious Hepatitis 201
Influenza 202
Venereal Diseases 203
Epilepsy 209
Multiple Sclerosis 211
Cerebral Palsy 212
Blindness and Other Serious Visual Disorders 213
Deafness 215
Muscular Dystrophy and Myasthenia Gravis 217
Hernias 217
Arthritis, Gout, Backache and Bursitis 218
Disabling Bone Conditions 222
Anemia 223
Asthma, Ulcerative Colitis and Peptic Ulcer 224

18

THE DEADLY PAIR 228

Heart Disease and Other Cardiovascular Conditions .. 228

Symptoms of Heart Disease, 228. What Causes Heart Attacks? 230. Hypertension (High Blood Pressure), 234. Arteriosclerosis (Hardening of the Arteries), 235. The Diet and Heart Disease, 236. Smoking and Coronary Heart Disease, 237. Strokes, 237.

CONTENTS

Rheumatic Fever, 238. Bacterial Endocarditis, 239. Syphilis, 239. Congenital Heart Disease, 239. Kidney Diseases, 239.

Normal Versus Abnormal Growth: The Problem of Cancer 241

What Cancer Means, 241. Types of Cancer, 243. Is Cancer Contagious? 246. Causes of Cancer, 247. Smoking and Lung Cancer, 248. Heredity and Cancer, 248.

19

OTHER POTENTIAL KILLERS 253

Pneumonia 253
Suicide 254
Tuberculosis 255
Diabetes 259
Appendicitis 262
Accidents 264
Automobile Accidents 264
Accidents in the Home 270
The Principal Cause of Death in Childhood 271
"Do-It-Yourself" Accidents 271
Farm Accidents 272
Hazards in Industry 272
Drowning 272
Accident Proneness 272

SECTION SEVEN: EDUCATING THE CONSUMER FOR HEALTH

20

MEDICINES 277

Modern Medicines 279
Other Uses of the Newer Medicines 281
The Diseases of Medical Progress 283

21

MEDICAL AND SURGICAL CARE 288

How to Choose a Doctor 288
Medical Quackery 292
Medical Checkups 296
Health and X-ray Record 296
Modern Hospitals 297

CONTENTS

What Happens When You Go to a Hospital	300
What You Need to Know About Surgical Operations	304
The Costs of Medical Care and Insurance Plans.....	308
Private Versus Group Practice	311
22	
THE TOBACCO HABIT	315
Discovery of Tobacco	315
Nicotine in Tobacco	316
Noxious Gases	318
Who Smoke and What Do They Smoke?.....	319
The Effects of Tobacco	319
Why Do We Smoke?	324
What Can We Do About It?	325
23	
ALCOHOL AND ALCOHOLICS	328
Alcohol and Calories in Various Beverages.....	329
Physiologic Effects of Alcohol	329
Illnesses Caused by Excessive Drinking	331
Is Moderate Drinking Harmful?	331
Consumption of Alcoholic Beverages.....	332
The Magnitude of the Alcoholism Problem	332
Definition of Chronic Alcoholism	332
Alcohol and Accidents	333
Alcoholism and the Job	333
Life Expectancy and Drinking	334
Venereal Disease and Drinking	334
Sociological Aspects of Chronic Alcoholism	334
Why Do We Drink?	334
The Prevention and Treatment of Chronic Alcoholism	335
24	
NARCOTICS AND OTHER HABIT-FORMING DRUGS.....	339
What Is a Narcotic?	339
What Is Addiction?.....	340
The Spread of Drug Addiction.....	340
Why People Use Drugs	341
Who Are the Addicts?	341
Nature's Dangerous Gifts	342
Nonnarcotic Drugs Which Cause Addiction.....	345
The Control and Treatment of Drug Addiction	346

CONTENTS

(25)

FOODS AND BEVERAGES	351
---------------------------	-----

When To Eat	351
-------------------	-----

How About Breakfast? 352.

What To Eat.....	352
------------------	-----

Why You Need a Balanced Diet, 355. Calories, 355. Vitamins, 356. Other Dietary Requirements, 357. How Much Water Should We Drink? 357. Food Fads, 361. Food Fancies, 362. Food Allergies, 363. Food Poisoning, 363. Coffee, Tea and Cola Drinks, 364.

SECTION EIGHT: HEALTH AND APPEARANCE
IN DAILY LIFE

(26)

OVERWEIGHT AND UNDERWEIGHT	371
----------------------------------	-----

Weight and Health.....	371
------------------------	-----

Does This Mean You? 372. More Accurate Methods of Assessing Obesity, 372. Height and Weight Charts, 373. Food and Weight, 374. Why Do People Eat Too Much or Too Little? 375. Should One Take Drugs or Medicines to Reduce? 378. Can Exercise Reduce Weight? 378. Can Massage Reduce Weight? 379. Fad Diets, 379. Is It Safe to Reduce Without a Doctor's Supervision? 379. Suggestions for the Dieter, 379.

Underweight Is Not Desirable Either	381
---	-----

How to Tell if You Are Underweight, 381.
--

How to Gain Weight, 383

27

CARE AND BEAUTY OF THE SKIN AND HAIR	385
---	-----

The Skin	385
----------------	-----

Sunburn, 386. Cosmetics, 388. The Skin and the Emotions, 389. Allergies and Sensitivity, 389. Common Skin Troubles, 390. Never Neglect a Skin Disease, 393. Corns, Birthmarks and Warts, 393.

CONTENTS

The Nails.....	393
Hair and Scalp.....	393
Care of the Hair, 393. Dandruff, 394.	
Ringworm, 395. Shaving and Removal of	
Excess Hair, 395. Baldness, 396. Gray	
Hair, 397. Bleaching Hair, 397. Hair	
Dyes, 397. Permanent Waves, 397. Pony	
Tails, 398.	

28

THE TEETH, MOUTH AND GUMS 399

The Problem of Dental Caries	400
Importance of Diet in the Formation of Teeth.....	404
The Importance of Prompt and Regular Dental	
Care	404
Transplanting Teeth	405
Keeping Your Teeth Clean	405
Halitosis	407
Impacted Teeth	407
Malocclusion	407
Common Diseases of the Gums and Supporting	
Structures	407
Teeth As Foci for Infections	408

29

THE SENSES: THEIR IMPORTANCE IN DAILY LIVING 410

The Eyes and Vision.....	411
The Ears: Hearing and Equilibrium	418
The Nose and Throat—Smell and Taste	422
The Skin and Its Sensations	427
Internal Pain and Pressure	428
Referred Pain	428
Loss of Sensory Responses.....	429

SECTION NINE: SPECIAL CONSIDERATIONS

30

HANDLING EMERGENCIES THAT THREATEN LIFE 433

Bleeding and Hemorrhage.....	433
Asphyxia (Suffocation) and Cardiac Arrest	
(Heart Stop)	435
Poisoning	437
Shock	438
Other Emergencies That Threaten Life	438

CONTENTS

31

COMMUNITY HEALTH 442

Safeguards to Our Health	442
Official Health Agencies	444
Voluntary Health Agencies	456
Professional Societies.....	458
Medical Research	458
Overpopulation: A Health Menace	464
Occupational Health Problems.....	465
Atmospheric Pollution	468

32

RADIATION: BENEFITS AND HAZARDS 475

Radioactive Scanning	476
Genetic Damage, 478. Effect on Life Span, 480. Malignancies, 480. How to Reduce Hazards from Radiation, 481.	

EPILOGUE: PROMISES OF HEALTH FOR THE
FUTURE..... 483

FILM SOURCES..... 485

INDEX 487