UNIT I Introduction to Maternal-Child Health Nursing

1 Foundations of Maternity, Women's Health, and Child The Marmal Newborn: Adaptatio Health Nursing, 1

Historic Perspectives, 1

Current Trends in Child Healthcare, 5

Home Care, 7

Community Care, 7

Healthcare Assistance Programs, 8

Statistics on Maternal, Infant, and Child Health, 8 Ethical Perspectives on Maternity, Women's Health,

and Child Nursing, 10

Social Issues, 13

Legal Issues, 15

Current Trends and Their Legal and Ethical Implications, 19

2 The Nurse's Role in Maternity, Women's Health, and Pediatric Nursing, 23

The Role of the Professional Nurse, 23

Advanced Preparation for Maternity and Pediatric Nurses, 26

Implications of Changing Roles for Nurses, 26

The Nursing Process in Maternity and Pediatric

Complementary and Integrative Health, 31 Nursing Research and Evidence-Based

Practice, 32

3 The Childbearing and Child-Rearing Family, 34

Family-Centered Care, 34

Family Structure, 34

Factors That Interfere With Family Functioning, 36 Healthy versus Dysfunctional Families, 37

Cultural Influences on Maternity and Pediatric

Nursing, 38

Parenting, 42

Discipline, 43

Nursing Process and the Family, 45

Communicating With Children and Families, 48

Components of Effective Communication, 48

Family-Centered Communication, 51

Transcultural Communication: Bridging

the Gap, 53

Therapeutic Relationships: Developing and

Maintaining Trust, 53

Communicating With Children With Special Needs, 58

The Child With a Hearing Impairment, 59

5 Health Promotion for the Developing Child, 62

Overview of Growth and Development, 62

Principles of Growth and Development, 63

Theories of Language Development, 70

Assessment of Growth, 71

Assessment of Development, 71

Nurse's Role in Promoting Optimal Growth and

Development, 72

Health Promotion, 75

6 Health Promotion for the Infant, 83

Growth and Development of the Infant, 83 Health Promotion for the Infant and

Family, 89

7 Health Promotion During Early Childhood, 106

Growth and Development During Early Childhood, 106

Health Promotion During Early Childhood, 116

8 Health Promotion for the School-Age Child, 130

Growth and Development of the School-Age

Child, 130

Health Promotion for the School-Age Child and

Family, 136

9 Health Promotion for the Adolescent, 150

Adolescent Growth and Development, 150 Health Promotion for the Adolescent and

Family, 158

10 Hereditary and Environmental Influences on

Development, 170

Hereditary Influences, 170

Multifactorial Disorders, 176

Environmental Influences, 176

Genetic Counseling, 178

Nursing Care for Families Concerned About Birth

Defects, 179

UNIT II Maternity Nursing Care

11 Reproductive Anatomy and Physiology, 183

Sexual Development, 183

Female Reproductive Anatomy, 186

Female Reproductive Cycle, 190

The Female Breast, 192

Male Reproductive Anatomy and

Physiology, 192

12 Conception and Prenatal Development, 195

Gametogenesis, 195

Conception, 197

Pre-Embryonic Period, 198

Embryonic Period, 199

Fetal Period, 204

Auxiliary Structures, 206

Multifetal Pregnancy, 211

13 Adaptations to Pregnancy, 214

Physiologic Responses to Pregnancy, 214

Changes in Body Systems, 214

Confirmation of Pregnancy, 221

Antepartum Assessment and Care, 224

Psychological Responses to Pregnancy, 236 Maternal Responses, 236

Maternal Role Transition, 239

Paternal Adaptation, 240

Adaptation of Grandparents, 242

Adaptation of Siblings, 242

Factors That Influence Psychosocial

Adaptations, 242

Barriers to Prenatal Care, 243

Cultural Influences on Childbearing, 244 Perinatal Education, 249

14 Nutrition for Childbearing, 255

Weight Gain During Pregnancy, 255 Nutritional Requirements During

Pregnancy, 256

Food Precautions, 262

Factors That Influence Nutrition, 263

Nutritional Risk Factors, 264

Nutrition After Birth, 268

15 Prenatal Diagnostic Tests, 274

Indications for Prenatal Diagnostic Tests, 274

Ultrasound, 274

Doppler Ultrasound Blood Flow Assessment, 276

Color Doppler, 277

Alpha-Fetoprotein Screening, 277

Multiple-Marker Screening, 278

Chorionic Villus Sampling, 278

Amniocentesis, 279

Percutaneous Umbilical Blood Sampling, 280

Antepartum Fetal Surveillance, 281

Maternal Assessment of Fetal Movement, 285

16 Giving Birth, 288

Issues for New Nurses, 288

Physiologic Effects of the Birth Process, 288

Components of the Birth Process, 291

Normal Labor, 298

Nursing Care During Labor and Birth, 304

Nursing Care During the Late Intrapartum

Period, 321

17 Intrapartum Fetal Surveillance, 332

Fetal Oxygenation, 332

Auscultation and Palpation, 334

Evaluating Auscultated Fetal Heart Rate Data, 336

Electronic Fetal Monitoring, 336

Electronic Fetal Monitoring Equipment, 336

Evaluating Electronic Fetal Monitoring Strips, 339

Significance of FHR Patterns, 344

18 Pain Management for Childbirth, 354

Unique Nature of Pain During Birth, 354

Adverse Effects of Excessive Pain, 354

Variables in Childbirth Pain, 355

Standards for Pain Management, 356

Nonpharmacologic Pain Management, 356

Pharmacologic Pain Management, 360

19 Nursing Care During Obstetric Procedures, 376

Amniotomy, 376

Induction and Augmentation of Labor, 377

Version, 382

Operative Vaginal Birth, 384

Episiotomy, 386

Cesarean Birth, 387

20 Postpartum Adaptations, 395

Reproductive System, 395

Cardiovascular System, 397

Gastrointestinal System, 398

Urinary System, 398

Musculoskeletal System, 398

Integumentary System, 399

Neurologic System, 399

Endocrine System, 399

Postpartum Assessments, 400

Care in the Immediate Postpartum Period, 404

Nursing Care After Cesarean Birth, 405

The Process of Becoming Acquainted, 411

The Process of Maternal Role Adaptation, 413

The Process of Family Adaptation, 416

Cultural Influences on Adaptation, 418

Postpartum Home and Community
Care, 422

Community-Based Care, 422

21 The Normal Newborn: Adaptation and Assessment, 425

Initiation of Respiration, 425

Cardiovascular Adaptation: Transition From Fetal to

Neonatal Circulation, 426

Neurologic Adaptation: Thermoregulation, 427

Hematologic Adaptation, 430

Gastrointestinal System, 430

Hepatic System, 431

Urinary System, 433

Immune System, 434

Psychosocial Adaptation, 434

Early Assessments, 435

Assessment of Cardiorespiratory Status, 435

Assessment of Thermoregulation, 441

Assessing for Anomalies, 442

Assessment of Body Systems, 445

Assessment of Hepatic Function, 448

Assessment of Gestational Age, 454

Assessment of Behavior, 459

22 The Normal Newborn: Nursing Care, 462

Early Care, 462

Ongoing Assessments and Care, 467

Circumcision, 470

Immunization, 476

Newborn Screening, 476

Discharge and Newborn Follow-Up Care, 476

23 Newborn Feeding, 480

Nutritional Needs of the Newborn, 480

Breast Milk and Formula Composition, 480

Considerations in Choosing a Feeding

Method, 482

Normal Breastfeeding, 484

Common Breastfeeding Concerns, 489

Formula Feeding, 496

24 The Childbearing Family With Special Needs, 500

Adolescent Pregnancy, 500

Delayed Pregnancy, 505

Substance Abuse, 507

Birth of an Infant With Congenital Anomalies, 511

Perinatal Loss, 513

Adoption, 515

Intimate Partner Violence, 516

25 Pregnancy-Related Complications, 523

Hemorrhagic Conditions of Early Pregnancy, 523

Hemorrhagic Conditions of Late Pregnancy, 529

Hyperemesis Gravidarum, 534

Hypertension During Pregnancy, 535

HELLP Syndrome, 544

Chronic Hypertension, 544

Incompatibility Between Maternal and Fetal Blood, 545

26 Concurrent Disorders During Pregnancy, 549

Diabetes Mellitus, 549

Cardiac Disease, 557
Anemias, 561
Immune Complex Diseases, 562
Seizure Disorders: Epilepsy, 563
Infections During Pregnancy, 563

27 The Woman With an Intrapartum Complication, 573

Dysfunctional Labor, 573
Premature Rupture of the Membranes, 580
Preterm Labor, 581
Prolonged Pregnancy, 592
Intrapartum Emergencies, 592
Trauma, 596

28 The Woman With a Postpartum Complication, 599

Postpartum Hemorrhage, 599
Hypovolemic Shock, 603
Subinvolution of the Uterus, 605
Thromboembolic Disorders, 606
Pulmonary Embolism, 608
Puerperal Infection, 609
Affective Disorders, 613

29 The High-Risk Newborn: Problems Related to Gestational Age and Development, 619

Care of High-Risk Newborns, 619
Late Preterm Infants, 619
Preterm Infants, 620
Common Complications of Preterm Infants, 634
Postterm Infants, 636
Small-for-Gestational-Age Infants, 637
Large-for-Gestational-Age Infants, 638

30 The High-Risk Newborn: Acquired and Congenital Conditions, 641

Respiratory Complications, 641
Hyperbilirubinemia, 645
Infection, 648
Infant of a Diabetic Mother, 652
Polycythemia, 653
Hypocalcemia, 653
Prenatal Drug Exposure, 653
Phenylketonuria, 655

31 Management of Fertility and Infertility, 659

Role of the Nurse, 659
Considerations When Choosing a Contraceptive
Method, 660
Informed Consent, 663
Adolescents, 663
Perimenopausal Women, 664
Methods of Contraception, 665
Role of the Nurse in Infertility Care, 675

Contraception, 659

32 Women's Healthcare, 688

Women's Health Initiative, 688

Healthy People 2020, 688

Health Maintenance, 689

Breast Disorders, 693

Cardiovascular Disease, 697

Menstrual Cycle Disorders, 699

Elective Termination of Pregnancy, 704

Menopause, 705

Pelvic Floor Dysfunction, 707

Disorders of the Reproductive Tract, 709

Infectious Disorders of the Reproductive

Tract, 711

UNIT III Pediatric Nursing Care

33 Physical Assessment of Children, 718
General Approaches to Physical Assessment, 718
Techniques for Physical Examination, 719
Sequence of Physical Examination, 720
Conclusion and Documentation, 746

34 Emergency Care of the Child, 752

Growth and Development Issues in Emergency
Care, 755
The Family of a Child in Emergency Care, 756
Emergency Assessment of Infants and Children, 757
Cardiopulmonary Resuscitation of the Child, 760
The Child in Shock, 763

Pediatric Trauma, 766
Ingestions and Poisonings, 770
Environmental Emergencies, 774
Heat-Related Illnesses, 778
Dental Emergencies, 779

35 The III Child in the Hospital and Other Care Settings, 782

Settings of Care, 782
Stressors Associated With Illness and
Hospitalization, 785

Factors Affecting a Child's Response to Illness and Hospitalization, 789 Play for the Ill Child, 792 Admitting the Child to a Hospital Setting, 793

The Ill Child's Family, 797

36 The Child With a Chronic Condition or Terminal Illness, 801

Chronic Illness Defined, 801
The Family of the Child With Special Healthcare
Needs, 801
The Child With Special Healthcare Needs, 804
The Child With a Chronic Illness, 804
The Terminally Ill or Dying Child, 809

37 Principles and Procedures for Nursing Care of Children, 821

Preparing Children for Procedures, 821 Holding and Transporting Infants and Children, 823 Safety Issues in the Hospital Setting, 824 Infection Control, 825 Bathing Infants and Children, 825 Oral Hygiene, 826 Feeding, 827 Vital Signs, 828 Fever-Reducing Measures, 831 Specimen Collection, 831 Gastrointestinal Tubes and Enteral Feedings, 838 Enemas, 840 Ostomies, 842 Oxygen Therapy, 842 Assessing Oxygenation, 843 Tracheostomy Care, 844

38 Medication Administration and Safety for Infants and Children, 850

Surgical Procedures, 845

Pharmacokinetics in Children, 850
Psychological and Developmental Factors, 853
Calculating Dosages, 854
Medication Administration Procedures, 854
Intravenous Therapy, 862

Administration of Blood Products, 866 Child and Family Education, 866

39 Pain Management for Children, 869

Definitions and Theories of Pain, 869

Obstacles to Pain Management in Children, 870

Assessment of Pain in Children, 871

Non-Pharmacologic and Pharmacologic Pain Interventions, 875

40 The Child With a Fluid and Electrolyte Alteration, 887

Dehydration, 892

Diarrhea, 897 Vomiting, 900

41 The Child With an Infectious Disease, 903

Viral Exanthems, 905 Other Viral Infections, 915 Bacterial Infections, 918 Fungal Infections, 922 Rickettsial Infections, 922 Borrelia Infections, 923

Helminths, 925

Sexually Transmitted Diseases, 926

42 The Child With an Immunologic Alteration, 932

Human Immunodeficiency Virus Infection, 938 Corticosteroid Therapy, 946 Immune Complex and Autoimmune Disorders, 948 Systemic Lupus Erythematosus, 949

Allergic Reactions, 950

Anaphylaxis, 951

43 The Child With a Gastrointestinal Alteration, 955

Disorders of Prenatal Development, 960 Motility Disorders, 970 Inflammatory and Infectious Disorders, 974 Obstructive Disorders, 983

Malabsorption Disorders, 990

Hepatic Disorders, 994

44 The Child With a Genitourinary Alteration, 1003

Enuresis, 1007

Urinary Tract Infections, 1008

Cryptorchidism, 1012

Hypospadias and Epispadias, 1013

Miscellaneous Disorders and Anomalies of the

Genitourinary Tract, 1015

Acute Poststreptococcal Glomerulonephritis, 1015

Nephrotic Syndrome, 1018

Acute Kidney Injury, 1020

Chronic Kidney Disease (CKD) and End-Stage Renal Disease, 1024

45 The Child With a Respiratory Alteration, 1028

Respiratory Illness in Children, 1033

Allergic Rhinitis, 1033

Sinusitis, 1035

Otitis Media, 1035

Pharyngitis and Tonsillitis, 1039

Laryngomalacia (Congenital Laryngeal Stridor), 1041

Croup, 1042

Epiglottitis (Supraglottitis), 1045

Bronchitis, 1047

Bronchiolitis, 1047

Pneumonia, 1050

Foreign Body Aspiration, 1052

Pulmonary Noninfectious Irritation, 1052

Apnea, 1054

Sudden Infant Death Syndrome, 1055

Asthma, 1057

Bronchopulmonary Dysplasia, 1062

Cystic Fibrosis, 1066

Tuberculosis, 1072

46 The Child With a Cardiovascular Alteration, 1077

Congenital Heart Disease, 1081

Physiologic Consequences of CHD in Children, 1081

Assessment of the Child With a Cardiovascular

Alteration, 1089

Cardiovascular Diagnosis, 1091

The Child Undergoing Cardiac Surgery, 1092

Acquired Heart Disease, 1104

Dysrhythmias, 1106

Rheumatic Fever, 1108

Kawasaki Disease, 1111

Hypertension, 1112

Cardiomyopathies, 1114

High Cholesterol Levels in Children and

Adolescents, 1115

47 The Child With a Hematologic Alteration, 1118

Iron Deficiency Anemia, 1120

Sickle Cell Disease, 1120

Thalassemia, 1128

Hemophilia, 1129

Von Willebrand Disease, 1132

Immune Thrombocytopenic Purpura, 1134

Disseminated Intravascular Coagulation, 1135

Aplastic Anemia, 1136

48 The Child With Cancer, 1140

The Child With Cancer, 1143

Leukemia, 1148

Brain Tumors, 1155

Malignant Lymphomas, 1158

Neuroblastoma, 1161

Osteosarcoma, 1162 Ewing Sarcoma, 1164

Rhabdomyosarcoma, 1164

Wilms Tumor, 1165

Retinoblastoma, 1166 Rare Tumors of Childhood, 1167

49 The Child With an Alteration in Tissue Integrity, 1170

Variations in the Skin of Newborn Infants, 1172

Common Birthmarks, 1172

Skin Inflammation, 1172

Skin Infections, 1178

Skin Infestations, 1185

Acne Vulgaris, 1188

Miscellaneous Skin Disorders, 1190

Insect Bites or Stings, 1190

Burn Injuries, 1194

Conditions Associated With Major Burn

Injuries, 1202

Conditions Associated With Electrical

Injury, 1202

50 The Child With a Musculoskeletal Alteration, 1206

Casts, Traction, and Other Immobilizing

Devices, 1210

Fractures, 1214

Soft-Tissue Injuries: Sprains, Strains, and

Contusions, 1219

Osteomyelitis, 1220

Scoliosis, 1222
Kyphosis, 1225
Limb Differences, 1225
Developmental Dysplasia of the Hip, 1227
Legg—Calvé—Perthes Disease, 1232
Slipped Capital Femoral Epiphysis, 1233
Clubfoot, 1233
Muscular Dystrophies, 1235
Juvenile Idiopathic Arthritis, 1236
Syndromes and Conditions With Associated
Orthopedic Anomalies, 1239

51 The Child With an Endocrine or Metabolic Alteration, 1243

Phenylalanine Hydroxylase Deficiency (Formally Phenylketonuria), 1246 Inborn Errors of Metabolism, 1247 Congenital Adrenal Hyperplasia, 1248 Congenital Hypothyroidism, 1249 Acquired Hypothyroidism, 1251 Hyperthyroidism (Graves' Disease), 1252 Diabetes Insipidus, 1253 Syndrome of Inappropriate Antidiuretic Hormone, 1254 Precocious Puberty, 1256 **Growth Hormone Deficiency, 1257** Diabetes Mellitus, 1260 Diabetic Ketoacidosis, 1268 Long-Term Healthcare Needs for the Child With Type 1 Diabetes Mellitus, 1270 Type 2 Diabetes Mellitus, 1270

52 The Child With a Neurologic Alteration, 1275

Increased Intracranial Pressure, 1279 Spina Bifida, 1283 Hydrocephalus, 1286 Cerebral Palsy, 1287 Head Injury, 1289 Spinal Cord Injury, 1293 Seizure Disorders, 1295
Status Epilepticus, 1297
Meningitis, 1301
Guillain-Barré Syndrome, 1304
Neurologic Conditions Requiring Critical Care, 1305
Headaches, 1307
53 Psychosocial Problems in Children and Families, 1311

Internalizing Disorders, 1313
Suicide, 1318
Externalizing Disorders, 1320
Eating Disorders: Anorexia, Bulimia, and

Obesity, 1322 Substance Abuse, 1325

Childhood Physical and Emotional Abuse and Child Neglect, 1327

54 The Child With an Intellectual Disability or Developmental Disability, 1335

Intellectual and Developmental Disorders, 1337
Disorders Resulting in Intellectual or Developmental
Disability, 1341
Down Syndrome, 1342
Fragile X Syndrome, 1346
Rett Syndrome, 1348
Fetal Alcohol Spectrum Disorder (FASD), 1348
Failure to Thrive, 1349

Autism Spectrum Disorders, 1350 55 The Child With a Sensory Alteration, 1355

Disorders of the Eye, 1357 Eye Surgery, 1361 Eye Infections, 1363 Eye Trauma, 1364 Hearing Loss in Children, 1365 Language Disorders, 1367

Appendix A NANDA-I Diagnoses and Definitions, 1370 Glossary, 1372 Index, 1384