



Contents

SECTION ONE

REPRODUCTION: FETAL AND PLACENTAL DEVELOPMENT

1 Reproductive Anatomy, Physiology, and the Menstrual Cycle, 1

DENISE G. LINK

2 Genetics, 19

LINDA CALLAHAN

3 Fetal and Placental Development and Functioning, 37

LINDA CALLAHAN

SECTION TWO

NORMAL PREGNANCY

4 Perinatal Cultural Diversity, 63

SUSAN MATTSON

5 Physiology of Pregnancy, 83

KATHRYN RECORDS AND LANETTE TANAKA

6 Psychology of Pregnancy, 108

DENISE G. LINK

SECTION THREE

MATERNAL-FETAL WELL-BEING

7 Age-Related Concerns, 123

CONNIE von KÖHLER

8 Antepartum Fetal Surveillance and Prenatal Diagnosis, 135

REBECCA L. CYPHER

9 Environmental Hazards, 159

BEVERLY BOWERS

SECTION FOUR

INTRAPARTUM PERIOD

10 Essential Forces and Factors in Labor, 192

MARCIA A. JASPER

11 Normal Childbirth, 230

SHERRY STOTT

12 Intrapartum Fetal Assessment, 255

REBECCA L. CYPHER

SECTION FIVE

POSTPARTUM PERIOD

13 Physical and Psychologic Changes after Childbirth, 297

TAMARA WHITMER

14 Breastfeeding, 314

SUSAN SAFFER ORR

15 Contraception, 336

PAMELA E. XANDRE

SECTION SIX

THE NEWBORN

16 Transitional Care of the Newborn, 345

NATALIE D. CHEFFER AND DEBRA ANN RANNALLI

17 The Infant at Risk, 363

WHITNEY HARDY, AMY D'AGATA, AND JACQUELINE M. McGRATH

SECTION SEVEN

COMPLICATIONS OF CHILDBEARING

18 Intimate Partner Violence, 417

KATHRYN RECORDS

19 Hypertensive Disorders in Pregnancy, 435

DUSTINE DIX

20 Maternal Infections, 452

MEGAN E. MOONEY

21 Hemorrhagic Disorders, 480

S. KIM GENOVESE

22 Endocrine and Metabolic Disorders, 501

LUCY R. VAN OTTERLOO

23 Management of Non-Obstetrical Surgery and Trauma in Pregnancy, 533

LINDA CALLAHAN

24 Substance Abuse in Pregnancy, 564

CANDICE J. SULLIVAN

25 Other Medical Complications, 580

MARGARET YANCY

26 Labor and Delivery at Risk, 617

SHERYL PARFITT

27 Postpartum Complications, 645

MARY ANN RHODE

SECTION EIGHT

ETHICS AND ISSUES

28 Ethics, 662

CHARLOTTE STEPHENSON

DENISE G. LINK

OBJECTIVES

1. Identify and locate the female organs of reproduction.
2. Describe the physiologic functioning of the female reproductive system.
3. Identify the parameters of sexual maturation and menstruation, including cycle interval, duration of menstrual flow, and perimenopause.
4. Describe the physiologic changes in the ovaries, uterus, and cervix that occur during the menstrual cycle.
5. Explain the physiologic pathways of the hypothalamus, pituitary, ovarian axis and their relationship to the normal menstrual cycle.
6. Describe variations in anatomy that affect reproduction.
7. Describe variations in physiology that affect reproduction.
8. Identify the common variations in the menstrual cycle.
9. Analyze the data from a reproductive history and physical examination to determine overt and covert pathology and physiologic factors that could affect pregnancy.
10. Prepare a set of interventions for teaching pertinent concepts of anatomy and physiology to clients.

INTRODUCTION

Female Organs of Reproduction

A. External genitalia: Vulva (Figure 1-1)

1. Mons pubis (or mons veneris)
 - a. A rounded pad of subcutaneous fatty tissue over the symphysis pubis, covered with pubic hair.
 - b. Function is the protection of the symphysis pubis during intercourse.
2. Labia majora
 - a. Two rounded folds of fatty and connective tissues, covered with pubic hair, that extend from the mons pubis to the perineum.
 - b. Function is the protection of the vaginal orifices.
3. Labia minora
 - a. Narrow folds of hairless skin located within the labia majora, begin below the clitoris and extend to the fourchette.
 - b. Highly vascular and rich in nerve supply; glands lubricate the vulva.
 - c. Function is erotic; swell in response to stimulation and are highly sensitive.
4. Prepuce of clitoris is a hoodlike covering over the clitoris.
5. Clitoris
 - a. An erectile organ located beneath the pubic arch that consists of shaft and glans.
 - b. Secretes smegma, a pheromone (olfactory erotic stimulant).
 - c. Extremely sensitive to touch, pressure, and temperature.
 - d. Function is sexual stimulation.