

Chapter 41

Genitourinary and Reproductive System Function and Assessment

Learning Outcomes

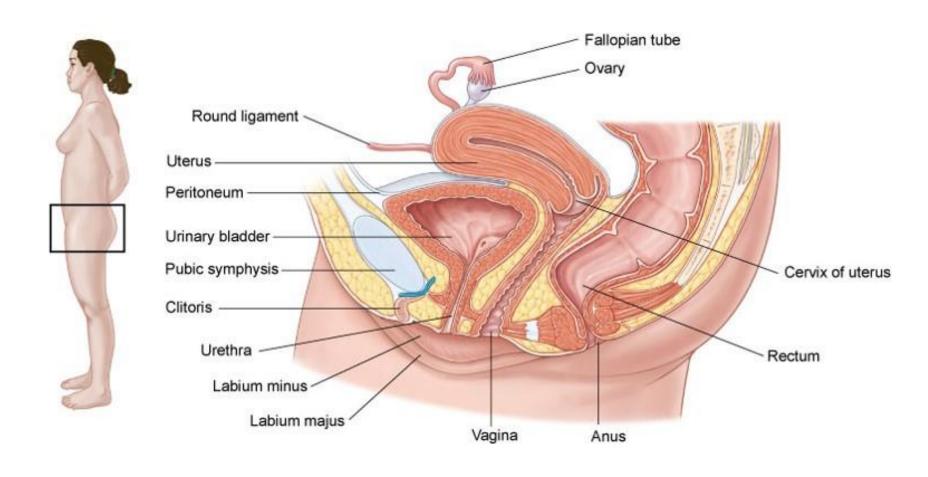
- Explain the normal structures and functions of the reproductive system.
- Identify the effects of aging on the reproductive system.
- List data you should collect when caring for a patient with a disorder of the reproductive system.



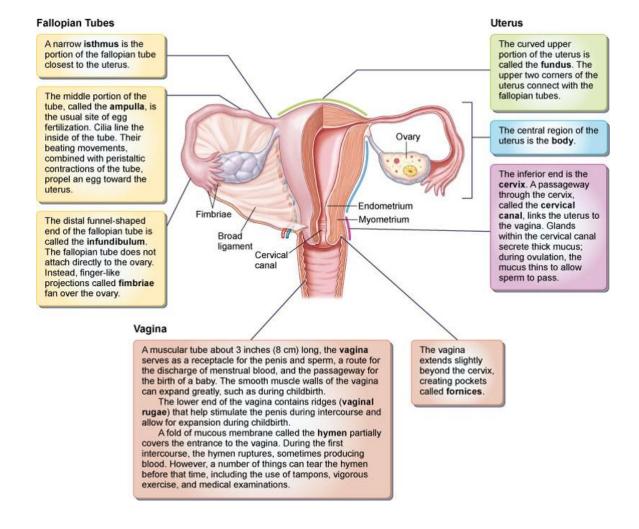
Learning Outcomes (continued)

- Identify commonly performed tests used to diagnose disorders of the reproductive system.
- Plan nursing care for patients undergoing each of the diagnostic tests.

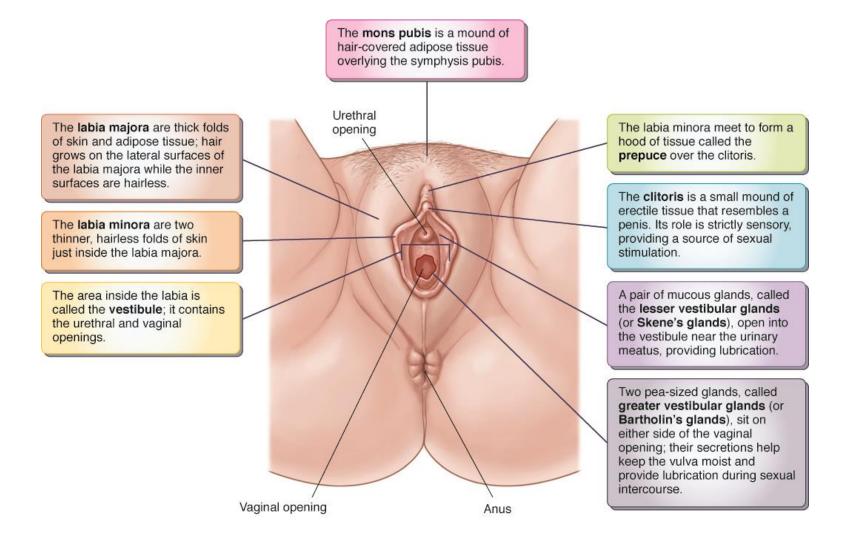
Review of Normal Anatomy & Physiology



Review of Normal Anatomy & Physiology (continued_1)



Review of Normal Anatomy & Physiology (continued_2)



Review of Normal Anatomy & Physiology (continued_3)

Each breast contains 15 to 20 **lobules** separated by fibrous tissue and adipose tissue.

Each lobule consists of clusters of tiny, sac-like acini that secrete milk during lactation. Minute ducts drain the acini, merging to form larger ducts as they travel toward the nipple.

The ducts unite to form a single lactiferous duct for each lobe. Before reaching the nipple, the ducts enlarge slightly to form lactiferous sinuses.

Each duct ends in a tiny opening on the surface of the nipple.

Pectoralis major muscle Pectoralis minor muscle Adipose tissue

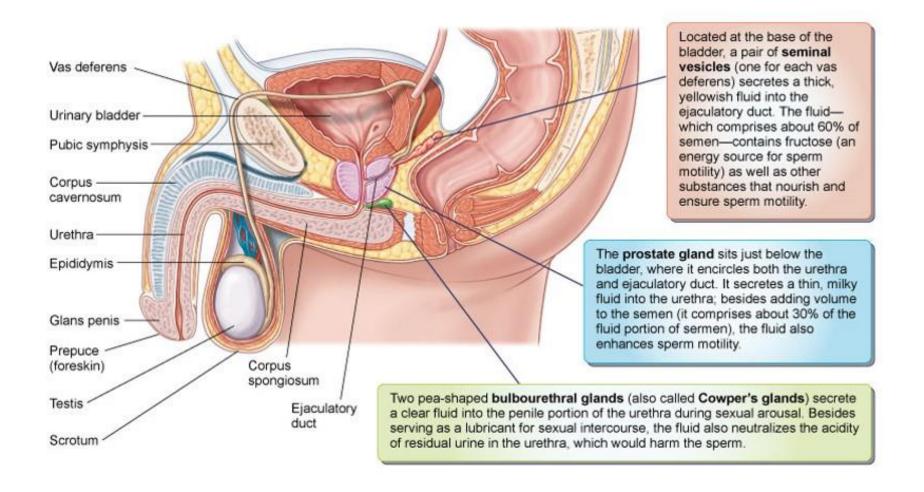
A pigmented area called the areola encircles the nipple.

Numerous sebaceous glands (that look like small bumps) dot the surface. Sebum from these glands lubricates the areola, helping prevent dryness and cracking during nursing.

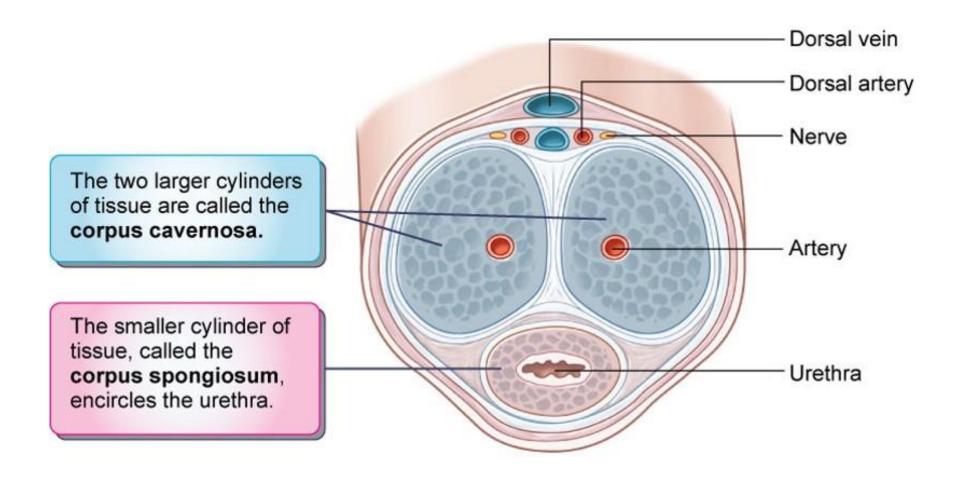
Suspensory ligaments help support the breasts and also serve to attach the breasts to the underlying pectoralis muscles.



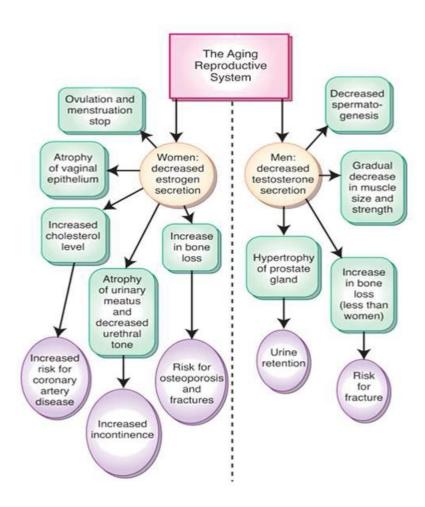
Review of Normal Anatomy & Physiology (continued_4)



Review of Normal Anatomy & Physiology (continued_5)



Effects of Aging



Subjective Female Assessment

- Personal
- Abuse
- Menstrual
- Obstetrical
- Gynecological

- Sexual
- Family
- Psychosocial
- Medications
- Treatments



Obstetrical History

- Gravida = number of pregnancies
- Para = number of births
- Abortions



Objective Female Assessment

- Genitalia
- Vagina
- Uterus/cervix
- Perineum
- Anus
- Inguinal nodes

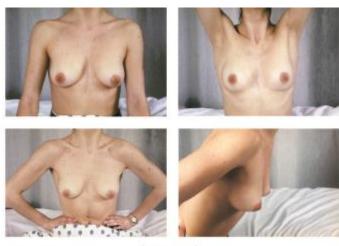


Breast Assessment

- Clinical breast examination
- Breast self-examination (B S E)
- Ultrasound and mammography
- Thermography, tomography, magnetic resonance imaging (M R I)
- Biopsy



Breast Self-Examination



Inspection







BREAST SELF-EXAMINATION Palpation



Mammography



American Cancer Society Recommendations (2017)

- Screening mammogram
 - Age 40 to 44 optional for annual screenings
 - Age 45 to 54 annually
 - Age 55 and older may switch to every other year or continue annually
- Optional B S E; women should be familiar with how their breasts look and feel.
- M R I and mammogram every year for women at high risk of breast cancer.



Bone Health Assessment

- Age
- Menopause
- Diet
 - Calcium
 - Vitamin D

- Bone density
 - Dual energy x-ray absorptiometry (D E X A) scan
 - Quantitative computed tomography (Q C T) scan
 - Peripheral testing



Additional Tests for Females

- Hormone levels
- Swabs and smears
- Biopsy, cytology
- Radiography
- Sonography
- Thermography
- Computed tomography (C T) scan

- M R I
- Endoscopy
 - Salpingoscopy
 - Hysteroscopy
 - Colposcopy
 - Culdoscopy

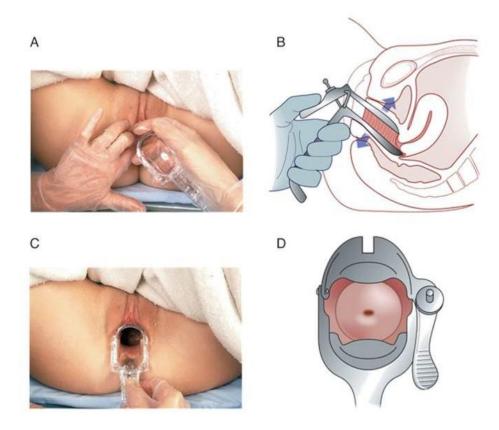


Pelvic Examination/Pap Smear

- Prepare supplies.
- Explain procedure.
- Have patient empty bladder.
- Assist with positioning.

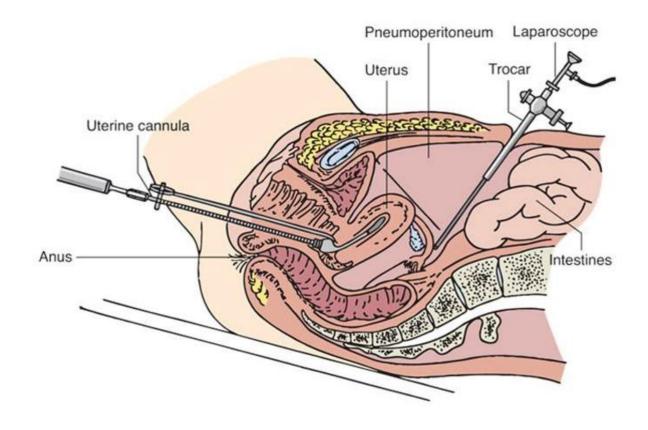


Pelvic Examination/Pap Smear (continued)



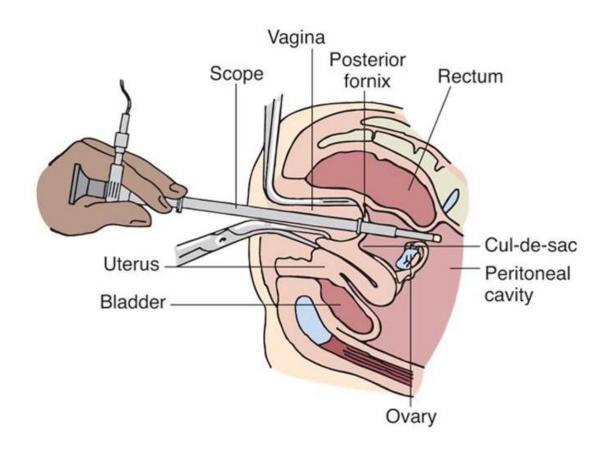


Laparoscopy





Culdoscopy



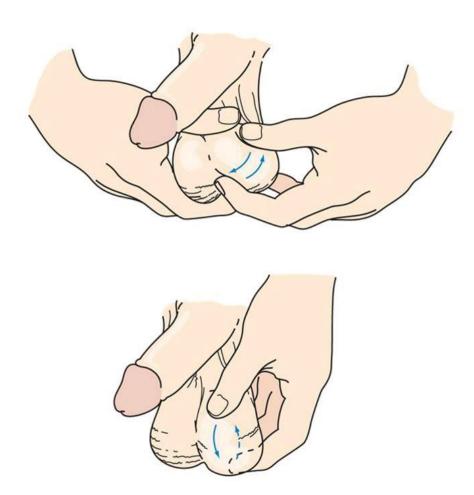
Subjective Male Assessment

- History
 - Medication use
 - Family history
 - Personal habits
 - Health promotion
 - Mental health
- Circulatory
- Respiratory

- Gastrointestinal
- Musculoskeletal
- Neurological
- Metabolic/endocrine
- Genitourinary
- Sexual practices



Testicular Self-Examination



Physical Examination

- Clinical breast examination
- Penis glans and shaft
- Scrotum
- Testes
- Spermatic cord
- Inguinal ring and lymph nodes
- Digital rectal examination



Diagnostic Tests

- Ultrasound
- Cystourethrography
- Laboratory tests
 - Prostate-specific antigen (P S A)
 - Prostatic acid phosphatase (P A P)
 - Fertility tests
 - Hormone levels



Review Question

How would the nurse document the reproductive history of a woman who has had three pregnancies, one set of twins, and two abortions?

- 1. P3B2A2
- 2. G3P2A2
- 3. G3P1A2
- 4. P3G1AB2



Review Question Answer

Correct Answer: 3



Review Question (continued_1)

According to the American Cancer Society, which women should have a mammogram?

- 1. Only women at high risk for breast cancer
- 2. All women starting at age 20
- 3. Women age 45 to 54 annually
- 4. Women age 30 and older every 3 years



Review Question Answer (continued_1)

Correct Answer: 3



Review Question (continued_2)

Which men should do testicular self-examination?

- 1. All men after puberty
- 2. All men after age 21
- 3. Only men at high risk for cancer
- 4. Only men with a history of cancer



Review Question Answer (continued_2)

Correct Answer: 1



Review Question (continued_3)

What disorders are evaluated with digital rectal examination?

- 1. Prostate disorders
- 2. Penile disorders
- 3. Colon disorders
- 4. Testicular disorders

Review Question Answer (continued_3)

Correct Answer: 1



Review Question (continued_4)

A postmenopausal woman asks if she should take calcium and vitamin D supplements. After advising her to talk with her health care provider, what is the best response by the nurse?

- 1. "No, you should get calcium and vitamin D from foods."
- 2. "Yes, you should get 1,200 milligram of calcium and 600 I U of vitamin D supplements daily."
- 3. "You should get your vitamin D from food, but should consider a calcium supplement."
- 4. "You should reduce your intake of calcium and vitamin D as you age."



Review Question Answer (continued_4)

Correct Answer: 1

