PRACTICE EXAMS

SEXUAL & REPRODUCTIVE MODEL ANSWERS INCLUIDED

TAILORED FOR MEDICAL STUDENTS, USMLE, NEET PG, PA & NURSING

MCQ & SAQ QUESTIONS





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MCQ Quiz: ANATOMY OF THE MALE UROGENITAL SYSTEM

- 1. Which part of the male urogenital system is responsible for the production of sperm cells?
 - a) Seminal Vesicles
 - b) Prostate gland
 - c) Testes
 - d) Bulbourethral gland
- 2. The epididymis is primarily responsible for:
 - a) Urine transport
 - b) Sperm maturation
 - c) Sperm production
 - d) Testosterone production
- 3. The urethra in males performs what function(s)?
 - a) Transport of sperm only
 - b) Transport of urine only
 - c) Transport of both sperm and urine
 - d) Secretion of testosterone
- 4. The vas deferens is:
 - a) Where sperm are produced
 - b) Where sperm mature and are stored
 - c) The tube that transports sperm from the testes
 - d) The gland that secretes a fluid component of semen
- 5. The prostate gland is responsible for:
 - a) Producing sperm
 - b) Producing a fluid that nourishes and transports sperm
 - c) Producing testosterone
 - d) Maturing sperm
- 6. Seminal vesicles contribute to the semen by:
 - a) Producing sperm
 - b) Producing a sugary fluid that provides energy for sperm
 - c) Maturing sperm
 - d) Producing testosterone
- 7. The bulbourethral glands (or Cowper's glands) contribute to semen by:
 - a) Producing sperm
 - b) Maturing sperm
 - c) Producing a fluid that helps to neutralize acidity in the urethra
 - d) Producing testosterone



- 8. What structure in the male urogenital system is responsible for producing testosterone?
 - a) The seminal vesicles
 - b) The prostate gland
 - c) The testes
 - d) The bulbourethral glands
- 9. The corpus spongiosum is:
 - a) A part of the testes
 - b) A chamber in the penis that becomes engorged with blood during an erection
 - c) A tube that carries sperm from the testes
 - d) A gland that secretes a component of semen
- 10. The portion of the penis that contains the external opening of the urethra is the:
 - a) Glans
 - b) Shaft
 - c) Prepuce
 - d) Corpus cavernosum

11. Which is the correct pathway of sperm during ejaculation?

a) Epididymis -> Vas Deferens -> Urethra b) Vas Deferens -> Urethra -> Epididymis c) Testes -> Urethra -> Vas Deferens d) Testes -> Vas Deferens -> Urethra

- 12. The testes are held outside the main body cavity for what reason?
 - a) To regulate temperature for optimal sperm production
 - b) For ease of movement during physical activity
 - c) For protection against trauma
 - d) To aid in sexual intercourse



Answer Key:

- 1. c)
- 2. b)
- 3. c)
- 4. c)
- 5. b)
- 6. b)
- 7. c)
- 8. c)
- 9. b)
- 10. a)
- 11. a)

12. a)



SAQ: ANATOMY OF THE MALE UROGENITAL SYSTEM

- 1. What is the role of the testes in the male urogenital system?
- 2. How does the structure of the epididymis contribute to its function?
- 3. Briefly explain the dual role of the male urethra.
- 4. How does the prostate gland contribute to the composition of semen?

- 5. Describe the function of the seminal vesicles in semen production.
- 6. Explain the role of the bulbourethral glands (or Cowper's glands) in the male reproductive system.

7. Explain the importance of the location of the testes in relation to body temperature.

Model Answers:



- 1. The testes are responsible for producing sperm and the hormone testosterone.
- 2. The epididymis is a tightly coiled tube where sperm mature and are stored. Its

structure allows for the prolonged contact necessary for sperm maturation.

- 3. The male urethra has a dual function: it transports urine from the bladder to be expelled from the body and during ejaculation, it transports semen.
- 4. The prostate gland secretes a slightly alkaline fluid that nourishes and helps to protect the sperm. This fluid contributes to the bulk of the semen.
- 5. The seminal vesicles produce a sugary (fructose-rich) fluid that provides energy for the sperm cells.
- 6. The bulbourethral glands produce a clear, slippery fluid that neutralizes any residual acidity in the urethra from urine and also lubricates the urethra during sexual arousal to facilitate the passage of sperm.
- 7. The testes are located outside the body in the scrotum to maintain a temperature several degrees cooler than the body's internal temperature. This cooler environment is necessary for optimal sperm production and health.



MCQ Quiz: ANATOMY OF THE FEMALE REPRODUCTIVE SYSTEM

- 1. What is the primary function of the ovaries in the female reproductive system?
 - a) Producing eggs (ova)
 - b) Providing a site for implantation
 - c) Supporting the growing fetus
 - d) Producing milk for a newborn
- 2. What role does the fallopian tube play in female reproduction?
 - a) It transports ova from the ovary to the uterus
 - b) It is where fertilization typically occurs
 - c) It provides a site for egg maturation
 - d) Both A and B
- 3. The uterus is primarily responsible for:
 - a) Ovulation
 - b) Lactation
 - c) Providing a site for implantation and supporting fetal development
 - d) Producing eggs

4. What is the function of the cervix in the female reproductive system?

- a) To produce hormones that regulate the menstrual cycle
- b) To serve as a canal that allows sperm to enter and menstrual flow to exit
- c) To provide a site for fertilization
- d) To store eggs for future ovulation
- 5. What is the role of FSH (Follicle Stimulating Hormone) in the female reproductive system?
 - a) It triggers ovulation
 - b) It stimulates the growth and maturation of follicles in the ovaries
 - c) It regulates the menstrual cycle
 - d) It stimulates the production of milk
- 6. The neuroendocrine control of the female reproductive system involves:
 - a) The pituitary gland and the ovaries
 - b) The adrenal gland and the uterus
 - c) The hypothalamus and the mammary glands
 - d) The thyroid gland and the cervix
- 7. The hypothalamus produces GnRH (gonadotropin-releasing hormone), which then:
 - a) Stimulates the release of estrogen and progesterone from the ovaries
 - b) Causes the release of FSH and LH from the anterior pituitary
 - c) Stimulates the mammary glands to produce milk
 - d) Causes the uterus to shed its lining during menstruation



- 8. What is the function of LH (Luteinizing Hormone) in the female reproductive system?
 - a) It stimulates the ovaries to produce ova
 - b) It triggers ovulation and stimulates the corpus luteum to produce progesterone
 - c) It regulates the menstrual cycle
 - d) It stimulates the mammary glands to produce milk
- 9. Which part of the female anatomy is primarily responsible for milk production during lactation?
 - a) The ovaries
 - b) The uterus
 - c) The cervix
 - d) The mammary glands
- 10. What is the function of estrogen in the female reproductive system?
 - a) It stimulates the growth of the uterine lining during the menstrual cycle
 - b) It triggers ovulation
 - c) It stimulates the production of milk
 - d) It supports the development of the fetus
- 11. The areola is a part of which female anatomical structure?
 - a) The uterus
 - b) The vagina
 - c) The ovary d)
 - The breast
- 12. Progesterone is important for:
 - a) Preparing the uterus for implantation
 - b) Stimulating milk production
 - c) Causing ovulation
 - d) Initiating the menstrual cycle

Answer Key:

GLOBAL

- a)
- Ø) B)
- 4)
- 5)
- 6) Ø)
- 8)
- Ø)
- 10. a) 11. d)
- 12. a)



SAQ: ANATOMY OF THE FEMALE REPRODUCTIVE SYSTEM

- 1. Describe the journey of an egg (ovum) from the ovary to the uterus.
- 2. How does the structure of the fallopian tubes facilitate fertilization?
- 3. What is the role of the uterus in the reproductive cycle, and how does it prepare for potential pregnancy?
- 4. Explain how the hypothalamic-pituitary-ovarian axis regulates the menstrual cycle.
- 5. What is the role of estrogen and progesterone in the female reproductive system?
- 6. Describe the process of lactation and the structures involved.

7. What is the importance of the hormone GnRH and where is it produced?

Model Answers:



- An egg, or ovum, matures in an ovary and is released during ovulation. It is then captured by the fimbriae and enters the fallopian tube, where it may be fertilized. The cilia in the fallopian tube help transport the egg towards the uterus, where it can implant if it has been fertilized.
- 2. The fallopian tubes are lined with cilia that help to move the ovum towards the uterus. The fallopian tubes are the typical site for fertilization of the ovum by sperm, as the environment within the tubes is conducive to fertilization.
- 3. The uterus, specifically the endometrium, is where the fertilized ovum implants and develops during pregnancy. Each month, under the influence of estrogen and progesterone, the endometrium thickens in preparation for possible implantation.
- 4. The hypothalamic-pituitary-ovarian axis involves the release of GnRH from the hypothalamus, which stimulates the pituitary to release FSH and LH. FSH and LH then stimulate the ovaries to produce estrogen and progesterone, which influence the menstrual cycle and prepare the body for potential pregnancy.
- 5. Estrogen is responsible for the growth and development of the uterine lining (endometrium) during the first half of the menstrual cycle, while progesterone prepares the endometrium for possible implantation of a fertilized egg in the second half of the cycle.
- 6. Lactation involves the mammary glands in the breasts, which produce milk. The production and release of milk are stimulated by the hormone prolactin, and milk ejection is facilitated by the hormone oxytocin.
- 7. GnRH (gonadotropin-releasing hormone) is produced by the hypothalamus and is vital for the regulation of the female reproductive cycle. GnRH stimulates the pituitary gland to release FSH and LH, which in turn regulate the ovaries.

MCQ Quiz: BREAST MASSES:



1. Fibroadenomas of the breast are most commonly found in:

- a) Postmenopausal women
- b) Men
- c) Pregnant women
- d) Young women
- 2. A characteristic feature of phyllodes tumors is:
 - a) They are usually malignant
 - b) They are always benign
 - c) They can be benign, borderline, or malignant
 - d) They are related to hormonal imbalance
- 3. An intraductal papilloma of the breast is:
 - a) A type of breast cancer
 - b) A benign condition, but can cause bloody nipple discharge
 - c) Always associated with pain and swelling
 - d) A variant of fibroadenoma

4. Fibrocystic disease of the breast is characterized by:

- a) The presence of a single, well-defined lump
- b) Microcalcifications on mammogram
- c) Changes that often correlate with the menstrual cycle
- d) Bloody nipple discharge
- 5. Duct ectasia, a benign condition of the breast, often presents with:
 - a) A single dominant lump
 - b) Multiple lumps that change in size with the menstrual cycle
 - c) A palpable mass with bloody nipple discharge
 - d) Nipple retraction and greenish or black nipple discharge
- 6. A galactocele in the breast commonly occurs:
 - a) Before puberty
 - b) In postmenopausal women
 - c) During lactation or shortly after weaning
 - d) In women with no history of pregnancy
- 7. Acute mastitis is often associated with:
 - a) Breastfeeding
 - b) Menopause
 - c) The use of hormonal contraceptives
 - d) The presence of fibroadenomas
- 8. The most common type of breast cancer is:
 - a) Lobular carcinoma
 - b) Ductal carcinoma in situ (DCIS)
 - c) Invasive ductal carcinoma (IDC)
 - d) Phyllodes tumor



9. Risk factors for breast cancer include all the following EXCEPT:
a) Early onset of menstruation b)
Late menopause c) Having children
at a young age d) Family history of
breast cancer

10. A distinctive feature of inflammatory breast cancer is:

- a) Painless lump in the breast
- b) A red, swollen, and often warm breast
- c) Clear or yellowish nipple discharge
- d) Multiple small cysts in the breast

11. Paget's disease of the breast primarily affects the:

- a) Mammary ducts deep within the breast
- b) Lymph nodes in the axilla
- c) Nipple and areola
- d) Breast stroma

12. The BRCA1 and BRCA2 genes are:

- a) Associated with a reduced risk of breast cancer
- b) Associated with an increased risk of breast cancer
- c) Not related to breast cancer
- d) Related to benign breast conditions



Answer Key:

- 1. d)
- 2. c)
- 3. b)
- 4. c)
- 5. d)
- 6. c)
- 7. a)
- 8. c)
- 9. c)
- 10. b)
- 11. c)

12. b)





1. Describe the typical presentation and characteristics of a fibroadenoma.

2. What distinguishes phyllodes tumors from other types of breast masses?

3. What are the common symptoms associated with an intraductal papilloma?

4. Discuss the changes that occur in the breast in fibrocystic disease.

5. How does duct ectasia present and how is it managed?

6. Describe what a galactocele is and when it typically occurs.

7. What is acute mastitis, and what is its most common cause?

8. Discuss the different types of breast cancer and their key distinguishing features.



Model Answers:

- 1. Fibroadenomas are benign tumors commonly found in young women. They typically present as a single, firm, mobile, non-tender mass with well-defined edges.
- 2. Phyllodes tumors are rare breast tumors that can be benign, borderline, or malignant. Unlike most benign breast conditions, these tumors can grow quickly and become quite large.
- 3. Intraductal papillomas are benign conditions that can cause bloody or clear nipple discharge, a solitary lump, or nipple inversion.
- 4. Fibrocystic disease is characterized by cyclic breast pain, lumpiness, and sometimes nipple discharge. The symptoms often correlate with the menstrual cycle.
- 5. Duct ectasia presents with nipple retraction and green or black nipple discharge. It's usually managed conservatively, but antibiotics may be needed if infection is present.
- 6. A galactocele is a milk-filled cyst that occurs during lactation or shortly after weaning. It typically presents as a painless lump in the breast.
- 7. Acute mastitis is a painful infection of the breast tissue, often associated with breastfeeding. It's most commonly caused by bacteria entering the breast tissue through cracked nipples.
- 8. Breast cancers can be non-invasive like ductal carcinoma in situ (DCIS), or invasive like invasive ductal carcinoma (IDC) and invasive lobular carcinoma (ILC). IDC presents as a single, hard, immobile lump, while ILC might not form a lump and can be harder to detect. Inflammatory breast cancer presents with a red, swollen, and often warm breast. Paget's disease primarily affects the nipple and areola and can present with scaling and redness.



MCQ Quiz: AMENORRHOEA AND ITS CAUSES:

1. Amenorrhoea refers to:

- a) Excessive bleeding during menstruation
- b) Painful menstruation
- c) Absence of menstruation for three or more months
- d) Irregular menstrual cycles
- 2. Which of the following is a possible cause of primary amenorrhoea?
 - a) Turner syndrome
 - b) Menopause
 - c) Pregnancy
 - d) Polycystic ovarian syndrome
- 3. Secondary amenorrhoea could be caused by all of the following, except:
 - a) Pregnancy
 - b) Menopause
 - c) Hypothalamic amenorrhoea
 - d) Precocious puberty
- 4. Hypothalamic amenorrhoea is commonly associated with:
 - a) Excessive exercise
 - b) Turner syndrome
 - c) Menopause
 - d) Polycystic ovarian syndrome
- 5. Which hormone is typically elevated in women with polycystic ovarian syndrome (PCOS)?
 - a) Estrogen
 - b) Progesterone
 - c) Testosterone
 - d) Follicle-stimulating hormone (FSH)
- 6. What is a common physical finding in women with PCOS?
 - a) Hirsutism
 - b) Hair loss
 - c) Weight loss
 - d) Hypotension
- 7. Which of the following is not a diagnostic criterion for PCOS?
 - a) Polycystic ovaries on ultrasound
 - b) Oligo- or anovulation
 - c) Hyperandrogenism
 - d) Hypertension

- 8. What treatment option is most likely to regularize menstrual cycles in a woman with PCOS?
 - a) Oral contraceptive pills
 - b) Diuretics
 - c) Thyroid hormone supplements
 - d) Insulin

9. Asherman's syndrome, a cause of secondary amenorrhoea, involves:

- a) Polycystic ovaries
- b) Premature ovarian failure
- c) Scarring of the uterine lining
- d) Overproduction of prolactin

10. Which condition characterized by high prolactin levels can result in amenorrhoea?

- a) Hypothyroidism
- b) Hyperthyroidism
- c) Cushing's disease
- d) Addison's disease

11. A deficiency of which hormone can cause amenorrhoea?

- a) Estrogen
- b) Testosterone
- c) Cortisol
- d) Insulin

12. What is the first step in the management of amenorrhoea?

- a) Starting hormone therapy
- b) Performing an ultrasound
- c) Ruling out pregnancy
- d) Checking blood pressure

Get Direction

GLOBAL

Answer Key:

- 1. c
- 2. a
- 3. d
- 4. a
- 5. c
- 6. a
- 7. d
- 8. a
- 9. c
- 10. a
- 11. a
- 12. c

SAQ: AMENORRHOEA AND ITS CAUSES



- 1. Define primary and secondary amenorrhoea and describe some potential causes for each.
- 2. How is hypothalamic amenorrhoea typically diagnosed and managed?
- 3. Describe the hormonal imbalances seen in polycystic ovarian syndrome (PCOS) and how they contribute to amenorrhoea.
- 4. What are some physical signs and symptoms that might suggest a diagnosis of PCOS?
- 5. How is Asherman's syndrome, a potential cause of secondary amenorrhoea, typically diagnosed and treated?
- 6. How can hyperprolactinemia lead to amenorrhoea?

7. What steps would you take in evaluating a patient presenting with amenorrhoea?



Model Answers:

- Primary amenorrhoea refers to the absence of menstruation by the age of 15, or within 5 years of the onset of secondary sexual characteristics. Causes include chromosomal disorders like Turner syndrome, congenital anomalies of the reproductive tract, and delayed puberty. Secondary amenorrhoea is the absence of menstruation for three or more months in women who previously had regular menstrual cycles, or 9 months in women with previous irregular cycles. Causes include pregnancy, polycystic ovarian syndrome (PCOS), premature ovarian failure, hypothalamic amenorrhoea, and hyperprolactinemia.
- Hypothalamic amenorrhoea is often associated with significant weight loss, excessive exercise, stress, or chronic illness. Diagnosis is usually made by ruling out other causes of amenorrhoea. Management focuses on addressing the underlying cause, such as lifestyle modifications or psychological counseling.
- 3. PCOS is characterized by high levels of androgens (like testosterone), relative lack of progesterone due to anovulation, and often insulin resistance. The absence of regular ovulation leads to amenorrhoea or irregular menstruation.
- 4. Physical signs of PCOS can include hirsutism (excess body hair), acne, acanthosis nigricans (dark patches of skin), and signs of obesity. PCOS can also present with multiple small cysts on the ovaries as seen on ultrasound.
- 5. Asherman's syndrome involves scarring or adhesions within the uterus, often following a surgical procedure like a D&C. Diagnosis is typically by hysteroscopy. Treatment involves surgical removal of the adhesions, often followed by estrogen therapy to stimulate regrowth of the uterine lining.
- 6. High prolactin levels inhibit the release of gonadotropin-releasing hormone (GnRH) from the hypothalamus, which subsequently reduces the release of follicle-stimulating hormone (FSH) and luteinizing hormone (LH) from the pituitary. This alters the normal menstrual cycle, leading to amenorrhoea.
- 7. The evaluation of amenorrhoea begins with a pregnancy test to rule out pregnancy. This is followed by a thorough medical history, physical examination, and laboratory tests to assess hormone levels (FSH, LH, estradiol, prolactin, TSH). Imaging studies, like an ultrasound or MRI, may also be used to visualize the reproductive organs or the pituitary gland.



MCQ Quiz: DYSMENORRHOEA AND ITS CAUSES:

- 1. Dysmenorrhoea refers to:
 - a) Irregular menstrual cycles
 - b) Absence of menstruation
 - c) Painful menstruation
 - d) Heavy menstrual bleeding
- 2. Primary dysmenorrhoea is:
- a) Dysmenorrhoea with an identifiable pathological cause
- b) Dysmenorrhoea without an identifiable pathological cause
- c) Painful menstruation that begins later in life
- d) Painful menstruation associated with menopause
- 3. Secondary dysmenorrhoea is most commonly caused by:
 - a) Adolescence
 - b) Endometriosis
 - c) Menopause
 - d) Genetic factors
- 4. Which hormone is thought to play a significant role in the pain associated with primary dysmenorrhoea?
 - a) Estrogen
 - b) Progesterone
 - c) Testosterone
 - d) Prostaglandins
- 5. Endometriosis is characterized by:
 - a) Endometrial tissue outside of the uterus
 - b) Excessive growth of the endometrium
 - c) Absence of the endometrium
 - d) Abnormal endometrial tissue within the uterine muscle
- 6. The most common site of endometriosis is:
 - a) The lungs
 - b) The ovaries
 - c) The bladder
 - d) The heart
- 7. A common symptom of endometriosis, apart from dysmenorrhoea, is:
 - a) Amenorrhoea
 - b) Menorrhagia
 - c) Dyspareunia
 - d) Hirsutism
- 8. Endometriosis is often diagnosed by:
 - a) Pregnancy test
 - b) Blood test for hormone levels
 - c) Ultrasound
 - d) Laparoscopy



9. What is a common first-line treatment for dysmenorrhoea?

- a) Hysterectomy
- b) Hormonal contraceptives
- c) Fertility treatments
- d) Antibiotics

10. Which of the following is not typically a feature of endometriosis?

- a) Infertility
- b) Ovarian cysts
- c) Weight gain
- d) Pelvic pain

11. Adenomyosis, a cause of secondary dysmenorrhoea, involves:

- a) Absence of the endometrium
- b) Endometrial tissue within the uterine muscle
- c) Excessive growth of the endometrium
- d) Endometrial tissue outside of the uterus
- 12. Which of the following conditions is often associated with painful bowel movements and dysmenorrhoea?
 - a) Polycystic ovarian syndrome
 - b) Endometriosis
 - c) Ovarian cysts
 - d) Uterine fibroids

GLOBAL

Answer Key:

- 1. c
- 2. b
- 3. b
- 4. d
- 5. a
- 6. b
- 7. c
- 8. d
- 9. b
- 10. c
- 11. b
- 12. b



SAQ: DYSMENORRHOEA AND ITS CAUSES:

- 1. Describe the pathophysiology of primary dysmenorrhoea.
- 2. How would you differentiate between primary and secondary dysmenorrhoea clinically?
- 3. What are the common symptoms associated with endometriosis?
- 4. Discuss the typical locations of endometrial implants in endometriosis and how these may relate to the symptoms experienced by the patient.
- 5. Explain why dyspareunia is a common symptom in patients with endometriosis.

6. How is endometriosis typically diagnosed and managed?

7. Explain how adenomyosis can cause secondary dysmenorrhoea.

Model Answers:



- 1. Primary dysmenorrhoea is associated with increased production of prostaglandins in the uterus during menstruation. These substances cause uterine contractions and reduce blood flow to the uterus, leading to pain.
- 2. Primary dysmenorrhoea typically starts soon after menarche and is usually related to the menstrual cycle with no identifiable pelvic pathology. Secondary dysmenorrhoea begins later in life, is often progressive, and is due to an underlying pathological condition like endometriosis, fibroids, or adenomyosis.
- 3. Common symptoms of endometriosis include dysmenorrhoea, dyspareunia (painful intercourse), pelvic pain, and infertility. Some women may also experience painful bowel movements or urination, especially during menstruation.
- 4. Endometrial implants are most commonly found on the ovaries, pelvic peritoneum, uterosacral ligaments, and rectovaginal septum. The location of the implants can contribute to the symptoms. For example, implants on the bowel may lead to painful bowel movements.
- 5. Dyspareunia in endometriosis is likely due to the presence of endometrial implants in areas like the uterosacral ligaments and rectovaginal septum, which can be irritated during intercourse, causing pain.
- 6. Diagnosis of endometriosis is typically confirmed by laparoscopy, allowing direct visualization of the endometrial implants. Management may include hormonal contraceptives to control the menstrual cycle, pain medications, and in some cases, surgery to remove the endometrial tissue.
- 7. Adenomyosis occurs when endometrial tissue grows into the uterine muscle. This can cause the uterus to become enlarged and may result in heavy, painful periods and dysmenorrhoea.



MCQ Quiz: MENORRHAGIA AND ITS CAUSES:

- 1. Menorrhagia refers to:
 - a) Absence of menstruation
 - b) Painful menstruation
 - c) Irregular menstruation
 - d) Heavy or prolonged menstruation
- 2. One of the potential causes of menorrhagia is adenomyosis, which is:
 - a) Overgrowth of the endometrium into the uterine muscle
 - b) Absence of the endometrium
 - c) Endometrial tissue located outside the uterus
 - d) Abnormal endometrial tissue within the uterine muscle
- 3. Dysfunctional uterine bleeding is a diagnosis of:
 - a) Exclusion
 - b) Inclusion
 - c) Emergency
 - d) Convenience

4. Endometrial hyperplasia refers to:

- a) Overgrowth of the endometrium
- b) Shrinkage of the endometrium
- c) Endometrial tissue outside the uterus
- d) Endometrial tissue within the uterine muscle
- 5. Uterine fibroids are:
 - a) Benign tumors of the uterus
 - b) Malignant tumors of the uterus
 - c) Always symptomatic
 - d) Always asymptomatic
- 6. The cause of dysfunctional uterine bleeding is usually related to:
 - a) Trauma
 - b) Infections
 - c) Hormonal imbalances
 - d) Physical exertion
- 7. Which type of fibroid is most likely to cause menorrhagia?
 - a) Subserosal
 - b) Intramural
 - c) Submucosal
 - d) Pedunculated
- 8. How is adenomyosis typically diagnosed?
 - a) Laparoscopy
 - b) Blood tests
 - c) Ultrasound or MRI
 - d) Endometrial biopsy



- 9. Which of the following is not a typical treatment option for menorrhagia?
 - a) Hormonal therapy
 - b) NSAIDs
 - c) Antibiotics
 - d) Surgery
- 10. Which of the following conditions is characterized by heavy, irregular periods often associated with anovulation?
 - a) Adenomyosis
 - b) Uterine fibroids
 - c) Endometrial hyperplasia
 - d) Polycystic ovarian syndrome

11. Endometrial hyperplasia is most often caused by:

- a) Unopposed estrogen stimulation
- b) High progesterone levels
- c) Excessive exercise
- d) Chronic stress
- 12. The presence of which symptom, in addition to menorrhagia, might raise suspicion for endometrial cancer rather than simple hyperplasia?
 - a) Pain during intercourse
 - b) Postmenopausal bleeding
 - c) Frequent urination
 - d) Unintentional weight loss

GLOBAL

Answer Key:

- 1. d
- 2. d
- 3. a
- 4. a
- 5. a
- 6. c
- 7. c
- 8. c
- 9. c
- 10. d
- 11. a
- 12. b

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SAQ: MENORRHAGIA AND ITS CAUSES:

- 1. Explain the pathophysiology of menorrhagia in a patient with adenomyosis.
- 2. Describe the typical clinical features of a patient presenting with dysfunctional uterine bleeding.
- 3. What changes might be observed in the endometrium in a case of endometrial hyperplasia?
- 4. Explain how uterine fibroids can lead to menorrhagia.
- 5. How might a clinician differentiate between menorrhagia caused by adenomyosis and menorrhagia caused by uterine fibroids?
- 6. Describe the common treatment options for menorrhagia.

7. Explain the risk factors for developing endometrial hyperplasia.

Model Answers:



- 1. Adenomyosis involves the growth of the endometrium into the uterine muscle. This can cause the uterus to become enlarged and may result in heavy, prolonged periods and menorrhagia.
- 2. Patients with dysfunctional uterine bleeding typically present with irregular, often heavy menstrual bleeding. The condition is usually due to a hormonal imbalance, and other symptoms of hormonal imbalances may also be present.
- 3. In endometrial hyperplasia, the endometrium is abnormally thick due to an overgrowth of the endometrial glands. This can result in heavy or prolonged menstrual bleeding.
- 4. Uterine fibroids, particularly submucosal fibroids, can cause menorrhagia by increasing the surface area of the endometrium and disrupting the normal uterine muscle contractions that help limit menstrual flow.

5. Both adenomyosis and fibroids can cause menorrhagia and a bulky uterus. However, fibroids are usually well-defined masses within the uterus, whereas adenomyosis causes diffuse enlargement. Imaging studies like ultrasound or MRI can help differentiate between the two.

6. Common treatment options for menorrhagia include hormonal therapies such as oral contraceptives or progesterone IUDs, non-hormonal medications like NSAIDs or tranexamic acid, and surgical options including endometrial ablation or hysterectomy.

7. Risk factors for endometrial hyperplasia include conditions that result in high levels of estrogen without sufficient progesterone, such as obesity, polycystic ovarian syndrome, and hormone replacement therapy without sufficient progesterone. Postmenopausal women are also at increased risk.

MCQ Quiz: UTERINE CANCERS:



- 1. The most common type of uterine cancer is:
- a) Endometrial adenocarcinoma
- b) Uterine leiomyosarcoma
- c) Cervical cancer
- d) Ovarian cancer
- 2. The major risk factor for developing endometrial adenocarcinoma is:
 - a) Exposure to human papillomavirus (HPV)
 - b) Chronic hypertension
 - c) Unopposed estrogen stimulation
 - d) Smoking
- 3. Uterine leiomyosarcoma originates from:
 - a) The endometrium
 - b) The cervical epithelium
 - c) The smooth muscle of the uterus
 - d) The uterine ligaments
- 4. The most common symptom of endometrial adenocarcinoma is:
 - a) Abdominal pain
 - b) Postmenopausal bleeding
 - c) Weight loss
 - d) Bloating
- 5. Which of the following is not a risk factor for uterine leiomyosarcoma?
 - a) Older age
 - b) History of pelvic radiation
 - c) Use of tamoxifen
 - d) Human papillomavirus (HPV) infection
- 6. Diagnosis of endometrial adenocarcinoma is typically made by:
 - a) Pap smear
 - b) Blood tests
 - c) Endometrial biopsy
 - d) MRI
- 7. In early-stage endometrial adenocarcinoma, the treatment of choice is usually:
 - a) Chemotherapy
 - b) Radiotherapy
 - c) Hysterectomy and bilateral salpingo-oophorectomy
 - d) Hormone therapy
- 8. Progestin therapy could be considered as a treatment option in which scenario?
 - a) An older woman with advanced endometrial adenocarcinoma
 - b) A younger woman with early-stage endometrial adenocarcinoma who wishes to preserve fertility
 - c) A woman with uterine leiomyosarcoma
 - d) A woman with recurrent cervical cancer



- 9. The prognosis of uterine leiomyosarcoma compared to endometrial adenocarcinoma is generally:
 - a) Better
 - b) Same
 - c) Worse
 - d) Depends on the stage at diagnosis
- 10. A significant percentage of endometrial adenocarcinomas are attributed to which genetic syndrome?
 - a) Lynch syndrome
 - b) Li-Fraumeni syndrome
 - c) Down syndrome
 - d) Marfan syndrome
- 11. Which of the following imaging studies is often used to evaluate the extent of uterine leiomyosarcoma?
 - a) Ultrasound
 - b) CT scan
 - c) MRI
 - d) PET scan
- 12. What is the most important prognostic factor for endometrial adenocarcinoma?
 - a) Patient's age
 - b) Tumor grade
 - c) Tumor stage
 - d) Lymph node involvement

GLOBAL

Answer Key:

- 1. a
- 2. c
- 3. c
- 4. b
- 5. d
- 6. c
- 7. c
- 8. b
- 9. c
- 10. a
- 11. d
- 12. c

SAQ: UTERINE CANCERS:



- 1. Describe the pathogenesis of endometrial adenocarcinoma.
- 2. How does the clinical presentation of uterine leiomyosarcoma differ from that of endometrial adenocarcinoma?
- 3. Explain the role of estrogen in the development of endometrial adenocarcinoma.
- 4. What factors influence the prognosis of a patient diagnosed with uterine leiomyosarcoma?
- 5. Why might a young woman with early-stage endometrial adenocarcinoma choose progestin therapy over hysterectomy?

6. What are the main strategies for managing advanced endometrial adenocarcinoma?

7. Explain the relationship between Lynch syndrome and endometrial adenocarcinoma.

Model Answers:

- 1. Endometrial adenocarcinoma typically develops as a result of prolonged exposure to unopposed estrogen, leading to endometrial hyperplasia and ultimately the development of cancer. There are two types: estrogen-dependent (Type I), which is more common and often associated with endometrial hyperplasia, and non-estrogen-dependent (Type II), which is less common and typically has a worse prognosis.
- 2. Uterine leiomyosarcoma typically presents with nonspecific symptoms such as abnormal uterine bleeding, pelvic pain, and a rapidly enlarging uterine mass. In contrast, endometrial adenocarcinoma typically presents with postmenopausal bleeding.
- 3. Estrogen stimulates the proliferation of endometrial cells. When there's an imbalance between estrogen and progesterone, such as in obesity, polycystic ovary syndrome, or estrogen therapy without progesterone, the endometrium may undergo hyperplasia. This uncontrolled growth can lead to the development of endometrial adenocarcinoma.
- 4. The prognosis for uterine leiomyosarcoma is generally worse than for endometrial adenocarcinoma, given its more aggressive nature. Factors influencing prognosis include the stage at diagnosis, the grade of the tumor, and whether the cancer has spread to lymph nodes or other parts of the body.
- 5. A young woman who wishes to preserve fertility may choose progestin therapy, which can control the growth of endometrial adenocarcinoma and possibly reverse early-stage disease, allowing for the possibility of future pregnancy.
- 6. Advanced endometrial adenocarcinoma may be managed with a combination of surgery, radiation therapy, and chemotherapy. Hormonal therapy may also be considered in some cases, particularly for hormone receptor-positive tumors.
- 7. Lynch syndrome is a genetic condition associated with an increased risk of certain cancers, including colorectal cancer and endometrial cancer. Women with Lynch syndrome have a significantly increased lifetime risk of developing endometrial adenocarcinoma, often at a younger age than the general population.

GET Direction



MCQ Quiz: CONDITIONS OF THE VAGINA:

- 1. Which of the following is the most common symptom of a Bartholin gland cyst?
 - a) Pruritus
 - b) Painful intercourse
 - c) Postmenopausal bleeding
 - d) A painless lump or swelling in the vulvar area
- 2. The most common type of vulval cancer is:
 - a) Sarcoma
 - b) Melanoma
 - c) Squamous cell carcinoma
 - d) Adenocarcinoma
- 3. Which of the following is considered a premalignant lesion of the vulva?
 - a) Lichen sclerosus
 - b) Bartholin gland cyst
 - c) Vaginal candidiasis
 - d) Bacterial vaginosis
- 4. The most common causative organism of vaginal candidiasis is:
 - a) Escherichia coli
 - b) Candida albicans
 - c) Gardnerella vaginalis
 - d) Chlamydia trachomatis
- 5. Which of the following is a risk factor for developing bacterial vaginosis?
 - a) Monogamy
 - b) Frequent douching
 - c) Using a diaphragm for contraception
 - d) All of the above
- 6. How is vulval cancer most commonly diagnosed?
 - a) Pap smear
 - b) Biopsy
 - c) MRI
 - d) Ultrasound
- 7. The treatment of choice for a large, painful Bartholin gland cyst is:
 - a) Antibiotics
 - b) Warm compresses
 - c) Incision and drainage
 - d) Excision
- 8. A key feature distinguishing bacterial vaginosis from vaginal candidiasis is:
 - a) The presence of a "cottage cheese" discharge
 - b) A "fishy" odor, especially after intercourse
 - c) Intense pruritus
 - d) Lower abdominal pain



9. Which of the following is the typical treatment for vaginal candidiasis?

- a) Oral metronidazole
- b) Topical clotrimazole
- c) Oral fluconazole
- d) Both b and c

10. Persistent vulvar itching and white, lichenified plaques may be indicative of:

- a) Lichen sclerosus
- b) Bartholin gland cyst
- c) Vulval cancer
- d) Vaginal candidiasis

11. What is the most common cause of infectious vaginitis?

- a) Bacterial vaginosis
- b) Vaginal candidiasis
- c) Trichomonas vaginitis
- d) Chlamydia infection
- 12. High-grade squamous intraepithelial lesion (HSIL) on Pap smear is a condition that requires:
 - a) Repeat Pap smear in 3 months
 - b) HPV DNA testing
 - c) Colposcopy and biopsy
 - d) Immediate hysterectomy

GLOBAL

Answer Key:

- 1. d
- 2. c
- 3. а
- 4. b
- 5. b
- 6. b
- 7. c
- 8. b
- 9. d 10. a
- 10. a
- 12. c





- 1. Describe the typical clinical presentation and management of Bartholin gland cysts.
- 2. Discuss the epidemiology and risk factors for vulval cancer.

3. Explain the pathophysiology of lichen sclerosus and its association with vulval cancer.

- 4. What are the common symptoms of vaginal candidiasis and how is it diagnosed?
- 5. Explain how bacterial vaginosis develops and its typical clinical presentation.

6. Describe the management of vulval cancer, including premalignant lesions.

7. Discuss the diagnostic approach to a woman presenting with symptoms of vaginitis.



Model Answers:

- Bartholin gland cysts typically present as a painless swelling or lump on one side of the vulva, often noticed by the patient or her partner. Management depends on symptom severity and includes conservative measures, like warm compresses or sitz baths, for asymptomatic cysts, or more invasive procedures such as incision and drainage or marsupialization for symptomatic cysts.
- Vulval cancer is relatively rare and is most often diagnosed in postmenopausal women. Risk factors include chronic inflammatory conditions like lichen sclerosus, HPV infection, smoking, and immunosuppression. Squamous cell carcinoma is the most common type.
- 3. Lichen sclerosus is a chronic inflammatory skin condition affecting the vulva that can cause intense itching, white plaques, and thinning of the skin. It's considered a premalignant condition as it's associated with an increased risk of developing squamous cell carcinoma of the vulva.
- 4. Vaginal candidiasis typically presents with itching, burning, and a thick, white, "cottage cheese" vaginal discharge. Diagnosis is usually clinical but can be confirmed by microscopy revealing pseudohyphae or budding yeast forms.
- 5. Bacterial vaginosis develops when the normal lactobacilli-dominated vaginal flora is replaced by a mixed flora including Gardnerella vaginalis and other anaerobes. It typically presents with a thin, grayish-white discharge with a characteristic "fishy" odor, especially after intercourse.
- 6. The management of vulval cancer includes surgical resection, radiation, and chemotherapy, depending on the stage and type of cancer. Premalignant lesions like vulvar intraepithelial neoplasia (VIN) may be managed with local excision, laser ablation, or topical therapy.
- 7. The diagnostic approach to vaginitis involves taking a thorough history, performing a pelvic examination, and obtaining vaginal swabs for pH, amine testing, microscopy, and culture. The findings help differentiate between bacterial vaginosis, candidiasis, and trichomoniasis, which are the most common causes of infectious vaginitis.



MCQ Quiz: CONDITIONS OF THE CERVIX:

- 1. Which of the following organisms is a common cause of cervicitis?
 - a) Neisseria gonorrhoeae
 - b) Candida albicans
 - c) Human papillomavirus
 - d) Both a and c
- 2. What symptom is most commonly associated with endocervical polyps?
 - a) Dyspareunia
 - b) Inter-menstrual bleeding
 - c) Pruritus
 - d) Lower abdominal pain
- 3. Which of the following represents a low-grade squamous intraepithelial lesion (LSIL)?
 - a) Cervical intraepithelial neoplasia (CIN) 1
 - b) Cervical intraepithelial neoplasia (CIN) 2
 - c) Cervical intraepithelial neoplasia (CIN) 3
 - d) Cervical carcinoma in situ
- 4. Which HPV types are most commonly associated with cervical cancer?
 - a) HPV 6 and 11
 - b) HPV 16 and 18
 - c) HPV 31 and 33
 - d) All of the above
- 5. What is the first-line treatment for uncomplicated cervicitis?
 - a) Metronidazole and azithromycin
 - b) Ceftriaxone and doxycycline
 - c) Ceftriaxone and azithromycin
 - d) Metronidazole and doxycycline
- 6. The primary screening tool for cervical cancer is:
 - a) Pelvic examination
 - b) HPV DNA testing
 - c) Pap smear
 - d) Transvaginal ultrasound
- 7. How is cervical intraepithelial neoplasia (CIN) 2-3 typically managed?
 - a) Observation
 - b) LEEP (Loop Electrosurgical Excision Procedure)
 - c) Hysterectomy
 - d) Radiation therapy
- 8. What factor most significantly increases the risk of developing cervical cancer?
 - a) Smoking
 - b) Multiple sexual partners
 - c) Use of oral contraceptives
 - d) Persistent HPV infection



9. In contrast to cervical cancer, endocervical polyps are usually:

- a) Malignant
- b) Benign
- c) Associated with HPV infection
- d) None of the above

10. How is cervicitis usually diagnosed?

- a) Through the patient's symptoms
- b) Pelvic exam and possibly swab tests
- c) Transvaginal ultrasound
- d) Pap smear

11. The mainstay of management for cervical intraepithelial neoplasia (CIN) 1 is:

a) Hysterectomy

b) Radiation therapy

c) Follow-up Pap smears and HPV testing

d) LEEP (Loop Electrosurgical Excision Procedure)

12. The risk of progression from CIN 1 (LSIL) to invasive cancer is:

a) Very high

b) High

c) Moderate

d) Low



Answer Key:

- 1. d
- 2. b
- 3. a
- 4. b

5. c (but check your local guidelines)

- 6. c
- 7. b
- 8. d
- 9. b
- 10. b
- 11. c
- 12. d

SAQ: CONDITIONS OF THE CERVIX:



- 1. Describe the symptoms and treatment options for cervicitis.
- 2. What are the risk factors for developing cervical cancer and how is it prevented?

3. Explain the difference between low-grade squamous intraepithelial lesion (LSIL) and high-grade squamous intraepithelial lesion (HSIL) in the context of cervical intraepithelial neoplasia (CIN).

4. What are the symptoms and diagnostic methods for endocervical polyps?

- 5. Describe the process of cervical cancer screening and follow-up for abnormal results.
- 6. Discuss the management approach to cervical intraepithelial neoplasia (CIN) 2-3.

7. Explain the relationship between HPV infection and the development of cervical cancer.





- 1. Cervicitis often presents with vaginal discharge, inter-menstrual or post-coital bleeding, and dysuria. Treatment depends on the etiology, but commonly includes antibiotics to cover Chlamydia trachomatis and Neisseria gonorrhoeae.
- 2. Risk factors for cervical cancer include persistent HPV infection, smoking, immunosuppression, and having multiple sexual partners. Vaccination against HPV and regular screening with Pap smears and HPV testing can help prevent this cancer.
- 3. LSIL corresponds to CIN 1 and represents mild dysplasia of the cervical epithelium. HSIL encompasses both CIN 2 and CIN 3 and indicates moderate to severe dysplasia with a higher risk of progression to invasive cancer.
- 4. Endocervical polyps usually present with inter-menstrual bleeding or post-coital bleeding. Diagnosis is generally made through a pelvic examination, and confirmed through biopsy following polyp removal.
- 5. Cervical cancer screening involves regular Pap smears and HPV testing. Abnormal results may warrant a colposcopy and biopsy. Follow-up for abnormal results depends on the severity of the lesion and may include more frequent screening, or treatment with procedures like LEEP.
- 6. CIN 2-3 is typically managed with excisional procedures such as LEEP or cone biopsy, given its potential to progress to invasive cancer.
- 7. Persistent infection with high-risk HPV types, particularly HPV 16 and 18, can lead to dysplasia of the cervical epithelium and ultimately the development of cervical cancer. HPV vaccination can significantly reduce this risk.



MCQ Quiz: CONDITIONS OF THE OVARIES:

- 1. Which type of ovarian cyst is typically associated with menstrual cycle irregularities?
 - a) Dermoid cysts/teratomas
 - b) Ovarian cyst adenomas
 - c) Functional cysts
 - d) Cystadenocarcinomas
- 2. Dermoid cysts are an example of what type of tumor?
 - a) Benign
 - b) Malignant
 - c) Metastatic
 - d) Functional
- 3. The most common type of ovarian cancer is:
 - a) Germ cell tumors
 - b) Sex cord-stromal tumors
 - c) Epithelial ovarian tumors
 - d) Metastatic tumors
- 4. What is the classic triad of symptoms associated with ovarian cancer?
 - a) Abdominal pain, bloating, and urinary symptoms
 - b) Pelvic pain, abnormal bleeding, and weight loss
 - c) Bloating, dyspepsia, and early satiety
 - d) Abdominal pain, weight loss, and fatigue
- 5. Which of the following risk factors is associated with an increased risk of ovarian cancer?
 - a) Nulliparity
 - b) History of breast cancer
 - c) Family history of ovarian cancer
 - d) All of the above
- 6. Dermoid cysts/teratomas are derived from:
 - a) Germ cells
 - b) Stromal cells
 - c) Epithelial cells
 - d) Endothelial cells
- 7. Which type of ovarian tumor is most often bilateral?
 - a) Dermoid cysts/teratomas
 - b) Mucinous cystadenocarcinoma
 - c) Serous cystadenocarcinoma
 - d) Endometrioid adenocarcinoma
- 8. How is a dermoid cyst/teratoma typically managed?
 - a) Observation
 - b) Chemotherapy
 - c) Surgical resection
 - d) Radiation therapy



- 9. What is the first-line treatment for advanced-stage epithelial ovarian cancer?
 - a) Chemotherapy
 - b) Surgical debulking and chemotherapy
 - c) Radiation therapy
 - d) Immunotherapy
- 10. What is the most common type of benign ovarian germ cell tumor?
 - a) Dermoid cysts/teratomas
 - b) Serous cystadenoma
 - c) Mucinous cystadenoma
 - d) Fibroma
- 11. Which gene mutations are most commonly associated with ovarian cancer?
 - a) BRCA1 and BRCA2
 - b) TP53 and APC
 - c) KRAS and NRAS
 - d) ALK and ROS1
- 12. The most common clinical presentation of a dermoid cyst/teratoma is:
 - a) Abdominal pain
 - b) Irregular menses
 - c) Asymptomatic
 - d) Infertility

GLOBAL

Answer Key:

- 1. c
- 2. a
- 3. c
- 4. a
- 5. d
- 6. a
- 7. c
- 8. c
- 9. b 10. a
- 11. a
- 12. c



SAQ: CONDITIONS OF THE OVARIES:

- 1. What are the symptoms and diagnostic methods for ovarian cyst adenomas?
- 2. Describe the epidemiology and risk factors for ovarian cancer.
- 3. Discuss the origin, clinical presentation, and management of dermoid cysts/teratomas.

4. What is the difference between the major types of ovarian tumors: epithelial, germ cell, and stromal?

5. Describe the treatment approach for advanced-stage epithelial ovarian cancer.

- 6. Discuss the genetic mutations commonly associated with ovarian cancer and their significance.
- 7. What is the most common type of benign ovarian tumor, and how is it usually managed?

Model Answers:



- 1. Ovarian cyst adenomas often cause pelvic pain, bloating, and irregular periods. They can be diagnosed with a pelvic exam, ultrasound, or MRI.
- 2. Ovarian cancer is the second most common gynecologic cancer and the most deadly. Risk factors include older age, nulliparity, endometriosis, family history of breast or ovarian cancer, and mutations in genes such as BRCA1 or BRCA2.

3. Dermoid cysts, or teratomas, are derived from germ cells and can contain elements from all three germ layers. They are usually asymptomatic but can cause pain or torsion. Management typically involves surgical resection.

- 4. Epithelial ovarian tumors are the most common and include serous and mucinous cystadenomas and cystadenocarcinomas. Germ cell tumors, including teratomas, originate from primordial germ cells. Stromal tumors arise from sex cord stromal cells and include granulosa cell tumors and thecomas.
- 5. Treatment for advanced-stage epithelial ovarian cancer typically involves surgical debulking followed by chemotherapy with a platinum agent and a taxane.

6. Mutations in BRCA1 and BRCA2 are most commonly associated with ovarian cancer, greatly increasing a woman's lifetime risk. Other genes associated with an increased risk include RAD51C, RAD51D, and PALB2.

7. The most common type of benign ovarian tumor is the serous cystadenoma. Management usually involves surgical removal, especially if the cyst is large, causing symptoms, or if there is concern for malignancy.



MCQ Quiz: PELVIC ORGAN PROLAPSE AND URINARY INCONTINENCE:

- 1. Which type of incontinence is characterized by involuntary loss of urine due to a weakened pelvic floor?
 - a) Overflow incontinence
 - b) Stress incontinence
 - c) Urge incontinence
 - d) Functional incontinence
- 2. What is the most common type of pelvic organ prolapse?
 - a) Cystocele
 - b) Rectocele
 - c) Uterine prolapse
 - d) Enterocele
- 3. Which type of urinary incontinence is commonly associated with an overactive bladder?
 - a) Overflow incontinence
 - b) Stress incontinence
 - c) Urge incontinence
 - d) Functional incontinence
- 4. Which condition is often the cause of overflow incontinence?
 - a) Urinary tract infection
 - b) Diabetic neuropathy
 - c) Pelvic organ prolapse
 - d) Overactive bladder
- 5. Which of the following is a common surgical treatment for stress urinary incontinence?
 - a) Uterosacral ligament suspension
 - b) Sacrospinous ligament fixation
 - c) Mid-urethral sling
 - d) Anterior vaginal repair
- 6. A woman with a sensation of pelvic heaviness and a visible bulge in the vaginal area is likely experiencing:
 - a) Urge incontinence
 - b) Stress incontinence
 - c) Overflow incontinence
 - d) Pelvic organ prolapse
- 7. In which condition might you find a post-void residual urine volume over 200 mL?
 - a) Overflow incontinence
 - b) Stress incontinence
 - c) Urge incontinence
 - d) Functional incontinence



- 8. What is the first-line treatment for urge incontinence?
 - a) Kegel exercises
 - b) Anticholinergic medication
 - c) Mid-urethral sling
 - d) Surgical repair of pelvic organ prolapse
- 9. The risk of developing pelvic organ prolapse increases with:
 - a) Nulliparity
 - b) Decreased age
 - c) Obesity
 - d) Menopause

10. The main symptom of stress incontinence is:

- a) Frequent urination
- b) Urinary leakage associated with coughing, sneezing, or physical exertion
- c) Inability to completely empty the bladder
- d) Sudden, intense urge to urinate followed by an involuntary loss of urine

11. Pessary devices are primarily used in the management of:

- a) Stress incontinence
- b) Overflow incontinence
- c) Urge incontinence
- d) Pelvic organ prolapse
- 12. Which medication class is contraindicated in patients with overflow incontinence?
 - a) Alpha-1 antagonists
 - b) Anticholinergic agents
 - c) 5-alpha-reductase inhibitors
 - d) Beta-3 agonists

GLOBAL

Answer Key:

- 1. b
- 2. a
- 3. c
- 4. b
- 5. c
- 6. d
- 7. a 8. b
- 0.0
- 9. c 10. b
- 10. b 11. d
- 12. b



SAQ: PELVIC ORGAN PROLAPSE AND URINARY INCONTINENCE:

- 1. What are the symptoms and diagnostic methods for stress incontinence?
- 2. Describe the epidemiology and risk factors for pelvic organ prolapse.
- 3. Discuss the pathophysiology, clinical presentation, and management of overflow incontinence.
- 4. What is the difference between stress, urge, and overflow incontinence?
- 5. Describe the treatment approach for pelvic organ prolapse.

6. Discuss the lifestyle modifications recommended for managing urge incontinence.

7. What are the common causes of urinary incontinence in elderly patients, and how is it typically managed?

Get Direction

Model Answers:

 Stress incontinence is characterized by involuntary leakage of urine with physical exertion, sneezing, or coughing. Diagnosis is typically based on a detailed history and physical examination, including a stress test (coughing or straining with a full bladder to observe for leakage).

2. Pelvic organ prolapse occurs when pelvic organs herniate into or beyond the vaginal walls. Risk factors include childbirth, aging, obesity, menopause, and previous pelvic surgery. Its prevalence increases with age.

- 3. Overflow incontinence is caused by chronic urinary retention due to impaired bladder emptying. It can result from conditions like diabetic neuropathy, spinal cord injury, or obstruction. It presents as a constant dribbling of urine or incomplete emptying and is managed by treating the underlying condition and often requiring intermittent catheterization.
- 4. Stress incontinence is due to increased intra-abdominal pressure exceeding urethral resistance, urge incontinence (also known as overactive bladder) involves an overactive detrusor muscle, and overflow incontinence occurs when the bladder is chronically overfilled and leaks urine.
- 5. Conservative treatment options for pelvic organ prolapse include pelvic floor muscle training and the use of pessaries. If these measures are unsuccessful, various surgical procedures can be considered.
 - 6. Lifestyle modifications for managing urge incontinence include bladder training, scheduled voiding, and dietary changes such as limiting caffeine and alcohol.
- 7. In elderly patients, urinary incontinence can be caused by a variety of factors, including decreased bladder capacity, impaired mobility, medications, and underlying conditions such as dementia. Management typically involves a multifaceted approach including lifestyle modifications, bladder training, pelvic floor exercises, medications, and potentially surgery.

MCQ Quiz: CONDITIONS OF THE MALE GENITALIA:



- 1. Which condition is characterized by a curved penile erection due to fibrous plaques in the tunica albuginea?
 - a) Peyronie's disease
 - b) Balanitis
 - c) Hypospadias
 - d) Epispadias
- 2. What is the most common risk factor for penile cancer?
 - a) Peyronie's disease
 - b) Human papillomavirus (HPV) infection
 - c) Cryptorchidism
 - d) Balanitis
- 3. Which of the following conditions is characterized by inflammation of the glans penis and the foreskin?
 - a) Peyronie's disease
 - b) Balanitis
 - c) Balanoposthitis
 - d) Cryptorchidism
- 4. What is the most common cause of balanoposthitis in uncircumcised males?
 - a) Poor hygiene
 - b) Peyronie's disease
 - c) HPV infection
 - d) Cryptorchidism
- 5. Cryptorchidism is a risk factor for which condition later in life?
 - a) Penile carcinoma
 - b) Peyronie's disease
 - c) Balanitis
 - d) Testicular cancer
- 6. A urethral meatus located on the ventral surface of the penis is characteristic of which condition?
 - a) Epispadias
 - b) Hypospadias
 - c) Cryptorchidism
 - d) Peyronie's disease
- 7. What is the primary treatment option for penile cancer?
 - a) Circumcision
 - b) Topical chemotherapy
 - c) Surgery
 - d) Radiotherapy



8. What factor increases the risk of developing balanitis?

- a) Cryptorchidism
- b) Phimosis
- c) Peyronie's disease
- d) Epispadias
- 9. Which condition is more common in diabetic men?
 - a) Cryptorchidism
 - b) Balanitis
 - c) Peyronie's disease
 - d) Hypospadias
- 10. What is the gold standard for diagnosing Peyronie's disease?
 - a) Physical examination
 - b) Ultrasound
 - c) Biopsy
 - d) MRI
- 11. What is the most common type of penile cancer?
 - a) Squamous cell carcinoma
 - b) Adenocarcinoma
 - c) Basal cell carcinoma
 - d) Sarcoma
- 12. Which of these is a congenital condition where the urethral opening is on the dorsal surface of the penis?
 - a) Epispadias
 - b) Cryptorchidism
 - c) Peyronie's disease
 - d) Hypospadias

GLOBAL

Answer Key:

- 1. a
- 2. b
- 3. c
- 4. a
- 5. d
- 6. b
- 7. c
- 8. b
- 9. b 10. a
- 10. a
- 12. a



SAQ: CONDITIONS OF THE MALE GENITALIA:

- 1. Describe the clinical features and management of Peyronie's disease.
- 2. What are the risk factors, clinical manifestations, and treatment for penile cancer?
- 3. Define cryptorchidism and discuss its implications later in life.
- 4. What are the common causes, clinical features, and treatment strategies for balanitis and balanoposthitis?
- 5. Discuss the pathophysiology, clinical presentation, and management of hypospadias and epispadias.
- 6. What are the prevention strategies for conditions of the male genitalia, including HPV-related diseases?

7. Discuss the relationship between phimosis and balanitis, and their management strategies.



Model Answers:

1. Peyronie's disease is characterized by the formation of fibrous plaques in the tunica albuginea, leading to penile curvature during erection. Management options include oral medication (e.g., pentoxifylline), intralesional injections (e.g., collagenase), or surgery in severe cases.

2. Risk factors for penile cancer include HPV infection, smoking, phimosis, and poor hygiene. It often presents as a painless lump or ulcer on the penis. Treatment options include surgery (circumcision, penectomy), radiation therapy, or chemotherapy.

- 3. Cryptorchidism refers to undescended testes. It can increase the risk of testicular cancer and infertility later in life. Treatment typically involves hormonal therapy or orchiopexy.
- 4. Balanitis and balanoposthitis are often caused by poor hygiene, irritation, or infections (fungal or bacterial). They present with redness, swelling, and possibly discharge. Treatment involves improved hygiene, topical antifungal or antibiotic creams, and circumcision in recurrent cases.
- 5. Hypospadias (urethra opens on the ventral surface) and epispadias (urethra opens on the dorsal surface) are congenital conditions. Treatment typically involves surgical repair to ensure normal urinary and sexual function.
- 6. Prevention strategies include good personal hygiene, safe sex practices (including condom use), and HPV vaccination to reduce the risk of HPV-related penile cancers and dysplasias.
- 7. Phimosis (tight foreskin) can predispose to balanitis due to accumulation of secretions and difficulty with hygiene. Management of phimosis may involve topical steroids to increase skin elasticity, preputioplasty, or circumcision. Balanitis is managed by addressing the underlying cause and improving hygiene.



MCQ Quiz: CONDITIONS OF THE PROSTATE:

- 1. What is the most common non-skin malignancy in men?
 - a) Prostate adenocarcinoma
 - b) Testicular cancer
 - c) Renal cell carcinoma
 - d) Bladder cancer
- 2. What is the most common symptom of benign prostatic hypertrophy (BPH)?
 - a) Dysuria
 - b) Hematuria
 - c) Frequent urination, particularly at night
 - d) Erectile dysfunction
- 3. Chronic bacterial prostatitis is often caused by:
 - a) Escherichia coli
 - b) Staphylococcus aureus
 - c) Streptococcus pneumoniae
 - d) Neisseria gonorrhoeae
- 4. What is the primary diagnostic method for prostate adenocarcinoma?
 - a) Digital rectal examination (DRE)
 - b) Prostate-specific antigen (PSA) testing
 - c) Transrectal ultrasound (TRUS)
 - d) All of the above
- 5. Which drug class is commonly used to treat benign prostatic hypertrophy (BPH)?
 - a) Beta blockers
 - b) Alpha blockers
 - c) Angiotensin-converting enzyme inhibitors
 - d) Diuretics
- 6. What condition is characterized by an enlarged prostate gland, causing urinary symptoms such as frequent urination and difficulty starting and maintaining a steady stream of urine?
 - a) Prostatitis
 - b) Prostate adenocarcinoma
 - c) Benign prostatic hypertrophy (BPH)
 - d) Prostate cyst
- 7. The presence of high levels of which antigen in the blood is suggestive of prostate cancer?
 - a) Alpha-fetoprotein (AFP)
 - b) Human chorionic gonadotropin (hCG)
 - c) Carcinoembryonic antigen (CEA)
 - d) Prostate-specific antigen (PSA)



- 8. Which type of prostatitis is most common?
 - a) Acute bacterial prostatitis
 - b) Chronic bacterial prostatitis
 - c) Chronic prostatitis/chronic pelvic pain syndrome
 - d) Asymptomatic inflammatory prostatitis
- 9. Which risk factor is most strongly associated with prostate adenocarcinoma?
 - a) Alcohol consumption
 - b) Smoking
 - c) Age
 - d) Sexually transmitted infections
- 10. Which type of drug is often used in combination with alpha-blockers for symptomatic relief in benign prostatic hypertrophy (BPH)?
 - a) 5-alpha reductase inhibitors
 - b) Beta blockers
 - c) Calcium channel blockers
 - d) Diuretics
- 11. What is the first-line treatment for chronic bacterial prostatitis?
 - a) Antibiotics
 - b) Surgery
 - c) Pain relievers
 - d) Watchful waiting
- 12. Which pathological finding is characteristic of prostate adenocarcinoma?
 - a) High Gleason score
 - b) Hyperechoic mass on ultrasound
 - c) Low levels of prostate-specific antigen (PSA)
 - d) Presence of bacteria on urine culture

GLOBAL

Answer Key:

- 1. a
- 2. c
- 3. a
- 4. d
- 5. b
- 6. c
- 7. d
- 8. c
- 9. c
- 10. a
- 11. a
- 12. a

SAQ: CONDITIONS OF THE PROSTATE:



- 1. Describe the common signs and symptoms of prostate adenocarcinoma.
- 2. Explain how prostate-specific antigen (PSA) is used in the diagnosis and monitoring of prostate adenocarcinoma.
- 3. What are the typical clinical features of benign prostatic hypertrophy (BPH)?
- 4. What is the pathophysiology behind the urinary symptoms seen in BPH?
- 5. Outline the treatment strategies for BPH.
- 6. Describe the different categories of prostatitis, including their typical causes and treatment approaches.
- 7. Discuss the role of imaging in the diagnosis of prostate conditions, including BPH and prostate adenocarcinoma.



Model Answers:

- Prostate adenocarcinoma often presents with lower urinary tract symptoms, including nocturia, difficulty initiating and stopping urination, and weak urine flow. Advanced disease can present with bone pain, hematuria, or symptoms of metastases.
- 2. PSA is a serum marker used in the detection and monitoring of prostate adenocarcinoma. A high or rapidly rising PSA may indicate the presence of cancer. However, it is not specific and can also be elevated in BPH and prostatitis.
- 3. Typical features of BPH include lower urinary tract symptoms such as frequent urination, nocturia, difficulty starting urination, weak urine flow, and feeling of incomplete bladder emptying.
- 4. BPH is characterized by nonmalignant enlargement of the prostate gland, which can compress the urethra and result in urinary obstruction and retention, causing the common urinary symptoms.
- 5. Treatment for BPH can include lifestyle changes, medications (like alpha blockers and 5-alpha reductase inhibitors), and surgical intervention (like transurethral resection of the prostate or TURP) in severe cases.
- 6. Prostatitis categories include acute bacterial prostatitis (typically caused by E. coli and treated with antibiotics), chronic bacterial prostatitis (recurrent urinary tract infections with the same strain of bacteria; treated with long-term antibiotics), chronic prostatitis/chronic pelvic pain syndrome (most common; pain in the pelvic region for at least 3 months with no known cause), and asymptomatic inflammatory prostatitis (inflammatory cells found in semen or prostate tissue during tests for other conditions).
- 7. Imaging, including transrectal ultrasound and MRI, can provide valuable information about the size of the prostate and presence of lesions suggestive of BPH or cancer. A biopsy may be needed for definitive diagnosis.



MCQ Quiz: CONDITIONS OF THE TESTES:

- 1. Which of the following is a common cause of epididymo-orchitis in men under 35?
 - a) Escherichia coli
 - b) Neisseria gonorrhoeae
 - c) Streptococcus pneumoniae
 - d) Staphylococcus aureus
- 2. What is a common presenting symptom of testicular torsion?
 - a) Unilateral testicular pain with sudden onset
 - b) Fever
 - c) Dysuria
 - d) Lower abdominal pain
- 3. What is the most common cause of testicular atrophy in adult males?
 - a) Torsion of the testis
 - b) Orchitis
 - c) Varicocele
 - d) Age-related changes
- 4. Which condition is characterized by fluid accumulation in the tunica vaginalis, forming a swelling in the scrotum?
 - a) Hydrocele
 - b) Varicocele
 - c) Spermatocele
 - d) Testicular torsion
- 5. What is the most common type of testicular tumour in adult males?
 - a) Leydig cell tumour
 - b) Sertoli cell tumour
 - c) Germ cell tumour
 - d) Gonadoblastoma
- 6. What condition is characterized by a "bag of worms" feeling in the scrotum, often noticeable upon standing?
 - a) Hydrocele
 - b) Varicocele
 - c) Epididymo-orchitis
 - d) Testicular torsion
- 7. Which testicular condition typically requires urgent surgical intervention due to risk of ischemia and loss of the testis?
 - a) Testicular torsion
 - b) Testicular cancer
 - c) Epididymo-orchitis
 - d) Varicocele

- 8. Which condition is characterized by the formation of a benign cyst in the epididymis containing sperm?
 - a) Hydrocele
 - b) Varicocele
 - c) Spermatocele
 - d) Testicular torsion

9. What condition can result from mumps infection in post-pubertal males?

- a) Epididymo-orchitis
- b) Varicocele
- c) Testicular atrophy
- d) Testicular torsion

10. Which marker is often elevated in non-seminomatous germ cell tumors of the testis?

- a) Carcinoembryonic antigen (CEA)
- b) Prostate-specific antigen (PSA)
- c) Alpha-fetoprotein (AFP)
- d) Human chorionic gonadotropin (hCG)

11. What is the first-line treatment for epididymo-orchitis?

- a) Surgery
- b) Antibiotics
- c) Radiation therapy
- d) Chemotherapy

12. Testicular atrophy can lead to which of the following?

- a) Decreased libido
- b) Gynecomastia
- c) Erectile dysfunction
- d) All of the above

GLOBAL

Answer Key:

- 1. b
- 2. a
- 3. c
- 4. a
- 5. c
- 6. b
- 7. a
- 8. c
- 9. a
- 10. c
- 11. b
- 12. d



SAQ: CONDITIONS OF THE TESTES:

- 1. Describe the typical presentation of a patient with testicular torsion and explain why this is a medical emergency.
- 2. What are the common causes of epididymo-orchitis and how is this condition typically managed?
- 3. Describe the difference in presentation between a varicocele and a hydrocele.
- 4. What are some potential complications of untreated testicular atrophy?
- 5. How are testicular tumours typically diagnosed and managed?

6. What is a spermatocele and how does it typically present?

7. Discuss the importance of self-examination in the early detection of testicular tumours.

Model Answers:

- 1. Testicular torsion presents as severe, sudden onset testicular pain, often with nausea and vomiting. It is a medical emergency due to the risk of ischemia and infarction of the affected testis, which can lead to permanent loss of function if not promptly managed.
- 2. Epididymo-orchitis is typically caused by bacterial infections, with different organisms implicated depending on age and sexual activity. It is usually treated with antibiotics and supportive care, including pain management and rest.
- 3. A varicocele presents as a "bag of worms" in the scrotum that is typically more pronounced when standing and may cause a dull ache or heaviness. A hydrocele presents as a painless swelling in the scrotum due to accumulation of serous fluid.
- 4. Untreated testicular atrophy can lead to infertility, loss of libido, erectile dysfunction, and psychological distress. Hormone imbalances can also occur, leading to symptoms such as gynecomastia.
- 5. Testicular tumours are usually detected by self-examination or physical examination by a physician, often presenting as a painless mass. Further diagnostic tests include scrotal ultrasound and blood tests for tumour markers. Treatment usually involves orchiectomy, possibly followed by chemotherapy or radiation therapy, depending on the type and stage of the tumour.
- 6. A spermatocele is a benign cystic accumulation of sperm that forms in the epididymis. It typically presents as a painless, firm lump in the scrotum and is usually asymptomatic.
- 7. Regular self-examination of the testes is important for the early detection of testicular tumours, which often present as painless lumps. Early detection improves the prognosis as testicular tumours are usually highly treatable.





MCQ Quiz: VIRAL SEXUALLY TRANSMITTED INFECTIONS:

- 1. Which sexually transmitted infection is characterized by painful, recurring blisters or sores?
 - a) Hepatitis C
 - b) Human papillomavirus (HPV)
 - c) Human immunodeficiency virus (HIV)
 - d) Herpes simplex virus (HSV)
- 2. What is the most common sexually transmitted infection worldwide?
 - a) Hepatitis C
 - b) Human papillomavirus (HPV)
 - c) Human immunodeficiency virus (HIV)
 - d) Herpes simplex virus (HSV)
- 3. Which virus is linked to the development of cervical cancer?
 - a) Herpes simplex virus (HSV)
 - b) Human papillomavirus (HPV)
 - c) Human immunodeficiency virus (HIV)
 - d) Hepatitis C virus
- 4. What is the main route of transmission for Hepatitis C?
 - a) Sexual contact
 - b) Bloodborne
 - c) Mother to child
 - d) Respiratory droplets
- 5. Antiretroviral therapy (ART) is the standard treatment for which virus?
 - a) Herpes simplex virus (HSV)
 - b) Human papillomavirus (HPV)
 - c) Human immunodeficiency virus (HIV)
 - d) Hepatitis C virus
- 6. Which sexually transmitted infection is typically characterized by asymptomatic periods followed by 'outbreaks'?
 - a) Herpes simplex virus (HSV)
 - b) Human papillomavirus (HPV)
 - c) Human immunodeficiency virus (HIV)
 - d) Hepatitis C virus
- 7. Which virus is linked to the development of liver cirrhosis and liver cancer?
 - a) Herpes simplex virus (HSV)
 - b) Human papillomavirus (HPV)
 - c) Human immunodeficiency virus (HIV)
 - d) Hepatitis C virus



- 8. Which STI can be largely prevented through vaccination?
 - a) Herpes simplex virus (HSV)
 - b) Human papillomavirus (HPV)
 - c) Human immunodeficiency virus (HIV)
 - d) Hepatitis C virus
- 9. Which STI can cause Acquired Immunodeficiency Syndrome (AIDS) if left untreated?
 - a) Herpes simplex virus (HSV)
 - b) Human papillomavirus (HPV)
 - c) Human immunodeficiency virus (HIV)
 - d) Hepatitis C virus
- 10. Genital warts are most commonly caused by which virus?
 - a) Herpes simplex virus (HSV)
 - b) Human papillomavirus (HPV)
 - c) Human immunodeficiency virus (HIV)
 - d) Hepatitis C virus

11. Which of the following is a complication of chronic Hepatitis C infection?

- a) Cervical cancer
- b) Liver cirrhosis
- c) Genital warts
- d) Blisters or sores

12. Condoms provide effective protection against which virus?

- a) Herpes simplex virus (HSV)
- b) Human papillomavirus (HPV)
- c) Human immunodeficiency virus (HIV)
- d) All of the above

- 1. d
- 2. b
- 3. b
- 4. b
- 5. c
- 6. a
- 7. d
- 8. b
- 9. c
- 10. b
- 11. b
- 12. d



SAQ: VIRAL SEXUALLY TRANSMITTED INFECTIONS:

- 1. Explain how Human Immunodeficiency Virus (HIV) affects the immune system.
- 2. Discuss the clinical features and management of Herpes Simplex Virus (HSV) infection.
- 3. How does Human Papillomavirus (HPV) contribute to the development of cervical cancer?
- 4. What is the significance of the Hepatitis C virus's high mutation rate?
- 5. Discuss the importance of antiretroviral therapy (ART) in the management of HIV.

- 6. What preventative measures can reduce the risk of sexually transmitted HPV infection?
- 7. Discuss the public health importance of testing and treating STIs, using specific examples.

- 1. HIV attacks CD4 cells, a type of white blood cell critical in protecting the body from infections. As the HIV infection progresses, the immune system becomes weaker, and the person can develop a variety of infections and diseases. Untreated, this leads to AIDS, characterized by the inability of the body to fight off life-threatening infections and diseases.
- 2. HSV infection often presents with painful sores or blisters on the skin or mucous membranes, typically around the mouth or genitals. After the initial infection, HSV remains dormant in nerve cells and can reactivate, causing recurrent outbreaks. Antiviral medications can be used to manage outbreaks and reduce the risk of transmission.
- 3. Certain high-risk types of HPV can cause persistent infection, which can lead to the development of precancerous changes in the cervix. If left untreated, these changes can progress to cervical cancer over time.
- 4. The high mutation rate of the Hepatitis C virus allows it to evade the immune system and develop resistance to antiviral drugs. This makes it challenging to develop a vaccine and to treat the infection effectively.
- 5. Antiretroviral therapy (ART) works by reducing the amount of HIV in the body, helping the immune system recover and prevent HIV-related diseases. ART also reduces the risk of transmitting HIV to others.
- 6. The use of condoms during sexual activity can reduce the risk of HPV infection. Additionally, HPV vaccines are highly effective in preventing infections with the types of HPV most commonly linked to cervical cancer and genital warts.
- 7. Testing and treating STIs is crucial for preventing complications and transmission. For example, untreated gonorrhea or chlamydia can lead to pelvic inflammatory disease in women, potentially causing infertility. Additionally, people with untreated STIs, such as HIV or syphilis, can unknowingly transmit the infection to others. Public health initiatives that promote testing, treatment, and prevention can reduce the prevalence and impact of STIs in the community.

Get Direction



MCQ Quiz: BACTERIAL SEXUALLY TRANSMITTED INFECTIONS:

- 1. Which bacterial STI is known for its distinct stages of infection, including primary, secondary, and tertiary stages?
 - a) Chlamydia
 - b) Gonorrhea
 - c) Syphilis
 - d) Donovanosis
- 2. Which bacterial STI is the most common in the United States?
 - a) Chlamydia
 - b) Gonorrhea
 - c) Syphilis
 - d) Donovanosis
- 3. Which bacterial STI is characterized by painless ulcers in the genital area?
 - a) Chlamydia
 - b) Gonorrhea
 - c) Syphilis
 - d) Donovanosis
- 4. Pelvic inflammatory disease (PID) is a potential complication of which of the following STIs?
 - a) Chlamydia
 - b) Gonorrhea
 - c) Both Chlamydia and Gonorrhea
 - d) Donovanosis
- 5. Donovanosis is primarily seen in which geographical areas?
 - a) United States and Europe
 - b) Africa and the Middle East
 - c) South America and Caribbean
 - d) Tropical and subtropical regions
- 6. Which bacterial STI can lead to infertility if left untreated?
 - a) Chlamydia
 - b) Gonorrhea
 - c) Syphilis
 - d) All of the above
- 7. Which bacterial STI can cause symptoms like a sore throat, if contracted orally?
 - a) Chlamydia
 - b) Gonorrhea
 - c) Syphilis
 - d) Donovanosis



- 8. Which bacterial STI is also known as "the clap"?
 - a) Chlamydia
 - b) Gonorrhea
 - c) Syphilis
 - d) Donovanosis
- 9. Which bacterial STI can be passed from an infected mother to her baby during childbirth?
 - a) Chlamydia
 - b) Gonorrhea
 - c) Both Chlamydia and Gonorrhea
 - d) Donovanosis
- 10. Which bacterial STI is associated with granuloma inguinale, causing progressive ulcerative lesions in the genital area?
 - a) Chlamydia
 - b) Gonorrhea
 - c) Syphilis
 - d) Donovanosis
- 11. Untreated ______ can eventually cause serious effects on the heart, brain, and other organs of the body.
 - a) Chlamydia
 - b) Gonorrhea
 - c) Syphilis
 - d) Donovanosis
- 12. In females, ______ often presents with no symptoms, making it difficult to
 - diagnose without proper screening.
 - a) Chlamydia
 - b) Gonorrhea
 - c) Syphilis
 - d) Donovanosis

- 1. c
- 2. a
- 3. c
- 4. c
- 5. d
- 6. d
- 7. b
- 8. b
- 9. c
- 10. d
- 11. c
- 12. a



SAQ: BACTERIAL SEXUALLY TRANSMITTED INFECTIONS:

- 1. Describe the pathophysiology of chlamydia and how it leads to complications such as infertility in women.
- 2. What are the symptoms of primary, secondary, and tertiary syphilis?
- 3. How is donovanosis diagnosed and treated?
- 4. Describe the typical clinical presentation of gonorrhea in males and females.
- 5. Explain how PID develops and describe the common signs and symptoms.
- 6. What measures can be taken to prevent the transmission of bacterial STIs?

7. Discuss the role of screening programs in controlling bacterial STIs.

 Chlamydia is caused by the bacterium Chlamydia trachomatis. It invades the cells of the cervix in women and the urethra in men, leading to an inflammatory response. In women, the infection can ascend to the uterus and fallopian tubes, causing pelvic inflammatory disease (PID). PID can lead to scarring and blockage of the fallopian tubes, causing infertility.

2. Primary syphilis presents with a painless ulcer or chancre at the site of inoculation. Secondary syphilis can manifest with skin rash, mucous membrane lesions, and lymphadenopathy. Tertiary syphilis may involve any organ system and can present with gummas, cardiovascular syphilis, or neurosyphilis.

- 3. Donovanosis is diagnosed through clinical examination and microscopy of tissue samples, which shows the characteristic Donovan bodies. Treatment is typically with antibiotics such as doxycycline or azithromycin.
- 4. Men with gonorrhea typically present with urethral discharge and dysuria, while many women are asymptomatic or have non-specific symptoms like vaginal discharge or lower abdominal pain.
- 5. PID develops when bacteria move up from the vagina or cervix into the uterus, fallopian tubes, or ovaries. Symptoms can include lower abdominal pain, fever, unusual vaginal discharge, painful intercourse, painful urination, and irregular menstrual bleeding.
- 6. Preventative measures against bacterial STIs include using condoms during sex, reducing the number of sexual partners, and regular STI screening.
- 7. Screening programs are crucial in controlling bacterial STIs, especially for infections like chlamydia and gonorrhea, which often have no symptoms. Early detection allows for treatment before complications develop, and helps prevent further transmission of the infection.



MCQ Quiz: CONTRACEPTION OPTIONS:



- 1. Which contraceptive method also provides protection against sexually transmitted infections?
 - a) Oral contraceptive pills
 - b) Intrauterine device
 - c) Condoms
 - d) Implant
- 2. What is the primary mechanism of action for combined oral contraceptives (COCs)?
 - a) Inhibiting ovulation
 - b) Creating a physical barrier between sperm and egg
 - c) Spermicidal action
 - d) Stimulating ovulation
- 3. Which contraceptive method can have the added benefit of reducing menstrual pain and heavy bleeding?
 - a) Combined oral contraceptives
 - b) Condoms
 - c) Cervical cap
 - d) Diaphragm
- 4. Which long-acting reversible contraceptive (LARC) method can be used for up to 10 years?
 - a) The patch
 - b) Copper IUD
 - c) Progestin-only pill
 - d) Condoms
- 5. Which contraceptive method is best suited for women who are breastfeeding?
 - a) Combined oral contraceptives
 - b) Progestin-only pill
 - c) Diaphragm
 - d) Copper IUD
- 6. What is a potential drawback of using an intrauterine device (IUD)?
 - a) Can cause irregular bleeding
 - b) Must be taken daily
 - c) Offers no protection against STIs
 - d) Both A and C
- 7. Which contraception method requires a precise schedule of use for effectiveness?
 - a) Implant
 - b) Copper IUD
 - c) Condoms
 - d) Progestin-only pill



- 8. What is a potential advantage of using the contraceptive implant?
 - a) It can be used for up to 10 years
 - b) It provides protection against STIs
 - c) It doesn't require regular attention
 - d) It has no side effects
- 9. Emergency contraceptive pills (ECPs) are most effective if taken:
 - a) Within 72 hours after unprotected sex
 - b) Within 7 days after unprotected sex
 - c) Anytime within the woman's menstrual cycle
 - d) Only before ovulation
- 10. Which contraceptive method may also offer protection against pelvic inflammatory disease?
 - a) Combined oral contraceptives
 - b) Progestin-only pill
 - c) Copper IUD
 - d) Condoms
- 11. The injectable contraceptive Depo-Provera is based on which hormone?
 - a) Oestrogen
 - b) Progesterone
 - c) Testosterone
 - d) Prolactin
- 12. Which contraceptive method requires a healthcare professional for insertion and removal?
 - a) Condoms
 - b) Oral contraceptive pills
 - c) Intrauterine device
 - d) Fertility awareness method

- 1. c
- 2. a
- 3. a
- 4. b
- 5. b
- 6. d
- 7. d
- 8. c
- 9. a
- 10. d
- 11. b
- 12. c

SAQ: CONTRACEPTION OPTIONS:



- 1. Explain how combined oral contraceptives work and discuss their benefits and potential side effects.
- 2. Discuss the use, advantages, and disadvantages of intrauterine devices (IUDs).
- 3. Compare the effectiveness, use, and potential side effects of the progestin-only pill and the combined oral contraceptive pill.
- 4. How do barrier methods such as condoms and diaphragms prevent pregnancy? What are the benefits and drawbacks of these methods?
- 5. Describe the mechanism, benefits, and drawbacks of the contraceptive implant.
- 6. Discuss the use, effectiveness, and potential side effects of emergency contraception.

7. Explain the benefits and potential side effects of Depo-Provera, an injectable contraceptive.



1. Combined oral contraceptives contain both estrogen and progestin. They work by preventing ovulation, thickening cervical mucus to hinder sperm, and thinning the endometrium. Benefits include regulation of menstrual cycles, reduction in menstrual cramps, and decreased risk of ovarian and endometrial cancers. Side effects can include nausea, breast tenderness, and increased risk of blood clots.

- 2. IUDs are small devices inserted into the uterus. Copper IUDs work by creating a toxic environment for sperm and egg, while hormonal IUDs thicken cervical mucus and thin the endometrium. Advantages include long-lasting contraception (5-10 years) and no need for daily attention. Disadvantages can include discomfort during insertion, irregular bleeding, and potential expulsion.
- 3. The progestin-only pill works by thickening cervical mucus and thinning the endometrium, and in some cases, preventing ovulation. It is suitable for women who cannot take estrogen. Side effects can include irregular bleeding, and it must be taken at the same time each day. The combined pill, in addition to these effects, consistently inhibits ovulation. It can have additional side effects like blood clots.
- 4. Barrier methods work by physically preventing sperm from reaching the egg. Condoms also protect against STIs. Drawbacks can include breakage or slippage, and some people may have latex allergies. Diaphragms, used with spermicide, can cause urinary tract infections or allergic reactions.
- 5. The contraceptive implant is a small rod inserted under the skin that releases progestin. It prevents ovulation, thickens cervical mucus, and thins the endometrium. Benefits include long-lasting contraception (up to 3 years) and no need for daily attention. Drawbacks can include irregular bleeding, mood changes, and weight gain.
- 6. Emergency contraception works either by preventing or delaying ovulation (morning-after pill) or by creating an environment unsuitable for implantation (copper IUD). It is most effective when taken as soon as possible after unprotected sex. Side effects can include nausea and irregular bleeding.

7. Depo-Provera is an injectable form of contraception that provides protection for 3 months. It works by preventing ovulation, thickening cervical mucus, and thinning the endometrium. Benefits include its effectiveness and not needing daily attention. Drawbacks can include weight gain, decreased bone density, and potential delay in return of fertility after stopping use.



MCQ Quiz: INFERTILITY:

- 1. What is the definition of infertility in a couple?
 - a) Inability to conceive after 3 months of regular unprotected intercourse
 - b) Inability to conceive after 6 months of regular unprotected intercourse
 - c) Inability to conceive after 1 year of regular unprotected intercourse
 - d) Inability to conceive after 2 years of regular unprotected intercourse
- 2. Which of the following is not a common cause of infertility in women?
 - a) Polycystic ovary syndrome
 - b) Uterine fibroids
 - c) Early menopause
 - d) Hypertension
- 3. In men, the most common cause of infertility is related to:
 - a) Sperm production and quality
 - b) Age
 - c) Alcohol consumption
 - d) Sexually transmitted infections
- 4. What initial test is generally done to evaluate a man's fertility?
 - a) Semen analysis
 - b) Hormone testing
 - c) Imaging
 - d) Genetic testing
- 5. Ovulation prediction kits measure which hormone in a woman's urine?
 - a) Estrogen
 - b) Progesterone
 - c) Luteinizing hormone
 - d) Follicle-stimulating hormone
- 6. Which assisted reproductive technology involves the direct injection of a single sperm into an egg?
 - a) Intrauterine insemination (IUI)
 - b) In vitro fertilization (IVF)
 - c) Intracytoplasmic sperm injection (ICSI)
 - d) Gamete intrafallopian transfer (GIFT)
- 7. What is the major risk associated with the use of fertility drugs?
 - a) Multiple pregnancies
 - b) Premature birth
 - c) Increased risk of birth defects
 - d) Increased risk of miscarriage
- 8. In which situation is surrogacy typically considered?
 - a) The woman has no ovaries
 - b) The woman has a condition making pregnancy unsafe
 - c) The man has low sperm count
 - d) The woman is over the age of 35



9. What is the main disadvantage of assisted reproductive technology?

- a) It is not effective
- b) It can only be used by women
- c) It is expensive and not always covered by insurance
- d) It always results in multiple pregnancies
- 10. Which procedure involves placing sperm directly into a woman's uterus when she is ovulating?
 - a) In vitro fertilization (IVF)
 - b) Intracytoplasmic sperm injection (ICSI)
 - c) Intrauterine insemination (IUI)
 - d) Gamete intrafallopian transfer (GIFT)

11. In case of IVF, what does 'egg retrieval' refer to?

- a) The process of collecting mature eggs from a woman's ovaries
- b) The transfer of fertilized eggs into the uterus
- c) The examination of the eggs under a microscope
- d) The process of freezing and storing eggs for future use
- 12. Which option is the most common cause of infertility?
 - a) Male factors
 - b) Female factors
 - c) Both male and female factors
 - d) Unexplained factors

- 1. c
- 2. d
- 3. a
- 4. a
- 5. c
- 6. c
- 7. a
- 8. b
- 9. c
- 10. c
- 11. a
- 12. c

SAQ: INFERTILITY:



- 1. Discuss the workup and initial evaluation for a couple presenting with infertility.
- 2. Describe the most common causes of infertility in women.
- 3. Explain the most common causes of male infertility.
- 4. Discuss the process and purpose of a semen analysis in the evaluation of male infertility.
- 5. Explain the principle and indications of In Vitro Fertilization (IVF).
- 6. Discuss the role of Intracytoplasmic Sperm Injection (ICSI) in assisted reproductive technology.

7. Discuss the risks and benefits of using fertility drugs in the treatment of infertility.



- The initial workup for a couple presenting with infertility involves a detailed medical history from both partners, including sexual history, menstrual history, past medical/surgical history, lifestyle factors, and any past fertility issues. This is followed by a physical examination, semen analysis for the male, and assessment of ovulation and ovarian reserve, tubal patency and uterine evaluation for the female.
- The most common causes of infertility in women include ovulation disorders (such as polycystic ovary syndrome and primary ovarian insufficiency), tubal occlusion (often due to untreated sexually transmitted infections), uterine or cervical abnormalities, and unexplained infertility.
- 3. Common causes of male infertility include problems with sperm production (quantity or quality), anatomical problems (like blockage in the sperm transport system), hormonal issues, and genetic disorders. Lifestyle factors, such as smoking and excessive alcohol use, can also contribute to male infertility.
- Semen analysis is a key part of the initial evaluation of male fertility. It assesses sperm concentration, motility, morphology, volume, and presence of any infection. It helps identify if the problem lies in sperm production or delivery.
- 5. IVF involves stimulation of the ovaries to produce multiple eggs, which are then retrieved and fertilized with sperm in a laboratory setting. The resulting embryos are then transferred into the woman's uterus. Indications for IVF include tubal disease, male factor infertility, unexplained infertility, and failure of other treatments.
- 6. ICSI is a specialized form of IVF that involves the injection of a single sperm directly into an egg. It's mainly used in cases of severe male infertility where sperm count or quality is so poor that they cannot penetrate the egg on their own.
- 7. Fertility drugs stimulate the ovaries to produce multiple eggs to increase the chances of conception. The benefits include increased rate of ovulation and therefore increased chance of pregnancy. Risks include ovarian hyperstimulation syndrome, multiple pregnancies, and a small increase in the risk of ovarian cancer with long term use.

MCQ Quiz: BREASTFEEDING:



- 1. According to the World Health Organization, exclusive breastfeeding is recommended up to the age of:
 - a) 3 months
 - b) 6 months
 - c) 9 months
 - d) 12 months
- 2. Which of the following is not a known benefit of breastfeeding for the baby?
 - a) Reduced risk of asthma and allergies
 - b) Enhanced cognitive development
 - c) Decreased risk of SIDS
 - d) Increased risk of obesity
- 3. Which breastfeeding complication involves inflammation of the breast tissue due to milk stasis and is often complicated by infection?
 - a) Engorgement
 - b) Nipple thrush
 - c) Mastitis
 - d) Blocked duct
- 4. In terms of best practice, what is the appropriate response when a baby is 'cluster feeding'?
 - a) Introduce formula to satiate the baby
 - b) Follow the baby's lead and allow for frequent feeds
 - c) Try to spread out feeding sessions more evenly
 - d) Increase the mother's fluid intake
- 5. Which of the following is not a recommended way to establish a good latch during breastfeeding?
 - a) The baby's mouth should be wide open before the breast is introduced
 - b) The baby's chin should be touching the breast
 - c) The mother should hold the back of the baby's head to guide it towards the breast
 - d) The baby's lips should be flanged outward
- 6. Which of the following is not considered a common difficulty during breastfeeding?
 - a) The baby has tongue-tie
 - b) The mother has a low milk supply
 - c) The mother is experiencing breast engorgement
 - d) The baby sleeps through the night without feeding
- 7. For mothers unable to breastfeed, what is generally considered the next best option?
 - a) Cow's milk
 - b) Goat's milk
 - c) Infant formula
 - d) Soy milk



8. Which of the following could indicate a problem with milk supply?

- a) The baby is feeding eight times or more each day
- b) The baby's weight gain is on track
- c) The baby has fewer than six wet diapers a day
- d) The baby seems satisfied after a feed
- 9. What strategy can help alleviate symptoms of engorgement?
 - a) Applying cold compresses between feeds
 - b) Limiting the time the baby spends at the breast
 - c) Avoiding breastfeeding for a few hours to let the breasts rest
 - d) Reducing fluid intake to slow milk production
- 10. Breastfeeding can lower the risk of which condition in mothers?
 - a) Breast cancer
 - b) Rheumatoid arthritis
 - c) Alzheimer's disease
 - d) Osteoporosis
- 11. Breastfeeding promotes the release of which hormone, fostering a stronger motherinfant bond?
 - a) Adrenaline
 - b) Oxytocin
 - c) Dopamine
 - d) Serotonin
- 12. What is one of the potential challenges of breastfeeding in public?
 - a) Needing to schedule feeding times
 - b) Societal attitudes and lack of support
 - c) The baby feeding less efficiently
 - d) Decreased milk supply

- 1. b
- 2. d
- 3. c
- 4. b
- 5. c
- 6. d
- 7. c
- 8. c
- 9. a
- 10. a
- 11. b
- 12. b

SAQ: BREASTFEEDING:



- 1. Describe the recommended position and latch for effective breastfeeding.
- 2. Discuss the common challenges a new mother may face during the initial stages of breastfeeding.
- 3. Explain the steps a mother can take to manage engorgement.
- 4. What are the potential health benefits of breastfeeding for both the mother and the baby?
- 5. Describe the management strategies for mastitis.

6. Explain the advantages and disadvantages of using infant formula as an alternative to breastfeeding.

7. What measures can be implemented to support mothers who wish to breastfeed in public?

- 1. An effective breastfeeding position involves the mother being comfortable and the baby being held close with its whole body facing the mother. The baby's nose should be opposite the nipple. A good latch involves the baby's mouth covering not just the nipple but a large part of the areola as well, with the lips flanged outward and the chin touching the breast.
- 2. Common challenges during the initial stages of breastfeeding can include sore nipples, engorgement, difficulties with latching, low milk supply or oversupply, and anxiety about the baby getting enough milk.
- Engorgement can be managed by frequent breastfeeding or expressing milk to relieve fullness, applying cold compresses between feeds, using warm compresses or a warm shower before feed to help milk flow, and massaging the breast during feeding.
- 4. Breastfeeding benefits for the baby include optimal nutrition, immune protection, and enhanced bonding with the mother. For the mother, benefits include faster recovery from childbirth, decreased risk of certain cancers, and potential cost savings.
- 5. Management strategies for mastitis include continued breastfeeding or milk expression, applying heat before feeding and cold packs after feeding, rest and hydration, and antibiotic therapy if there's a confirmed infection.
- 6. Advantages of infant formula include flexibility in feeding schedule, anyone can feed the baby, and knowing how much the baby has consumed. Disadvantages include the absence of antibodies present in breast milk, potential for intolerance or allergies, and cost.
- 7. Measures to support breastfeeding in public can include laws protecting the rights of mothers to breastfeed in any location, providing comfortable designated nursing spaces, and promoting public education to reduce stigma and support acceptance.

