



Q-TEST: ANSWER KEY FOR PRACTICE TEST 1 WITH RATIONALES

- 1. B) 25%** Rationale: According to NAMS guidelines, 1/4 (25%) of women require long-term care after hip fracture, while 1/2 (50%) experience long-term loss of mobility.
- 2. B) Lower bone mineral density** Rationale: Asians have lower BMD than whites, while blacks have higher BMD than whites.
- 3. B) 38% osteoporotic fractures, 68% hip fractures** Rationale: Excessive alcohol consumption significantly increases fracture risk with specific percentages for different fracture types.
- 4. B) 300 mg** Rationale: Without dairy products, typical diet provides approximately 300 mg of calcium daily, well below recommended intake.
- 5. B) Osteosarcoma** Rationale: PTH receptor agonists carry a black box warning for osteosarcoma risk, particularly in animal studies.
- 6. B) Hypercalcemia** Rationale: PTH receptor agonists can worsen hypercalcemia and should be used cautiously in patients with this condition.
- 7. C) Patients with incredibly high fracture risk** Rationale: PTH receptor agonists are reserved for patients with very high fracture risk, typically after other treatments.
- 8. B) Vertebral fractures** Rationale: Raloxifene is particularly effective for vertebral fracture prevention but less effective for other fracture types.
- 9. C) 1 in 1000 after 2-3 years** Rationale: The risk of atypical femur fractures is relatively low at 1 in 1000 after 2-3 years of bisphosphonate use.
- 10. A) -1 to -2.49** Rationale: Osteopenia is defined as T-score between -1 and -2.49, with normal being greater than -1.
- 11. B) Involuntary urine loss with increased intra-abdominal pressure** Rationale: SUI is involuntary loss with activities like cough/sneeze that increase intra-abdominal pressure, usually in smaller amounts.



- 12. B) 100 ml or less** Rationale: Normal PVR is 100 ml or less; >200 ml is abnormal; 100-200 ml should be repeated on different day.
- 13. B) Large volume loss preceded by strong urge** Rationale: UUI involves large volumes that soak through pads/clothes, preceded by strong urge, due to detrusor overactivity.
- 14. C) >8 voids per 24 hours** Rationale: OAB includes urinary urgency with frequency >8 voids/24h and sometimes nocturia (≥ 2 voids per night).
- 15. B) Incontinence** Rationale: The Pyridium challenge is a method used to test for incontinence by tracking urine color changes.
- 16. C) Hormonal disorders** Rationale: The four types are: Desire (HSDD), Arousal (FSAD), Female orgasmic disorder (FOD), and Pain (dyspareunia/vaginismus).
- 17. B) FSIAD** Rationale: Combined into FSIAD - Female Sexual Interest/Arousal Disorder.
- 18. C) Circulating androgens** Rationale: Circulating androgens are most associated with sexual interest and arousal in women.
- 19. B) Bremelanotide and Flibanserin** Rationale: Bremelanotide (Vyleesi) and Flibanserin (Addyi) are the two FDA-approved treatments for HSDD.
- 20. B) Directed masturbation** Rationale: Directed masturbation is the primary treatment approach for FOD to help women learn their sexual response.
- 21. B) The period around menopause with endocrinologic and somatic changes** Rationale: Climacteric describes the transitional period with endocrinologic, somatic, and psychological changes around menopause.
- 22. B) 45** Rationale: Early menopause is LMP before age 45; late menopause is LMP after age 54.
- 23. B) Luteal phase** Rationale: During transition, more time is spent in luteal phase, leading to more PMS symptoms and frequent periods.
- 24. B) Lower** Rationale: Chinese and Japanese women have lower estrogen levels than white, black, and Hispanic women.



- 25. B) Elevated FSH** Rationale: FSH becomes elevated after menopause due to loss of negative feedback from ovarian hormones.
- 26. C) It measures ovarian follicle reserve** Rationale: AMH is produced by granulosa cells and measures ovarian follicle reserve, making it a superior marker.
- 27. B) Day 3 - elevated estrogen can suppress FSH** Rationale: Check FSH on day 3 because elevated estrogen later in cycle can suppress FSH, giving falsely normal levels.
- 28. B) 25** Rationale: AMH peaks at age 25; testing before age 25 isn't helpful as it's influenced by exogenous hormones.
- 29. B) Higher** Rationale: Black women typically have higher FSH levels compared to other ethnic groups.
- 30. B) Decrease** Rationale: SHBG decreases while testosterone stays relatively the same, increasing the free androgen index by 80%.
- 31. C) Japanese women** Rationale: Japanese women have the least likelihood of severe hot flashes, while Black women have the most frequent and longest duration.
- 32. C) 10 years** Rationale: The median duration of hot flashes is 10 years, though this varies significantly among individuals.
- 33. B) Blocks neurokinin B from binding to KNDy neurons** Rationale: Fezolinetant blocks neurokinin B (NKB) from binding to KNDy neurons to modulate thermoregulatory center activity.
- 34. C) Increased insulin sensitivity** Rationale: Hot flash theories include lower estrogen, narrowed thermoregulation, increased GnRH, neurokinin B changes, but not insulin sensitivity.
- 35. B) Paroxetine 7.5 mg** Rationale: Paroxetine 7.5 mg has proven efficacy in randomized controlled trials for VMS treatment.
- 36. B) Only if symptomatic** Rationale: Low-grade VIN (LSIL) is treated only if symptomatic, while high-grade requires referral for excision/ablation.
- 37. B) Squamous cell carcinoma** Rationale: Squamous cell carcinoma is the most common type of vulvar cancer.



- 38. C) Paget's disease** Rationale: Paget's disease is commonly misdiagnosed as eczema/dermatitis but won't respond to steroids; requires screening for associated cancers.
- 39. B) Stress incontinence** Rationale: Systemic estrogen worsens stress incontinence; local estrogen might help, but systemic does not.
- 40. B) Femring** Rationale: Femring delivers the highest dose of topical vaginal estrogen among available preparations.
- 41. B) Bacterial vaginosis** Rationale: BV remains the most common cause of vulvovaginitis even in postmenopausal women.
- 42. B) Desquamative Inflammatory Vaginitis** Rationale: DIV presents with burning, yellow/brown discharge, dyspareunia unresponsive to ET; treat with clindamycin + hydrocortisone + ET.
- 43. C) Rarely** Rationale: Systemic ET rarely causes fibroids to resume growth; they often shrink after menopause.
- 44. C) Memory and concentration difficulties are common** Rationale: Difficulty concentrating and remembering are common symptoms during menopause transition.
- 45. B) Mediterranean diet with olive oil + tai chi** Rationale: Mediterranean diet with olive oil plus tai chi shows small benefits for global cognition and memory.
- 46. B) Improve due to stable estrogen levels** Rationale: Migraines typically improve during pregnancy as estrogen levels stabilize.
- 47. C) Resolve completely** Rationale: Menstrual migraines resolve completely after menopause due to cessation of hormonal fluctuations.
- 48. B) >2 per week or severe affecting QOL** Rationale: Consider preventative treatment if migraines occur >2 times per week or are severe enough to affect quality of life.
- 49. B) Heart disease and with NSAIDs** Rationale: Triptans are contraindicated in heart disease, as are NSAIDs in this population.
- 50. B) No combined oral contraceptives; caution without aura** Rationale: Migraine with aura contraindicates COCs; use caution in those without aura due to stroke risk.



- 51. B) Hashimoto's thyroiditis** Rationale: Hashimoto's thyroiditis is the most common thyroid disorder affecting women.
- 52. C) TSH upper limit of normal to 10** Rationale: Treat subclinical hypothyroidism when TSH is between upper limit of normal and 10.
- 53. B) Cold nodules** Rationale: Cold thyroid nodules (those that don't take up radioactive iodine) are more likely to be malignant than hot nodules.
- 54. B) 0.4-4.5** Rationale: Normal TSH range is 0.4-4.5; if elevated, check FT4 and antithyropoxidase antibodies.
- 55. B) Monitor TSH in 6-8 weeks; may need to increase levothyroxine** Rationale: Oral estrogen increases TBG, which reduces FT4, so levothyroxine dose may need to be increased.
- 56. B) 10-12%** Rationale: Women lose 10-12% of bone mass during menopause transition (equivalent to 1 T-score), then 0.5%/year after.
- 57. C) Less than -2.5** Rationale: Osteoporosis is defined as T-score less than -2.5 in postmenopausal women.
- 58. B) In premenopausal women to compare to same age/gender/ethnicity** Rationale: Z-score compares to average BMD of same age, gender, and ethnicity; used in premenopausal women.
- 59. B) 10-year fracture risk** Rationale: FRAX predicts 10-year probability of hip or major osteoporotic fracture; normal is <10%.
- 60. B) All women 65 and older; younger postmenopausal with risk factors** Rationale: Screen all women ≥ 65 and younger postmenopausal women with one or more risk factors.
- 61. C) A few months** Rationale: Benefits of estrogen therapy abate within a few months of discontinuation.
- 62. C) Estrogen agonists/antagonists with tissue-specific effects** Rationale: SERMs have weak estrogen agonist properties in bone while functioning as antiestrogens in reproductive tissues.
- 63. C) Denosumab** Rationale: Denosumab (Prolia) is a RANK ligand inhibitor used after 5 years of bisphosphonates for additional bone gains.



64. B) 30% Rationale: After 3 years, raloxifene reduces vertebral fracture risk by 30% and also reduces invasive breast cancer risk.

65. C) Osteoporosis Rationale: Osteoporosis is an indication, not contraindication for HRT. Contraindications include endometrial CA, breast CA, VTE, liver disease.

66. C) Coronary artery disease Rationale: Premature menopause increases risk for CAD, abdominal adiposity, diabetes, and dyslipidemia.

67. B) Improves lean body mass, reduces abdominal fat, improves insulin resistance
Rationale: HRT improves lean body mass, reduces abdominal fat, improves insulin resistance, lipids, and decreases BP in non-diabetic women.

68. B) Increases HDL and triglycerides Rationale: Oral estrogen increases HDL and triglycerides, also increases coagulation factors and some inflammatory markers.

69. B) Fat increases, lean mass decreases Rationale: Rate of fat gain doubles and lean mass declines during menopause transition; stabilizes 2 years after FMP.

70. B) Pre-transition increase, transition steady increase, post-menopause no change
Rationale: Weight increases before and during transition, then stabilizes post-menopause.

71. C) At least 3x per week for 3 months Rationale: Insomnia is defined as sleep complaints $\geq 3x$ per week for ≥ 3 months with distress or impaired daytime functioning.

72. A) Zolpidem, zaleplon, zopiclone Rationale: Z-drugs include zolpidem, zaleplon, and zopiclone (not available in US); they shorten sleep onset time.

73. B) Promptly treat with antidepressants and psychotherapy, monitor closely Rationale: Women with multiple severe depressive episodes require prompt treatment with antidepressants and close monitoring.

74. C) SCOFF Rationale: SCOFF is the screening tool for eating disorders; GAD-7 for anxiety, PHQ-9 for depression, CAGE for alcohol.

75. C) 30% Rationale: By age 80, women have lost approximately 30% of their bone mass.



- 76. C) Hormonal, infectious, autoimmune** Rationale: PALM-COEIN: Polyp, Adenomyosis, Leiomyoma, Malignancy/hyperplasia, Coagulopathy, Ovulatory dysfunction, Endometrial, Iatrogenic, Not classified.
- 77. B) Usually benign but small minority have atypical/malignant features** Rationale: Most endometrial polyps are benign, but a small percentage may have atypical or malignant features requiring evaluation.
- 78. C) Lining <4 mm** Rationale: EMB is not needed when endometrial lining is <4 mm; >4 mm requires evaluation in postmenopausal women.
- 79. C) Immediate hysterectomy** Rationale: Conservative management includes COCs (4-day, not 7-day placebo), IUD, NSAIDs; surgery is reserved for failed medical management.
- 80. B) 500 mg TID x 5 days** Rationale: Mefenamic acid 500 mg TID x 5 days; ibuprofen 600 mg Q6H or 800 mg Q8H for first 3 days.
- 81. B) Pruritic purple polygonal planar papules and plaques** Rationale: Lichen planus presents as pruritic purple polygonal planar papules/plaques; treat only when symptomatic with steroids.
- 82. B) An autoimmune inflammatory condition with antibodies against extracellular matrix** Rationale: LS is autoimmune with antibodies against extracellular matrix; treat with topical steroids (clobetasol).
- 83. B) Leukoplakie with thick, leathery vulvar skin from chronic scratching** Rationale: LSC shows hyperplasia of vulvar squamous epithelium from chronic irritation; treat with triamcinolone 0.1%.
- 84. C) Minoxidil 2% solution or 5% foam daily** Rationale: Topical minoxidil is first-line treatment for FPHL; systemic options include spironolactone (finasteride not approved for women).
- 85. C) Vitamin B12, folate** Rationale: Check CBC, CMP, thyroid, iron, ferritin, zinc for FPHL evaluation; B12/folate not routinely recommended.
- 86. C) Increase caffeine intake** Rationale: Avoid caffeine, alcohol, smoking; try sleep hygiene, relaxation, warm baths, vibration, massage for RLS.



- 87. A) Pramipexole and ropinirole** Rationale: Pramipexole and ropinirole are first-line pharmacologic treatments for restless leg syndrome.
- 88. C) Gradual onset over months** Rationale: Red flags include systemic symptoms, neurologic symptoms, sudden onset, but gradual onset over months is less concerning.
- 89. B) Beta blockers, antiepileptics, TCAs** Rationale: Preventative therapy includes propranolol, divalproex, amitriptyline; triptans and NSAIDs are abortive therapy.
- 90. C) Acute infections only** Rationale: Consider menopause, arthritis, rheumatologic conditions, endocrine causes (vitamin D deficiency, thyroid); not just acute infections.
- 91. B) Loss of ovarian follicular activity before age 40** Rationale: POI is loss of ovarian follicular activity prior to age 40; prevalence is 1% in US (early menopause 3%).
- 92. B) Oligomenorrhea for 4 months and FSH >25 on 2 occasions 4 weeks apart** Rationale: POI diagnosis requires oligo/amenorrhea ≥ 4 months AND FSH >25 on 2 occasions ≥ 4 weeks apart.
- 93. B) PRL, FSH, E2, TSH, pregnancy test** Rationale: Check prolactin, FSH, estradiol, TSH, and pregnancy test for women <40 missing 3+ cycles.
- 94. B) 100 mcg patch, 1.25 mg CEE, or 2 mg oral E2** Rationale: Age 12: 100 mcg patch, 1.25 mg CEE, or 2 mg oral E2; add progesterone 12 days/month if intact uterus.
- 95. C) Yes, in both conditions** Rationale: Consider testosterone replacement in both POI and surgical menopause for sexual function and well-being.
- 96. B) BMI 27-29.9 with comorbidity or BMI >30 with lifestyle failure** Rationale: Add anti-obesity meds as adjunct to lifestyle for BMI 27-29.9 + comorbidity or BMI >30 with failed lifestyle.
- 97. B) GI lipase inhibitor, 8% loss** Rationale: Orlistat is a GI lipase inhibitor achieving approximately 8% weight loss with GI side effects.
- 98. C) 14-16%** Rationale: Semaglutide (GLP-1 agonist) achieves 14-16% weight loss; liraglutide achieves 7-10%.



99. B) BMI >40, or BMI >35 + comorbidity, or BMI 30-35 + poorly controlled T2DM

Rationale: Bariatric surgery criteria: BMI >40, BMI >35 + 1 comorbidity, or BMI 30-35 + poorly controlled T2DM.

100. B) Helping pancreas release insulin, delaying stomach emptying, reducing appetite

Rationale: GLP-1 agonists help pancreas release insulin, delay gastric emptying, and reduce appetite for weight loss.