

Chapter 90, Self-Assessment Questions

1. All of the following scenarios are consistent with a recommendation to be screened with a low-dose CT scan for lung cancer (according to the recent guidelines)?
 - A. A 45-year-old man who has smoked a pack a day since the age of 13 years
 - B. A 65-year-old woman with a 40 pack–year smoking history, who quit smoking 10 years ago
 - C. A 50-year-old coal miner whose father and brother died of lung cancer in their 60s
 - D. All of the above fit the screening criteria
 - E. None of the above fit the screening criteria
2. Treatment options for a patient with stage IIIb adenocarcinoma and an ECOG PS score of 3 may include all of the following EXCEPT:
 - A. Palliative radiotherapy
 - B. Surgical resection of a distant metastasis
 - C. Platinum-containing doublet chemotherapy
 - D. Single agent targeted agent
 - E. Treatment of comorbidities to improve performance
3. A well-performing stage IV adenocarcinoma NSCLC patient with a mutation in exon 19 of the EGFR gene should be treated with:
 - A. Cetuximab
 - B. Cisplatin-gemcitabine
 - C. Afatinib
 - D. Bevacizumab
 - E. Radiotherapy
4. Premedications to prevent nausea and vomiting with cisplatin vinorelbine should include:
 - A. A neurokinin inhibitor
 - B. Metoclopramide
 - C. Promethazine
 - D. A benzodiazepine
 - E. Diphenhydramine
5. Which of the following is NOT considered to be an acceptable regimen for advanced stage squamous cell NSCLC?
 - A. Carboplatin/paclitaxel
 - B. Cisplatin/vinorelbine
 - C. Gemcitabine/paclitaxel
 - D. Pemetrexed/cisplatin
 - E. Gemcitabine/docetaxel
6. Which of the following is a reasonable premedication for an EGFR-targeted therapy?
 - A. Dexamethasone

- B. Doxycycline
 - C. Fosaprepitant
 - D. Folate and vitamin B₁₂
 - E. None of the above
7. What is the standard method of evaluating NSCLC response:
- A. Tumor volume calculation (based on bidimensional measurements)
 - B. RECIST criteria (longitudinal sum of lesions)
 - C. Change in PET scan intensity (metabolic changes in tumor cells)
 - D. Based on biomarker or genetic changes
 - E. Change in Veterans Administration Lung Cancer Study Group stage
8. What are the goals of treatment for a patient with stage IIIb squamous histology lung cancer?
- A. Improvement of quality of life
 - B. Alleviation of symptoms
 - C. Prolong life
 - D. All of the above
 - E. Cure disease
9. Which of the following is optimally treated with chemoradiotherapy?
- A. Stage IA squamous NSCLC
 - B. Stage IIB large cell NSCLC
 - C. Stage IIIA adenocarcinoma NSCLC
 - D. Limited stage SCLC
 - E. Extensive stage SCLC
10. Which of the following improves survival of limited stage SCLC?
- A. Maintenance methotrexate
 - B. Prophylactic cranial radiation
 - C. Adjuvant platinum doublet and bevacizumab
 - D. Neoadjuvant (induction) ceritinib
 - E. All of the above
11. Which of the following patients is the best candidate for bevacizumab combined with chemotherapy?
- A. Extensive stage SCLC
 - B. Stage IIB adenocarcinoma
 - C. Stage IV large cell NSCLC
 - D. Stage IIIB squamous cell NSCLC
 - E. None of the above
12. What is the prerequisite genetic mutation for ceritinib therapy?
- A. BRAF mutations
 - B. EGFR mutations
 - C. KRAS mutations
 - D. ALK translocations or rearrangements
 - E. EGFR amplifications
13. Which patient is the best candidate for adjuvant cisplatin/vinorelbine?
- A. 40-year-old white woman with recently resected stage IA adenocarcinoma.
 - B. 45-year-old African American man with recently resected stage IIB squamous cell carcinoma and negative surgical margins.

- C. 63-year-old Caucasian woman with a PS of 3 and recently resected stage Ia large cell NSCLC. The patient was found to have a mutation in the KRAS gene in the resected tumor.
 - D. 65-year-old Caucasian man with a PS of 2 and recently resected stage IB adenocarcinoma. The patient was found to have an ALK translocation in the resected tumor.
 - E. 45-year-old African American man with a PS of 1 and recently diagnosed stage IIIB adenocarcinoma with positive surgical margins and no identifiable mutations in the KRAS, EGFR, or ALK genes.
14. Which subtype of NSCLC is not genotyped for a targetable EGFR or ALK mutation?
- A. Neuroendocrine.
 - B. Large cell.
 - C. Squamous cell.
 - D. Adenocarcinoma.
 - E. Genotyping is not a standard for any of the above.
15. What is the most common toxicity of afatinib?
- A. Neutropenia
 - B. Diarrhea
 - C. Hepatotoxicity
 - D. Ocular toxicity
 - E. Electrolyte abnormalities

Answers

- 1. B**
- 2. C**
- 3. C**
- 4. A**
- 5. B**
- 6. A**
- 7. B**
- 8. D**
- 9. D**
- 10. B**
- 11. C**
- 12. D**
- 13. B**
- 14. C**
- 15. B**

