## POST-TEST

Molecular Tumor Board: Using Molecular Profiling to Improve the Care of Patients with Advanced Breast Cancer

TH	E CORRECT ANSWER IS INDICATED	WITH YELLOW HIGHLIGHTING.	
1.	BRCA1 mutations are most commonly associated with breast cancer.  a. HER2-positive b. ER/PR-positive, HER2-negative c. Triple-negative	6. The number of tumor-infiltrating lymportes has the highest prognostic value breast cancer.  a. HER2-positive b. ER/PR-positive, HER2-negative c. Triple-negative	
	Mutations in which of the following genes may indicate homologous repair deficiency and susceptibility to PARP inhibition?  a. PALB2 b. ESR1 c. TET2  Estrogen receptor mutations typically	7. Retrospective analysis of the Phase I SoFEA study comparing exemestane to fulvestrant-containing regimens for patients with prior sensitivity to nonsteroidal aromatase inhibitors suggests for patients wit ESR1 mutations.  a. A significant progression-free survival benefit with exemestance	th
	occur in patients who have previously received a. Tamoxifen b. Aromatase inhibitors c. PARP inhibitors	compared to fulvestrant  b. A significant progression-free survival benefit with fulvestrant compared to exemestane  c. No significant difference in progression-free survival between	en
4.	Because of the potential heterogeneity of metastatic breast cancer, ESR1 mutations are more likely to be detected by biopsy than by plasma testing.  a. True  b. False	8. Immunotherapy may be most effective in triple-negative breast cancer because is lower than in other type of breast cancer.  a. Density of tumor-infiltrating	use
5.	Compared to antibodies used in the past, recent antibodies for detecting ER-positive disease  a. Allow detection of ER-positivity in samples that previously would have been categorized as ER-negative b. Provide more useful information about endocrine sensitivity	lymphocytes  b. Genomic stability  c. PD-L1 expression  9. Tumor-infiltrating lymphocytes are strongly associated with androgen receptor positivity.  a. True	
	for patients with ER-positive test results  c. Result in fewer strongly positive samples (Allred scores of 7 or 8)	b. False  10. Somatic HER2 mutations in breast cancer  a. Can be detected by standard IH and FISH  b. Result in signaling disruption similar to that with HER2	C

amplification

c. Are more common in lobular cancer than nonlobular cancer