

Recognizing the heterogeneity of recurrence risk profiles in eBC helps guide appropriate care<sup>1</sup>

- Patients with early breast cancer (eBC) exhibit diverse risk of recurrence profiles influenced by multiple factors, including tumor size, grade, lymph node involvement, and other molecular characteristics<sup>1-3</sup>
- The risk of recurrence can persist for years, making accurate risk stratification critical for management<sup>4,5</sup>
  - The risk of recurrence is present in all patients with HR+ eBC, even those with stage II or III disease with no to low nodal involvement<sup>5,6</sup>
- Differentiating between patients at high, intermediate, and low risk for recurrence is essential to tailor treatment strategies<sup>1</sup>



Gene expression profile (GEP)–based risk-of-recurrence assessments inform decisions regarding the necessity and intensity of adjuvant therapies, aiming to optimize benefit while minimizing unnecessary interventions<sup>1-3</sup>

Lack of GEP testing standardization and inconsistencies in clinical risk-of-recurrence definitions may lead to variability in management approaches in practice<sup>1,2,7,8</sup>

According to National Comprehensive Cancer Network® (NCCN®) and ASCO guidelines, high-risk features may include:

	NCCN <sup>3</sup>			ASCO <sup>6,9,10,a</sup>									
Positive nodes	≥4	1-3	1-3	≥4	1-3	1-3	1-3	1-3	1-3	1-3	0	0	0
Tumor grade		3			3			3	2	1	3	2	1
Tumor size, cm			≥5			≥5		Any	Any	2.1-5	1.1-5	2.1-5	3.1-5
Ki-67 index							≥20%						



Adopting uniform risk-of-recurrence definitions into the clinical workflow may help ensure that patients receive appropriate GEP testing and subsequent therapies<sup>1,8</sup>

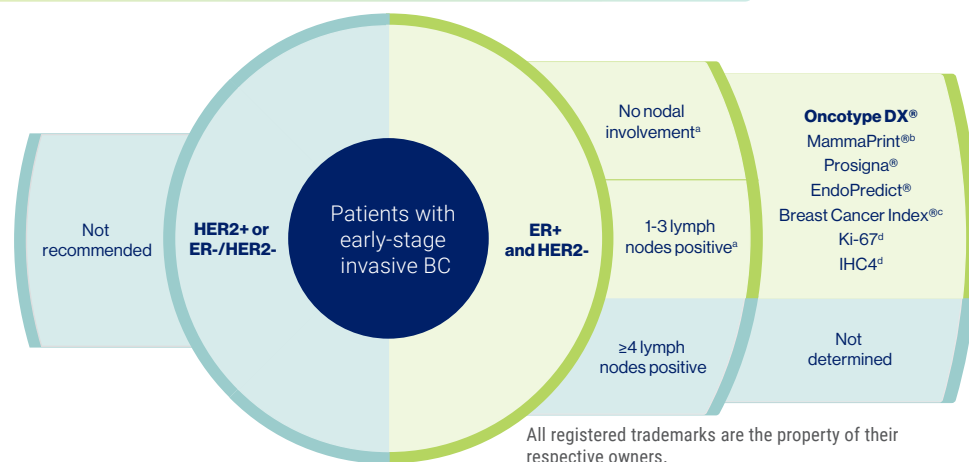


NCCN and ASCO recommend the use of genomic assays to determine prognosis and prediction of benefit to guide decisions on adjuvant systemic therapy<sup>2,3</sup>



Integrating GEP assay results with clinicopathological risk features early is essential to obtain a comprehensive and individualized assessment of a patient’s risk of recurrence<sup>1,2</sup>

ASCO, American Society of Clinical Oncology; ER, estrogen receptor; HER2, human epidermal growth factor receptor 2; HR, hormone receptor.  
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<sup>a</sup>For ER+/HER2- breast cancer.<sup>9,10</sup>



IHC4, immunohistochemistry 4.  
 Bold text designates high quality of evidence/strong strength of recommendation.<sup>2</sup>  
<sup>a</sup>Recommendations differ based on menopausal status (premenopausal vs postmenopausal) and age (≤50 years vs >50 years). For patients who are premenopausal or ≤50 years of age, Oncotype DX is the only recommended test for node-negative disease, and there is insufficient evidence to recommend a biomarker for use for 1 to 3 positive nodes. Prosigna is only recommended for node-negative patients who are postmenopausal or >50 years of age.<sup>2</sup>  
<sup>b</sup>Only in patients with high clinical risk per MINDACT categorization.<sup>2</sup> <sup>c</sup>May also be offered to patients who received 5 years of endocrine therapy without evidence of recurrence.<sup>2</sup> <sup>d</sup>Only if locally validated and together with other parameters in patients who do not have access to genomic tests.<sup>2</sup>



Implementing standardized risk-of-recurrence assessment protocols can ensure all patients receive the appropriate evaluation and help identify those who may benefit from biomarker testing<sup>1,8</sup>

## PULSE CHECK

How does your institution or practice integrate standardized biomarker testing into clinical practice for ER+/HER2- eBC?

## Practical Considerations for Standardizing GEP-Based Assessments for Risk of Recurrence in Early Breast Cancer

- Identify patients with HR+/HER2- eBC who meet guideline criteria for GEP testing<sup>2,3</sup>
- Ensure timely testing to facilitate treatment planning<sup>11</sup>
- Understand the implications of test results to inform treatment decisions effectively<sup>1-3</sup>
  - ASCO recommends incorporating age, menopausal status, and nodal status when considering GEP test result interpretation<sup>2</sup>



Establish a comprehensive assessment of each patient's risk of recurrence by combining clinical and genomic features, enabling informed doctor-patient discussions on individual risk and treatment options to guide optimal care<sup>2,12-14</sup>



Provide all your patients with the right test by standardizing risk-of-recurrence assessments in eBC and discuss all treatment options



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MINDACT, Microarray In Node negative Disease may Avoid ChemoTherapy.

**References:** 1. Zambelli A et al. *Crit Rev Oncol Hematol*. 2023;191:104104. doi:10.1016/j.critrevonc.2023.104104 2. Andre F et al. *J Clin Oncol*. 2022;40(16):1816-1837. doi:10.1200/JCO.22.00069 3. Referenced with permission from the NCCN Clinical Practice Guidelines in Oncology (NCCN Guidelines<sup>®</sup>) for Breast Cancer V.4.2025. © National Comprehensive Cancer Network, Inc. 2025. All rights reserved. Accessed April 22, 2025. To view the most recent and complete version of the guideline, go online to NCCN.org. 4. Early Breast Cancer Trialists' Collaborative Group. *Lancet*. 2024;404(10461):1407-1418. doi: 10.1016/S0140-6736(24)01745-8 5. Pan H et al. *N Engl J Med*. 2017;377(19):1836-1846. doi:10.1056/NEJMoa1701830 6. Amin MB et al, eds. *AJCC Cancer Staging Manual*. 8th ed. Springer Cham; 2017. 7. Acs B et al. *Cancers (Basel)*. 2021;13(5):1166. doi:10.3390/cancers13051166 8. Paige JS et al. *J Gen Intern Med*. 2023;38(11):2584-2592. doi:10.1007/s11606-023-08043-4 9. Henry LN et al. *J Clin Oncol*. 2019;37(22):1965-1977. doi:10.1200/JCO.19.00948 10. Freedman RA et al. *J Clin Oncol*. 2024;42(18):2233-2235. doi:10.1200/JCO.24.00886 11. Snow S et al. *Curr Oncol*. 2024;31(3):1359-1375. doi:10.3390/curroncol31030103 12. Janz NK et al. *Breast Cancer Res Treat*. 2017;161(3):525-535. doi:10.1007/s10549-016-4076-5 13. Hawley ST et al. *Breast Cancer Res Treat*. 2017;161(3):557-565. doi:10.1007/s10549-016-4082-7 14. Lillie SE et al. *Cancer Epidemiol Biomarkers Prev*. 2007;16(2):249-255. doi:10.1158/1055-9965.EPI-06-0525