

How is EndoPredict Different?

EndoPredict is a prognostic and predictive molecular in vitro diagnostic test to determine the risk of distant metastases up to 15 years and the 10 year absolute chemotherapy benefit for patients with ER+/HER2- primary cancer. The second generation test is available as a CE-IVD kit that can be run locally and as a service performed by Myriad Genetics.

		EndoPredict [®]	Oncotype DX [®]	MammaPrint [®]	Prosigna [®]
TEST	Inclusion of Clinical Parameters	Yes (T+N)	No	No	Yes (T)
	Local Implementation	Yes	No	Yes (different technique)	Yes
REPORT	Risk of Recurrence	10 Years	9 Years	Group Risk 5 Years	10 Years
	Chemotherapy Benefit	Individual Chemotherapy Benefit	Group Chemotherapy Benefit	–	–
	Risk of Late Recurrence	5 – 15 Years Late Recurrence	–	–	–
	Risk Categories	Low, High	No Risk Categories	Low, High	Low, Intermediate, High
TRAINING AND VALIDATION	Subgroup of Patients in Training Cohort	ER+ HER2- NO N+ ¹	ER+ HER2+/- NO ²	ER+/- HER2+/- NO ³	ER+/-, HER2+/- NO/N+ ⁴
	Prediction of Late Recurrence (>5 Years)	Yes	No (N+)	No	Yes
	Therapy Regimens in Chemopredictive Studies	FEC±P FAC±wP ⁵	CMF or MF ⁶ , CAF ⁷	–	–
	Consistent Cutoffs	Yes	No	Yes	No
	Prospective Trials	UNIRAD (ongoing) RESCUE (ongoing) ABCsG34 (neoadjuvant)	TAILORx (NO) ⁸ RxPonder (ongoing) planB/ADAPT (ongoing)	MINDACT ⁹	Optima (ongoing)
GUIDELINES	Medical Guideline Inclusion	NCCN ¹⁰ , ASCO ¹¹ , St. Gallen ¹² , ESMO ¹³	NCCN ¹⁰ , ASCO ¹¹ , St. Gallen ¹² , ESMO ¹³	NCCN ¹⁰ , ASCO ¹¹ , St. Gallen ¹² , ESMO ¹³	NCCN ¹⁰ , ASCO ¹¹ , St. Gallen ¹² , ESMO ¹³
	HTA Guideline Inclusion	NICE ¹⁴ , HAS/RIHN ¹⁵	NICE ¹⁴ , HAS/RIHN ¹⁵	HAS/RIHN ¹⁵	NICE ¹⁴ , HAS/RIHN ¹⁵

T: tumor size N: lymph node status F: fluorouracil E: epirubicin C: cyclophosphamide P: paclitaxel A: doxorubicin wP: weekly paclitaxel M: methotrexate

According to Simon, Hayes and Paik, studies using archived tissue from prospective studies meet level 1 evidence when they are validated in at least one or more similarly designed studies with consistent results.¹⁶

- EndoPredict was validated in **three similarly designed prospective-retrospective studies** with consistent results
- Guidelines accept prospective-retrospective data as **high standard of evidence**
- Published prospective data **confirm** existing retrospective-prospective data⁸
- EP is a recently developed optimized **latest generation test**, but first prospective data confirming the prospective retrospective data are already available^{19,20}
- EndoPredict has shown **superior clinical accuracy** which is most important for outcome of patients.

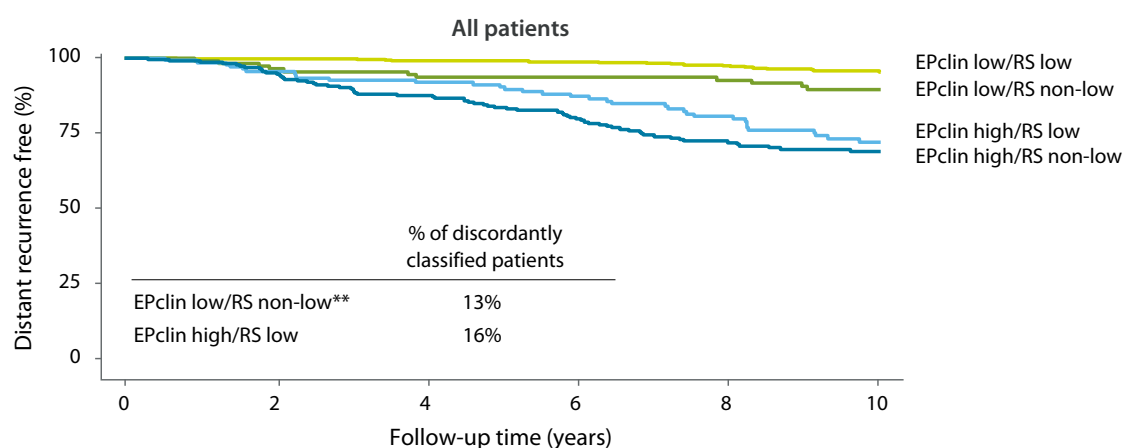
EndoPredict in Direct Comparison

Superior Clinical Accuracy - Largest "true" Low Risk Group

EndoPredict[®] vs. Oncotype Dx[®] (RS):¹⁷

Patients	Treatment	Primary Endpoint
928 ER+, HER2-, N0 or N+	5 years endocrine therapy only	Distant recurrence free survival

The classification by EndoPredict aligns more closely with the patient outcomes



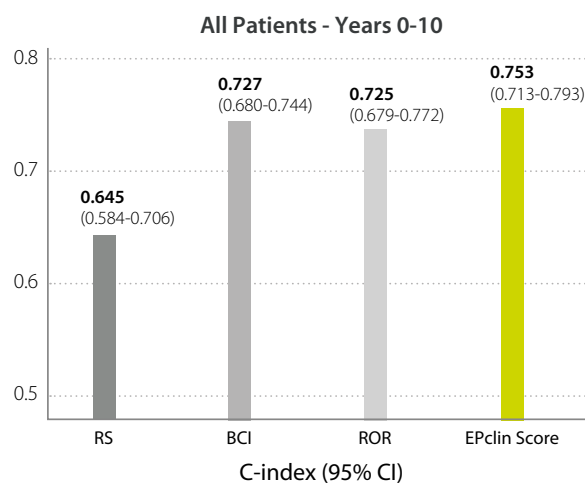
Distant recurrence free survival of ER+, HER2- patients within different risk groups from transATAC¹

EndoPredict vs. other prognostic signatures:¹⁸

Patients	Treatment	Primary Endpoint
774 ER+, HER2-, N0 or N+	5 years endocrine therapy only	Distant recurrence (DR)

The C-Index is standard statistic for prognostic power. The greater the C-Index, the better is the prognostic power of a test. The C-Index reflects the prognostic power of the continuous score **independent from cutoff values**.

EndoPredict shows superior prognostic accuracy



Prognostic accuracy of different tests²

EndoPredict (EPclin Score), Prosigna (ROR), Breast Cancer Index (BCI), Oncotype DX (RS)

REFERENCES: 1. Filipits et al.: Clin Cancer Res 2011 2. Paik et al.: N Engl J Med 2004 3. van't Veer et al.: Nature 2002 4. Wallden et al.: BMC Medical Genomics 2015 5. Sestak et al.: Breast Cancer Res Treat 2019 6. Palik et al.: J Clin Oncol 2006 7. Albain et al.: Lancet Oncol 2010 8. Sparano et al.: N Engl J Med 2018 9. Cardoso et al.: N Engl J Med 2016 10. National Comprehensive Cancer Network. Breast Cancer (Version 4.2018) 11. Harris et al.: J Clin Oncol 2016 12. Burstein et al.: Ann. Oncol. 2019 13. Cardoso et al.: Ann Oncol 2019 14. NICE <https://www.nice.org.uk/guidance/dg34> 15. HAS <https://www.has-sante.fr> 16. Simon et al.: J Natl Cancer 2009 17. Buus et al.: J Natl Cancer Inst 2016, 18. Sestak I et al.: JAMA Oncol 2018 19. Dubsky Cancer Res. 2018 Abstr. SABCs 2017 20. Ettl et al.: SABCs 2018