

*Don't worry about  
cancer recurrence!*

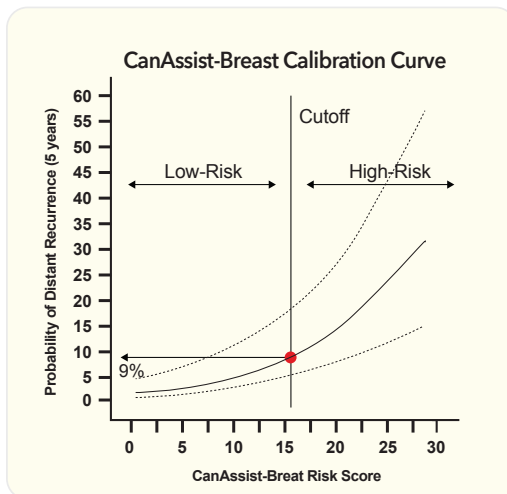
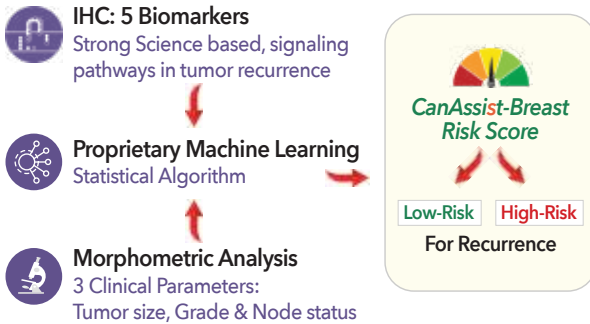
*We can assist with CanAssist*

**CanAssist-Breast**

redefining cancer  
treatment doctors

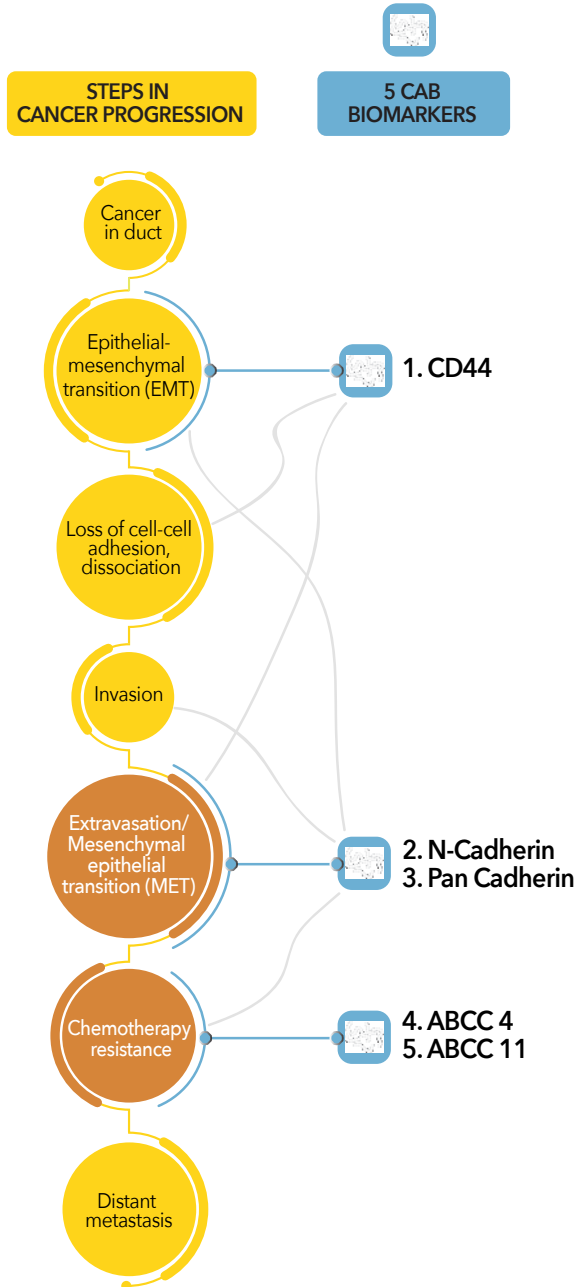
# Risk Prediction using *CanAssist-Breast*

Machine learning-based test that stratifies breast cancer patients based on risk of recurrence. CanAssist-Breast integrates IHC data and clinical parameters into a statistical algorithm which provides CanAssist-Breast (CAB) score that stratifies patients as “low-risk” or “high-risk” for distant recurrence over 5 years

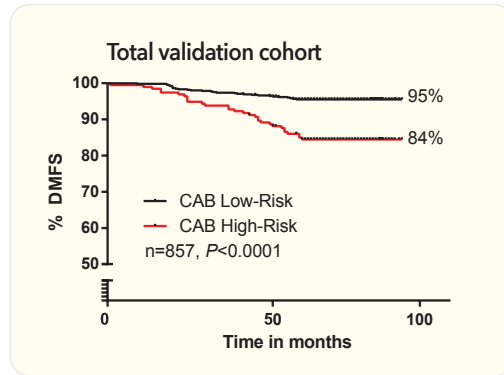


CanAssist-Breast Risk Scores are directly proportional to probability of distant recurrence. The CanAssist-Breast Risk Score cut-off of 15.5 corresponds to a 9% probability of distant recurrence

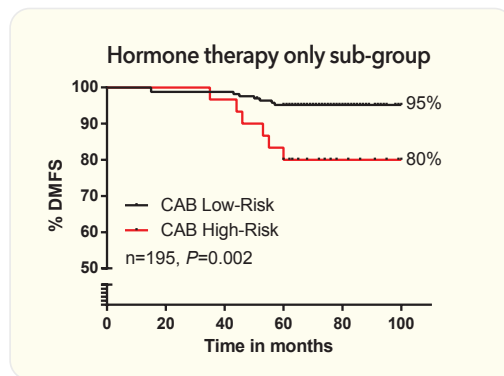
# CanAssist-Breast assesses expression of unique biomarkers that play critical roles in metastasis



## Risk Stratification Using CanAssist-Breast



- CanAssist-Breast identifies distinct groups of low-risk and high-risk patients in Kaplan-Meier survival analysis
- The low-risk group has <5% rate of distant recurrence

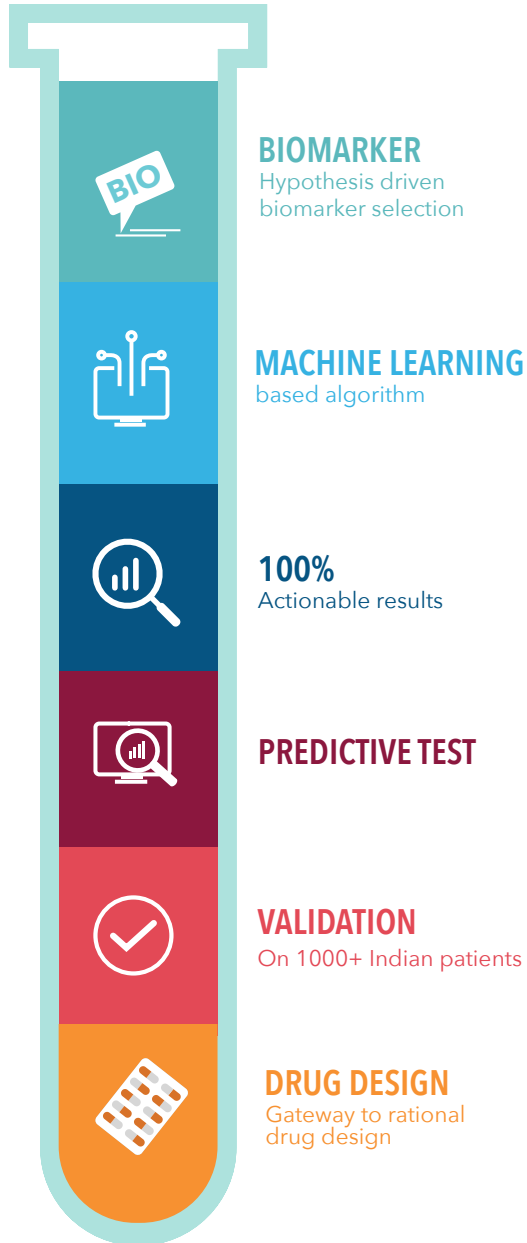


- CanAssist-Breast is significantly prognostic in a cohort treated with endocrine therapy alone
- Validation in endocrine therapy alone treated cohort gives you the confidence that CAB provides accurate risk predictions

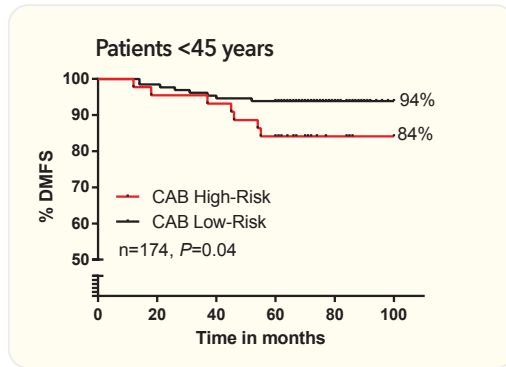
**CanAssist-Breast is a significant  
predictor of prognosis**

## Novelty: CanAssist-Breast Test

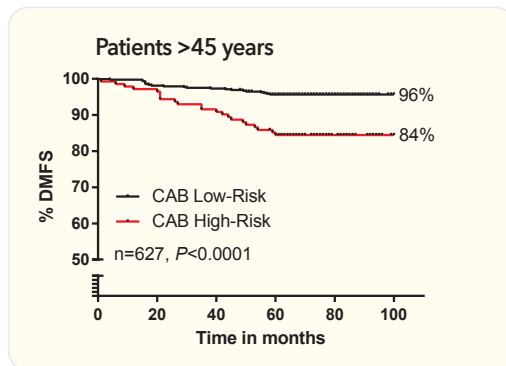
# CanAssist-Breast



## CanAssist-Breast is prognostic in younger patients



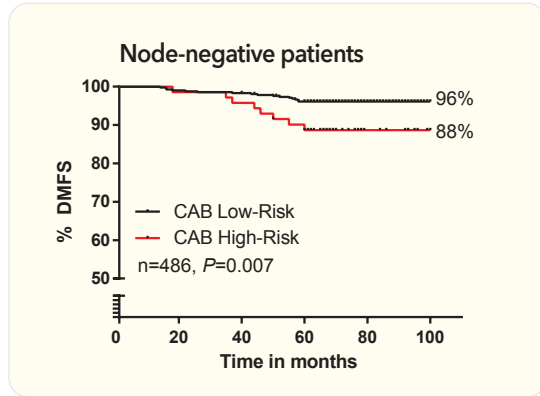
- CanAssist-Breast has been validated on patients across all age groups
- It can stratify younger patients into low-risk and high-risk groups as effectively as it can stratify older patients.
- This is important because the mean age of diagnosis of breast cancer in Asia is a decade earlier than the West



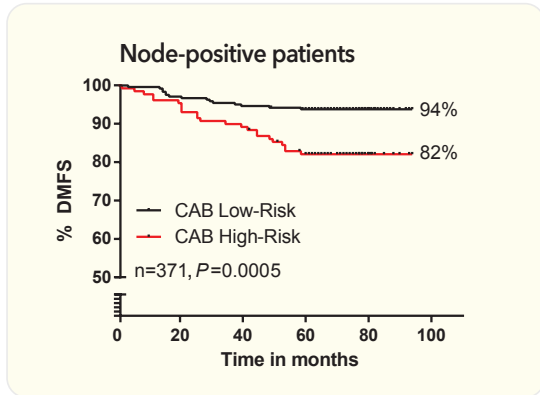
## CanAssist-Breast is an independent predictor of prognosis

Covariate	Hazard ratio	p-value	95% CI
Age	1.55	0.09	0.92-2.61
ER	1.12	0.75	0.55-2.25
PR	1.67	0.04	1.0-2.80
CT treatment	1.38	0.30	0.74-2.58
CanAssist-Breast risk score	3.39	<0.0001	2.05-5.61

## CanAssist-Breast is prognostic independent of node status

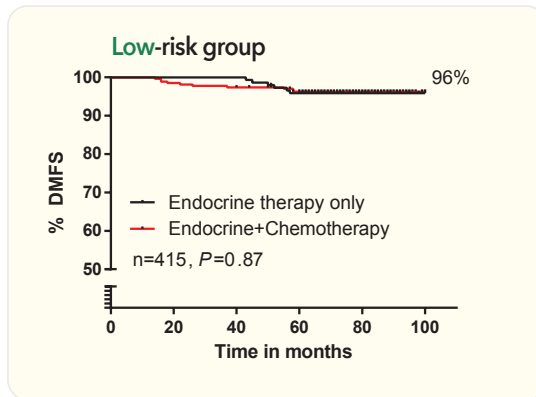


- 5-year distant recurrence was <4% for low-risk patients

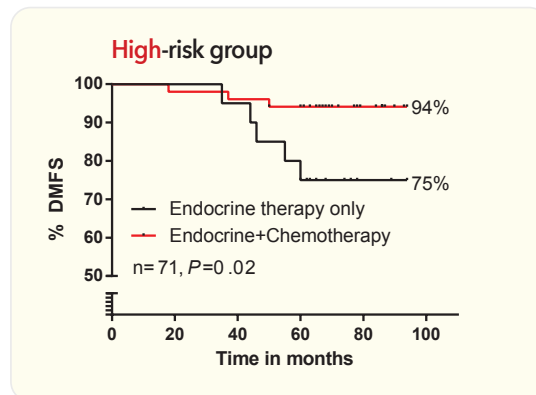


- 65% of node-positive patients- a population that routinely receives chemotherapy- were classified as low-risk by CAB and had recurrence rates <6%

## CanAssist-Breast is predictive of “Chemotherapy Benefit”



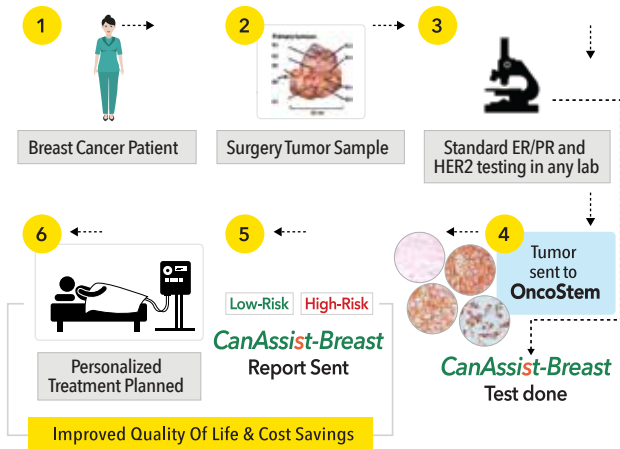
- No difference in DMFS for low-risk patients who are given adjuvant chemotherapy plus endocrine therapy vs those given only endocrine therapy
- Insignificant benefit from chemotherapy to patients called low-risk by CanAssist-Breast



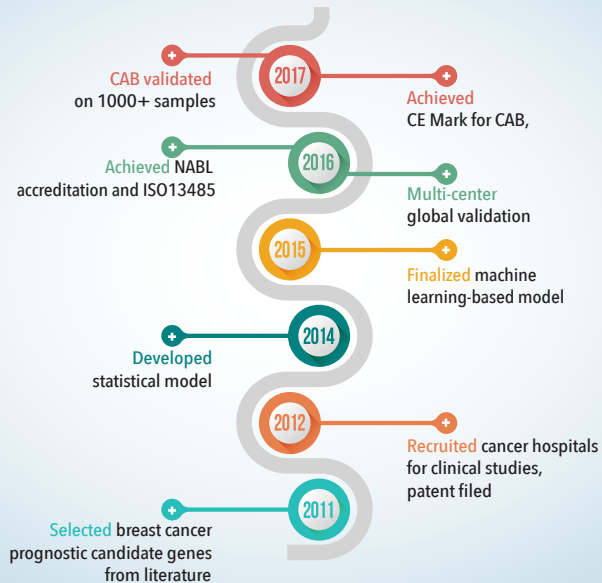
- CAB provides 19% chemotherapy benefit for high-risk patients who take adjuvant chemotherapy plus endocrine therapy vs those who take only endocrine therapy



# Workflow of CanAssist-Breast Breast Testing



# CanAssist-Breast: Development Timeline



**OncoStem Diagnostics** performs immunohistochemical (IHC) testing as per standard guidelines for

- 1) Estrogen Receptor (ER)
- 2) Progesterone Receptor (PR)
- 3) HER2/neu
- 4) Ki67

OncoStem's laboratory is NABL accredited for IHC testing of the above-mentioned prognostic markers. OncoStem also regularly participates in External Quality Assurance Schemes (EQAS) including CAP Proficiency Testing.

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