



S.S. FORMAZIONE PERMANENTE E RAPPORTI CON L'UNIVERSITA'

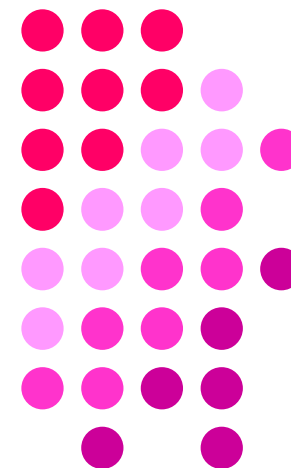


Evento Formativo Residenziale

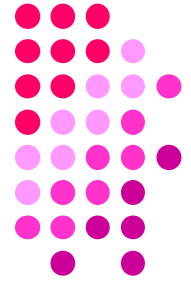
**CRPT: WORKSHOP AGLI ESTREMI DELLO SCREENING MAMMOGRAFICO**

Novità e prospettive  
dalla 19° Conferenza di  
San Gallen sul tumore  
alla mammella

*Alessandra Beano*  
SSD Oncologia Senologica



# Disclosures



- **Research funding:** none.
- **Lectures:** Astra Zeneca, Daiichi-Sankyo, Gentili, Gilead, Lilly, Novartis, Roche.
- **Advisor:** Astra Zeneca, Daiichi-Sankyo, Eisai, Gilead, Lilly, Menarini, Novartis, Roche, Seagen.
- **Travel grant:** Gentili, Gilead, Lilly, Novartis, Roche.



**SGBCC 2025**

# 19<sup>TH</sup> ST.GALLEN INTERNATIONAL BREAST CANCER CONFERENCE 2025

PRIMARY THERAPY OF PATIENTS WITH EARLY BREAST CANCER. EVIDENCE, CONTROVERSIES, CONSENSUS

12 - 15 MARCH 2025, VIENNA / AUSTRIA



## Breast cancer centre/unit and coordination

Minimum volume of 150 newly diagnosed early breast cancer cases a year and treating at least 50 metastatic breast cancer cases a year, coordinated by a core MDT member responsible for the multidisciplinary approach



### Core MDT

#### Radiology

At least 2 radiologists carrying out at least 1,000 mammographic exams (5,000 if participating in a centralised screening programme), 200 ultrasounds, 50 MRIs and 50 breast guided interventions a year. At least 2 radiographers performing at least 1,000 mammograms each a year



#### Pathology

At least 2 pathologists each reporting on a minimum of 50 preoperative samples, 50 early resections and 25 metastatic breast cancer surgical specimens a year



#### Surgery

At least 2 breast surgeons carrying out primary surgery as first operator on at least 50 newly diagnosed breast cancers a year



#### Medical oncology

At least 2 medical oncologists each treating a minimum of 50 early and 25 metastatic breast cancer patients a year



#### Radiation oncology

At least 2 radiation or clinical oncologists each treating at least 50 early breast cancer patients a year. They must also have palliative treatment experience



#### Nursing

At least 2 breast care nurses working full time on breast cancer care seeing at least 50 early and 25 metastatic breast cancer patients a year

### Extended MDT

Psycho-oncology

Geriatric oncology

Oncology pharmacy

Nuclear medicine

Physiotherapy

Plastic surgery

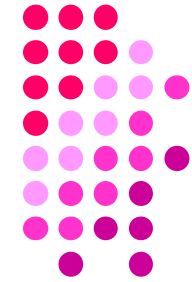
Interventional radiology

Self-image support

Palliative care

Clinical genetics

Prevention



**SPECIAL ARTICLE**

**Customizing local and systemic therapies for women with early breast cancer: the St. Gallen International Consensus Guidelines for treatment of early breast cancer 2021**

H. J. Burstein<sup>1,†</sup>, G. Curigliano<sup>2,†</sup>, B. Thürlimann<sup>3</sup>, W. P. Weber<sup>4</sup>, P. Poortmans<sup>5</sup>, M. M. Regan<sup>1</sup>, H. J. Senn<sup>6</sup>, E. P. Winer<sup>1</sup> & M. Gnant<sup>7</sup>, Panelists of the St Gallen Consensus Conference<sup>†</sup>

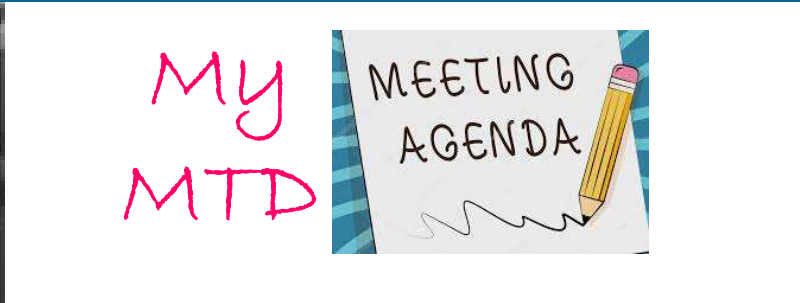
breast cancer. There is increasing recognition that the care of a breast cancer patient depends on highly individualized clinical features, including the stage at presentation, the biological subset of breast cancer, the genetic factors that may underlie breast cancer risk, the genomic signatures that inform treatment recommendations, the extent of response before surgery in patients who receive neoadjuvant therapy, and patient preferences. This customized approach to treatment requires integration of clinical care between patients and radiology, pathology, genetics, and surgical, medical and radiation oncology providers. It also requires a dynamic response from clinicians as they encounter accumulating clinical information at the time of diagnosis and then serially with each step in the treatment plan and follow-up, reflecting patient experiences and treatment response.

**SPECIAL ARTICLE**

**Understanding breast cancer complexity to improve patient outcomes: The St Gallen International Consensus Conference for the Primary Therapy of Individuals with Early Breast Cancer 2023**

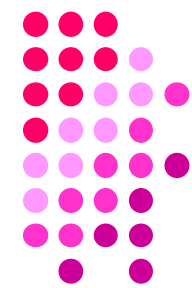
G. Curigliano<sup>1,2,†</sup>, H. J. Burstein<sup>3,4,†</sup>, M. Gnant<sup>5,6</sup>, S. Loibl<sup>7,8</sup>, D. Cameron<sup>9</sup>, M. M. Regan<sup>10</sup>, C. Denkert<sup>11</sup>, P. Poortmans<sup>12,13</sup>, W. P. Weber<sup>14,15</sup> & B. Thürlimann<sup>16,17</sup>, St Gallen Consensus Conference Panelists 2023

treatment options. The emergence of more effective, innovative agents in both the preoperative (primary or neoadjuvant) and post-operative (adjuvant) settings has underscored the pivotal role of a multidisciplinary approach in treatment decision making, particularly when selecting systemic therapy for an individual patient. The importance of multidisciplinary discussions regarding the clinical benefits of interventions was explicitly emphasized by the consensus panel as an integral part of developing an optimal treatment plan with the 'right' degree of intensity and duration. The panelists focused on controversies surrounding the management of common ductal/no special type



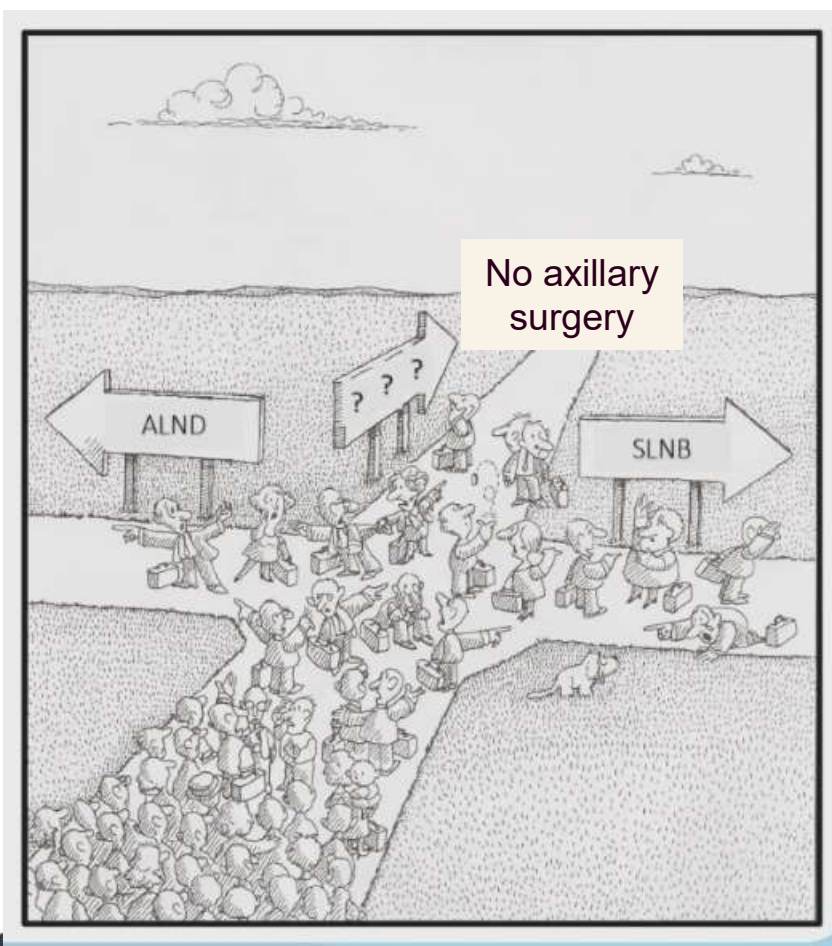
- The axillary chaos
- The axillary dilemma:  
CDK4/6i in eBC
- Immunotherapy in eBC
- Early TNBC
- Hereditary BC



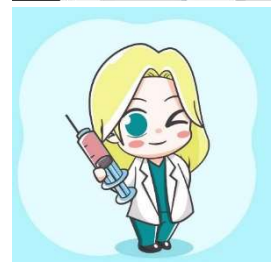


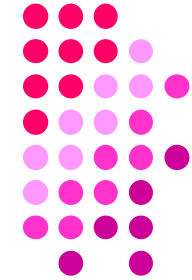
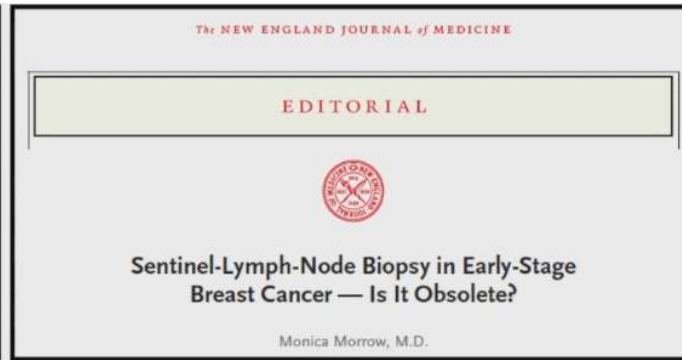
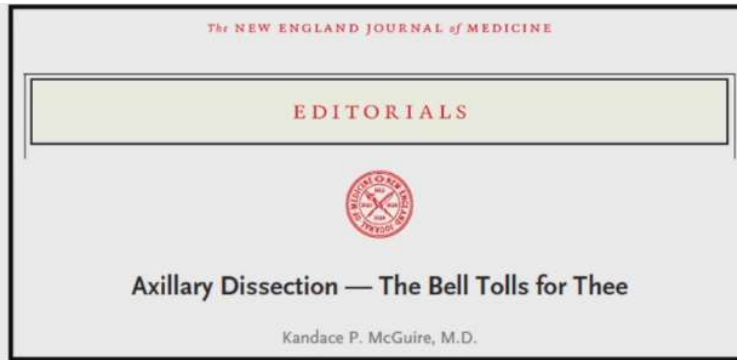
# The axillary chaos...

...Now decision regarding the need and the time of adjuvant treatment are often based on biological characteristics (HR, Her2...) and genomic signatures.



Cicero Urban  
Brazil





2023 and 2024 were “The Axilla’s Years” with robust evidences from important clinical trials!

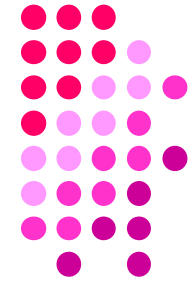


Cicero Urban  
Brazil

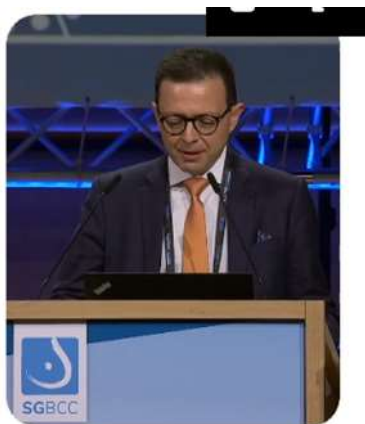
**From:** «Who can avoid upfront SLNB and axillary surgery?»...

...**To:** «Who can **not** avoid upfront SLNB and axillary surgery?»

# Are we ready for a world without upfront SNLB in clinically node negative breast cancer?



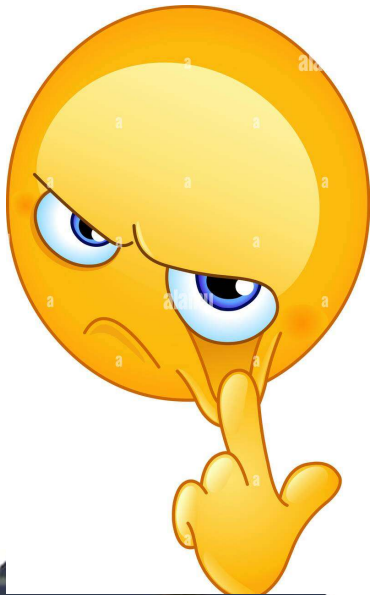
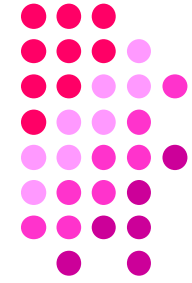
- But...
- De-escalation requires **efforts in multidisciplinary decision making**
- Risk of potential escalation of other modalities of treatment
- **Standardization** of information given to patients for **shared decision making**.
- A reliable axillary US in fundamental for this new world.



Cicero Urban  
Brazil



# Are we ready for a world without upfront SNLB in clinically node negative breast cancer?

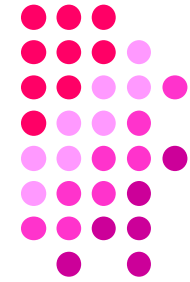


- For 2025 an increasing impact of AUS on surgical, radiotherapy and systemic decisions.
- For the near future, we expect more decisions based on genomics and AI supplanting decisions based on anatomy.
- More data are needed for SLNB omission in invasive lobular carcinoma, luminal G3, T2, premenopausal patients, mastectomy and also in TN and Her2+ patients candidates to upfront surgery.



Cicero Urban  
Brazil

# The axillary dilemma: adjuvant CDK 4/6 inhibitors in EBC



## NATALEE study design<sup>1,2</sup>

- Adult patients with HR+/HER2- EBC
  - Prior ET allowed up to 12 mo
  - **Anatomical stage IIA<sup>a</sup>**
    - N0 with:
      - Grade 2 and evidence of high risk:
        - Ki-67  $\geq$  20%
        - Oncotype DX Breast Recurrence Score  $\geq$  26 or
        - High risk via genomic risk profiling
      - Grade 3
    - N1
  - **Anatomical stage IIB<sup>a</sup>**
    - N0 or N1
  - **Anatomical stage III**
    - N0, N1, N2, or N3
- N = 5101<sup>b</sup>**

R 1:1<sup>c</sup>

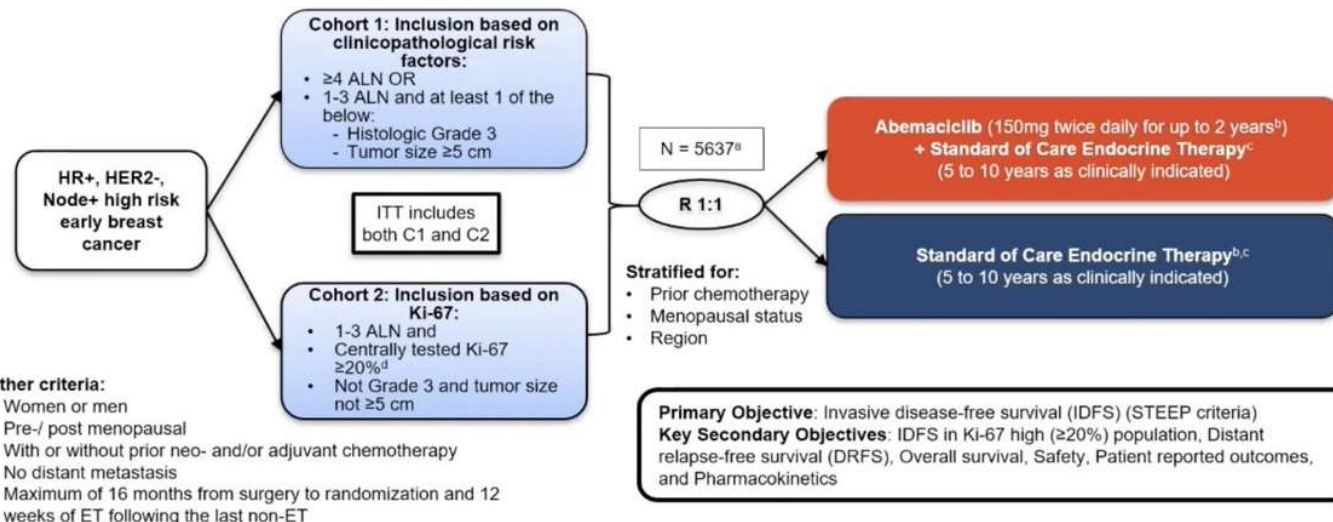
- Ribociclib**  
400 mg/day  
3 weeks on/1 week off  
for 3 y
- NSAI**  
Letrozole or  
anastrozole<sup>d</sup> for  $\geq$  5 y  
+ goserelin in men  
and premenopausal  
women
- NSAI**  
Letrozole or  
anastrozole<sup>d</sup> for  $\geq$  5 y  
+ goserelin in men  
and premenopausal  
women

Randomization stratification  
Anatomical stage: II vs III  
Menopausal status: men and premenopausal women vs postmenopausal women  
Receipt of prior (neo)adjuvant chemotherapy: yes vs no  
Geographic location: North America/Western Europe/Oceania vs rest of world

Intermediate/high risk

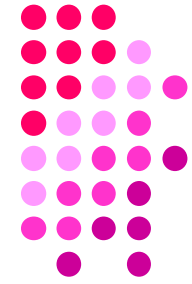
## monarchE: study design

High risk





# The axillary dilemma: adjuvant CDK 4/6 inhibitors in eBC



Question 8: Better based upon accurate estimates of risk of recurrence than on the eligibility criteria for the pivotal clinical trials?

Agree

A 233 92%

Disagree

B 20 7%

253



19<sup>TH</sup> ST.GALLEN INTERNATIONAL BREAST CANCER CONFERENCE 2025

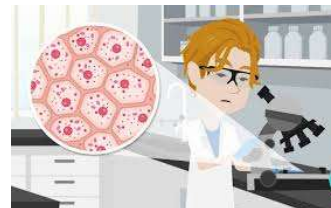
12 - 15 March 2025, Vienna / Austria

The selection of patients with intermediate risk ER+ breast cancers for adjuvant CDK4/6 inhibitors would be better based upon accurate estimates of risk of recurrence than on the eligibility criteria for the pivotal clinical trials (the Cameron/deMichele rule)

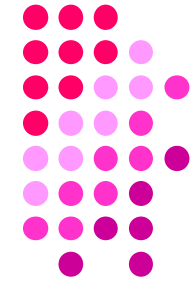
a. Agree 87.5%

b. Disagree 12.5%

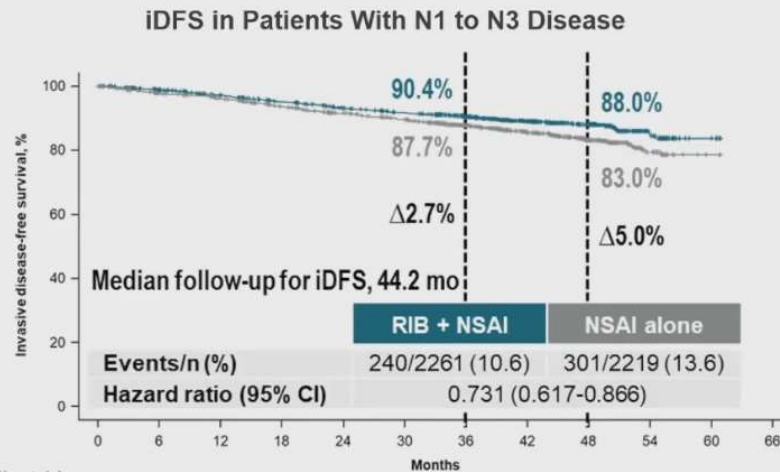
Total Votes : 64



# Adjuvant CDK 4/6 inhibitors in EBC

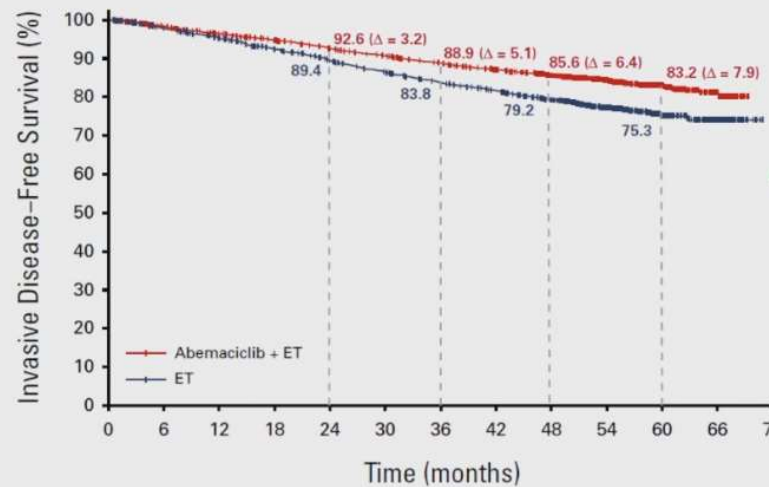


## NATALEE: iDFS in node-positive EBC



No. at risk	RIB + NSAI	NSAI alone
2261	2	
2219	1	

## monarchE: iDFS in cohort 1

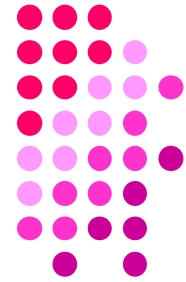


**Cohort 1:** ≥4 ALNs or 1-3 ALNs + tumor size ≥5 cm and/or grade 3

No. at risk	2555	2387	2322	2256	2189	2129	2068	2006	1913	1111	490	74	0
Abemaciclib + ET	2555	2387	2322	2256	2189	2129	2068	2006	1913	1111	490	74	0
ET	2565	2405	2328	2236	2143	2059	1979	1915	1795	1056	473	67	0

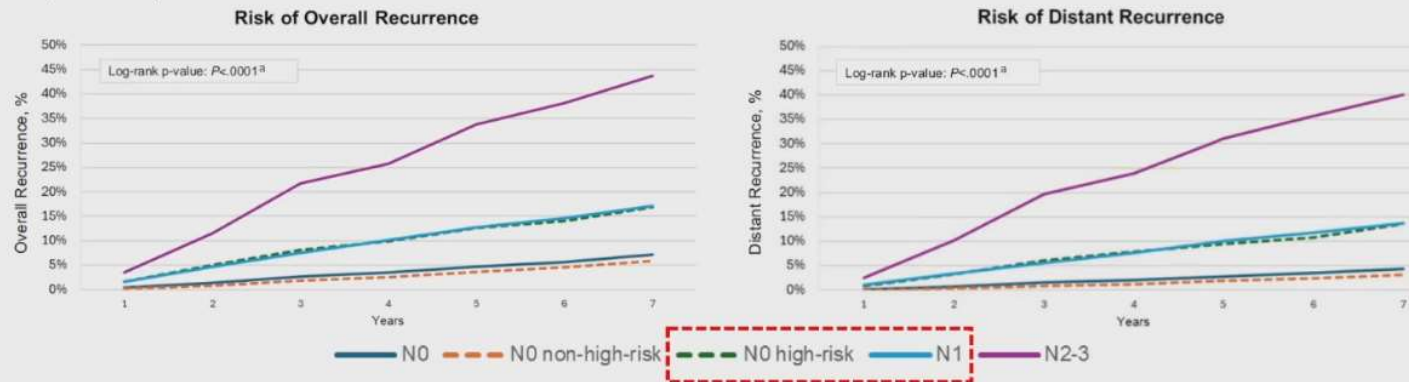
Data cutoff: July 3, 2023  
54-month median follow-up

# Adjuvant CDK 4/6 inhibitors in eBC



## Real-world data (Flatiron) for patients with HR+/HER2- EBC to estimate ROR (N = 7564)

- The N0 non-high-risk group had significantly lower overall ROR and distant ROR vs the N0 high-risk ( $P < .0001$ ) and N1 ( $P < .0001$ ) groups
- The N0 high-risk and N1 groups were not statistically different in overall ( $P = .617$ ) or distant ( $P = .438$ ) ROR rates



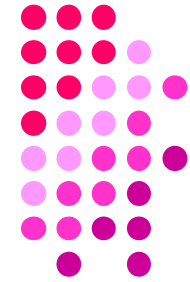
N0 high-risk was defined by NATALEE trial inclusion criteria: node-negative T2 disease ([grade 2 with high genomic risk or Ki-67  $\geq 20\%$ ] or grade 3), T3, or T4

EBC, early breast cancer; HER2, human epidermal growth factor receptor 2; HR, hormone receptor; N, node; ROR, risk of recurrence; T, tumor



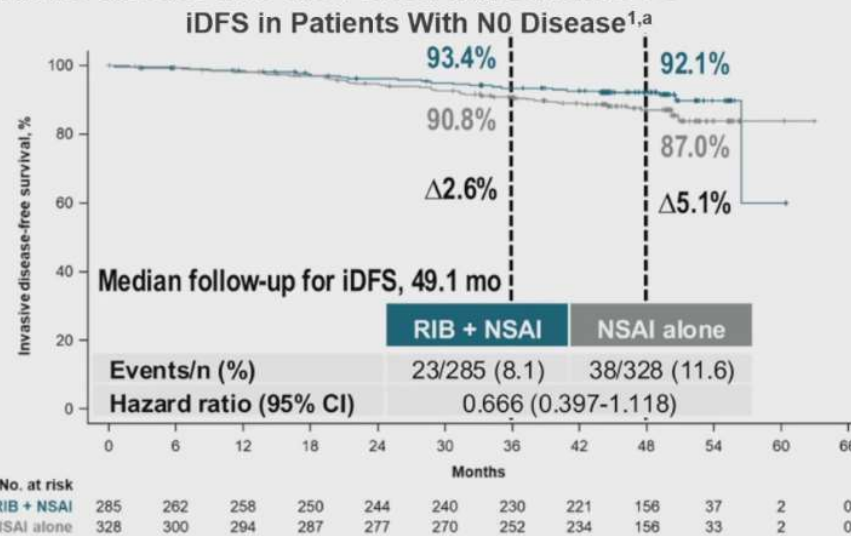
**Nadia Harbeck**  
Germany

# Adjuvant CDK 4/6 inhibitors in EBC



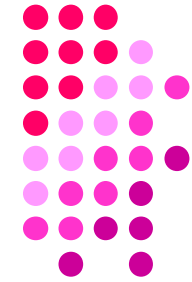
## NATALEE: iDFS in high-risk N0 EBC

- RIB + NSAI improved iDFS over NSAI alone in high-risk N0 EBC<sup>1</sup>
- In the control arm, the 3- and 4-year iDFS rates underscore the risk of recurrence and unmet need in NATALEE patients with N0 disease who are treated with current SOC<sup>1</sup>

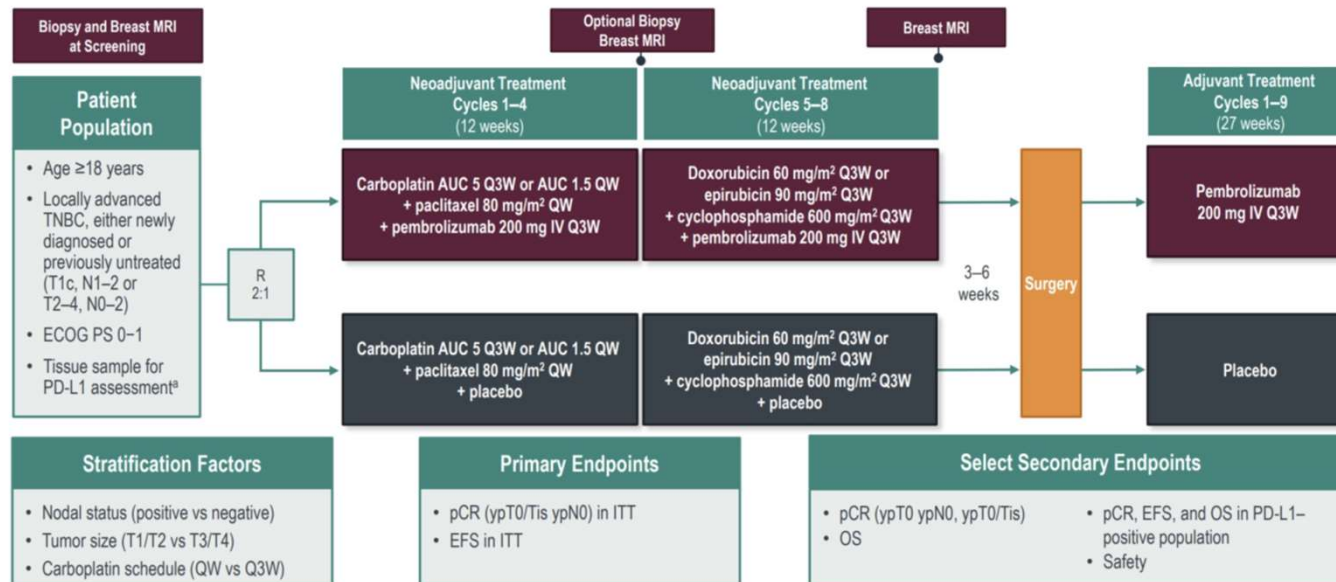


**Nadia Harbeck**  
Germany

# Immunotherapy in eBC



## KEYNOTE-522 Study Design<sup>1-3</sup>

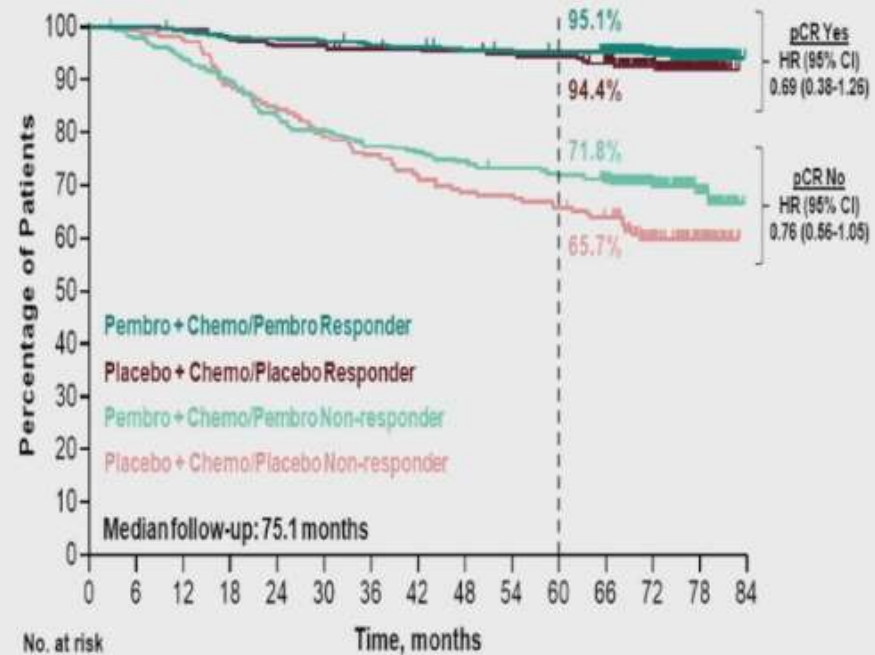


All treatments given IV. Pembrolizumab dose: 200 mg IV Q3W

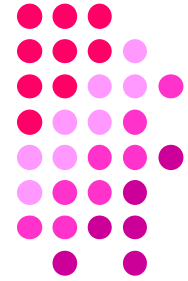
# Immunotherapy in eBC



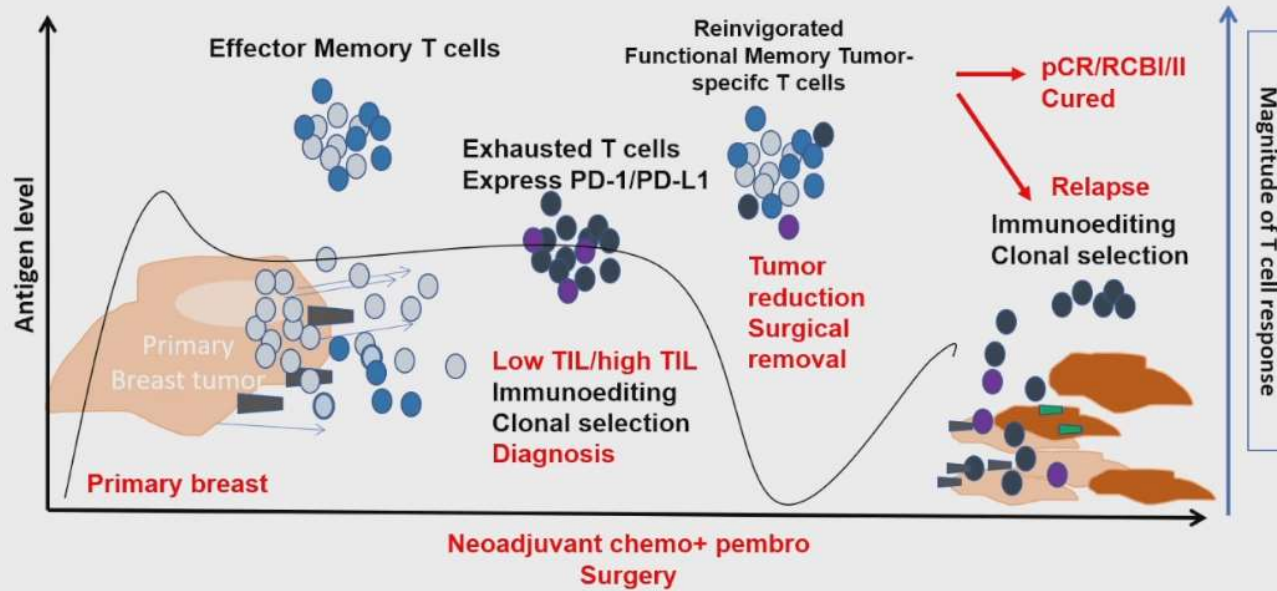
## Overall Survival by Pathologic Complete Response (yp T0/Tis ypN0)



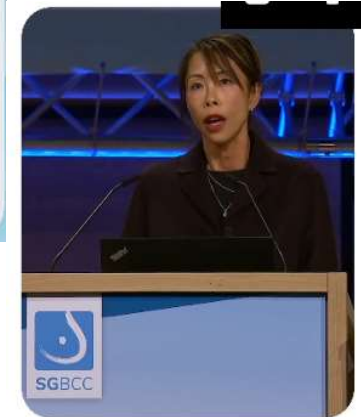
# Immunotherapy in eBC



Removal of tumor removes exhausted T cells

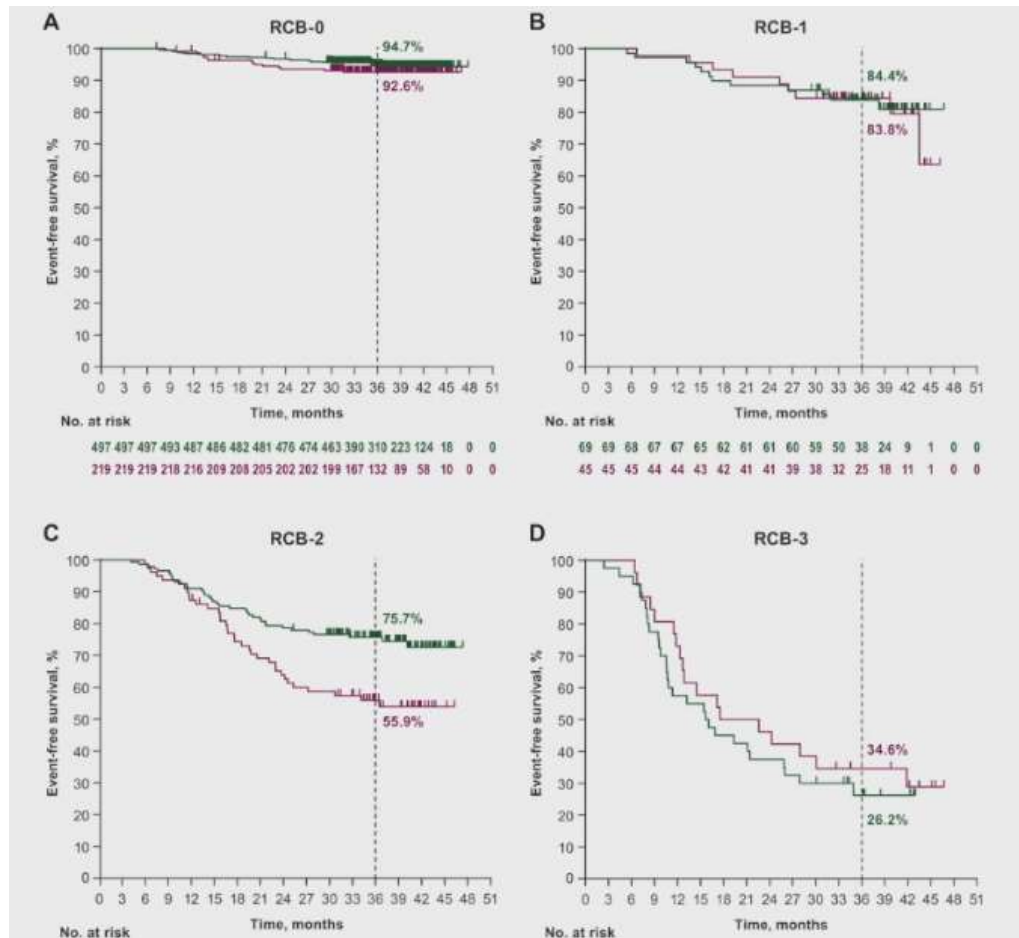


Sherene Loi MD, PhD; St Gallen 2025



Sherene Loi  
Australia

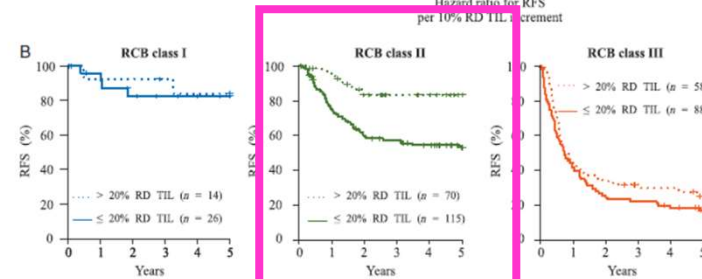
# Immunotherapy in eBC



**A**

RCB class	Number	Events	HR (95% CI)	<i>P</i> interaction
I	40	6	1.05 (0.67 - 1.63)	0.003
II	185	69	0.69 (0.58 - 0.82)	
III	146	114	0.94 (0.84 - 1.04)	

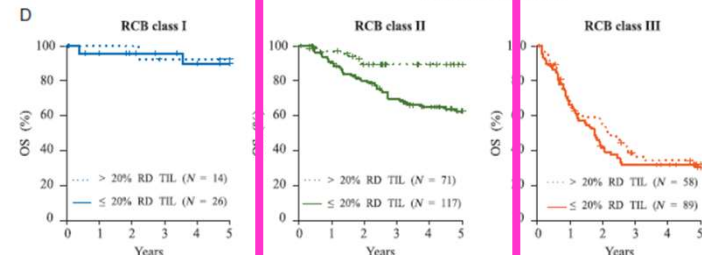
Hazard ratio for RFS per 10% RD TIL increment



**C**

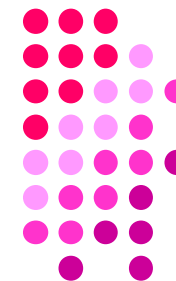
RCB class	Number	Deaths	HR (95% CI)	<i>P</i> interaction
I	40	3	0.92 (0.54 - 1.58)	0.008
II	188	58	0.75 (0.63 - 0.89)	
III	147	102	0.92 (0.82 - 1.04)	

Hazard ratio for OS per 10% RD TIL increment



**Figure 2.** Prognostic interactions between RCB class and RD TILs. The forest plots demonstrate the prognostic association of RD TILs by RCB class for recurrence-free survival (A) and for overall survival (C). The Kaplan-Meier curves demonstrating survival by a TIL level cut-off value of 20% for RCB class I, II, and III are shown for both recurrence-free survival (B) and overall survival (D). HR, hazard ratio; 95% CI, 95% confidence intervals; RFS, recurrence-free survival; OS, overall survival.

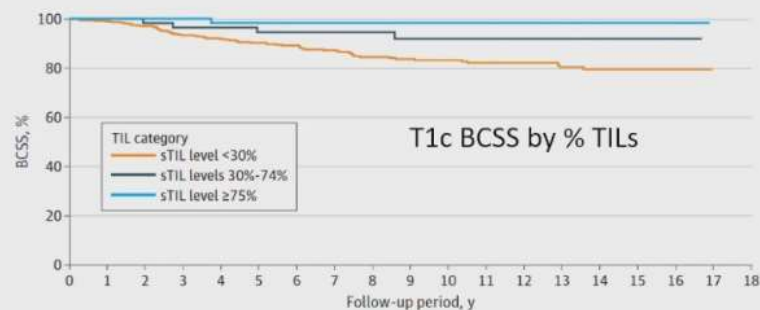
# Adjuvant treatment for all TN eBC?



## 10 Year BCSS by TILs

TILs	<30%	30-74%	≥75%
All stage I	87%	94% HR 0.38 (95% CI 0.17-0.87)	93% HR 0.50 (95% CI 0.25-1.00)
T1a/b	92%	97% HR 0.41 (95%CI, 0.10-1.73)	89% HR 1.37 (95% CI, 0.62-3.05)
T1c	83%	91% HR 0.40 (95%CI, 0.15-1.10)	98% HR 0.09 (95% CI, 0.01-0.68)

c sTIL cutoff at <30%, 30%-74%, and ≥75%



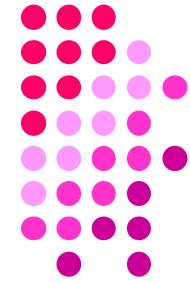
No. at risk	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
sTIL level <30%	428	420	399	374	358	342	322	267	228	193	161	138	111	93	68	38			
sTIL levels 30%-74%	58	57	54	52	52	50	47	44	40	33	28	25	21	18	15	10			
sTIL level ≥75%	62	61	60	57	56	56	55	52	41	33	27	21	16	12	7	3			

Geurts et al (Kok), JAMA Onc 2024



Hope S. Rugo  
USA

# Adjuvant treatment for all TN eBC?



- **CT recommended for:**
  - All pT1c N0
  - Most pT1b N0
  - Highly selected young patients with smaller tumors AND high risk features
- **CT is not recommended for:**
  - Most pT1a
  - Low grade good prognosis rare s



- Stratifying treatment based on TILs



BARCELONA 2024 **ESMO** congress

TNBC-DX genomic test in early-stage TNBC treated with neoadjuvant taxane-based therapy without immunotherapy

Miguel Martin, Oleg Gluz, Guillermo Villacampa,



# Hereditary BC

## Introduction



Approximately 5-10% of breast cancers (BC) are associated with a germline pathogenic variant (PV) or likely-PV (L/PV) in one of several genes

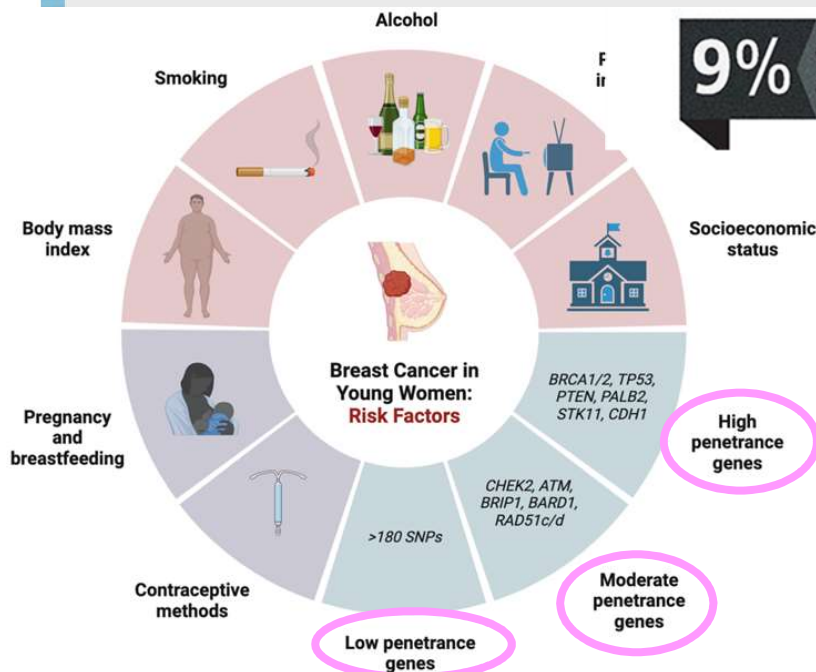
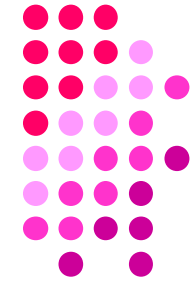
Most common germline PVs associated with BC – *BRCA1* & *BRCA2*

What we find in terms of hereditary predisposition genes including prevalence will depend on where we look (age, subtype, stage, ethnicity, family history)

Initial high threshold for guidelines reflected factors that have changed over time including - cost, clinical utility, guidelines & measures for screening & risk-reduction



Shani Paluch-Shimon  
Israel

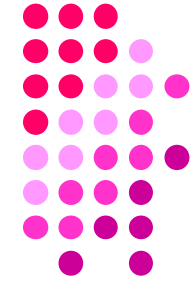


**9%** of all breast cancers diagnosed before the age of 40 are attributable to mutations in **BRCA1 or BRCA2** genes



**Low incidence**  
**Unexpected finding**  
**CHALLENGES OF DIAGNOSING BREAST CANCER IN YOUNG WOMEN**  
 Dense breast tissue  
 Lack of regular screening programs

# Hereditary BC



## Guidelines

Majority of international guidelines still focus on risk-adapted approach: age, family history, triple negative breast cancer, ancestry

Some international guidelines also recommend testing of patients eligible for PARP inhibitors

The American Society of Breast Surgeons recommend testing ALL women with a personal history of breast cancer



Shani Paluch-Shimon  
Israel



### NCCN Guidelines Version 3.2025 Hereditary Cancer Testing Criteria

[NCCN Guidelines Index](#)  
[Table of Contents](#)  
[Discussion](#)

TESTING CRITERIA FOR HIGH-PENETRANCE BREAST CANCER SUSCEPTIBILITY GENES  
(Genes such as *BRCA1*, *BRCA2*, *CDH1*, *PALB2*, *PTEN*, *STK11*, and *TP53*. See [GENE-A](#)<sup>a,f,g,h,i</sup>)

Testing is clinically indicated in the following scenarios:	
• See General Testing Criteria on <a href="#">CRIT-1</a> .	
• Personal history of breast cancer with specific features:	
<ul style="list-style-type: none"> <li>▶ ≤50 y</li> <li>◊ Any age:                             <ul style="list-style-type: none"> <li>◊ Treatment indications                                     <ul style="list-style-type: none"> <li>- To aid in systemic treatment decisions using PARP inhibitors for breast cancer in the metastatic setting<sup>h</sup> (<a href="#">NCCN Guidelines for Breast Cancer</a>)</li> <li>- To aid in adjuvant treatment decisions with olaparib for high-risk<sup>i</sup> HER2-negative breast cancer<sup>l</sup></li> </ul> </li> <li>◊ Pathology/histology                                     <ul style="list-style-type: none"> <li>- Triple-negative breast cancer</li> <li>- Multiple primary breast cancers (synchronous or metachronous)<sup>h</sup></li> <li>- Lobular breast cancer with personal or family history of diffuse gastric cancer (<a href="#">NCCN Guidelines for Genetic/Familial High-Risk Assessment: Colorectal, Endometrial, and Gastric</a>)</li> </ul> </li> <li>◊ Male breast cancer</li> <li>◊ Ancestry: Ashkenazi Jewish</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>▶ Any age (continued):</li> <li>◊ Family history<sup>h</sup> <ul style="list-style-type: none"> <li>- ≥1 close blood relative<sup>o</sup> with ANY:                             <ul style="list-style-type: none"> <li>• breast cancer at age ≤50 y</li> <li>• male breast cancer</li> <li>• ovarian cancer</li> <li>• pancreatic cancer</li> <li>• prostate cancer with metastatic,<sup>p</sup> or high- or very-high-risk group (Initial Risk Stratification and Staging Workup in <a href="#">NCCN Guidelines for</a></li> </ul> </li> </ul> </li> </ul>
	<ul style="list-style-type: none"> <li>849 × 657 <a href="#">Breast Cancer</a></li> <li>(any grade) on the same side of the family including the patient with breast cancer</li> </ul>
• Family history criteria: unaffected; or affected but does not meet above criteria	
▶ Individual with a first- or second-degree blood relative meeting any of the criteria listed above (except unaffected individuals whose relatives meet criteria only for systemic therapy decision-making). <sup>q</sup>	
▶ Individuals who have a probability >5% of a <i>BRCA1/2</i> P/LP variant based on prior probability models (eg, Tyrer-Cuzick, <i>BRCAPro</i> , <i>CanRisk</i> ). <sup>r</sup>	

Criteria met → [GENE-1](#)

If testing criteria not met, consider testing criteria for other hereditary syndromes

If criteria for other hereditary syndromes not met, then cancer screening as per [NCCN Screening Guidelines](#)

CARCINOMA MAMMARIO IN STADIO PRECOCE

LINEE GUIDA  
2023



1. Pazienti con caratteristiche cliniche associate a un'umentata probabilità di variante patogenetica (VP) di *BRCA1/2*, indipendentemente dalla storia familiare:
2. Pazienti senza caratteristiche cliniche associate a un'umentata probabilità di VP *BRCA*, eleggibili a trattamenti specifici in caso di VP germinale:



### SPECIAL ARTICLE

Identification of germline mutations informs disease management and follow-up; patients with *gBRCA1/2m* and other PVs may opt for different locoregional breast cancer management and contralateral surgical prophylaxis, and warrant more intensive risk-reducing measures for other malignancies such as ovarian cancer.<sup>1</sup> High-risk patients with *gBRCA1/2m* may be candidates for adjuvant therapy with a poly (ADP-ribose) polymerase (PARP) inhibitor.

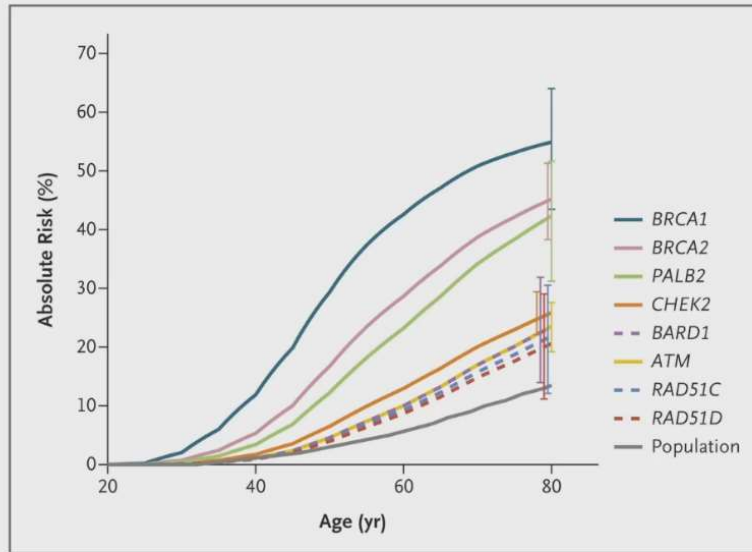
Germline testing for PVs in *BRCA1/2* should be offered for patients who meet the respective national criteria and for those who are candidates for adjuvant olaparib therapy.<sup>20,21</sup>

# Hereditary BC

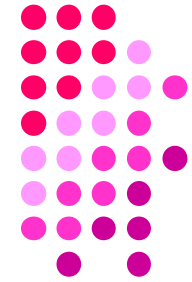
## Breast Cancer Risk

The NEW ENGLAND JOURNAL of MEDICINE

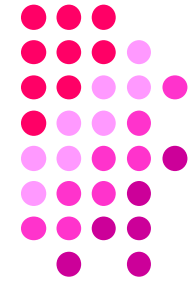
(Breast Cancer Association Consortium, 2021)



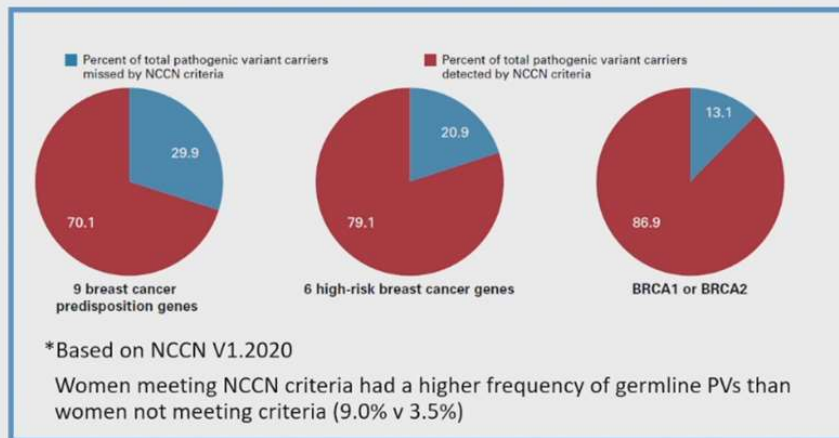
Kelly Metcalfe  
Canada



# Hereditary BC



## Guidelines based testing will miss some PV carriers

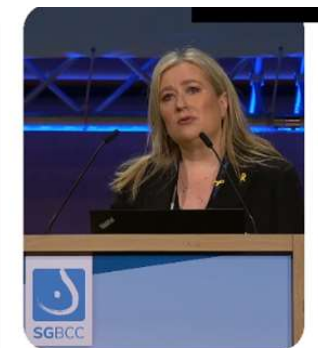


The "gap" between guidelines vs universal testing depends on many factors – including which genes panels are tested for!

Other studies have shown that "out-of-guideline" detection changed clinical management including in women >65yro

PV=pathogenic variant

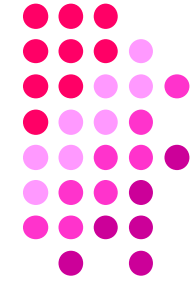
Yadav et al, JCO, 2020; Whitworth et al, 2022, JAMA Network Open, 2022



Shani Paluch-Shimon  
Israel



# Hereditary BC



## GS1-08: Association between Risk-reducing Surgeries and Survival in Young BRCA Carriers with Breast Cancer: Results from an International Cohort Study

Matteo Lambertini<sup>1,2</sup>, Amir Sonnenblick<sup>3</sup>, Elisa Agostinetti<sup>4</sup>, Raphaëlle Bas<sup>5</sup>, Hee Jeong Kim<sup>6</sup>, Maria Alice Franzoi<sup>7</sup>, Rinat Bernstein Molho<sup>8</sup>, Sabine Linn<sup>9</sup>, Ava Kwong<sup>10,11,12</sup>, Katarzyna Pogoda<sup>13</sup>, Judith Balmana<sup>14</sup>, Ann Smeets<sup>15</sup>, Jyoti Bajpai<sup>16</sup>, Halle C.F. Moore<sup>17</sup>, Ann H. Partridge<sup>18</sup>, Kelly-Anne Phillips<sup>19,20</sup>, Angela Toss<sup>21</sup>, Christine Rousset-Jablonski<sup>22</sup>, Fedro A. Peccatori<sup>23</sup>, Tiphaine Renaud<sup>24</sup>, Alberta Ferrari<sup>25</sup>, Shani Paluch-Shimon<sup>26</sup>, Pablo Mando<sup>27</sup>, Jeong Eon Lee<sup>28</sup>, Robert Fruscio<sup>29</sup>, Wanda Cui<sup>10,29</sup>, Stephanie M. Wong<sup>30</sup>, Claudio Vernieri<sup>31</sup>, Kathryn J. Ruddy<sup>32</sup>, Maria Vittoria Dieci<sup>33,34</sup>, Alexios Matikas<sup>35</sup>, Mariya Rozenblit<sup>36</sup>, Deniz Can Guven<sup>37</sup>, Minna Lee<sup>38</sup>, Cynthia Villarreal-Garza<sup>39</sup>, Shelley E. Hwang<sup>40</sup>, Laura De Marchis<sup>41</sup>, Fabio Puglisi<sup>42</sup>, Zoe Kemp<sup>43</sup>, Pedro A. Meireles<sup>44</sup>, Anastasia Parokonnay<sup>45</sup>, Gustavo Werutsky<sup>46</sup>, Maiko Okano<sup>47,48</sup>, Hatem A. Azim Jr.<sup>49</sup>, Kleida Mat<sup>50</sup>, Shoshana Rosenberg<sup>51</sup>, Richard Gelber<sup>52</sup>, Luca Boni<sup>53</sup>, Eva Blondeaux<sup>53</sup>

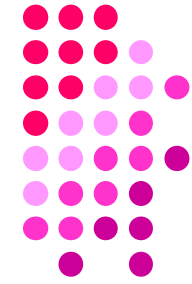


	N (%) n = 5290
<b>Region:</b>	
Latin America/South America	271 (5.1)
Australia/Oceania	179 (3.4)
Northern Europe	741 (14.0)
Eastern Europe	316 (6.0)
North America	629 (11.9)
Southern Europe	2059 (38.9)
Asia	1088 (20.6)
Africa	7 (0.1)
<b>Income:</b>	
High income	4584 (86.7)
Low-middle income	706 (13.4)
<b>Age at diagnosis, median (IQR) years</b>	35.0 (31.0-38.0)
<b>Age at diagnosis:</b>	
≤ 30 years	1105 (20.9)
31-35 years	1929 (36.5)
36-40 years	2256 (42.6)
<b>Timing of BRCA testing</b>	
Tested before or at diagnosis	2581 (48.8)
Tested after diagnosis	2411 (45.6)
Unknown date of BRCA testing	298 (5.6)

	N (%) n = 5290
<b>Specific BRCA gene</b>	
BRCA1	3361 (63.5)
BRCA2	1891 (35.7)
BRCA1 and BRCA2	31 (0.6)
BRCA, unknown if 1 or 2	7 (0.1)
<b>Tumor size:</b>	
T1 (≤ 2 cm)	1929 (36.5)
T2 (>2 – ≤ 5 cm)	2411 (45.6)
T3 (> 5 cm) - T4	719 (13.6)
Unknown	231 (4.4)
<b>Nodal status:</b>	
N0	2708 (51.2)
N1	1758 (33.2)
N2 – N3	643 (12.6)
Unknown	181 (3.4)
<b>Tumor subtype:</b>	
Luminal-like	1898 (35.9)
TNBC	2596 (49.1)
HER2-positive	377 (7.1)
Unknown	419 (7.9)
<b>Chemotherapy use:</b>	
Yes	4860 (91.8)
No	401 (7.6)
Unknown	29 (0.5)

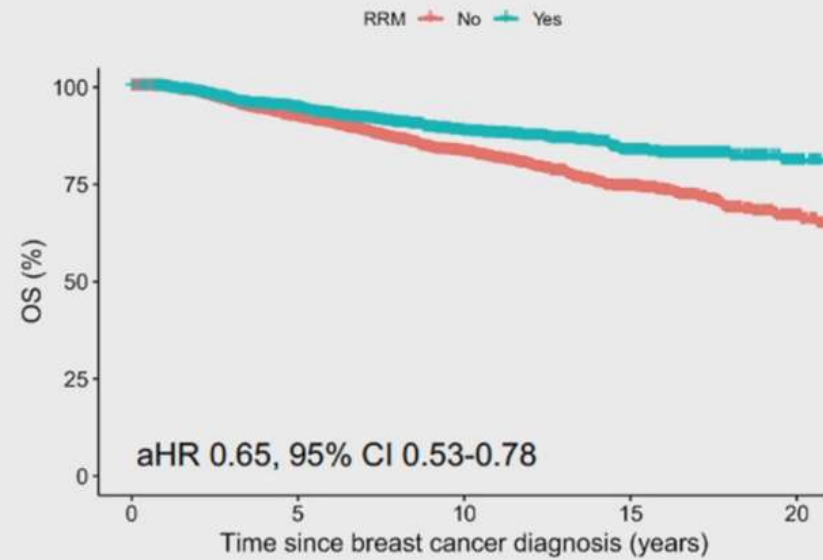


# Hereditary BC



Lambertini et al. 2024

## Overall survival



### Number at risk

	0	5	10	15	20
RRM No	5188	2092	1033	374	85
RRM Yes	102	1487	717	266	54

Time since breast cancer diagnosis (years)

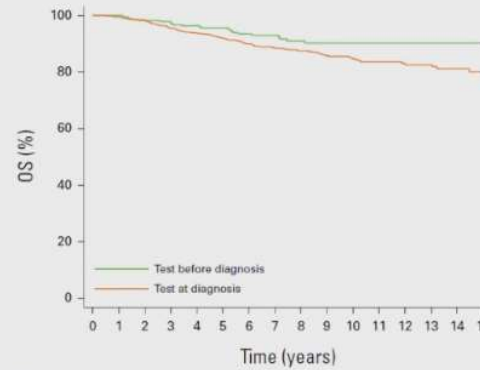
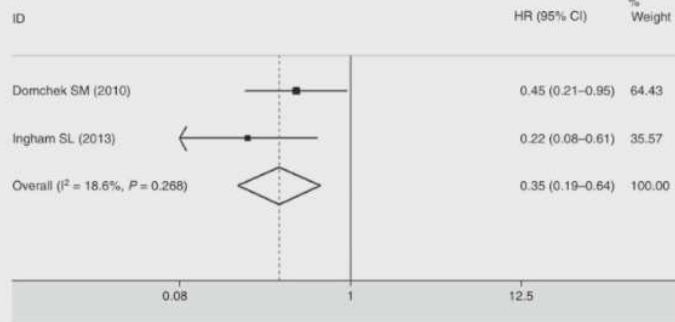
# Hereditary BC

## How important is the impact of cascade testing?



RRSO saves lives in unaffected *BRCA1/2* carriers

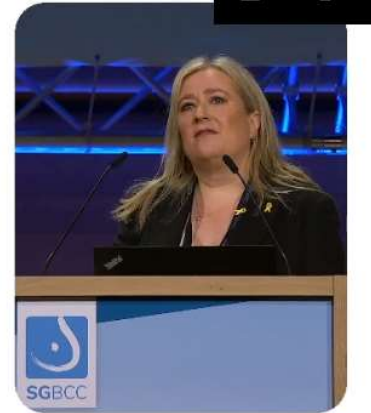
Knowing *BRCA* status *prior* to diagnosis is associated with a better outcome for BC



Number at risk	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Test before diagnosis	411	399	358	316	272	234	195	160	119	91	77	61	48	37	27	21
Test at diagnosis	1671	1619	1467	1248	1036	849	695	548	422	335	265	212	162	127	83	56

RRSO= Risk-reducing salpingo-ophorectomy ; BC=breast cancer

Li et al, Clin Cancer Res 2016; Hadar et al, JAMA Oncology, 2020; Lubinski, JAMA Oncology, 2024; Lambertini, JCO, 2025



Shani Paluch-Shimon  
Israel



...and the last 2 suggestions...



19<sup>TH</sup> ST.GALLEN INTERNATIONAL BREAST CANCER CONFERENCE 2025  
12 – 15 March 2025, Vienna / Austria

## Oncofertility Counseling is Mandatory As soon as Possible after Diagnosis



SPECIAL ARTICLE

Fertility preservation and post-treatment pregnancies in post-pubertal cancer patients: ESMO Clinical Practice Guidelines<sup>1</sup>

M. Lambertini<sup>1</sup>, F. A. Peccatori<sup>2</sup>, I. Demeestere<sup>3</sup>, F. Amant<sup>4</sup>, C. Wynn<sup>5</sup>, J.-B. Stukenborg<sup>6</sup>, S. Paluch-Shimon<sup>7</sup>, M. J. Halaska<sup>8</sup>, C. Utzler<sup>9</sup>, J. Meisner<sup>10</sup>, M. von Wolff<sup>11</sup>, R. A. Anderson<sup>12</sup> & R. Jordan<sup>13</sup>, on behalf of the ESMO Guidelines Committee<sup>1</sup>

- All cancer patients of reproductive age should receive complete oncofertility counselling **as early as possible** in the treatment planning process, **irrespective of the type and stage of disease** [III, A]
- As there is no absolute threshold of exposure to anticancer therapies that determines gonadal failure and infertility, **every patient** should be considered as being at **potential risk of developing treatment-related gonadotoxicity** [V, A]

Lambertini M et al, Ann Oncol 2020;31(12):1664



Matteo Lambertini  
Italy



### Transgender (TG) and nonbinary (NB) persons

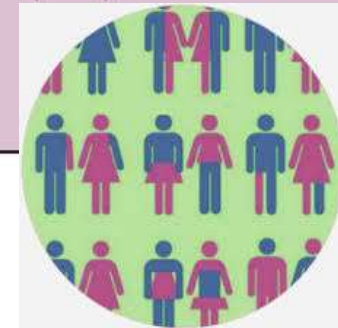
Knowledge about the risks of breast/gynecological cancers in TG and NB persons receiving gender-affirming hormone therapy is limited.

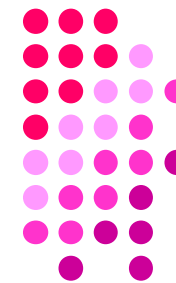
Even less information exists regarding TG/NB individuals with known genetic predisposition.

Cancer registries should include TG/NB identities, and further education and research should be implemented to fill the gap in information and counseling in this population.

Expert opinion

100%





*...grazie per l'attenzione!*