

Realidades y esperanzas

Abordaje multidisciplinar del cáncer de mama

Avances en (neo)adyuvancia

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Organizado por:



investigación en cáncer de mama

What's new in 2023: treatment tailoring and optimization

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Luminal

Escalating adjuvant therapy

• Incorporation of CDK4/6-inhibitors: NATALEE, update of MONARCH-E

De-escalating therapy

- TAM-01: Low-dose tamoxifen for prevention
- POSITIVE: Interrupting ET to attempt pregnancy

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De-escalating therapy using biomarkers

- PHERGAIN trial (PET-CT)
- Utility of HER2DX in treatment tailoring

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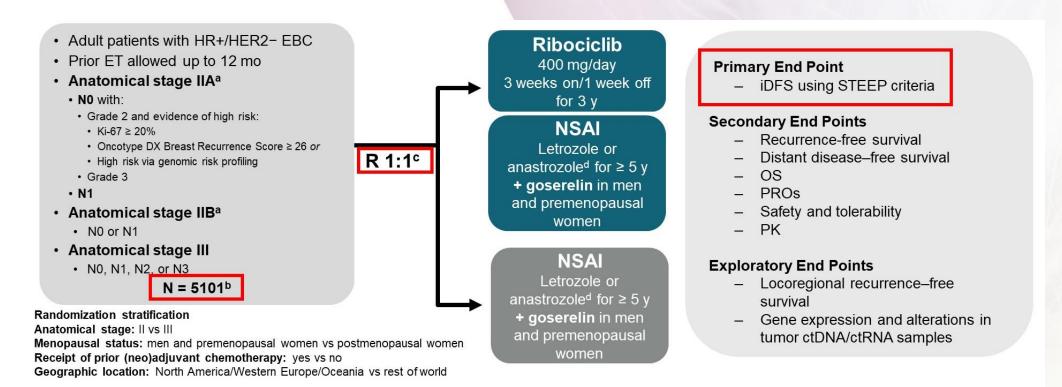
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- Utility of HER2DX in treatment tailoring

Triple negative

De-escalating therapy

- NeoPACT: Omitting anthracyclines
- Coming soon: Using TILs to de-escalate therapy

NATALEE Trial

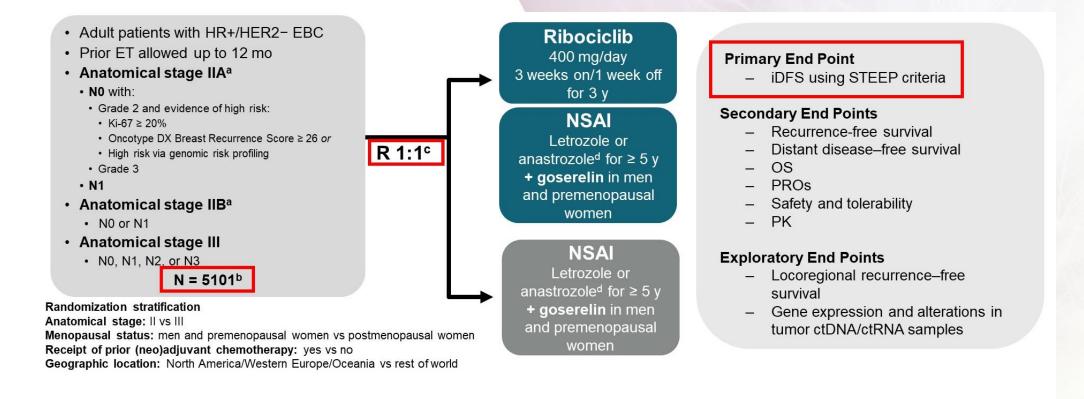


^{*} Enrollment of patients with stage II disease was capped at 40%, \$5101 patients were randomized from 10 Jan 2019 to 20 April 2021. Open-label design. Per investigator choice.

CT, chemotherapy, ctDNA/RNA, circulating tumor DNA/RNA, EBC, early breast cancer, HER2, human epidermal growth factor receptor (; IDFS, invasive disease-free survival; N, node; NSAI, nonsteroidal aromatase inhibitor; OS, overall survival; PAM50, prediction analysis of microarray 50; PK, pharmacokinetics; PRO, patient reported outcome; R, randomized; STEEP, Standardized Definitions for Efficacy End Points in Adjuvant Breast Cancer Trials.

1. ClinicalTrials gov. https://clinicaltrials.gov/ct2/show/NCT03701334. Accessed April 6 2023. 2. Slamon DJ, et al. J Clin Oncol. 2019;37(15 suppl) [abstract TP8597].

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- 56% post-menopausal
- Stage: IIA 20%, IIB 20%, III 60%
- Nodal status: N0 28%, N1 41%, N2/3 19%
- Prior ET 71%
- Prior (neo)adjuvant CT 88%

NATALEE Trial: Patient disposition

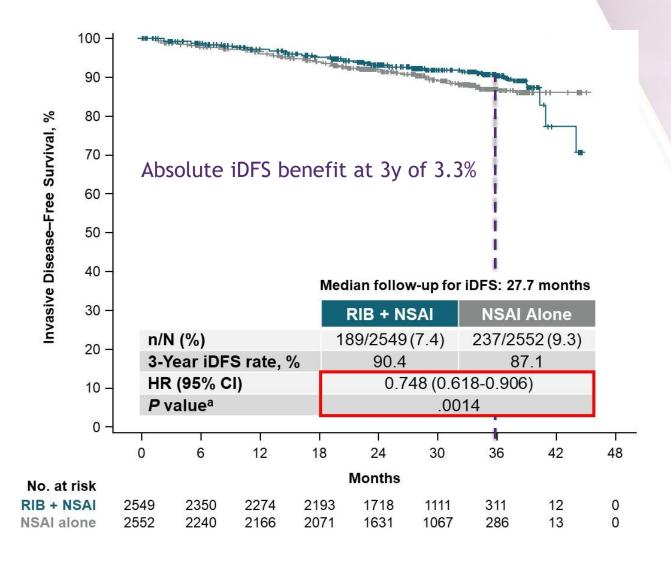
Median follow-up of 34.0 months (minimum, 21 months)^a

| Parameter, n % | RIB + NSAI n = 2549 | NSAI alone n = 2552 |
|---|--|---|
| Patients treated Patients with treatment ongoing ^b | 2526 (99) 1984 (78) | 2442 (96) 1826 (72) |
| Patients who discontinued NSAI | 542 (21) | 617 (24) |
| Primary reason for treatment discontinuation (NSAI) ^c Adverse Event Patient/Physician decision Disease relapse Other ^d Lost to follow-up Death ^e | 118 (5) 256 (10) 142 (6) 13 (0.5) 8 (0.3) 5 (0.2) | 105 (4) 296 (12) 186 (7) 15 (0.6) 12 (0.5) 3 (0.1) |
| Patients who completed ribociclib treatment ≥2 years (including ongoing) Completed 3 years RIB Primary reason for early discontinuation of RIBf | 1449 (57) 515 (20) | - - - |
| Adverse Event | 477 (19) | - |

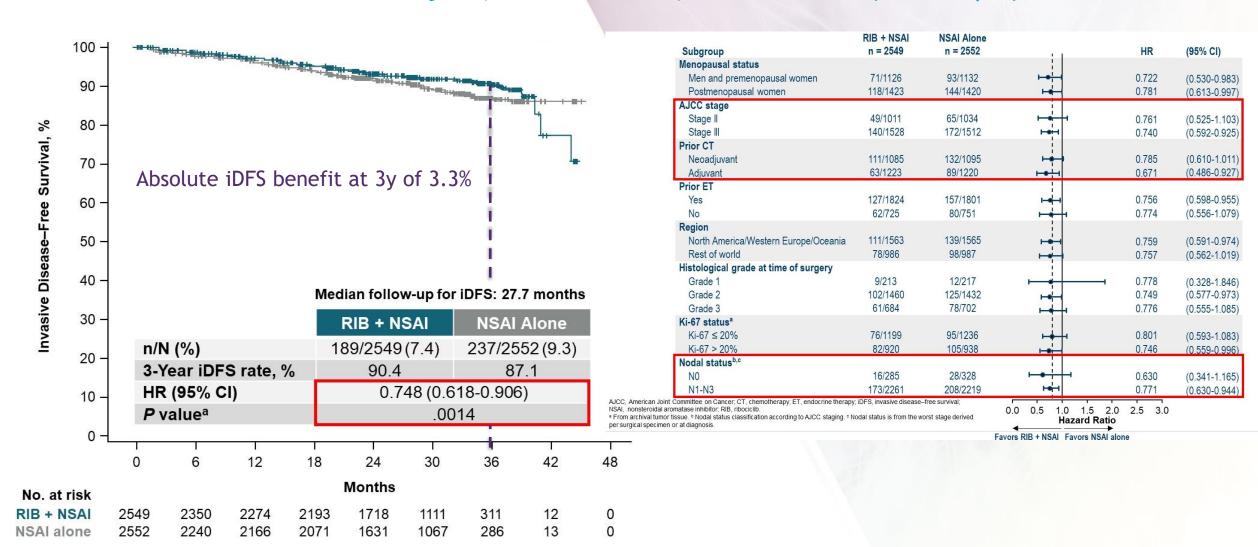
NSAI, nonsteroidal aromatase inhibitor; RIB, ribociclib.

Randomization to data cutoff of January 11, 2023. In the RIB + NSAI arm, the treatment is considered ongoing if the patient is continuing either study treatment. Causes of death in the RIB + NSAI arm were COVID-19 pneumonia, pulmonary embolism, and traffic accident, and in patients who had previously discontinued RIB but remained on NSAI, the causes of death were cardiac arrest and brain edema; for patients in the NSAI alone arm, the causes of death were myocardial infraction, sepsis, and unknown. RIB could be discontinued early due to AEs, all other reasons for discontinuations would require both components be discontinued and are captured above.

NATALEE Trial: Second interim analysis (426 iDFS events) with a median follow-up of 27.7 months



NATALEE Trial: Second interim analysis (426 iDFS events) with a median follow-up of 27.7 months



NATALEE Trial: Safety

| | RIB + NSAI n = 2524 | | NSAI Alone n = 2444 | |
|---------------------------------------|------------------------|-----------|------------------------|-----------|
| AESIs, % | Any Grade | Grade ≥ 3 | Any Grade | Grade ≥ 3 |
| Neutropeniaª | 62.1 | 43.8 | 4.5 | 0.8 |
| Febrile neutropenia | 0.3 | 0.3 | 0 | 0 |
| Liver-related AEs ^b | 25.4 | 8.3 | 10.6 | 1.5 |
| QT interval prolongation ^c | 5.2 | 1.0 | 1.2 | 0.5 |
| ECG QT prolonged | 4.2 | 0.2 | 0.7 | 0 |
| ILD pneumonitisd | 1.5 | 0 | 0.8 | 0.1 |
| Other clinically relevant AEs,% | | | | |
| Arthralgia | 36.5 | 1.0 | 42.5 | 1.3 |
| Nausea | 23.0 | 0.2 | 7.5 | 0.04 |
| Headache | 22.0 | 0.4 | 16.5 | 0.2 |
| Fatigue | 21.9 | 0.7 | 12.7 | 0.2 |
| Diarrhea | 14.2 | 0.6 | 5.4 | 0.1 |
| VTE | 1.4 | 0.6 | 0.6 | 0.2 |

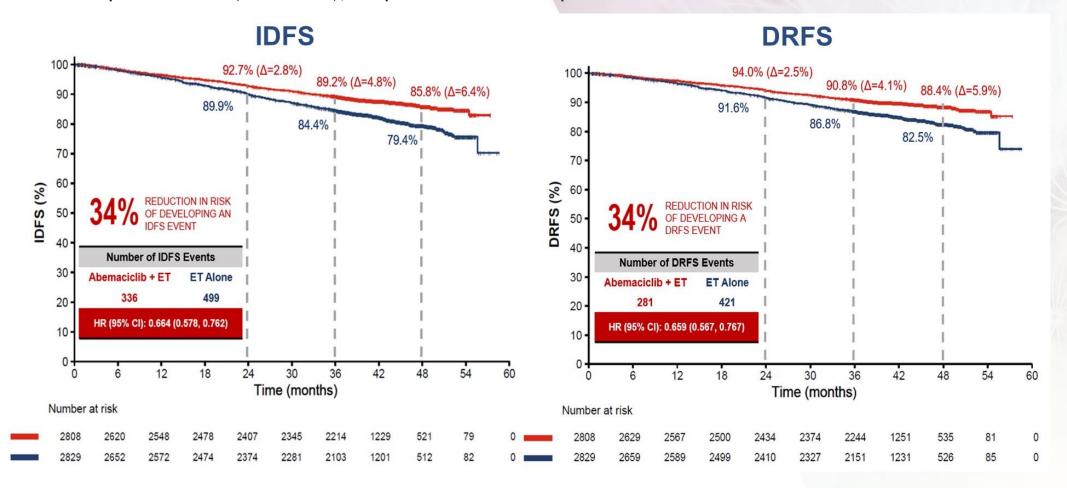
- The most frequent all-grade AEs (RIB + NSAI vs NSAI alone) leading to discontinuation were:
 - Liver-related AEs: 8.9% vs 0.1%
 - Arthralgia: 1.3% vs 1.9%
- Most of the AE discontinuations of RIB occurred early in treatment
 - Median time of these discontinuations was 4 months

AE, adverse event, AESI, adverse event of special interest; ILD, interstitial lung disease; MedDRA, Medical Dictionary for Regulatory Activities; NSAI, nonsteroidal aromatase inhibitor; RIB, ribociclib.

This is a grouped term that combines neutropenia and neutropenia a

Monarch-E Trial: iDFS at the second OS interim analysis (Lancet Oncol 2023)

Median follow-up 42 months (IQR 37-47), all patients have completed abemaciclib



OS: HR 0.929 (95% CI 0.748 1.153), Log-rank p=0.50

Monarch-E Trial: iDFS by age

| | | IDFS | | DRFS | | |
|---------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| | ITT | <65 | ≥65 | ITT | <65 | ≥65 |
| Events/N | | | | | | |
| Abemaciclib + ET | 336 /2808 | 270 /2371 | 66 /437 | 281 /2808 | 230 /2371 | 51 /437 |
| ET alone | 499 /2829 | 414 /2416 | 85 /413 | 421 /2829 | 353 /2416 | 68 /413 |
| HR (95% CI) | 0.664 (0.578, 0.762) | 0.646 (0.554, 0.753) | 0.767 (0.556, 1.059) | 0.659 (0.567, 0.767) | 0.647 (0.548, 0.764) | 0.748 (0.520, 1.077) |
| Interaction p-value | NA | 0. | 35 | NA | 0.4 | 49 |
| 4-year rate, % | | | | | | |
| Abemaciclib + ET | 85.8 | 86.5 | 82.0 | 88.4 | 88.8 | 86.1 |
| ET alone | 79.4 | 79.8 | 76.8 | 82.5 | 82.6 | 81.5 |
| Absolute benefit | 6.4 | 6.7 | 5.2 | 5.9 | 6.2 | 4.6 |

Consistent benefit of abemaciclib in iDFS and DRFS independently of age

Monarch-E Trial: toxicity and dose modifications by age

| | | Abemaciclib + ET | | |
|-------------------------|-------|------------------|--------|-------|
| | | Overall | <65 | ≥65* |
| AE, % | Grade | n=2791 | n=2361 | n=430 |
| Any AE | Any | 98 | 98 | 99 |
| Ally AL | G≥3 | 50 | 49 | 54 |
| Clinically relevant AEs | | | | |
| | G1 | 45 | 46 | 37 |
| Diarrhea | G2 | 31 | 31 | 30 |
| | G3 | 8 | 7 | 12 |
| | G1 | 23 | 23 | 21 |
| Fatigue | G2 | 15 | 14 | 20 |
| | G3 | 3 | 2 | 6 |
| Neutropenia | G1/2 | 26 | 27 | 22 |
| Neutropenia | G≥3 | 20 | 20 | 19 |
| ALT increase | G1/2 | 10 | 10 | 7 |
| ALT Increase | G≥3 | 3 | 3 | 3 |
| VTE | Any | 3 | 2 | 3 |
| VIE | G≥3 | 1 | 1 | 1 |
| ILD | Any | 3 | 3 | 3 |
| | G≥3 | <1 | <1 | <1 |

^{*}Patients ≥75 years had higher rates of grade 3 diarrhea and grade 2/3 fatigue

Similar AE profile independently of age

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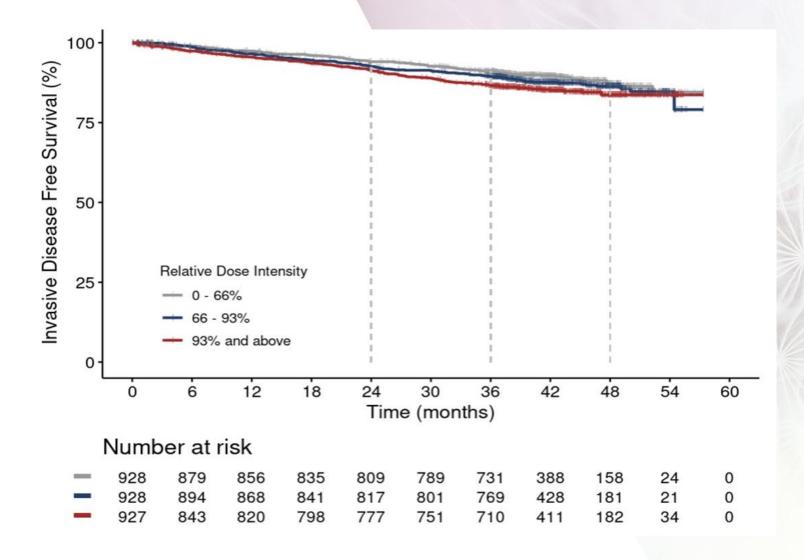
Similar AE profile independently of age

| | Abemaciclib + ET | | |
|--|------------------|--------|-------|
| | Overall | <65 | ≥65* |
| Abemaciclib dose adjustments due to AEs, % | n=2791 | n=2361 | n=430 |
| Interruptions | 62 | 60 | 68 |
| Reductions | 44 | 42 | 55 |
| Discontinuations | 18 | 15 | 38 |
| Discontinuations without prior dose reductions | 10 | 8 | 19 |

Patients >75 years had higher rates of abemaciclib dose adjustments and discontinuations due to AEs

Higher proportion of dose adjustments (including discontinuations) in older patients

Monarch-E Trial: iDFS according to relative dose intensity (RDI)*



^{*}RDI is defined as the average daily dose of abemaciclib received over the treatment duration, relative to the full dose (150mg BID)

Adjuvant CDK4/6 inhibitors

| AJCC anatomical staging ¹ | TN (M0) | NATALEE ^{2,3} | monarchE ⁴ |
|--------------------------------------|---------|--|-----------------------------|
| Stage IA | T1N0 | | |
| Stage IB | T0N1mi | | |
| | T1N1mi | | G3 or Ki67 <u>> </u> 20% |
| Stage IIA | T0N1 | | |
| | T1N1 | | G3 or Ki67 <u>></u> 20% |
| | T2N0 | G3, or G2 with Ki-67 ≥ 20% or high genomic risk ^c | |
| Stage IIB | T2N1 | | G3 or Ki67 <u>></u> 20% |
| | T3N0 | | |
| Stage IIIA | T0N2 | | |
| | T1N2 | | |
| | T2N2 | | |
| | T3N1 | | |
| | T3N2 | | |
| Stage IIIB | T4N0 | | |
| | T4N1 | | |
| | T4N2 | | |
| Stage IIIC | Any TN3 | | |

- Pre- and postmenopausal women
- Men

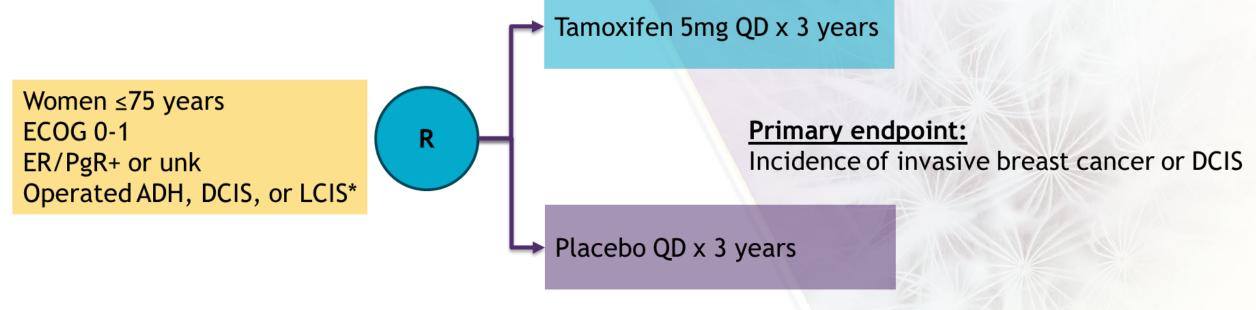
Choice of therapy will depend on approval, access, risk, long-term efficacy, safety profile, and patient preference

Not to forget:
gBRCA testing in
patients eligible
for olaparib
(OlympiA)

RS, breast cancer. clin Risk Score. c011012301C

AJCC, American Joint Committee on Cancer; G, grade; M, metastasis; N0, no nodal involvement;; N1mi, nodal micrometastases; N1, 1-3 axillary lymph nodes; N2, 4-9 axillary lymph nodes; N3
Recurrence Score; T, tumor; T0, no evidence of primary tumor; T1, tumor is 2cm or less; T2, Tumor is more than 2cm bu less than 5cm; T3, tumor is more than 5cm; T4, tumor of any size growing a Including stage IIIA (N1/N2), IIIB (N0/N1/N2), or IIIC (N3). ^b Capped at 40% (≈ 2000 patients). Simplified inclusion criteria are used in the illustration. ^c High risk as determined by Oncotype DX, P
References: 1. Amin MB, Edge SB, Greene FL, et al, eds. AJCC Cancer Staging Manual. 8th ed. New York, NY: Springer; 2017:587-636. 2. Slamon DJ, et al. J Clin Oncol. 2019;37(suppl 15) [abs (TRIO033). Clinical study protocol. V4.0. Novartis Pharmaceuticals Corp; August 27, 2020; ⁵https://clinicaltrials.gov/ct2/show/NCT03155997

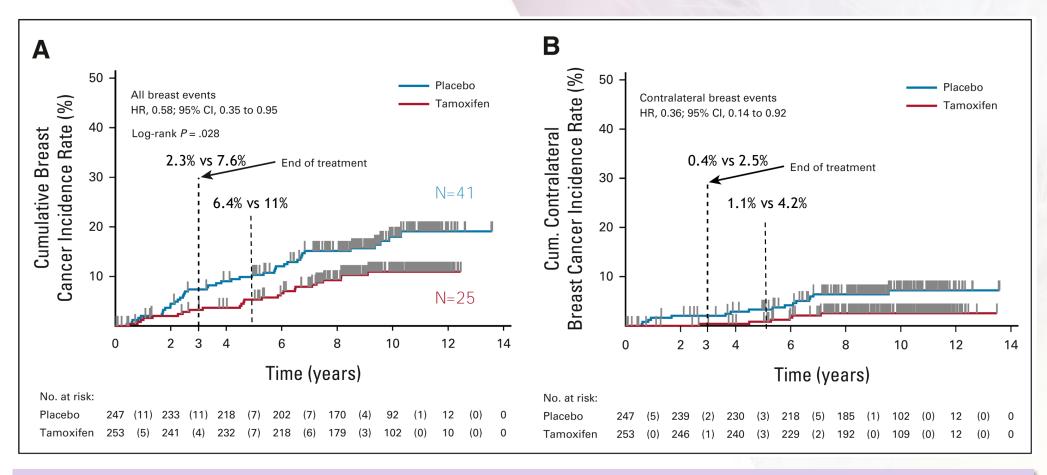
TAM-01: Low-dose tamoxifen for secondary prevention



Mean age 54

- *ADH: atypical ductal hyperplasia; DCIS: ductal carcinoma in situ; LCIS: lobular carcinoma in situ
- Pre-menopausal ~40%
- ADH 20%, LCIS 10%, DCIS 70%
- Received RT 61%

TAM-01: Low-dose tamoxifen for secondary prevention

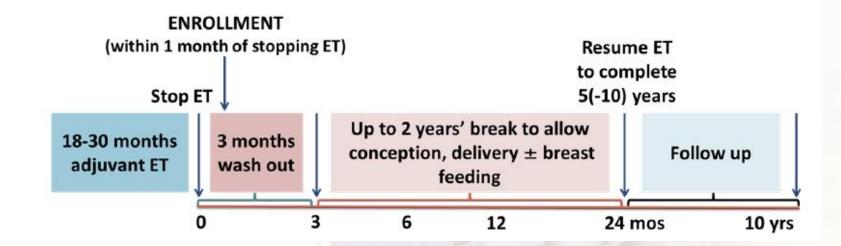


Tamoxifen 5 mg once daily for 3 years significantly prevents recurrence from noninvasive breast cancer after 7 years from treatment cessation without long-term adverse events

POSITIVE Trial: Is it safe to temporarily interrupt ET to attempt pregnancy?

N=518, median follow-up 41 months

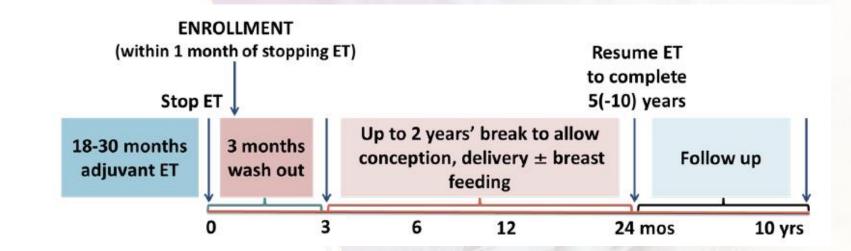
- Pre-menopausal women wishing to become pregnant
- Age ≤42
- History of stage I-III HR+ BC
- 18-30 months of prior adjuvant ET
- No clinical evidence of recurrence



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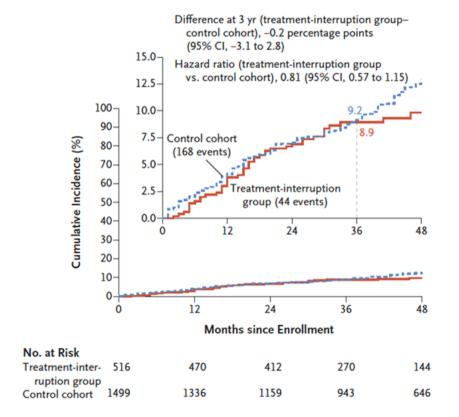


Patients' characteristics

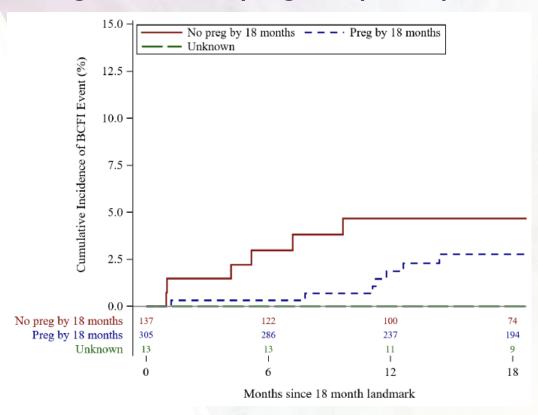
- Median age 37; 75% with no prior births
- Stage I 47%, stage II 47%, stage III 6%
- Median duration of ET prior to enrollment: 23.4 months
 - SERM alone 42%
 - SERM + OFS 36%
 - AI + OFS 16%
- Prior (neo)adjuvant CT 62%

POSITIVE Trial: Is it safe to temporarily interrupt ET to attempt pregnancy? YES!

All population



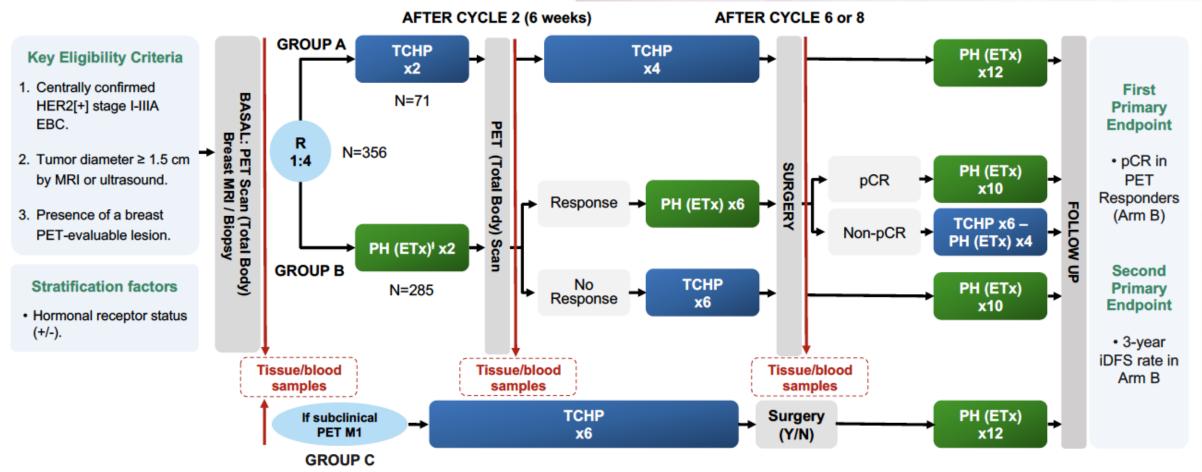
Pregnant vs non-pregnant participants



No impact in short-term disease outcomes

- 3y BCFI similar to SOFT / TEXT (and varied according to clinical-pathological characteristics
- BCFI events not different between pregnant and non pregnant participants Birth defects were low (2%), not clearly associated with treatment exposure

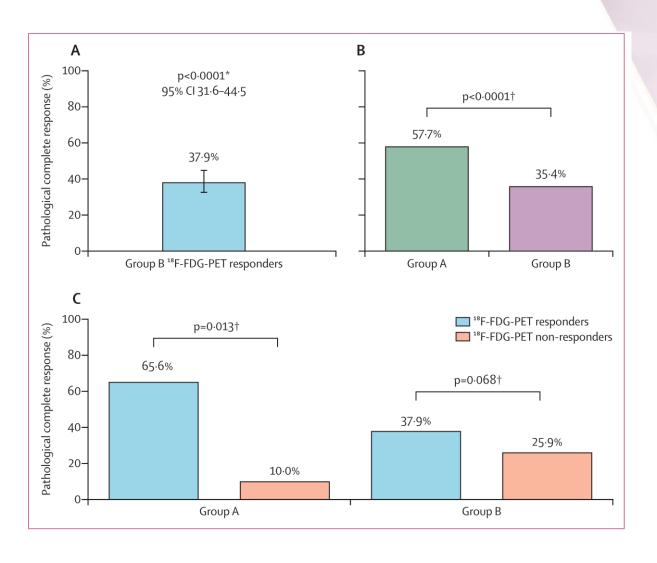
PHERGAIN Trial: using PET-CT to tailor therapy



C: Carboplatin; D: Docetaxel; EBC: Early breast cancer; ETx: Endocrine therapy (letrozole post-menopausal/tamoxifen pre-menopausal), Adjuvant ETx up to 3 years from surgery; PET: ¹⁸F-fluorodeoxyglucose positron emission tomography/computed tomography; H: Trastuzumab SC; HER2: Human Epidermal Growth Factor Receptor 2; iDFS: Invasive disease-free survival; MRI: Magnetic resonance Imaging; P: Pertuzumab IV; R: Randomization; TCHP: Trastuzumab, pertuzumab, docetaxel, and carboplatin. * All hormonal receptor-positive patients received ETx concomitantly with PH (except on chemotherapy).

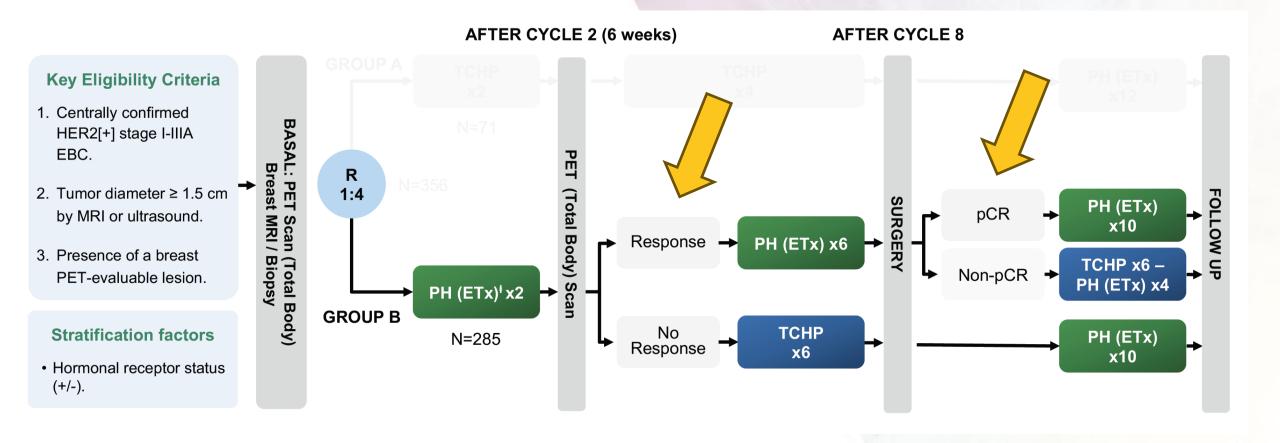
- PET RESPONDERS: RECIST responders after cycle 2 with SUV_{max} reduction ≥40%.
- pCR, Pathological complete response (ypT0/isN0)

PHERGAIN Trial: using PET-CT to tailor therapy



- Excellent pCR (with and without CT) in patients with PET response
- Patients with no PET response have low pCR rates, independently of the use of CT

PHERGAIN Trial: using PET-CT to tailor therapy



PHERGAIN Trial: using PET-CT to tailor therapy

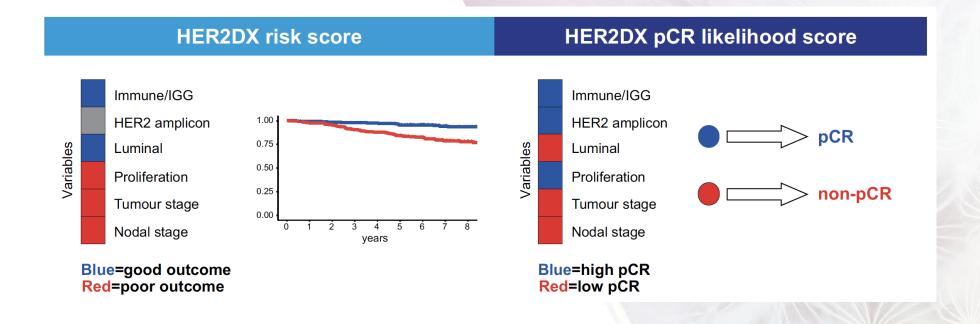
In patients with PET response after 2 cycles of HP (**Group B**), outcomes are excellent, independently of the use of neoadjuvant CT

| | Group A (n = 63) | Group B (n = 267) | Group B without CT (n = 86) |
|-------------|---------------------|----------------------|--------------------------------|
| 3-year iDFS | 98.3% | 95.4% | 98.8% |
| (95% CI) | (95.1–100%) | (92.8–98.0%) | (96.3–100%) |
| 3-year DDFS | 98.3% | 96.5% | 100% |
| (95% CI) | (95.1–100%) | (94.3–98.8%) | (100–100%) |
| | (n = 71) | (n = 285) | (n = 86) |
| 3-year EFS | 98.4% | 93.5% | 98.8% |
| (95% CI) | (95.3–100%) | (90.7–96.5%) | (96.6–100%) |
| 3-year OS | 98.4% | 98.5% | 100% |
| (95% CI) | (95.3–100%) | (97.1–100%) | (100–100%) |

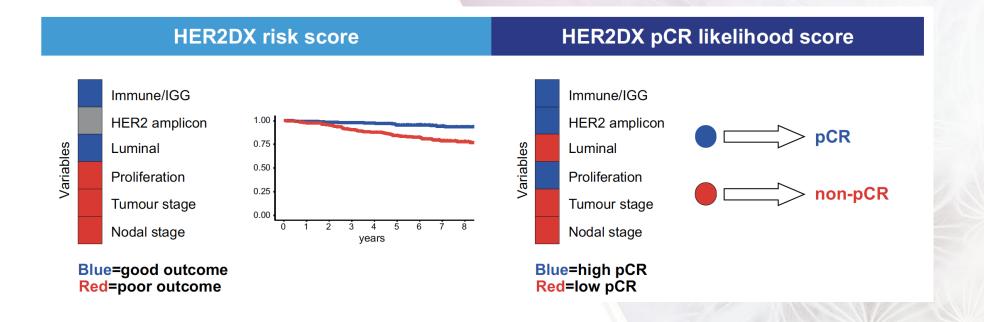
None of these comparisons between the groups reached statistical significance. iDFS and DDFS are defined from the time of surgery; EFS and OS are defined from randomization.

12 iDFS events: 11 relapse (8 distant), 1 non-related death witout recurrence

HER2DX

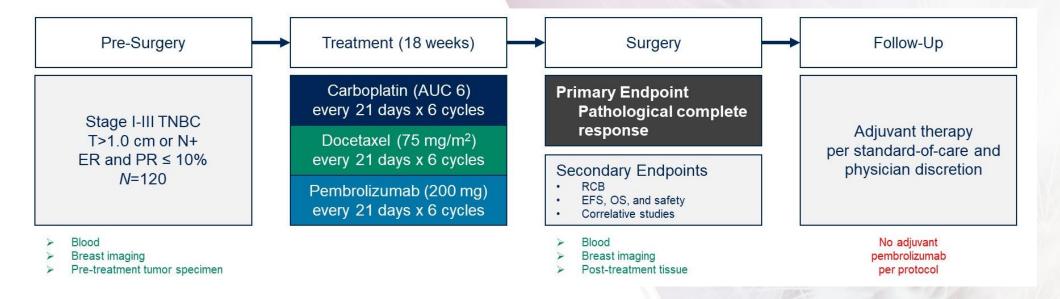


HER2DX

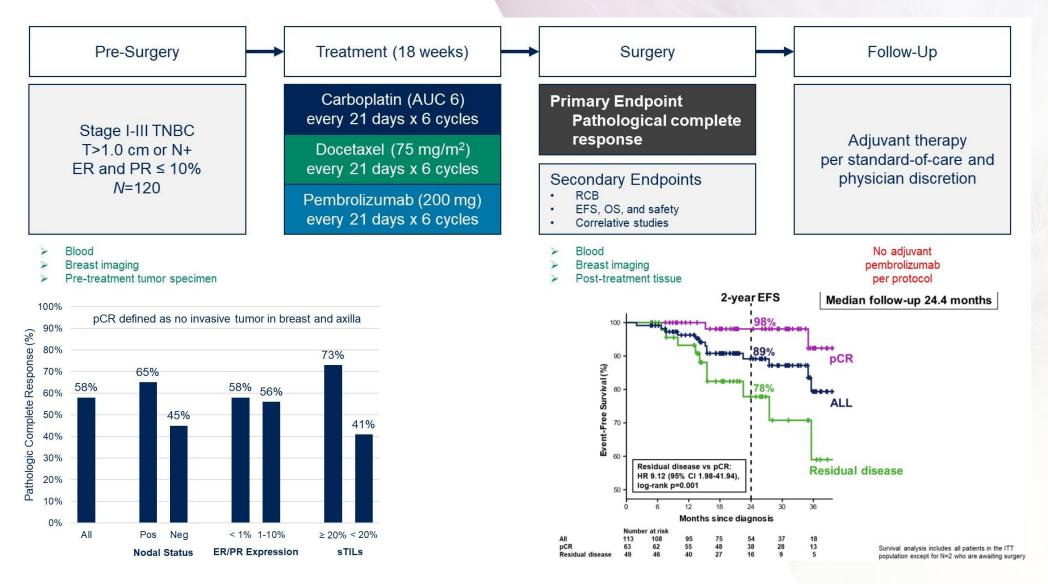


- HER2DX pCR score predicts pCR independently of HR status and treatment regimen
 - pCR-high group benefits the most from neoadjuvant dual HER2 blockade
 - pCR-medium group benefits the most from multi-agent CT vs single taxane
 - pCR-low group shows pCR rates <30% across all therapies
- HER2DX low-risk is significantly associated with risk of relapse independently of pCR status
- HER2DX high-risk and pCR-low group of patients is an unmet need population

Neo-PACT: Anthracycline-free regimen for early TNBC

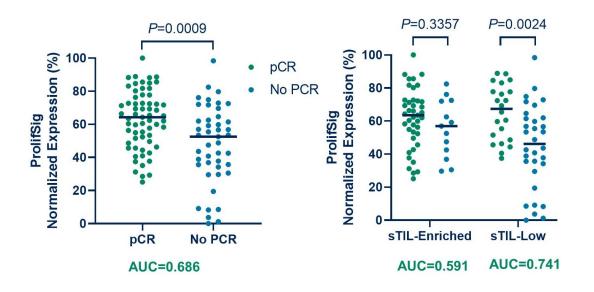


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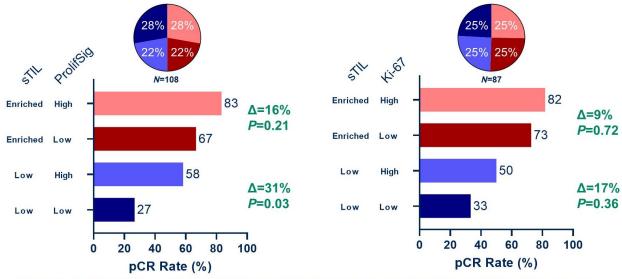


Neo-PACT: refining pCR prediction

ProlifSig is associated with pCR in sTIL-Low (but not in sTIL-enriched) TNBC



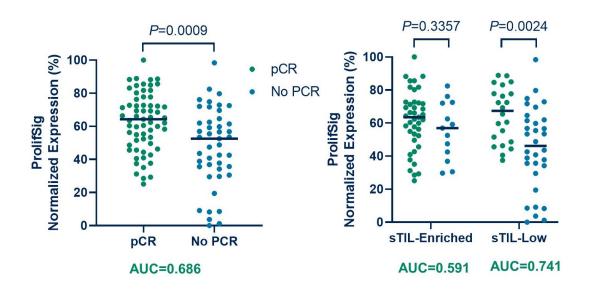
pCR rate by sTIL and ProlifSig class



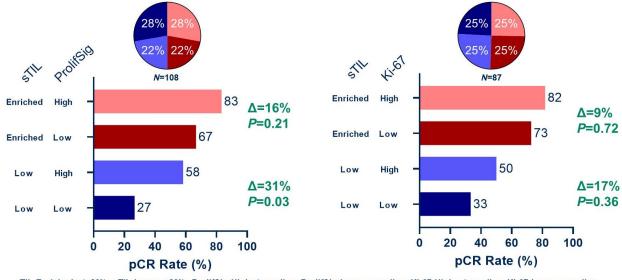
sTIL-Enriched = ≥ 20%; sTIL-Low = < 20%; ProlifSiq-High=≥ median; ProlifSiq-Low = < median; Ki-67-High = ≥ median; Ki-67-Low = < median

Neo-PACT: refining pCR prediction

ProlifSig is associated with pCR in sTIL-Low (but not in sTIL-enriched) TNBC



pCR rate by sTIL and ProlifSig class



sTIL-Enriched = ≥ 20%; sTIL-Low = < 20%; ProlifSig-High= ≥ median; ProlifSig-Low = < median; Ki-67-High = ≥ median; Ki-67-Low = < median;

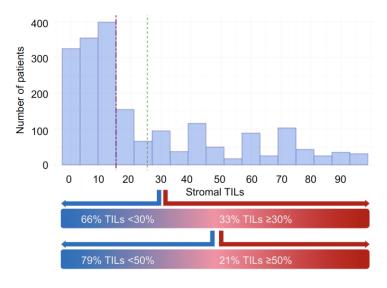
Multivariate analysis

| Variable | OR | 95% CI | P |
|----------------------------|------|-----------|-------|
| sTILs (Continuous) | 1.03 | 1.01-1.04 | 0.001 |
| ProlifSig (Continuous) | 3.30 | 1.46-7.46 | 0.004 |
| T Category (T1-2 vs. T3-4) | 0.79 | 0.24-2.60 | 0.701 |
| N Status (Neg. vs. Pos.) | 2.93 | 1.15-7.49 | 0.025 |

Prognostic of TILs in early TNBC

Individual patient data pooled analysis of 13 international cohorts of patients with TNBC treated with locoregional therapy but no systemic therapy N=1966, median follow-up 30.4 years; most N0 (86.6%), median % of stromal TILs 15%

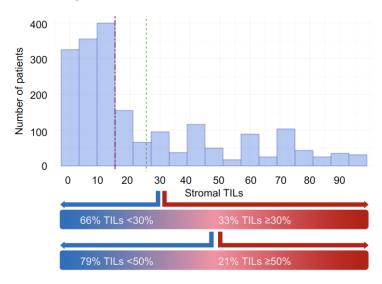
Proportion of TILs



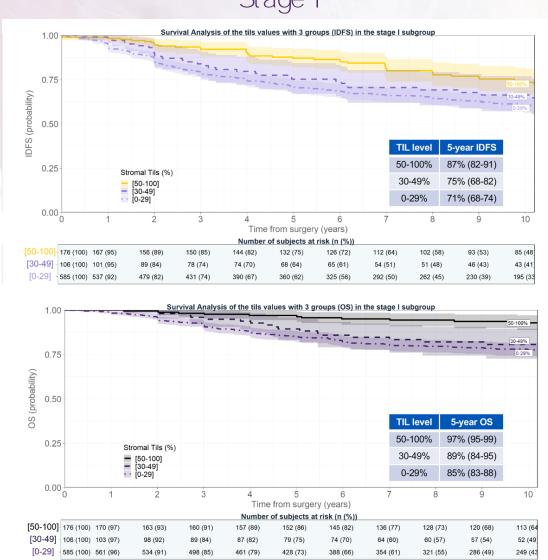
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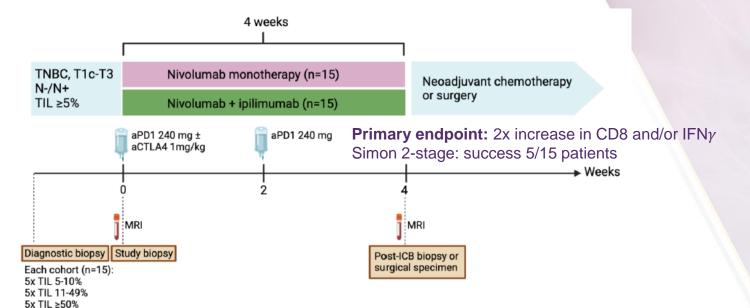
Proportion of TILs



Stage

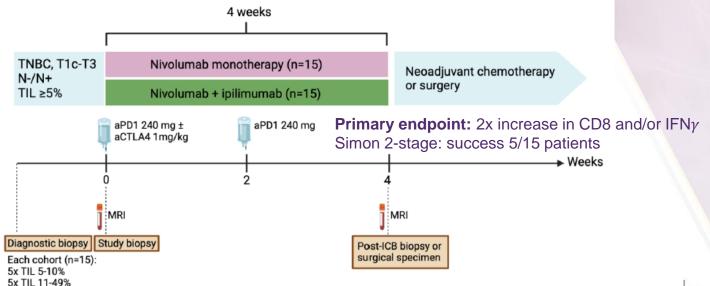


BELLINI: targeting immunogenic TNBC with ICI



| | Nivo (N=16) | Nivo + Ipi (N=15) |
|---------------------------------------|-----------------------|------------------------|
| Median age | 48 (27-71) | 50 (34-67) |
| Grade 3 | 93.8% | 73.3% |
| T1 | 31.3% | 40% |
| N1-3 | 18.8% | 66.7% |
| gBRCA1/2 mut | 18.8% | 20% |
| Median TILs (range) | 29 (5-88) | 35 (5-90) |
| PD-L1 CPS (22C3) 0-1 2-9 ≥10 | 12.5% 25% 62.5% | 6.7% 13.3% 73.3% |

BELLINI: targeting immunogenic TNBC with ICI



| 2-fold increase in CD8 (IHC |) and/or interferon gamma | (IFNy, gene expression) |
|-----------------------------|---------------------------|-------------------------|
|-----------------------------|---------------------------|-------------------------|

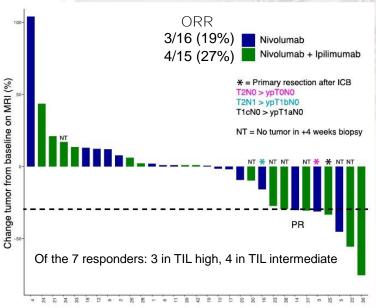
| Immune activation | Nivo (N=16) | Nivo + Ipi (N=15) |
|----------------------|----------------|----------------------|
| No 2 fold increase | 7 (43.8%) | 6 (40.0%) |
| 2 fold increase | 8 (53.3%) | 9 (60.0%) |

- Basket expansion to stage II allowed if at least 5/15 (30%) patients show immune activation -> both cohorts meet the criterion
- Poor correlation between 2-fold increase in CD8/IFNy and MRI

5x TIL ≥50%

->Tumors very high in CD8/IFNy at baseline, less likely to have 2-fold increase

| | Nivo (N=16) | Nivo + Ipi (N=15) |
|---------------------|-------------|-------------------|
| Median age | 48 (27-71) | 50 (34-67) |
| Grade 3 | 93.8% | 73.3% |
| T1 | 31.3% | 40% |
| N1-3 | 18.8% | 66.7% |
| gBRCA1/2 mut | 18.8% | 20% |
| Median TILs (range) | 29 (5-88) | 35 (5-90) |
| PD-L1 CPS (22C3) | | |
| 0-1 | 12.5% | 6.7% |
| 2-9 | 25% | 13.3% |
| ≥10 | 62.5% | 73.3% |



Summary

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Luminal

- CDK4/6i reduce the risk of recurrence in high- and intermediate-risk luminal breast cancer
- NATALEE data, yet very promising, are immature with the current follow-up
- Low-dose tamoxifen is effective for breast cancer prevention with excellent tolerability
- Endocrine therapy may be interrupted to attempt pregnancy without compromising outcomes

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 HER2DX and PET-CT (together with pCR) may be used to tailor treatment of early HER2+ breast cancer

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Triple negative

- Anthracyclines-free regimen (docetaxel + carboplatin) with pembrolizumab yields high pCR rates in TNBC
- TILs should be used in prospective clinical trials to de-escalate therapy, at least in stage I TNBC

Thank you! moliveira@vhio.net











