

# Post-ASCO 2023 en sénologie



Dr Elise deluche MCU-PH Oncologie Médicale Chu de limoges



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# Ribociclib and endocrine therapy as adjuvant treatment in patients with HR+/HER2- early breast cancer: primary results from the Phase III NATALEE trial

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## **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 ≥ 20%
  Oncotype DX Breast Recurrence Score ≥ 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
- Randomization stratification
  Anatomical stage: || vs |||

Menopausal status: men and premenopausal women vs postmenopausal women

Receipt of prior (neo)adjuvant chemotherapy: yes vs no

 $N = 5101^{b}$ 

Geographic location: North America/Western Europe/Oceania vs rest of world

#### Ribociclib 400 mg/day 3 weeks on/1 week off for 3 y NSAI Letrozole or R 1:1° anastrozoled for ≥ 5 y + goserelin in men and premenopausal women NSAI Letrozole or anastrozoled for ≥ 5 y + goserelin in men and premenopausal

women

#### **Primary End Point**

iDFS using STEEP criteria

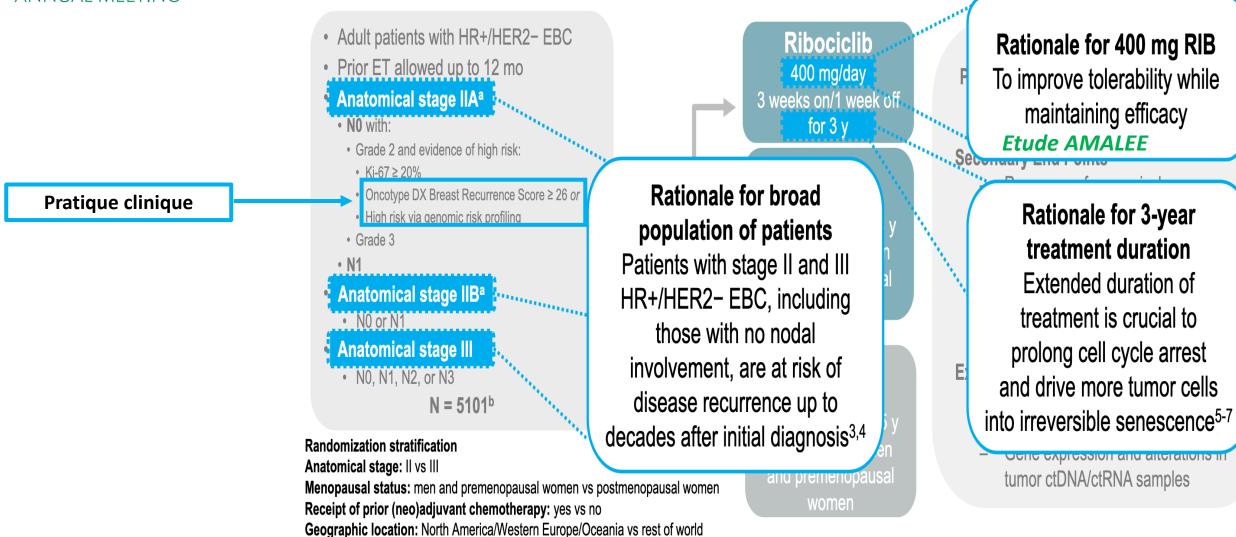
#### **Secondary End Points**

- Recurrence-free survival
- Distant disease–free survival
- OS
- PROs
- Safety and tolerability
- PK

#### **Exploratory End Points**

- Locoregional recurrence–free survival
- Gene expression and alterations in tumor ctDNA/ctRNA samples







#### **Baseline characteristics**

Parameter	RIB + NSAI	NSAI Alone	All Patients
	n = 2549	n = 2552	N = 5101
Age, median (min-max), years	52 (24-90)	52 (24-89)	52 (24-90)
Menopausal status, n (%)			
Mena and premenopausal women	1126 (44)	1132 (44)	2258 (44)
Postmenopausal women	1423 (56)	1420 (56)	2843 (56)
Anatomical stage, <sup>b,c</sup> n (%)			
Stage IIA	479 (19)	521 (20)	1000 (20)
Stage IIB	532 (21)	513 (20)	1045 (20)
Stage III	1528 (60)	1512 (59)	3040 (60)
Nodal status at diagnosis, n (%)			
NX	272 (11)	264 (10)	536 (11)
N0	694 (27)	737 (29)	1431 (28)
N1	1050 (41)	1049 (41)	2099 (41)
N2/N3	483 (Ì9)	467 (18) <sup>°</sup>	950 (19) <sup>′</sup>
Prior ET, n (%)d			
Yes	1824 (72)	1801 (71)	3625 (71)
Prior (neo)adjuvant CT, n (%)	, ,	` '	` ,
Yes	2249 (88)	2245 (88)	4494 (88)
ECOG PS, n (%)			
0	2106 (83)	2132 (84)	4238 (83)
1	440 (17)	418 (16)	858 (17)

CT, chemotherapy; ECOG PS, Eastern Cooperative Oncology Group performance status; ET, endocrine therapy; N0, no nodal involvement; N1, 1-3 axillary lymph nodes; N2, 4-9 axillary lymph nodes; N3, ≥ 10 axillary lymph nodes or infra- or supraclavicular lymph nodes; NSAI, nonsteroidal aromatase inhibitor; NX, regional nodes were not assessed; OFS, ovarian function suppression; RIB, ribociclib.

a In the RIB + NSAI arm, there were 11 men (0.4%); in the NSAI alone arm, there were 9 men (0.4%). A total of 14 patients with stage I disease were included: 9 (0.4%) in the RIB + NSAI arm and 5 (0.2%) in the NSAI alone arm. Stage is derived using TNM from surgery for patients having not received (neo)adjuvant treatment or as worst stage derived using TNM at diagnosis and TNM from surgery for patients having received (neo)adjuvant treatment.



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

- Pre- and postmenopausal women
- Men

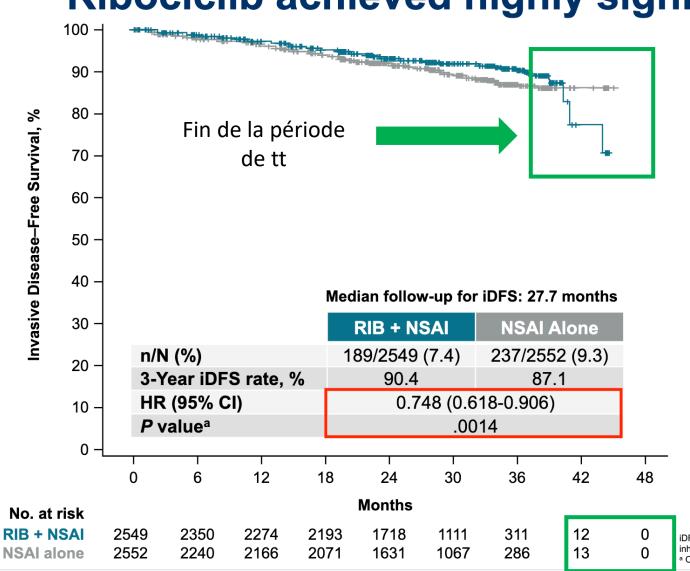
Choice of therapy will depend on approval, access, risk, long-term efficacy, safety profile, and patient preference

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

RS, breast cancer. clin Risk Score. 011012301C

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 local line including stage IIIA (N1/N2), IIIB (N0/N1/N2), or IIIC (N3). <sup>b</sup> Capped at 40% (≈ 2000 patients). Simplified inclusion criteria are used in the illustration. <sup>c</sup> High risk as determined by Oncotype DX, 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; <sup>5</sup>https://clinicaltrials.gov/ct2/show/NCT03155997

## Ribociclib achieved highly significant iDFS benefit



- Based on the P value of .0014, the IDMC concluded that the results met the criteria to demonstrate statistically significant and clinically superior efficacy
- Absolute iDFS benefit with RIB + NSAI at 3 years was 3.3%

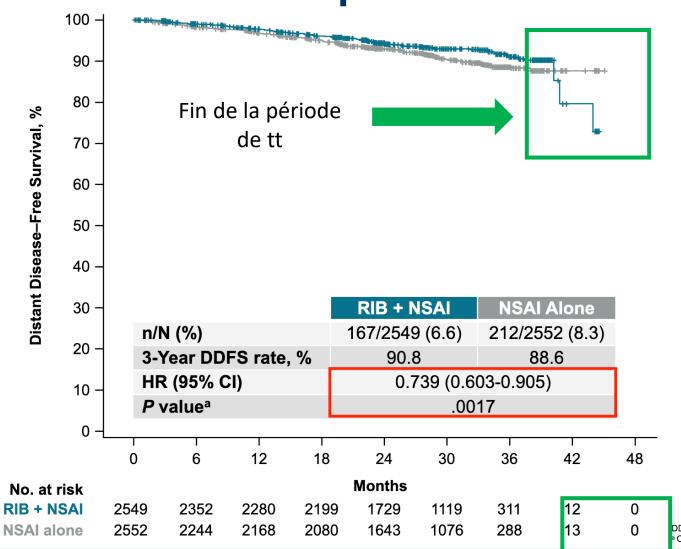
P < 0.025

- Risk of invasive disease was reduced by 25.2% with RIB + NSAI vs NSAI alone
- Ongoing patients will remain on treatment and follow-up will continue as prespecified

iDFS, invasive disease–free survival; IDMC, Independent Data Monitoring Committee; HR, hazard ratio; NSAI, nonsteroidal aromatase inhibitor; RIB, ribociclib.

a One-sided *P* value.

## 2023 ASCO Consistent improvement in DDFS with ribociclib

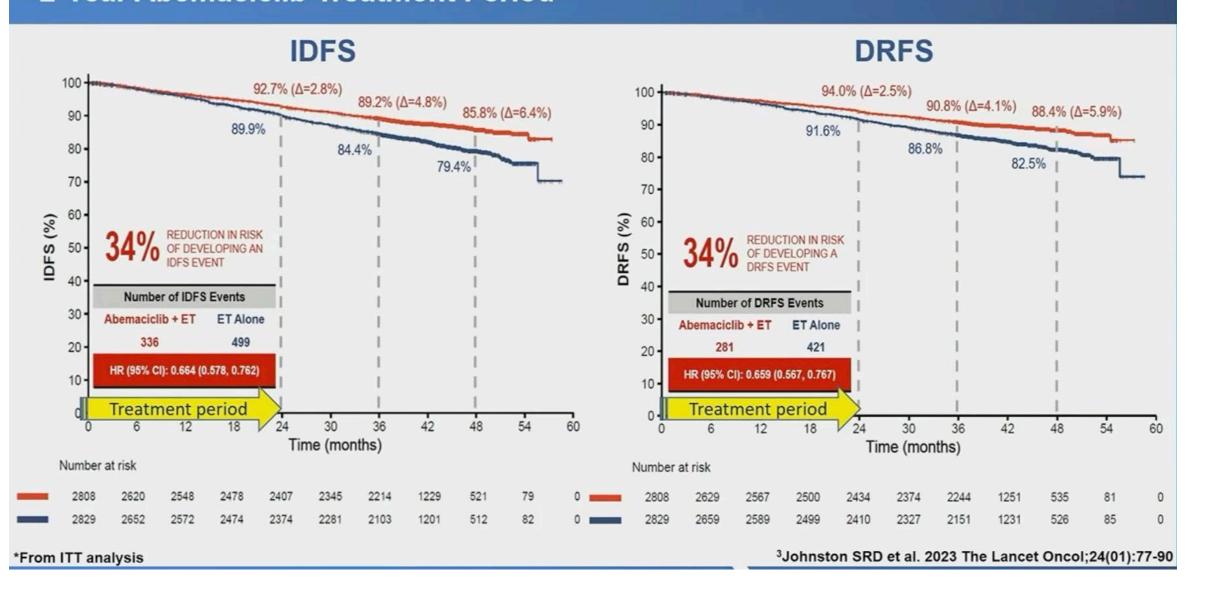


- Distant disease—free survival is defined as the time from date of randomization to date of first event of distant recurrence, death (any cause), or second primary non-breast invasive cancer<sup>b</sup>
- The one-sided nominal P value was .0017
- Absolute distant disease—free survival benefit with RIB + NSAI at 3 years was 2.2%
- Risk of distant disease was reduced by 26.1% with RIB + NSAI vs NSAI alone

DDFS, distant disease–free survival; ET, endocrine therapy; HR, hazard ratio; NSAI, nonsteroidal aromatase inhibitor; RIB, ribociclib.

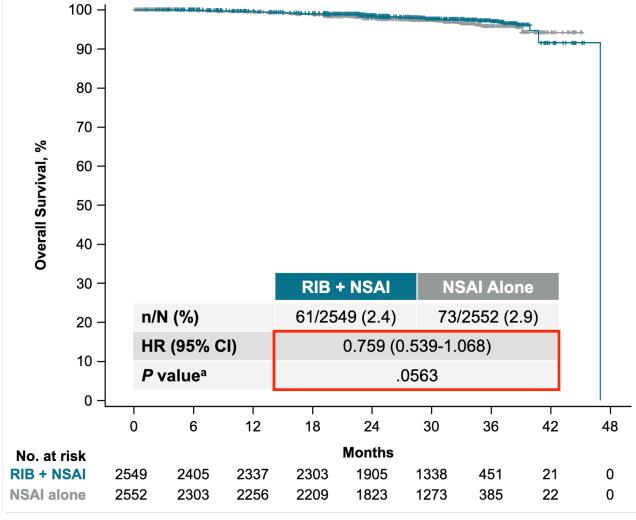
One-sided P value. 
Excluding basal and squamous cell carcinomas of the skin.

## monarchE: IDFS and DRFS Benefit Persist and Deepen Beyond Completion of 2-Year Abemaciclib Treatment Period\*3



#### 2023 **ASCO**°

## Ribociclib showed a trend for improved OS



- Median follow-up for OS was 30.4 months
- Additional follow-up for OS is planned

HR, hazard ratio; NSAI, nonsteroidal aromatase inhibitor; OS, overall survival; RIB, ribociclib <sup>a</sup> One-sided nominal *P* value.

a One-sided nominal P value

Media Africa poisson of 34.0 months (minimum, 21 months) 78% des patients sont encore sous traitement 57 % sous ribociclib 19% d'arrêt du RIB pour tox Uniquement 4% d'arrêt de l'HT

monarchE1: 6% (180/2794) early discontinuations in abemaciclib arm due to AE

**PenelopeB**<sup>2</sup>: **5**% (33/628) early discontinuations in palbociclib arm due to AE

### Ribociclib at the 400-mg dose was safe and well tolerated

	RIB + NSAI n = 2524		NSAI Alone n = 2444	
AESIs, %	Any Grade	Grade ≥ 3	Any Grade	Grade ≥ 3
Neutropenia <sup>a</sup> Febrile neutropenia	62.1 0.3	43.8 0.3	4.5 0	0.8 0
Liver-related AEs <sup>b</sup>	25.4	8.3	10.6	1.5
QT interval prolongation <sup>c</sup> ECG QT prolonged	5.2 4.2	1.0 0.2	1.2 0.7	0.5 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



- Etude positive mais il faut attendre les résultats au long cours
- Confirme intérêt des CDK4/6 en adjuvant
- Toxicités acceptables mais voir les données de qualité de vie
- Quid du positionnement par rapport à l'abémaciclib ?
  - Avis favorable au remboursement « en association avec une hormonothérapie chez les patients adultes en traitement adjuvant du cancer du sein précoce RH+/HER2-, avec atteinte ganglionnaire et haut risque de rechute » juin 2023
  - Indication:
    - ≥4 ganglions lymphatiques axillaires ipsilatéraux positif,
- ou 1 à 3 ganglion(s) lymphatique(s) axillaire(s) ipsilatéral(aux) positif(s) avec au moins un des 2 critères suivants : grade histologique 3 ou taille de la tumeur primaire ≥5 cm.
  - Choix entre les 2 inhibiteurs de CDK sera à discuter en fonction des caractéristiques des patientes, le profil de tolérance, l'ampleur du bénéfice attendu, la durée du traitement (2 contre 3 ans) et le coût.







## Primary outcome of the phase 3 SONIA trial (BOOG 2017-03)

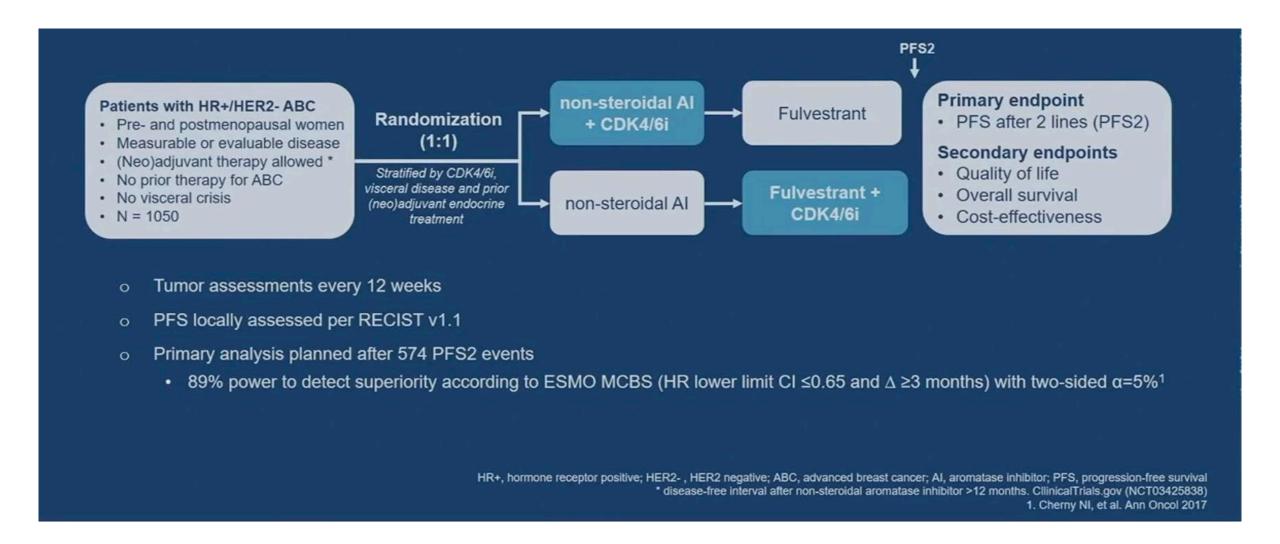
Gabe Sonke, Annemiek van Ommen - Nijhof, Noor Wortelboer, Vincent van der Noort, Astrid Swinkels, Hedwig Blommestein, Aart Beeker, Karin Beelen, Lisanne Hamming, Joan Heijns, Aafke Honkoop, Paul de Jong, Quirine van Rossum - Schornagel, Christa van Schaik - van de Mheen, Jolien Tol, Cathrien Tromp - van Driel, Suzan Vrijaldenhoven, Elise van Leeuwen - Stok, Inge Konings, Agnes Jager







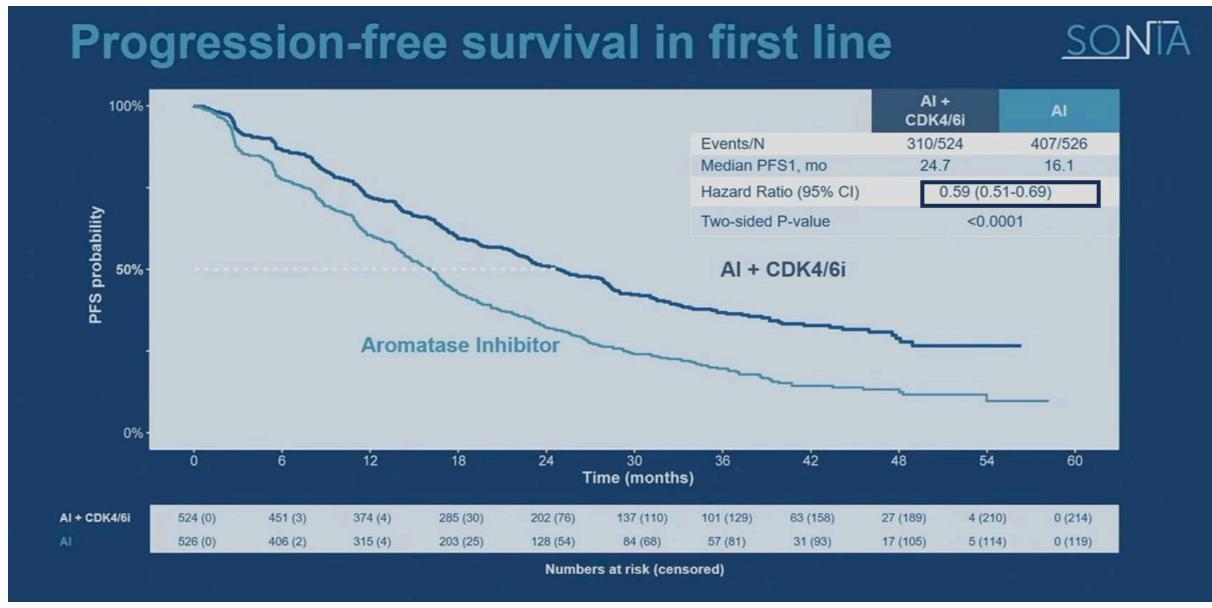






#### Baseline characteristics First-line CDK4/6i Second-line CDK4/6i N=524 N=526 Median age, years (range) 64 (24-88) 63 (25-87) WHO PS, n (%) 257 (49) 257 (49) >1 267 (51) 269 (51) Pre- / perimenopausal Menopausal status, n (%) 69 (13) 76 (14) Postmenopausal 455 (87) 450 (86) Disease-free interval, n (%) Newly diagnosed 182 (35) 182 (35) ≤24 months 96 (18) 98 (19) >24 months 246 (47) 246 (47) Prior (neo)adjuvant therapy, n (%) Chemotherapy 210 (40) 212 (40) Endocrine therapy 254 (48) 258 (49) Visceral disease 291 (56) 292 (56) Metastatic site, n (%) Bone-only disease 91 (17) 91 (17) Measurable disease, n (%) 315 (60) 312 (59) Type of CDK4/6i, n (%) Palbociclib 479 (91) 479 (91) Ribociclib 44 (8) 42 (8) Abemaciclib 3 (1) 3(1)

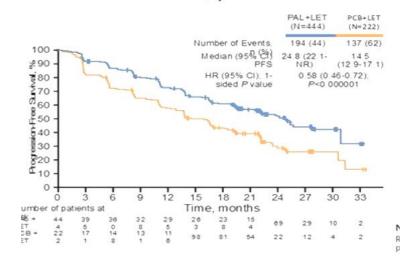




## First line Al combination trials Primary endpoint PFS

## PALOMA2 palbociclib

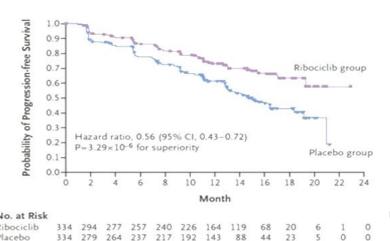
HR 0.58, p<0.001



#### **MONALEESA2**

ribociclib

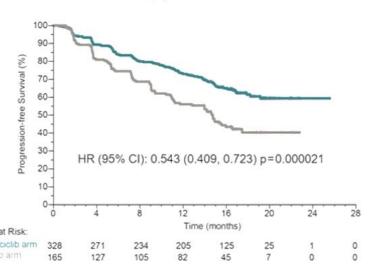
HR 0.56, p<0.001



#### MONARCH3

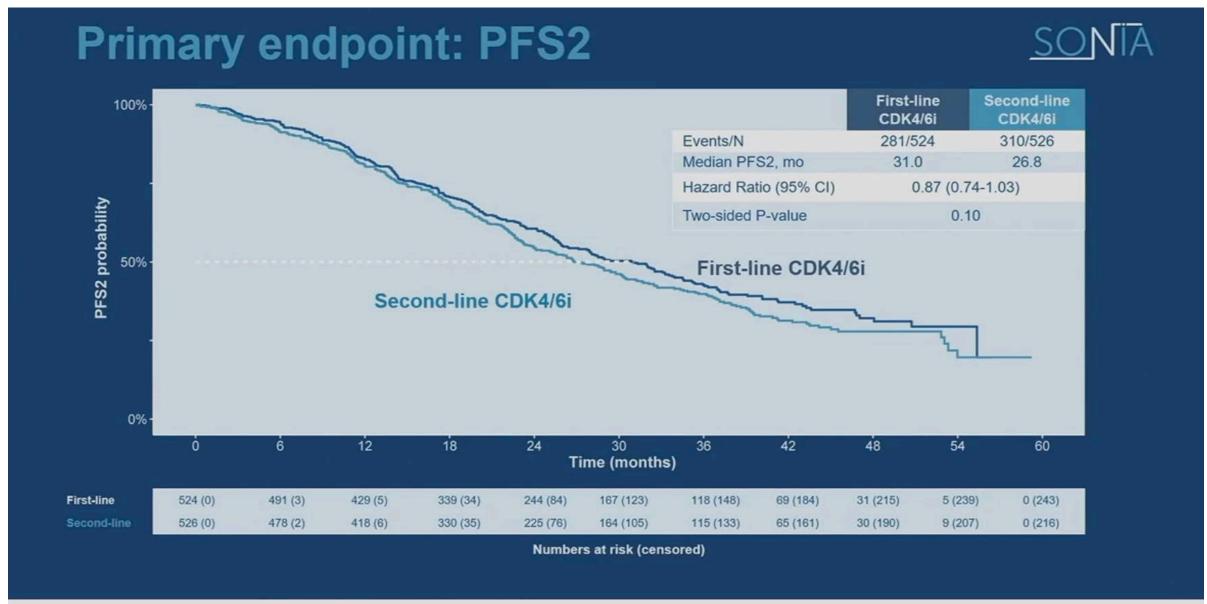
abemaciclib

HR 0.54, p<0.001

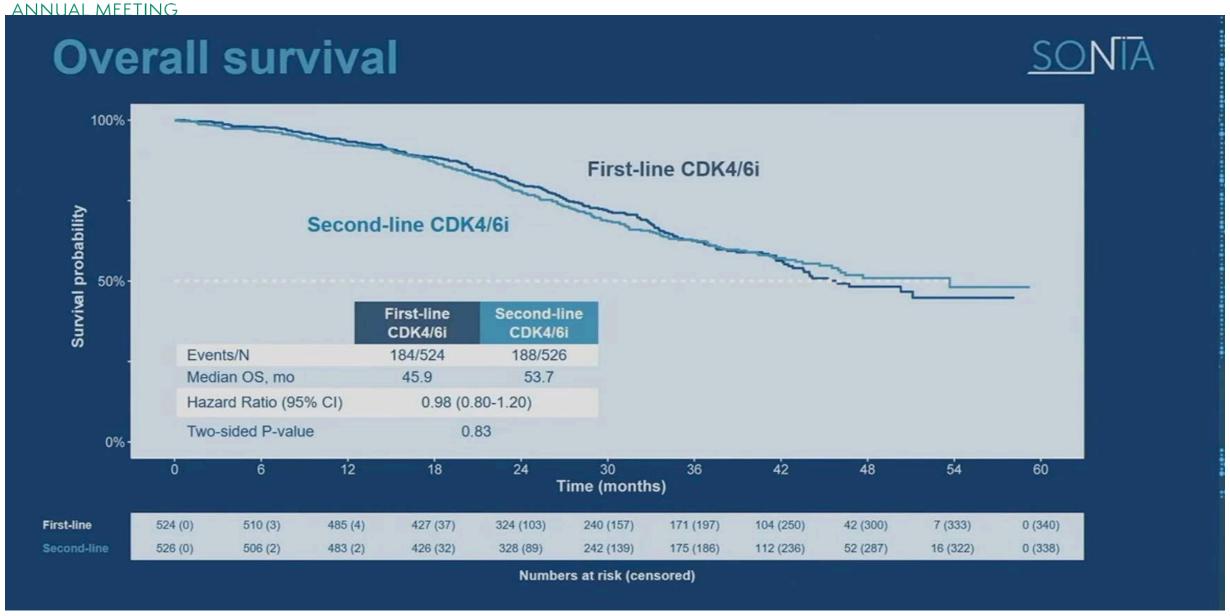


All inhibitors similar efficacy in PFS primary First line Al plus CDK4/6 inihibitor is the standard of care







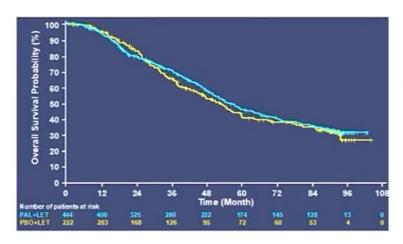




## First line Al combination trials Secondary endpoint OS

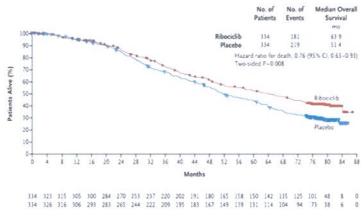
## PALOMA2 palbociclib

HR 0.96, p=0.3



#### **MONALEESA2**

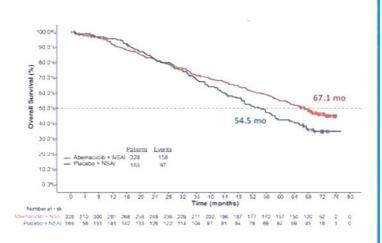
ribociclib HR 0.76, p=0.008



#### MONARCH3

abemaciclib

HR 0.754, p=0.03 NS



Finn et al ASCO 2022 Hortobagyi et al NEJM 2022 Goetz et al ESMO 2022



## Quality of life



- Quality of life was assessed using validated questionnaires
- Up to 11 timepoints
- FACT-B and EQ-5D-5L
- Completion rate 87% for FACT-B in both arms
- FACT-B subscores and cost-effectiveness analyses will follow

No difference in FACT-B total score between the study arms (p=0.4)



## Conclusion

#### Etude de stratégie importante

L'administration d'un iCDK 4/6 en première ligne, par rapport à sa prescription en deuxième ligne

- N'améliore pas la survie sans progression SSP2
- N'améliore pas la survie globale
- N'améliore pas la qualité de vie

#### Conclusion de l'auteur :

- Augmente la durée de prescription de l'iCDK 4/6 de 16,5 mois
- Augmente l'incidence des toxicités de grade 3-4 de 42 %
- Augmente le prix du traitement par patient de 200 000 dollars

Remise de l'intérêt des iCDK4/6 en 1ère ligne ou de l'intérêt du Palbociclib en 1ère ligne ?



## Second-line endocrine therapy with or without palbociclib maintenance in patients with HR[+]/HER2[-] advanced breast cancer: PALMIRA trial

Antonio Llombart-Cussac<sup>1</sup>, Catherine Harper-Wynne<sup>2</sup>, Antonia Perelló<sup>3</sup>, Audrey Hennequin<sup>4</sup>, Adela Fernández<sup>5</sup>, Marco Colleoni<sup>6</sup>, Vicente Carañana<sup>7</sup>, Vanesa Quiroga<sup>8</sup>, Jacques Medioni<sup>9</sup>, Vega Iranzo<sup>10</sup>, Duncan Wheatley<sup>11</sup>, Sonia del Barco Berrón<sup>12</sup>, Antonio Antón<sup>13</sup>, Erion Dobi<sup>14</sup>, Manuel Ruiz<sup>15</sup>, Daniel Alcalá-López<sup>16</sup>, Jhudit Pérez-Escuredo<sup>17</sup>, Miguel Sampayo-Cordero<sup>18</sup>, José Manuel Pérez-García<sup>19</sup>, Javier Cortés<sup>20</sup>

1. Medica Scientia Innovation Research (MEDSIR), Barcelona, Spain and Ridgewood, New Jersey, US. Hospital Arnau de Vilanova; FISABIO, Valencia, Spain. Universidad Católica de Valencia, Valencia, Spain; 2. Maidstone Hospital - Kent Oncology Centre, Maidstone, United Kingdom; 3. Hospital Universitari Son Espases, Palma de Mallorca, Spain; 4. Centre Georges François Leclerc, Dijon, France; 5. Institut Català d' Oncologia L'Hospitalet (ICO), Barcelona, Spain; 6. IEO, Instituto Europeo di Oncologia, IRCCS; Milan, Italy; 7. Hospital Arnau de Vilanova de Valencia, Valencia, Spain; 8. Institut Català d' Oncologia Badalona (ICO), Barcelona, Spain; 9. Hopital Europeen Georges Pompidou, Paris, France. University Paris Cite; 10. Consorci Hospital General Universitari de València, Valencia, Spain; 11. Royal Cornwall Hospital NHS Trust, Cornwall, United Kingdom; 12. Institut Català d' Oncologia Girona (ICO), Girona, Spain; 13. Hospital Universitario Miguel Servet, Zaragoza, Spain; 14. Hôpital Jean Minjoz, Doubs, France; 15. Hospital Universitario Virgen del Rocio, Sevilla, Spain; 16. Medica Scientia Innovation Research (MEDSIR), Barcelona, Spain and Ridgewood, New Jersey, US; 17. Medica Scientia Innovation Research (MEDSIR), Barcelona, Spain and Ridgewood, New Jersey, US; 19. International Breast Cancer Center (IBCC), Pangaea Oncology, Quiron Group, Barcelona, Spain. Medica Scientia Innovation Research (MEDSIR), Barcelona, Spain and Ridgewood, New Jersey, US; 20. International Breast Cancer Center (IBCC), Pangaea Oncology, Quiron Group, Barcelona, Spain. Medica Scientia Innovation Research (MEDSIR), Barcelona, Spain and Ridgewood, New Jersey, US; 20. International Breast Cancer Center (IBCC), Pangaea Oncology, Quiron Group, Barcelona, Spain. Medica Scientia Innovation Research (MEDSIR), Barcelona, Spain and Ridgewood, New Jersey, US; 20. International Breast Cancer Center (IBCC), Pangaea Oncology, Quiron Group, Barcelona, Spain. Medica Scientia Innovation Research (MEDSIR), Barcelona, Spain and Ridgewood, New Jersey, US; 20.









#### Stratification Factors

- Prior ET (fulvestrant vs. Als)
- Site of disease (visceral vs. non-visceral)

#### Fulvestrant<sup>‡</sup>

#### Letrozole<sup>‡</sup>

OR

withdrawal

N = 62

<sup>1</sup>L. First-line, ABC: Advanced breast cancer, Al. Aromatase inhibitors, ET: Endocrine therapy, HER2[-]: Human Epidermal Growth Factor Receptor 2-negative; HR[+]: Hormone receptor-positive; IM: Intramuscular injection; PO: oral administration; PD: Progressive disease; R: Randomization.

<sup>&</sup>quot;If pre-menopausal, ovarian function suppression method required.

<sup>†</sup>Palbociclib dose could be reduced until 75 mg. If a dose reduction below 75 mg is required, treatment must be discontinued.

<sup>\*</sup>Administration of endocrine therapy was chosen depending on the prior administered agent.



## **Study Endpoints**

#### **Primary Endpoint**

Investigator-assessed progression-free survival (PFS) determined by RECIST v.1.1

#### **Secondary Endpoints**

- Objective response rate (ORR), clinical benefit rate (CBR), overall survival (OS), duration of response (DoR), time to response (TTR), and time to progression (TTP)
- ORR, DoR, TTR, CBR, TTP, OS, and PFS by prior endocrine therapy, site of disease, and HER2 expression status
- Overall change from baseline in patient reported global quality of life (QoL), functioning, symptoms and general health status
- Time to deterioration in global QoL
- Time to deterioration in pain
- Time to first chemotherapy
- Safety and tolerability

#### **Exploratory Endpoints**

- Molecular subtypes
- Predictive biomarkers



## **Baseline Characteristics (ITT population)**

Baseline characteristics, n (%)	ET + Palbociclib (N = 136)	ET (N = 62)
Age in years, Median (Min; Max)	59 (33; 85)	61 (34; 83)
Menopausal status		
Premenopausal	18 (13.2%)	6 (9.7%)
Postmenopausal	118 (86.8%)	56 (90.3%)
ECOG PS score		
0	90 (66.2%)	31 (50.0%)
1*	45 (33.1%)	31 (50.0%)
Measurable disease at baseline		
Yes	94 (69.1%)	44 (71.0%)
No	42 (30.9%)	18 (29.0%)
Visceral involvement		
Yes	84 (61.8%)	37 (59.7%)
No	52 (38.2%)	25 (40.3%)

ECOG PS: Eastern Cooperative Oncology Group performance status; ITT: Intention to treat.

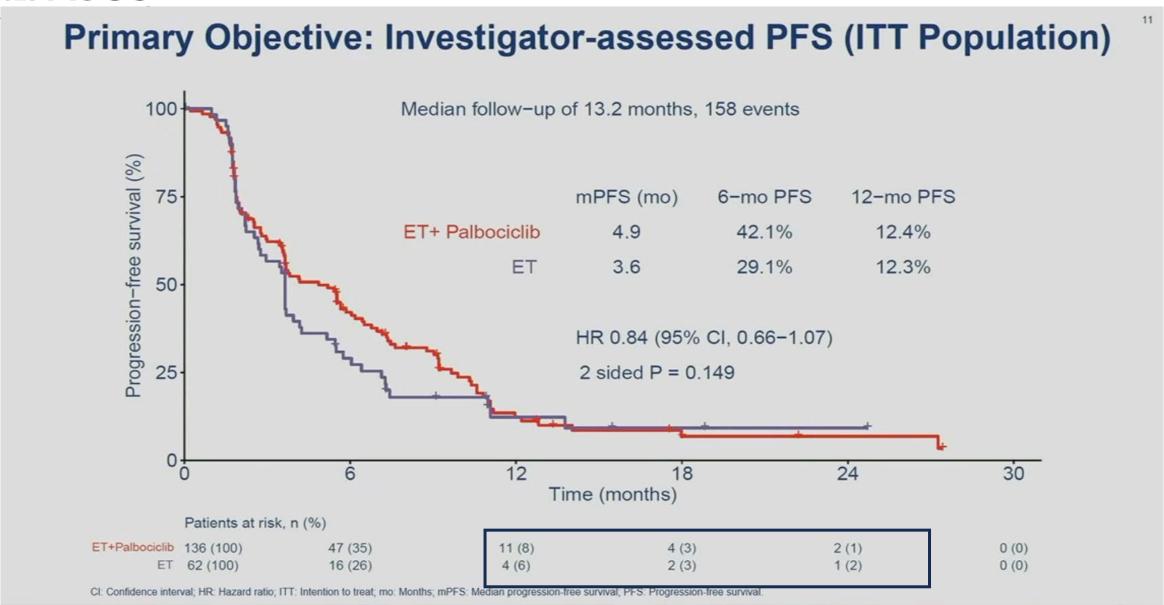
\*One patient in ET + Palbociclib group had ECOG 2.



## **Baseline Characteristics cont. (ITT population)**

Baseline characteristics, n (%)	ET + Palbociclib (N = 136)	ET (N = 62)
Number of metastatic sites		
<3	92 (67.6%)	38 (61.3%)
≥3	44 (32.4%)	24 (38.7%)
Prior endocrine therapy used in combination w	ith palbociclib	
Fulvestrant	16 (11.8%)	4 (6.5%)
Aromatase Inhibitor	120 (88.2%)	58 (93.5%)
Duration of first-line palbociclib (6-12; ≥12 mon	ths)	
6-12 months	18 (13.2%)	10 (16.1%)
≥ 12 months	118 (86.8%)	52 (83.9%)
Last dose of first-line palbociclib		
125 mg	83 (53.2%)	33 (61.0%)
100 mg	45 (43.5%)	27 (33.1%)
75 mg	8 (3.2%)	2 (5.9%)

ITT: Intention to treat.



#### PFS by prior duration of palbociclib treatment (ITT Population) 6-12 months (N = 28)≥ 12 months (N = 170) 100 6-mo PFS 12-mo PFS 6-mo PFS 12-mo PFS ET + Palbociclib 18.1% ET + Palbociclib 43.4% 11.9% ET 3.5 22.2% NE 页 75-3.7 30.3% 14.4% HR 0.93 (95% CI, 0.50-1.73) HR 0.83 (95% CI, 0.63-1.07) 50-50-2 sided P = 0.815 2 sided P = 0.154 Progra go 25 30 30 12 18 24 Time (months) Time (months)

ET+Palbociclib 118 (100)

0 (0)

ET 52 (100)

43 (36)

14 (27)

9 (8)

4(8)

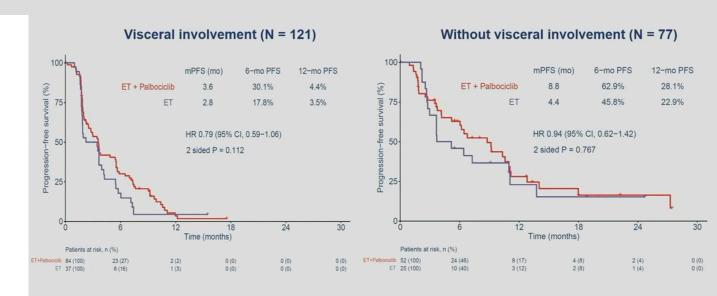
3 (3)

2(4)

1(2)

0 (0)

#### **PFS by Visceral Disease (ITT Population)**



A. Llombart-Cussac, et al. ASCO® 2023, Abs. #1001

2 (11)

0 (0)

0 (0)

ET+Palbociclib 18 (100)

ET 10 (100)

CI; Confidence interval; HR: Hazard ratio; ITT: Intention to treat; mo; Months; mPFS; Median progression-free survival; PFS; Progression-free survival.



## Conclusion

- Etude de stratégie importante +++
- Pas de poursuite du CDK4/6 systématique
- Rôle du palbociclib ?

	MAINTAIN	PACE	PALMIRA
Patients (n)	120	166	198
1st line CDK4/6i	Palbociclib (84%)	Palbociclib (90%)	Palbociclib (100%)
% 1st line CDK4/6i >12mo	67%	75%	86%
Endocrine therapy	Fulvestrant (83%) or exemestane	Fulvestrant (100%)	Fulvestrant (90%) or letrozole
'Continuation' CDK4/6i	Ribociclib	Palbociclib	Palbociclib
PFS ET only	2.8mo	4.8mo	3.6mo
PFS Fulv + CDK4/6i	5.3mo	4.6mo	4.9mo

alinsky JCO 2023; Mayer SABCS 2022; Llombart-Cussac ASCO 2023

Intérêt du fulvestrant ? Place des nouveaux SERDS ?