



# CONTROVERSIAS EN ONCOLOGÍA ALMERÍA

Almería, 28 de noviembre de 2019



## INHIBIDORES DE CLINICAS ACTUALIZACION

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## INTRODUCCIÓN

- CMM con RH+ es una enfermedad clínica y biológicamente heterogénea.
- En estas pacientes la **TE** es el tratamiento de elección y se establece en base a:
  - 1) IHQ ++ del RH (factores biológicos)
  - 2) ILE (factores de agresividad)
  - 3) La respuesta a los TH previos
  - 4) La necesidad de una rápida respuesta



-CMM **objetivo fundamental:**

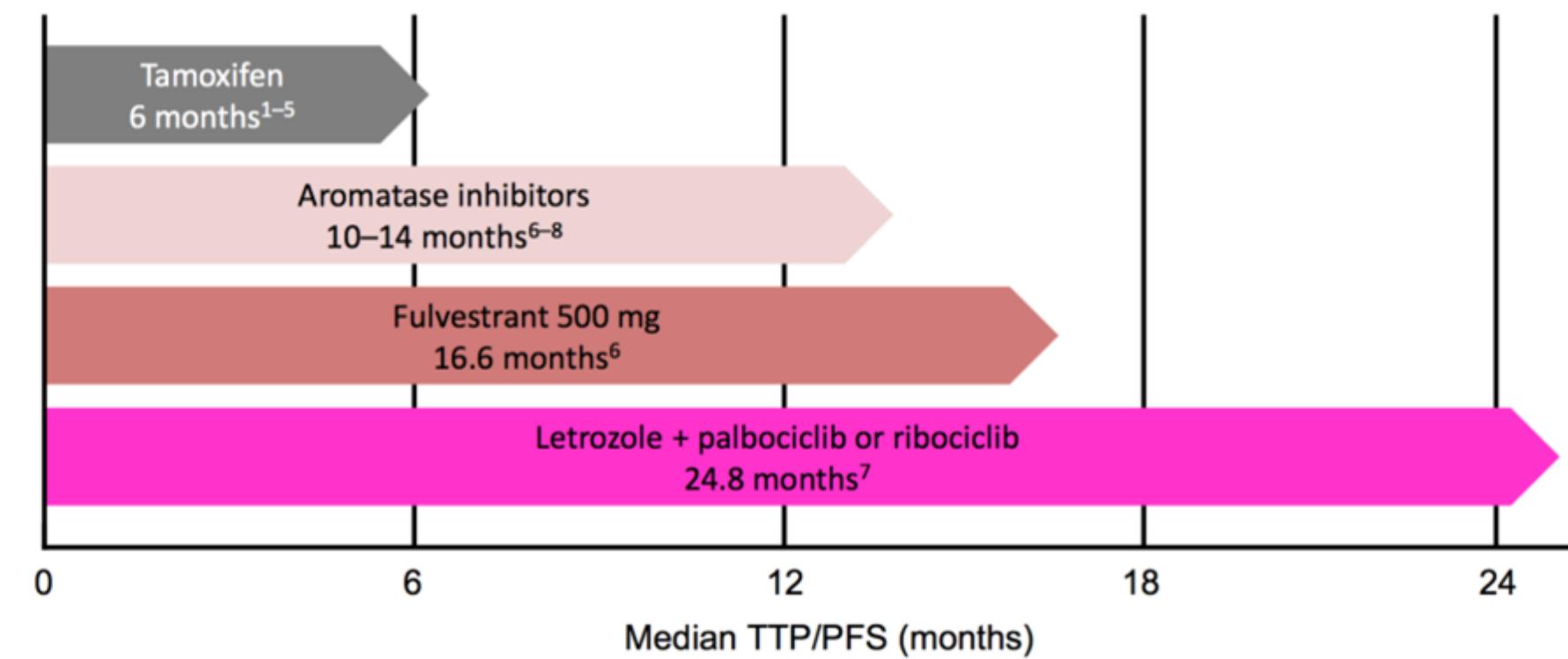
- Mejorar calidad de vida
- Prolongar la supervivencia

RH+/her2: **TE** pilar esencial de tratamiento

**QT:**

- 1) Crisis amenazantes para la vida, criterios SEOM
  - Insuficiencia hepática
  - Linfangitis carcinomatosa, disnea incapacitante
  - Carcinomatosis meníngea, MTS SNC
  - Infiltración MO: sintomática
  - Derrame pericárdico severo
- 2) Refractariedad a TE previa

# Cambio en la Historia Natural del Cáncer de Mama Lumin





## Resistencia endocrina 1<sup>a</sup>/refractaria

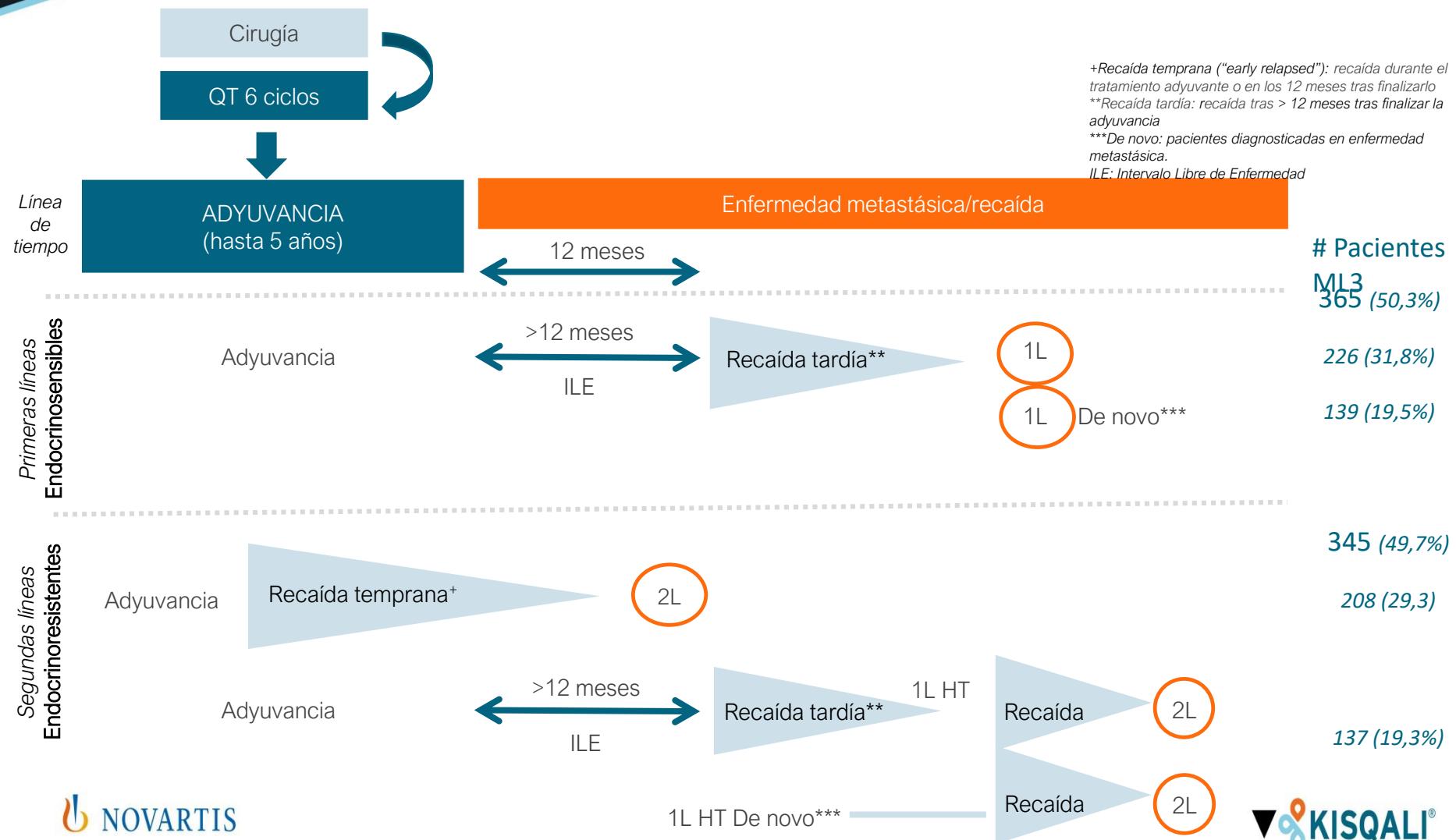
- La recaída ocurre < dos años del inicio del tratamiento hormonal adyuvante
- Durante los 6 primeros meses de la primera línea de tratamiento hormonal para el CMM, existe una **resistencia intrínseca primaria** o insensibilidad al tratamiento hormonal.



## Resistencia secundaria

- Se produce después de haber transcurrido **más de dos años** del inicio del tratamiento hormonal adyuvante pero antes de un año del fin de la adyuvancia
- Progresión se produce **después de los 6 meses** del inicio del tratamiento hormonal para la enfermedad metastásica, existe **resistencia adquirida o secundaria**

# Tipos de pacientes



# Todas las poblaciones con CMm HR+/HER2- representada en sus estudios pivotales



## 4.1 Indicaciones terapéuticas

IBRANCE está indicado para el tratamiento del cáncer de mama metastásico o localmente avanzado, positivo para el receptor hormonal (HR) y negativo para el receptor 2 del factor de crecimiento epidérmico humano (HER2):

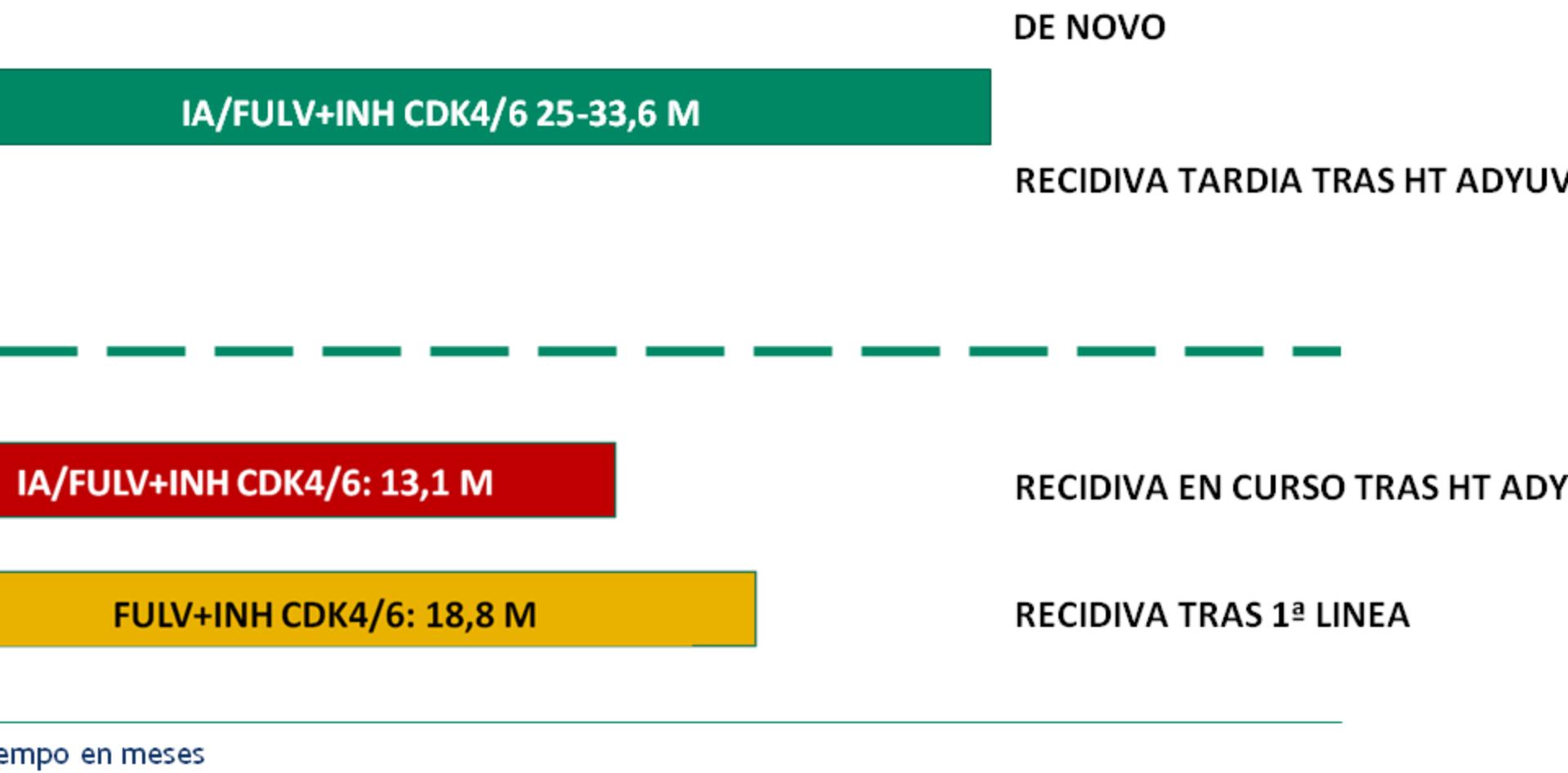
- en combinación con un inhibidor de la aromatasa;
- en combinación con fulvestrant en mujeres que hayan recibido hormonoterapia previa (ver sección 5.1).

En mujeres pre o perimenopáusicas la hormonoterapia se debe combinar con un agonista de la hormona liberadora de la hormona luteinizante (LHRH).



Creado a partir de 1. Finn RS, Martin M, Rugo HS, et al. Palbociclib and Letrozole in Advanced Breast Cancer. N Engl J Med. 2016;375(20):1925-36. 2. Turner NC et al., Palbociclib in Hormone-Receptor-Positive Advanced Breast Cancer 2015 N Engl J Med. 3. Cristofanilli M, Turner NC, Bondarenko I, et al. Fulvestrant plus palbociclib versus fulvestrant plus placebo for treatment of hormone-receptor-positive, HER2-negative metastatic breast cancer that progressed on previous endocrine therapy (PALOMA-3): final analysis of the multicentre, double-blind, phase 3 randomised controlled trial. Lancet Oncol. 2016;17(4):425-39. // 4. FT de Ibrance.

# ¿Qué nos aportan los inhibidores de ciclinas en CMM?



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Contents lists available at [ScienceDirect](#)

## The Breast

journal homepage : [www.elsevier.com/brst](http://www.elsevier.com/brst)



Original article

3rd ESO-ESMO international consensus guidelines  
for Advanced Breast Cancer (ABC 3)

SEOM  
Sociedad Española  
de Oncología Médica

## SYSTEMIC THERAPY FOR ER AND/OR PR-POSITIVE RECURRENT OR STAGE IV (M1) DISEASE

### HER2-Negative and Premenopausal

[See Systemic Treatment of Stage IV \(M1\) Disease \(BINV-20\)](#)

#### HER2-Negative and Postmenopausal

##### Preferred regimens:

- Non-steroidal aromatase inhibitor (anastrozole, letrozole)<sup>1</sup>
- Selective ER down-regulator (fulvestrant, category 1)<sup>1</sup>
- Tamoxifen or toremifene
- Steroidal aromatase inactivator (exemestane)
  - Palbociclib + aromatase inhibitor (category 1)<sup>2,3</sup>
  - Palbociclib + fulvestrant (category 1)<sup>2,4</sup>
  - Ribociclib + aromatase inhibitor (category 1)<sup>2,5</sup>
  - Abemaciclib + aromatase inhibitor (category 1)<sup>2,3</sup>
  - Abemaciclib + fulvestrant (category 1)<sup>2,6</sup>
  - Exemestane + everolimus<sup>2,6</sup>
  - Fulvestrant + everolimus
  - Tamoxifen + everolimus
  - Ribociclib + tamoxifen (category 1)<sup>2,7</sup>

##### Useful in certain circumstances:

- Megestrol acetate
- Fluoxymesterone
- Ethynodiol diacetate
- Abemaciclib<sup>2,8</sup>

<sup>1</sup>A single study (S0226) in women with hormone receptor-positive breast cancer and no prior chemotherapy, biological therapy, or endocrine therapy for metastatic disease demonstrated that the addition of fulvestrant to anastrozole resulted in prolongation of time to progression. Subset analysis suggested that patients without prior adjuvant tamoxifen and more than 10 years since diagnosis experienced the greatest benefit. Two studies with similar design (FACT and SOFEA) demonstrated no advantage in time to progression with the addition of fulvestrant to anastrozole.

If there is disease progression while on CDK4/6 inhibitor therapy, there are no data to support an additional line of therapy with another CDK4/6-containing regimen. Likewise, if there is disease progression while on a everolimus-containing regimen, there are no data to support an additional line of therapy with another everolimus regimen.

### HER2-Positive and Premenopausal

[See Systemic Treatment of Stage IV \(M1\) Disease \(BINV-22\)](#)

#### HER2-Positive and Postmenopausal

- Aromatase inhibitor ± trastuzumab
- Aromatase inhibitor ± lapatinib
- Aromatase inhibitor ± lapatinib + trastuzumab
- Fulvestrant ± trastuzumab
- Tamoxifen ± trastuzumab

<sup>3</sup>CDK4/6 inhibitor in combination with an aromatase inhibitor (anastrozole, letrozole, or exemestane) may be considered as a treatment option for first-line therapy for postmenopausal patients with hormone-receptor positive, HER2-negative metastatic breast cancer.

<sup>4</sup>For postmenopausal women or for premenopausal women receiving ovarian suppression with an LHRH agonist, with hormone-receptor positive and HER2-negative metastatic breast cancer that has progressed on or after prior adjuvant or metastatic endocrine therapy.

<sup>5</sup>Indicated after progression on prior endocrine therapy.

<sup>6</sup>A combination of exemestane with everolimus can be considered for patients who meet the eligibility criteria for BOLERO-2 (progressed within 12 mo or on non-steroidal AI).

<sup>7</sup>May be considered as a treatment option for first-line therapy with ovarian suppression or ablation for premenopausal patients with hormone-receptor positive, HER2-negative metastatic breast cancer.

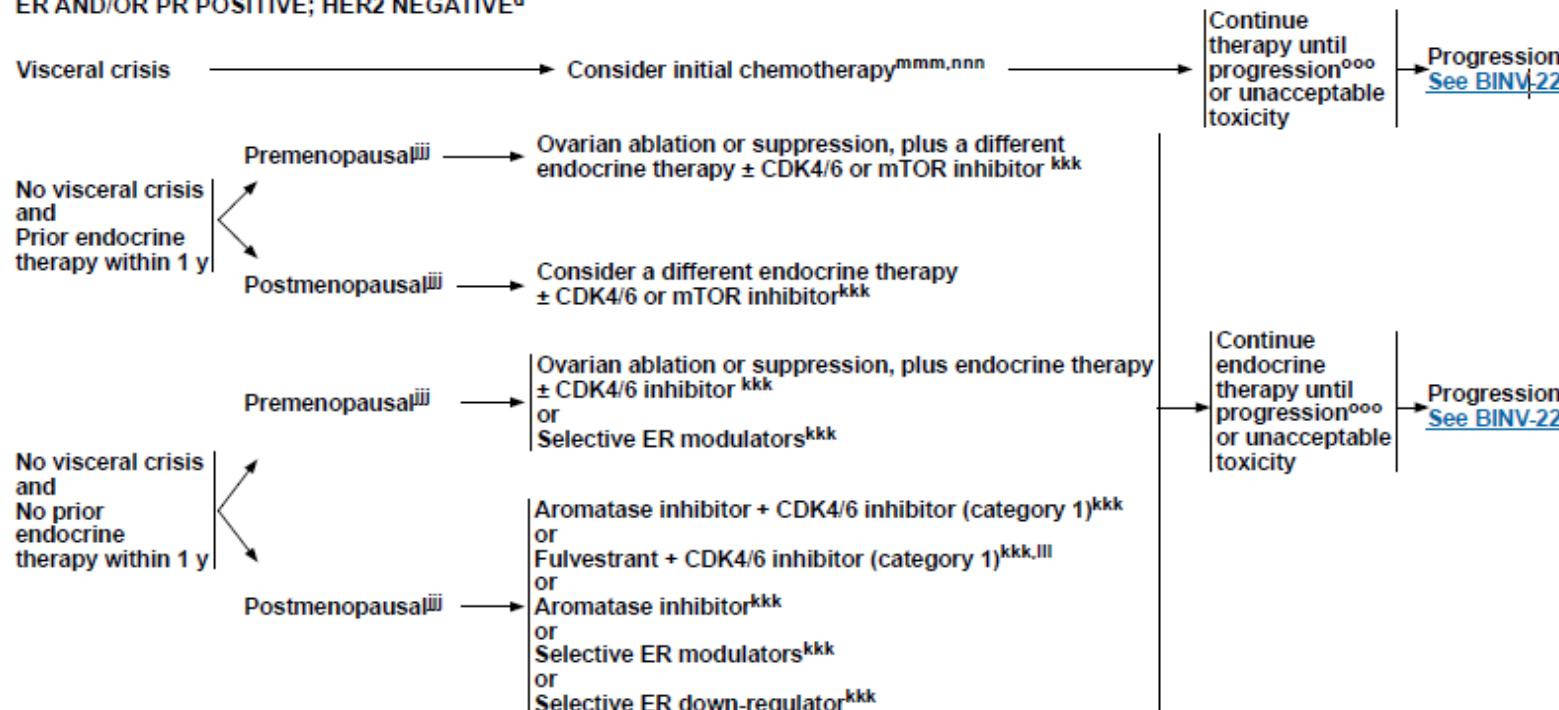
<sup>8</sup>Indicated after progression on prior endocrine therapy and prior chemotherapy in the metastatic setting.

Note: All recommendations are category 2A unless otherwise indicated.

Clinical Trials: NCCN believes that the best management of any patient with cancer is in a clinical trial. Participation in clinical trials is especially encouraged.



**SYSTEMIC TREATMENT OF RECURRENT OR STAGE IV (M1) DISEASE:  
ER AND/OR PR POSITIVE; HER2 NEGATIVE<sup>d</sup>**



Note: All recommendations are category 2A unless otherwise indicated.

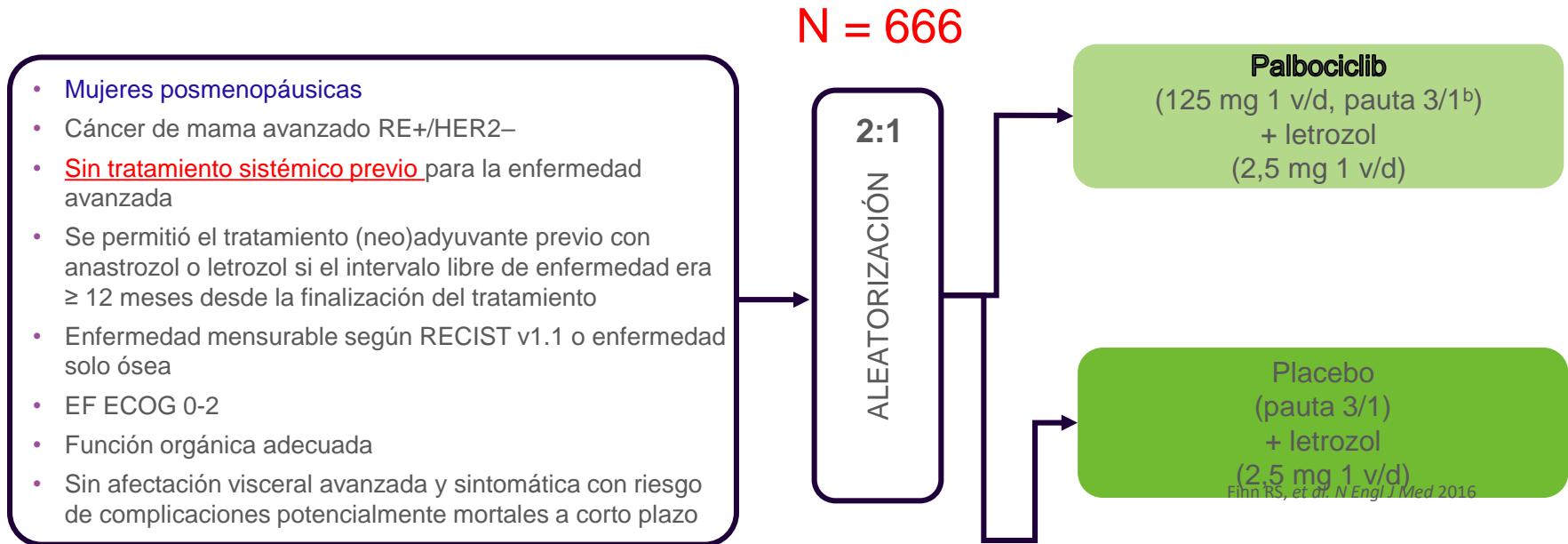
Clinical Trials: NCCN believes that the best management of any patient with cancer is in a clinical trial. Participation in clinical trials is especially encouraged.



**1<sup>a</sup> línea**

**(HORMONOSENSIBLES)**

# PALOMA-2: Diseño del estudio de fase III en pacientes posmenopáusicas con CMM RE+/ HER2-



<sup>a</sup>Aleatorización estratificada por la localización de la enfermedad (visceral/no visceral), el intervalo libre de enfermedad y el tratamiento hormonal (neo)adyuvante previo

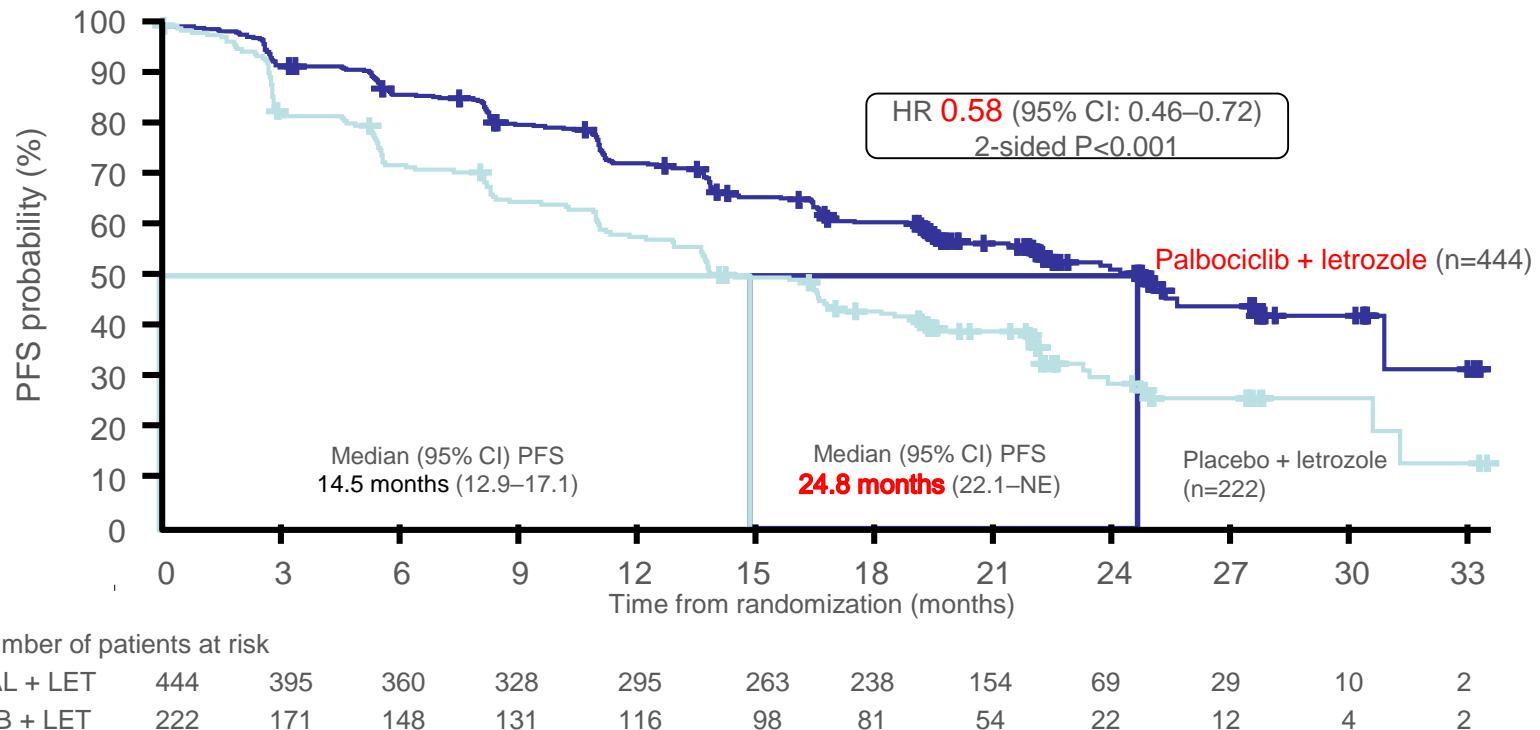
<sup>b</sup>3 semanas con tratamiento/1 semana sin tratamiento de un ciclo de 4 semanas

Anastrozol, laboratorio comercializador AstraZeneca; 1 v/d, una vez al día; EF ECOG, estado funcional del *Eastern Cooperative Oncology Group*; HER2, receptor 2 del factor de crecimiento epidérmico humano; RE, receptor de estrógenos; RECIST, Criterios de Evaluación de la Respuesta en Tumores Sólidos

clinicaltrials.gov NCT01740427; Finn RS, et al. N Engl J Med 2016

# PALOMA-2: SLP evaluada por el investigador (población ITT)

- Como tratamiento inicial para mujeres posmenopáusicas con cáncer de mama avanzado RE+/HER2–, palbociclib + letrozol **mejoró** significativamente la **SLP** frente a placebo + letrozol



Extraído de Finn RS, et al. N Engl J Med 2016

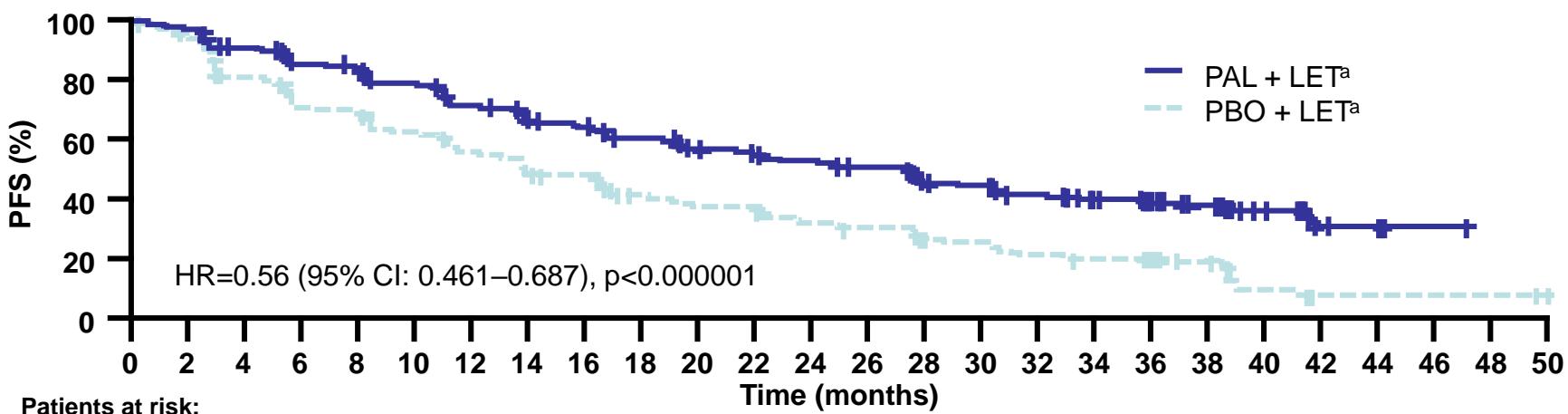
CI, intervalo de confianza; HER2, receptor 2 del factor de crecimiento epidérmico humano; HR, hazard ratio; ITT, intención de tratar; LET, letrozol; NE, no estimable; PAL, palbociclib; PCB, placebo; RE, receptor de estrógenos; SLP, supervivencia libre de progresión

# PALOMA 2-Assessed PFS

mPFS Update after > 37 month follow-up

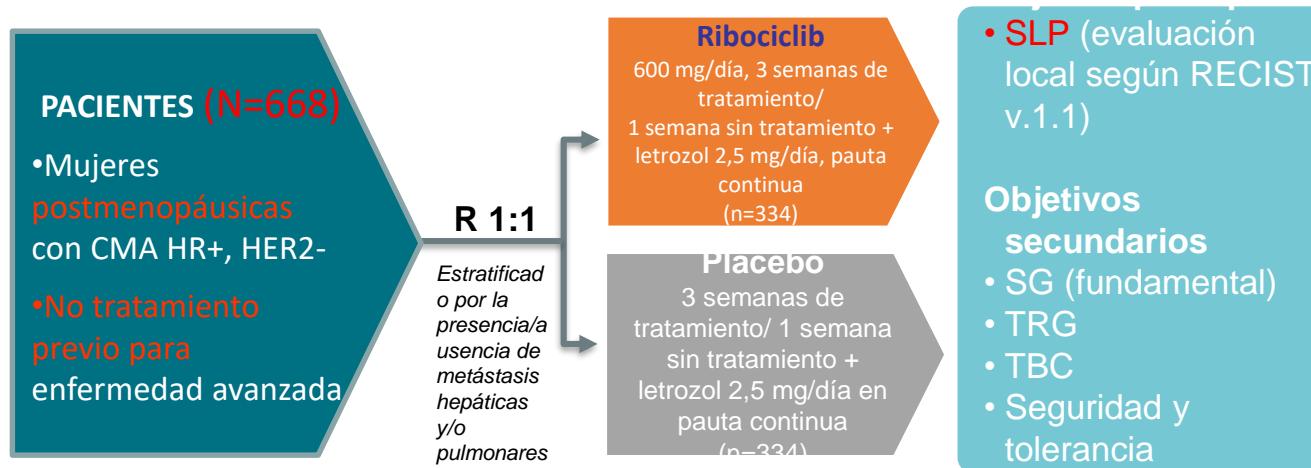
## Investigator-assessed PFS<sup>a</sup>

	Data cutoff date: February 26, 2016 <sup>b</sup>		Data cutoff date: May 31, 2017 <sup>c</sup>	
	PAL + LET	PBO + LET	PAL + LET	PBO + LET
mPFS, months (95% CI)	24.8 (22.1–NE)	14.5 (12.9–17.1)	27.6 (22.4–30.3)	14.5 (12.3–17.1)
PFS HR (95% CI)		0.576 (0.463–0.718)		0.563 (0.461–0.687)
1-sided p value		<0.000001		<0.000001



<sup>a</sup>Data cutoff, May 31, 2017 <sup>b</sup>Median follow-up duration was 23.0 months in the palbociclib + letrozole arm and 22.3 months in the placebo + letrozole arm; <sup>c</sup>Median follow-up duration was 37.6 months in the palbociclib + letrozole arm and 37.3 months in the placebo + letrozole arm CI, confidence interval; HR, hazard ratio; ITT, intent-to-treat; LET, letrozole; mPFS, median PFS; NE, not estimable; PAL, palbociclib; PBO, placebo; PFS, progression-free survival

# MONALEESA-2: Fase III ribociclib + letrozol en CMA HR+, HER2<sup>-1,2</sup>

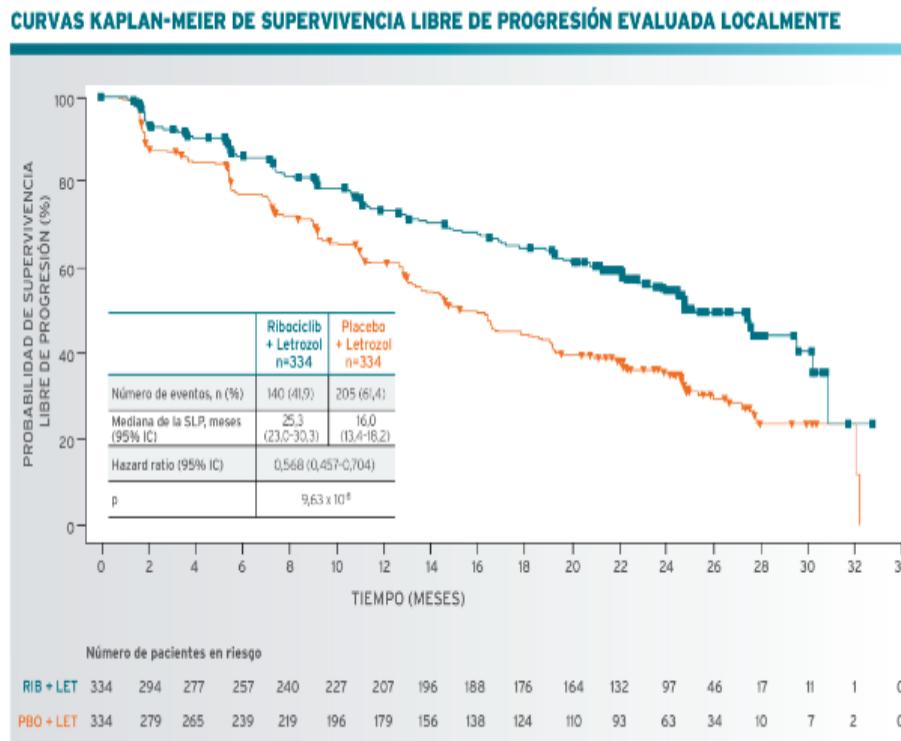


- Las evaluaciones tumorales se realizaron cada 8 semanas durante los primeros 18 meses, y después cada 12 semanas
- El análisis final estaba planificado después de 302 eventos de SLP—93,5% de potencia para detectar una reducción del riesgo de 33% (hazard ratio 0.67) con  $\alpha=2,5\%$  unilateral
- El análisis intermedio se planificó después de ~70% eventos de SLP—Criterios de parada: *Two-look Haybittle-Peto*: hazard ratio  $\leq 0,56$  y  $p < 0,0000129$
- En la fecha de corte de los datos para el análisis intermedio (29 enero 2016), se habían producido 243 eventos de SLP (80% fracción de información)

CMA: cáncer de mama avanzado; TBC: tasa de beneficio clínico; HER2<sup>-</sup>: receptor del factor de crecimiento epidérmico humano 2-negativo; HR+: receptor hormonal positivo; TRG: tasa de respuesta global; SG: supervivencia global; SLP: supervivencia libre de progresión; QoL: calidad de vida; R: randomización; RECIST: Criterios de Evaluación de Respuesta en Tumores Sólidos.

# Evidencia clínica en combinación: fase III Monaleesa 2 (SLP)

En un análisis posterior con 11 meses adicionales de seguimiento, la mediana de la SLP fue de 25,3 meses con KISQALI + letrozol frente a 16,0 meses con placebo + letrozol (HR=0,568 [IC del 95%:



IC: intervalo de confianza; LET: letrozol; PBO: placebo; RIB: ribociclib.

Corte de datos 2 de enero de 2017

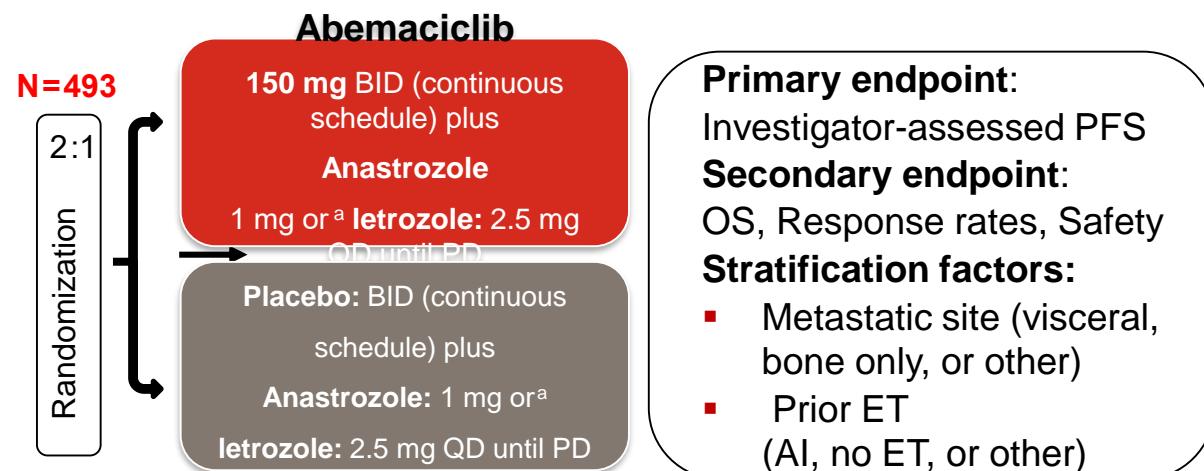
Updated results from MONALEESA-2, a phase 3 trial of first-line ribociclib + letrozole in hormone receptor-positive (HR+), HER2-negative (HER2-), advanced breast cancer (ABC).

1. Hortobagyi GN et al. American Society de Clinical Oncology Annual Meeting; 2017; Poster 1038.

# MONARCH 3: Study Design

## Inclusion Criteria

- ER+, HER2- MBC
- Postmenopausal
- Metastatic or locoregionally recurrent disease with no prior systemic therapy in this setting
- If (neo)adjuvant ET administered, a disease free interval of >12 months since completion of ET
- ECOG PS ≤1

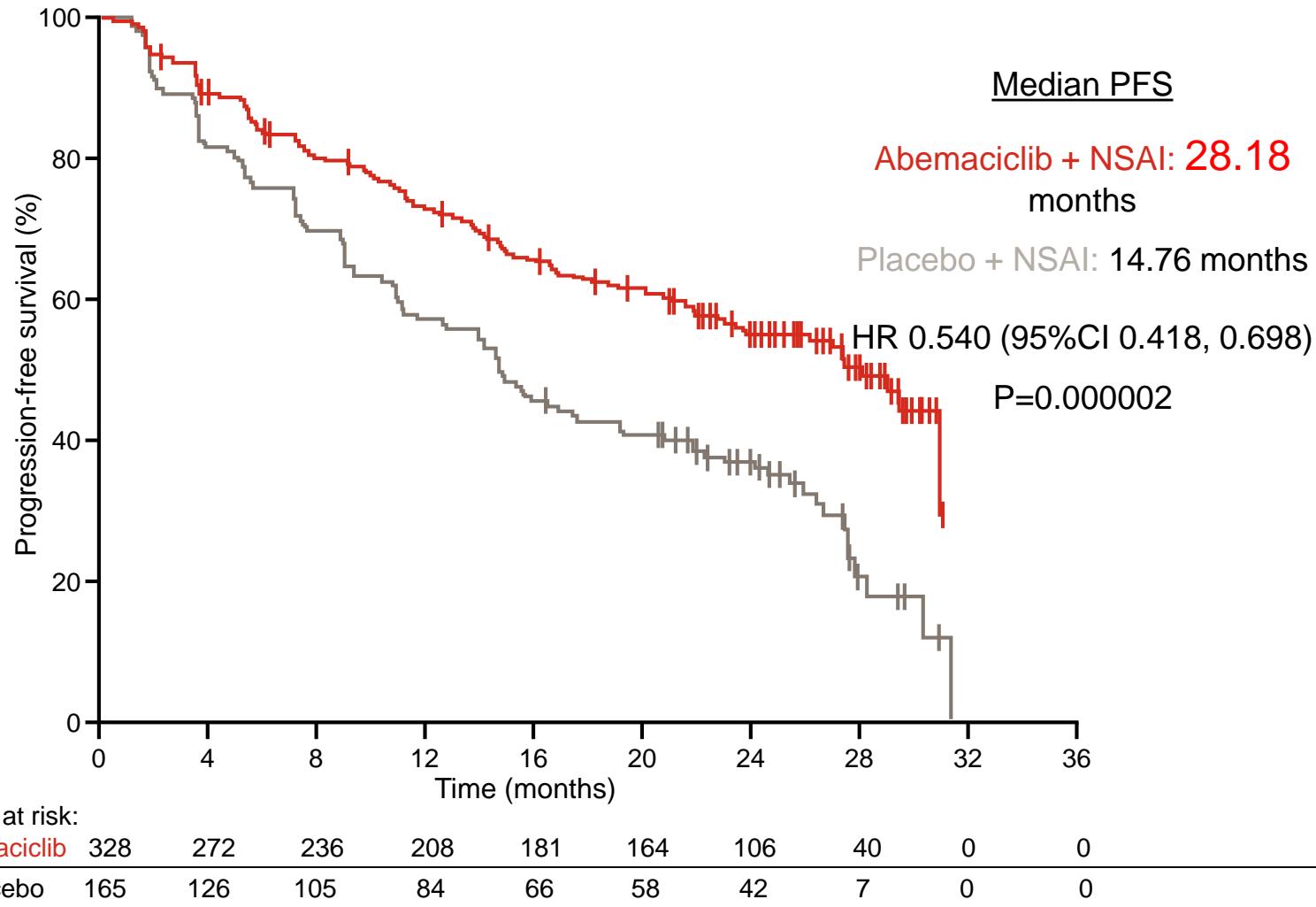


<sup>a</sup>per physician's choice: 79.1% received Ietrozole, 19.9% received anastrozole

- Primary endpoint:** Investigator-assessed PFS  
**Secondary endpoint:** OS, Response rates, Safety  
**Stratification factors:**
- Metastatic site (visceral, bone only, or other)
  - Prior ET (AI, no ET, or other)

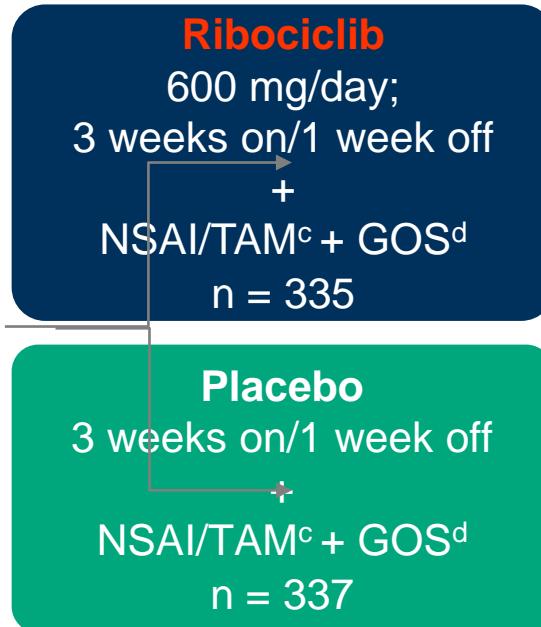
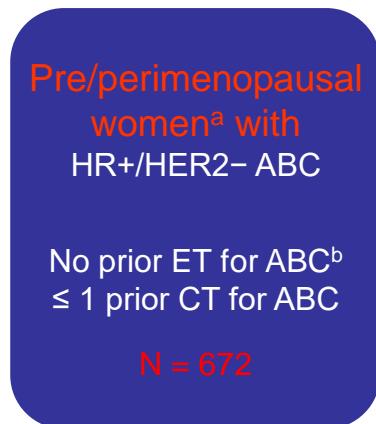
- ✓ Statistics: 240 PFS events for 80% power at one-sided  $\alpha$  of 0.025 assuming a hazard ratio of 0.67
- ✓ Enrolment: From November 2014 to November 2015 patients enrolled in 158 centres from 22 countries
- ✓ Median follow-up: 26.7 months (final analysis)
- ✓ Overall Survival (OS): Immature at this time

# MONARCH 3: Investigator-Assessed PFS



# MONALEESA-7 Study Design

**First Phase III trial with a  
CDK4/6 inhibitor exclusively in  
premenopausal patients**



**Primary endpoint**

- PFS (local)

**Key secondary endpoint**

- OS

**Select secondary endpoints**

- HRQOL
- ORR
- TTDD of ECOG PS
- Safety

## Stratification Factors

- Liver/lung metastasis (yes/no)
- Prior chemotherapy (yes/no)
- Combination partner (NSAI/TAM)

P3: 1906067

<sup>a</sup> anastrozole; CT, chemotherapy; ECOG PS, Eastern Cooperative Oncology Group performance status; FSH, follicle-stimulating hormone; GOS, goserelin; HRQOL, health-related quality of life; NSAI, nonsteroidal aromatase inhibitor; ORR, objective response rate; TAM, tamoxifen; TTDD, time to definitive deterioration.

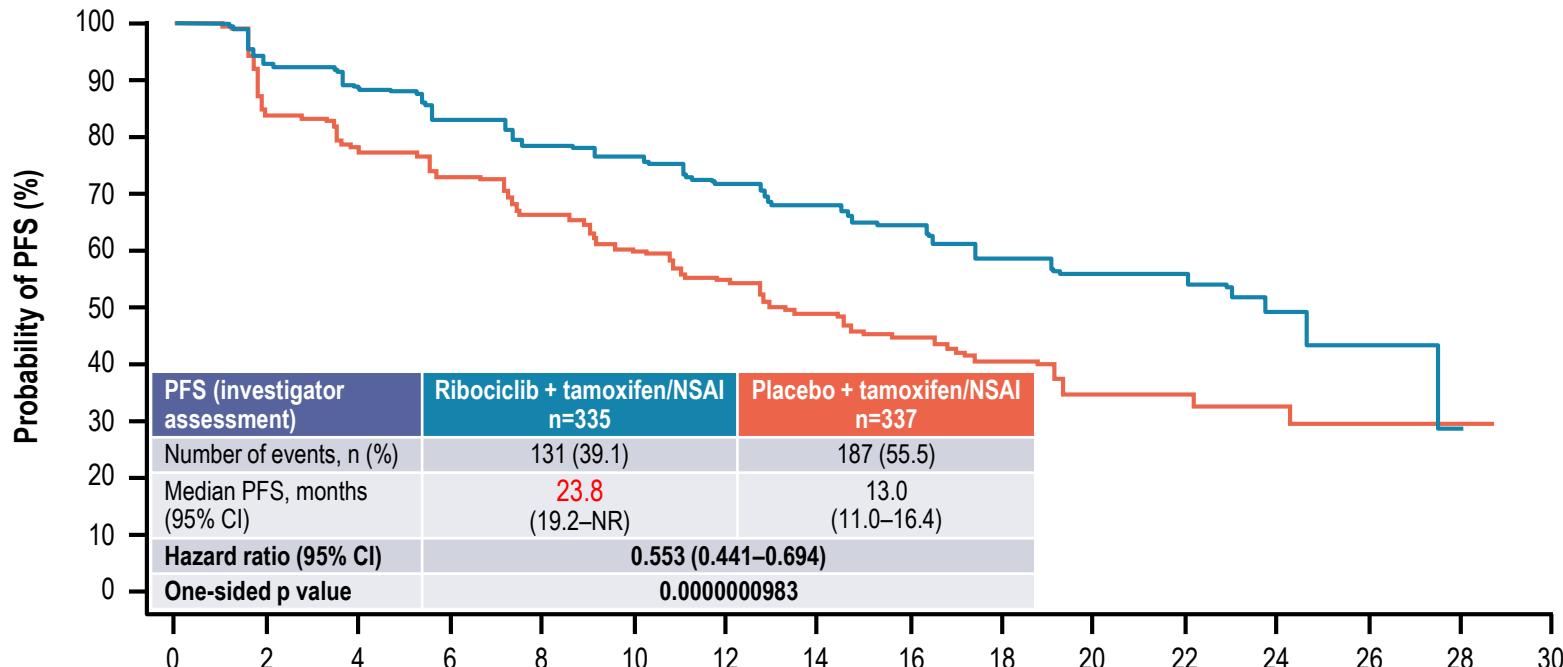
<sup>b</sup> Premenopausal status was defined as either patient had last menstrual period ≤ 12 months *or* if receiving TAM or toremifene for ≤ 14 days, plasma estradiol and FSH must be in normal premenopausal range *or* in the case of induced amenorrhea, plasma estradiol and FSH must be in normal premenopausal range. Perimenopausal status was defined as neither premenopausal nor postmenopausal (prior bilateral oophorectomy, age ≥ 60 years, or FSH and plasma estradiol levels in normal postmenopausal range). Patients could not be ≥ 60 years of age. <sup>b</sup> Patients who received ≤ 14 days of NSAI/TAM ± GOS were allowed.

<sup>c</sup> TAM and NSAI were administered daily orally. TAM dose was 20 mg, LET dose was 2.5 mg, and ANA dose was 1 mg. <sup>d</sup> GOS 3.6 mg was administered by subcutaneous injection. ANA

# MONALEESA 7

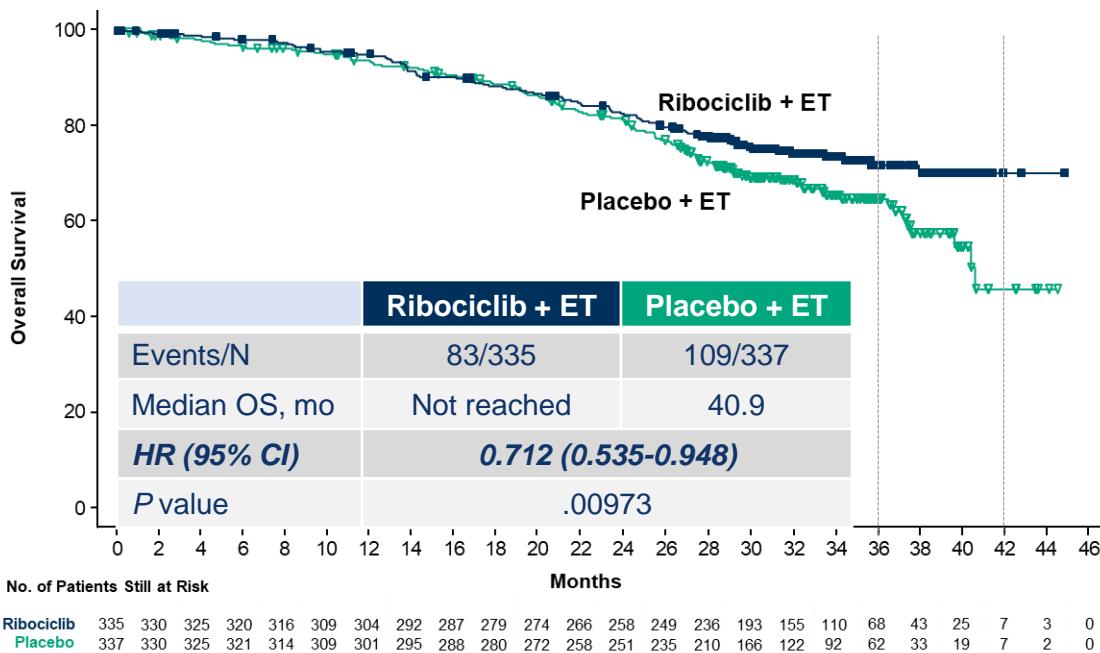
## Primary endpoint: PFS (investigator-assessed)

1712054696



CI, confidence interval; NR, not reached.  
Goserelin included in all combinations.

# MONALEESA 7: Overall Survival



- $\approx 29\%$  relative reduction in risk of death
- The *P* value of .00973 crossed the prespecified boundary to claim superior efficacy

## Landmark Analysis

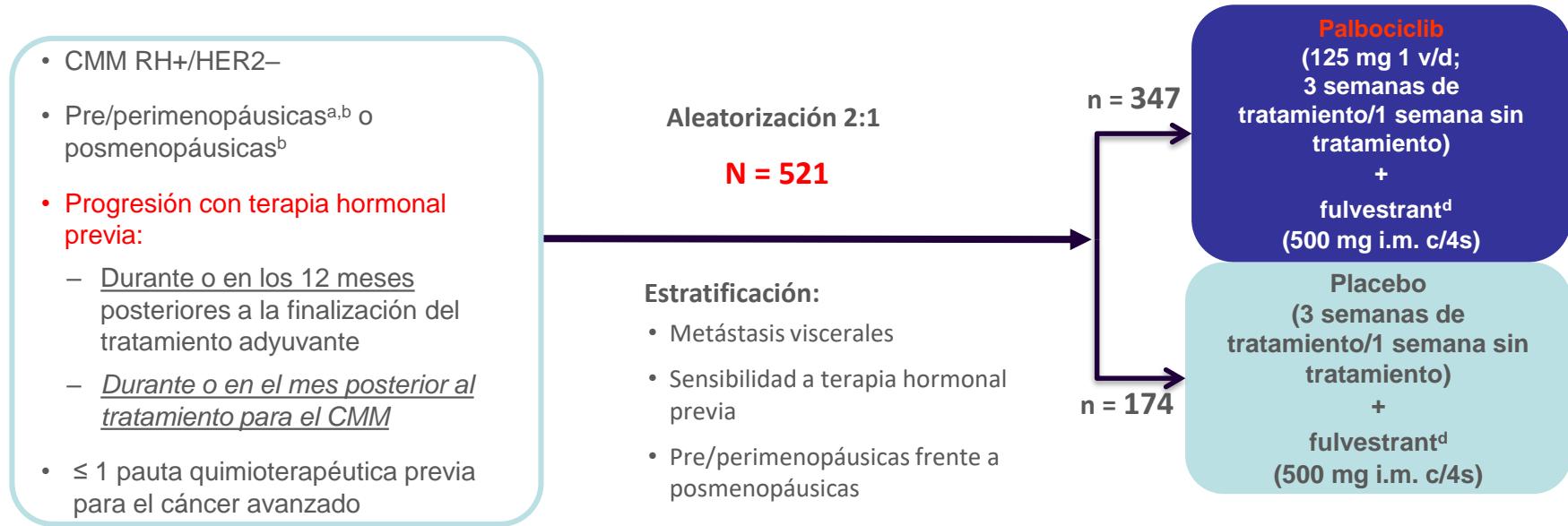
Kaplan-Meier Estimate	Ribociclib + ET	Placebo + ET
36 months	71.9%	64.9%
<b>42 months</b>	<b>70.2%</b>	<b>46.0%</b>



2<sup>a</sup> Línea  
(Hormonorresistentes)

# PALOMA-3: Diseño del estudio<sup>1-4</sup>

Estudio de fase III doble ciego en 144 centros de 17 países ([NCT01942135](#))



Turner *et al.* 2015<sup>1</sup>

<sup>a</sup>Todas recibieron goserelina; <sup>b</sup>Deben haber progresado con tamoxifeno adyuvante u otra terapia hormonal previa (pre/perimenopáusicas) o tratamiento con IA (posmenopáusicas);

<sup>c</sup>Pacientes aleatorizadas; <sup>d</sup>Administrado los días 1 y 15 del ciclo 1 y, posteriormente, cada 28 días. Fecha de corte de los datos de 5 de diciembre de 2014 utilizada para el análisis provisional; mediana de seguimiento de 5,6 meses. Fecha de corte de los datos de 16 de marzo de 2015 utilizada para el análisis final; mediana de seguimiento de 8,9 meses. Fulvestrant: Laboratorio comercializador AstraZeneca.

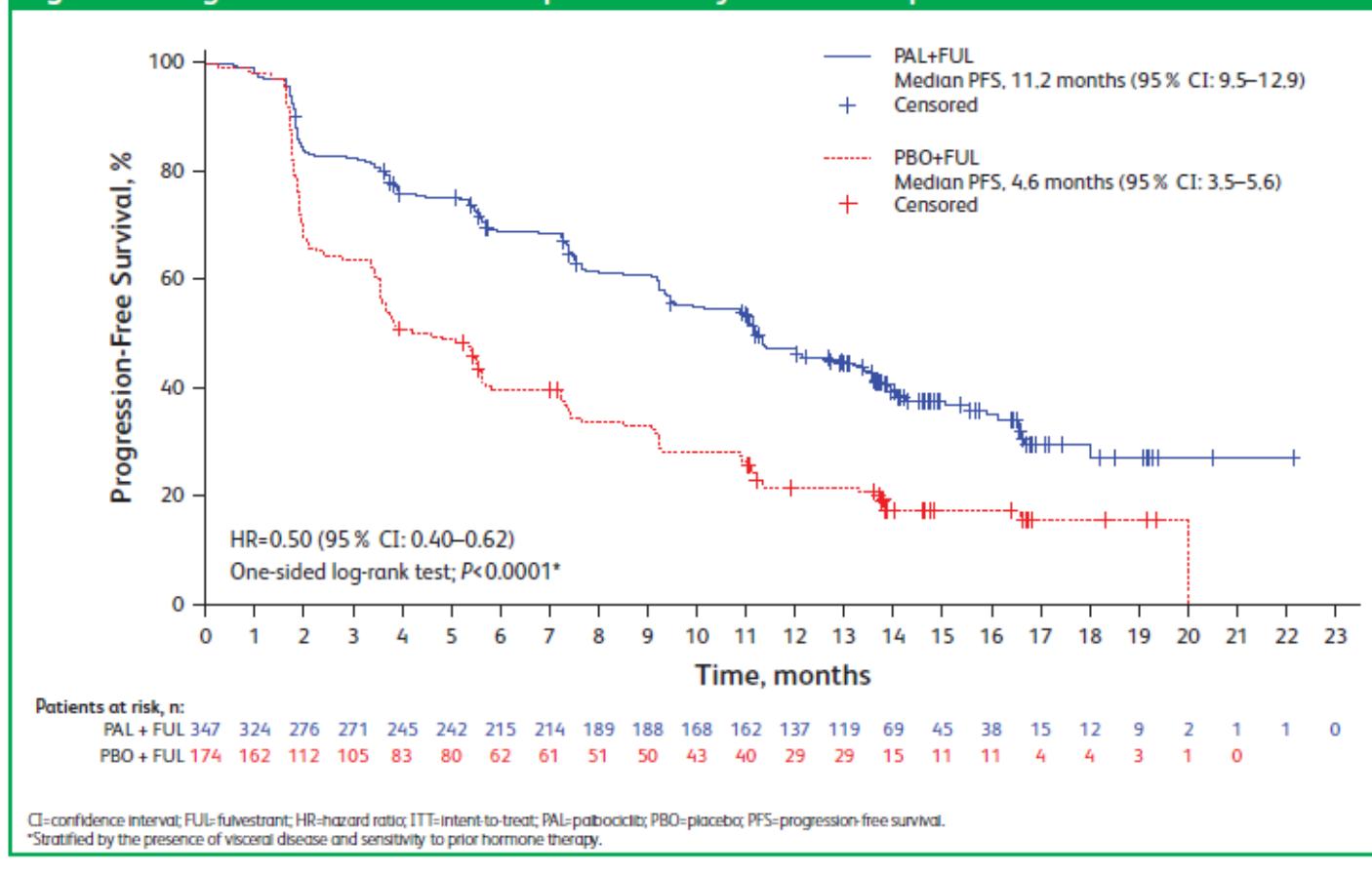
CMM, cáncer de mama metastásico; HER2, receptor 2 del factor de crecimiento epidérmico humano; IA, inhibidor de la aromatasa; i.m., intramuscular.

1. Turner NC, *et al.* N Engl J Med 2015. 2. Cristofanilli M, *et al.* Lancet Oncol 2016. 3. Harbeck N, *et al.* Annals Oncol 2016.

4. Verma S, *et al.* The Oncologist 2016

# Ibrance: Más del doble de SLP en pacientes hormonorresistentes

Figure 2. Progression-Free Survival: Updated Analysis of ITT Population



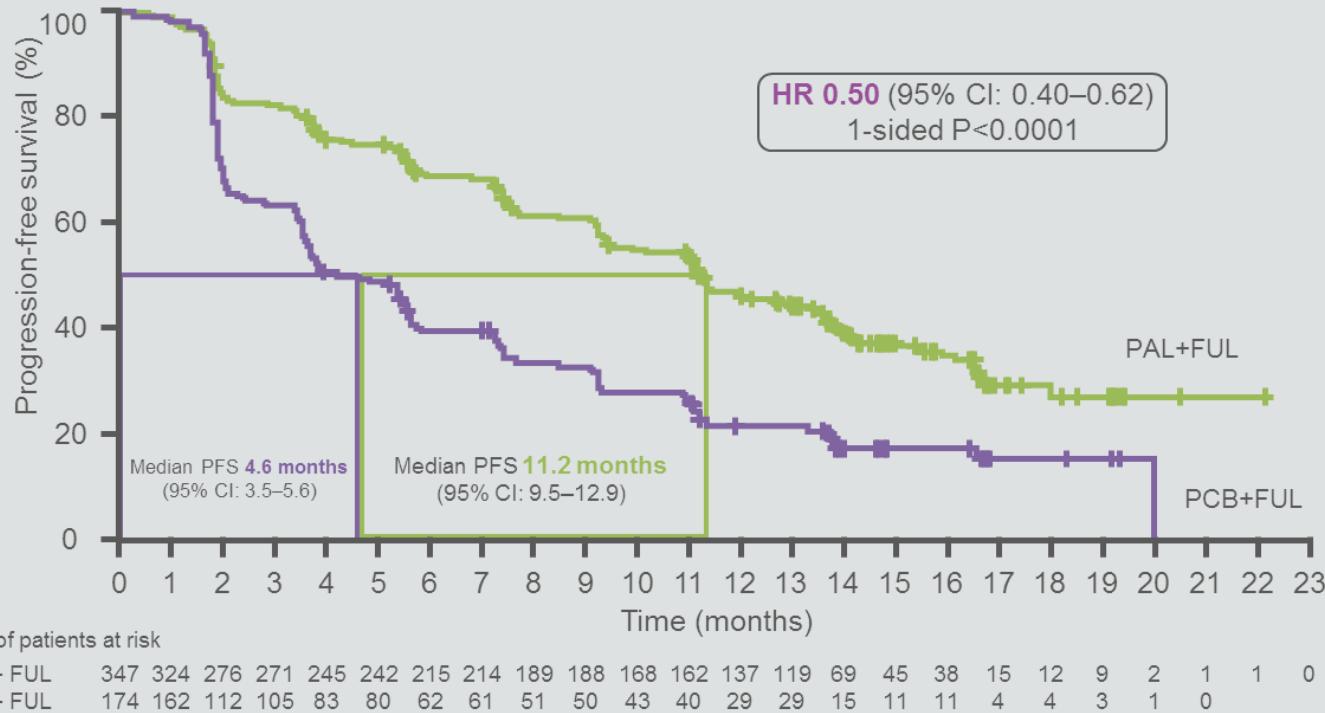
HR = 0,50  
(95% CI: 0,4 – 0,62)

Ibrance + Fulvestrant  
Mediana (95% IC)  
**SLP 11,2 meses**  
(9,5 – 12,9)

Placebo + Fulvestrant  
Mediana (95% IC)  
**SLP 4,6 meses**  
(3,5 – 5,6)

Extraído de Turner, et al. N Engl J Med 2018

# Reducción del riesgo de progresión de tumor en un 50%<sup>1</sup>



HR = 0,50  
(95% CI: 0,4 – 0,62)

Ibrance + Fulvestrant  
Mediana (95% IC)  
SLP 11,2 meses  
(9,5 – 12,9)

Placebo + Fulvestrant  
Mediana (95% IC)  
SLP 4,6 meses  
(3,5 – 5,6)

Extraído de Turner, et al. N Engl J Med 2018

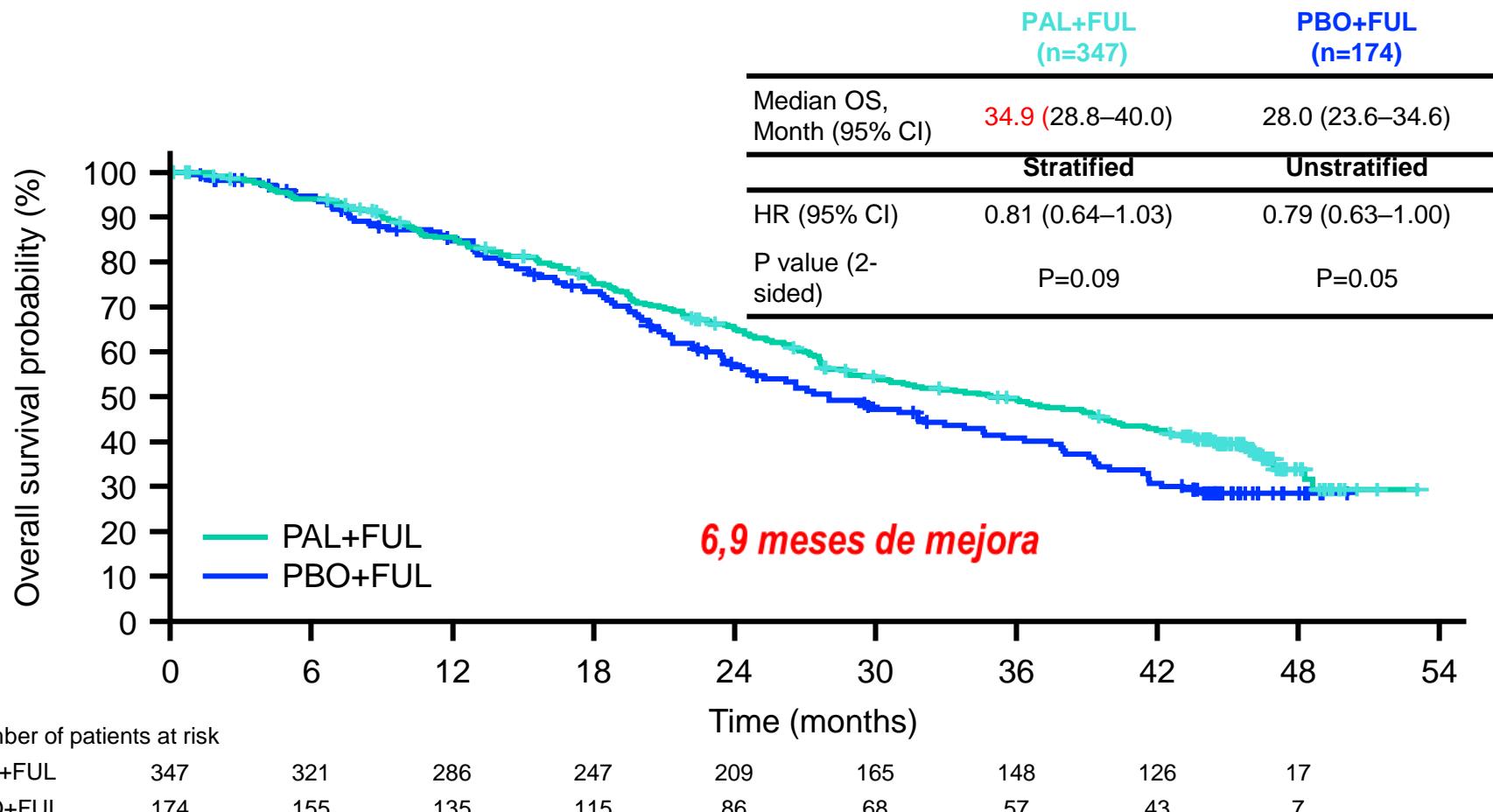
1. Turner NC, et al. NEJM 2018

\*Fecha de corte de los datos: octubre de 2015

CI, intervalo de confianza; CMM, cáncer de mama metastásico; FUL, fulvestrant; HER2, receptor 2 del factor de crecimiento epidérmico humano; HR, hazard ratio; PAL, palbociclib; PCB, placebo; RH, receptor hormonal; SLP, supervivencia libre de progresión

# Overall Survival in PALOMA-3 (ITT) *ESMO 2018*

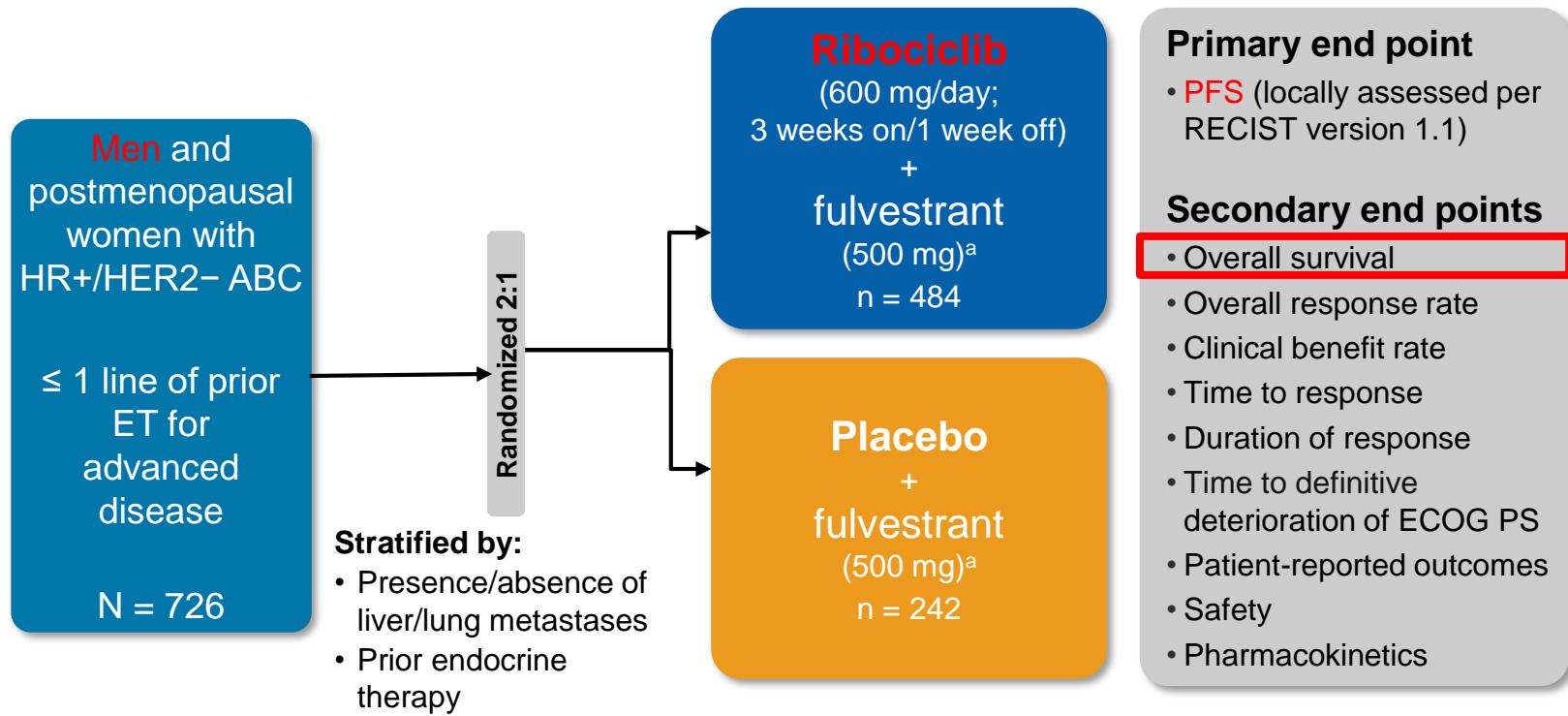
Absolute improvement in median OS in the palbociclib arm versus the placebo arm was 6.9 months



FUL=fulvestrant; HR=hazard ratio; ITT=intent-to-treat;  
OS=overall survival; PAL=palbociclib; PBO=placebo.

Turner, et al. N Engl J Med 2018

# MONALEESA-3 Study Design



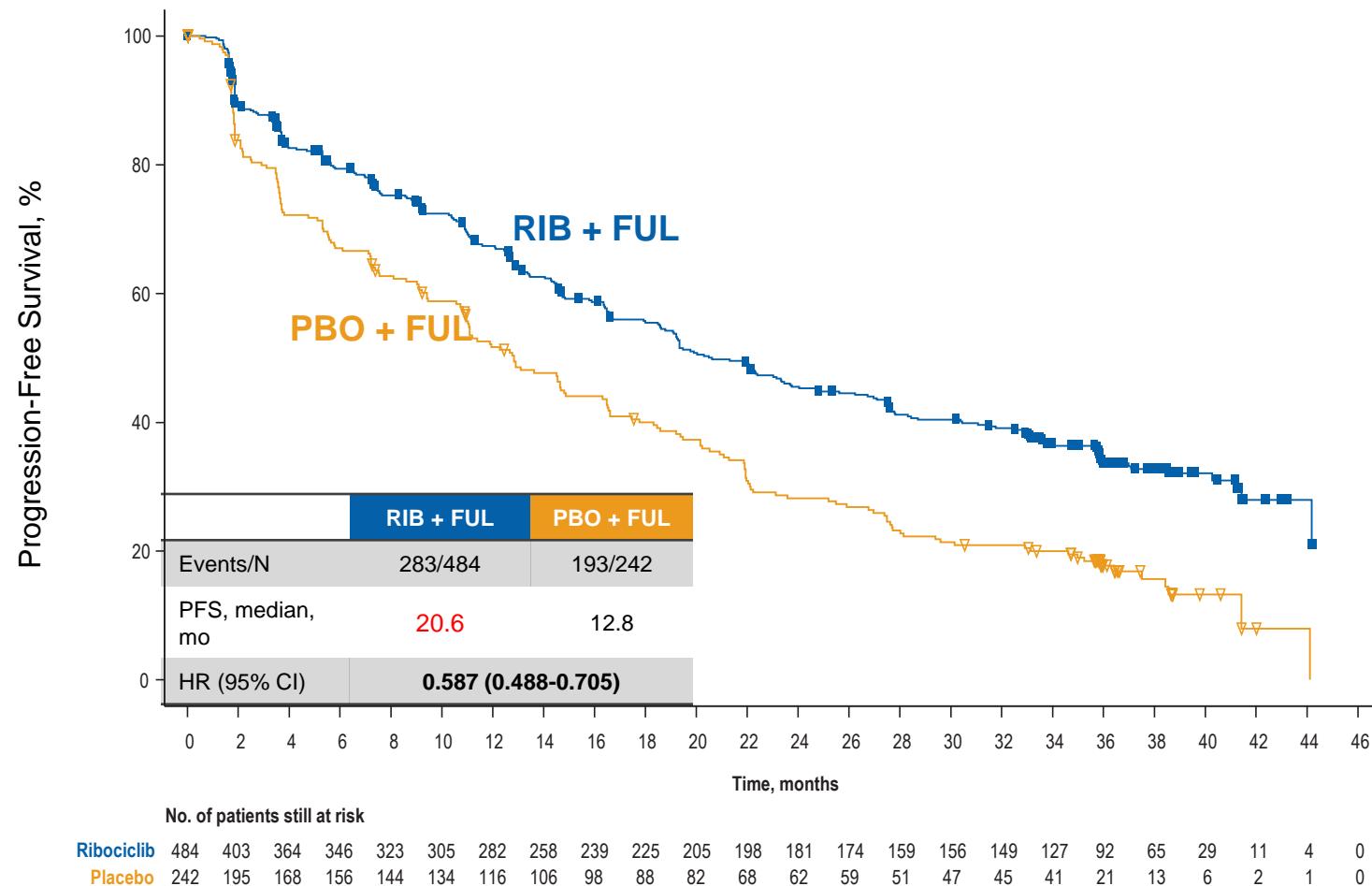
## Patient population definitions



1L, first line; 2L, second line; ABC, advanced breast cancer; ECOG PS, Eastern Cooperative Oncology Group performance status; ET, endocrine therapy; HER2, human epidermal growth factor receptor 2; HR, hormone receptor; PD, progressive disease; PFS, progression-free survival; RECIST, Response Evaluation Criteria in Solid Tumors; TFI, treatment-free interval.  
<sup>a</sup> Fulvestrant 500 mg intramuscularly every 28 days plus an additional dose on Cycle 1, Day

# Progression-Free Survival: Overall Population

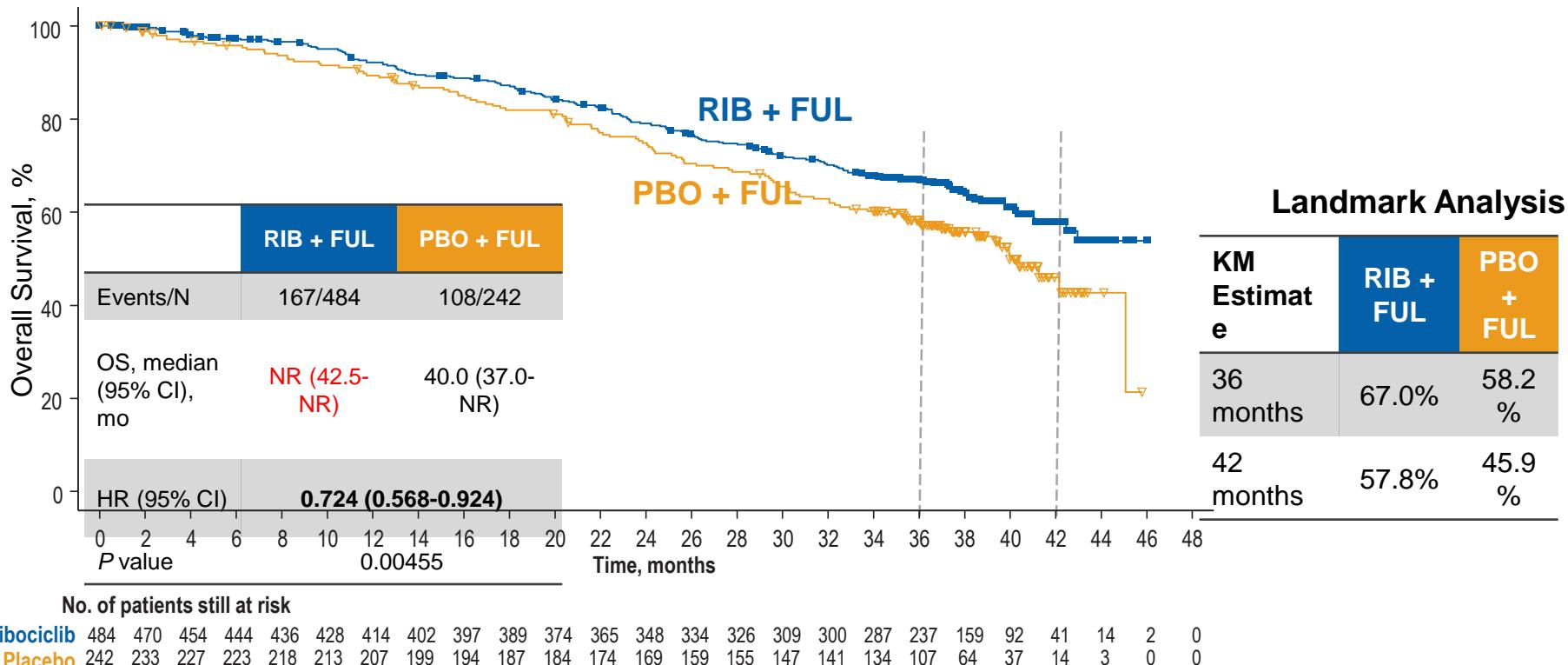
*Descriptive analysis of PFS consistent with primary report*



FUL, fulvestrant; HR, hazard ratio; PBO, placebo; PFS, progression-free survival; RIB, ribociclib.

# Overall Survival

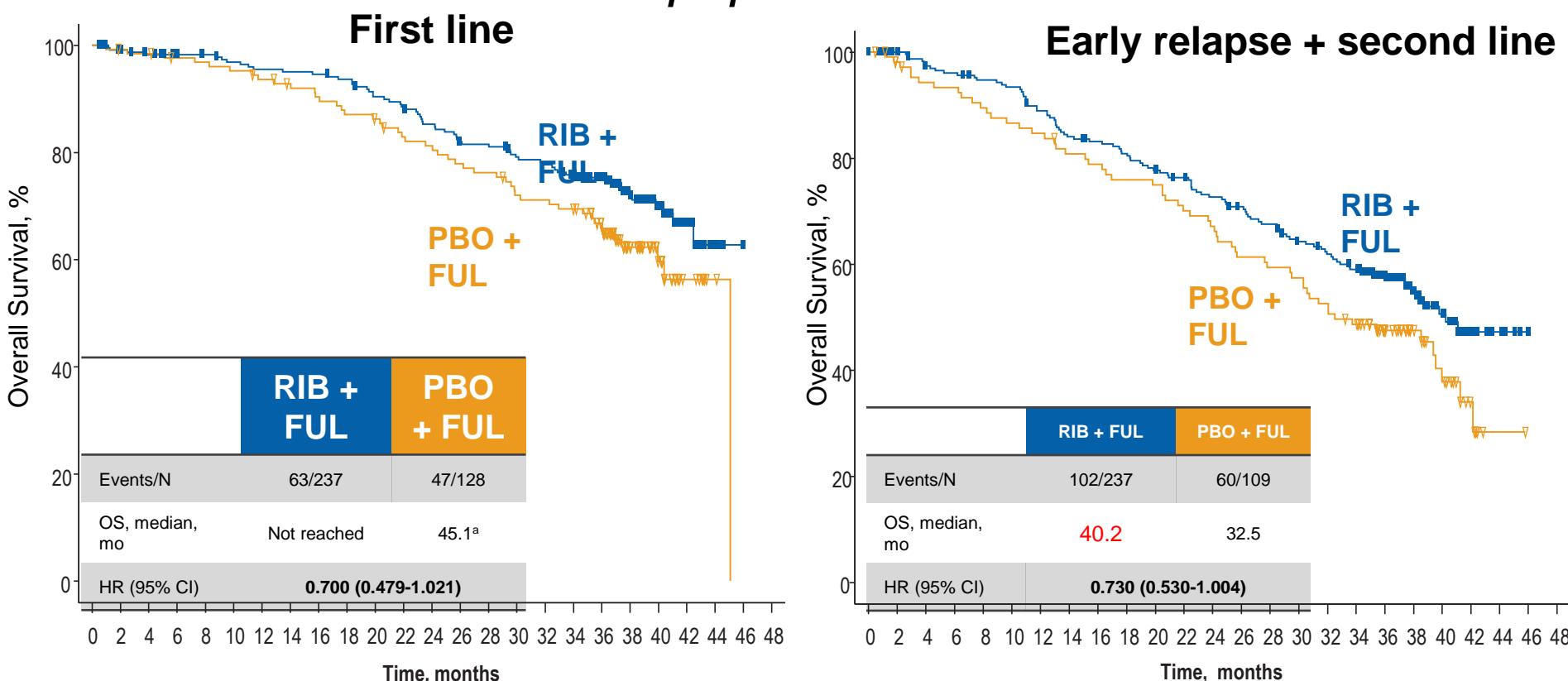
***The reduction in relative risk of death with RIB was 28%***



- The  $P$  value of 0.00455 crossed the prespecified boundary to claim superior efficacy ( $P < 0.01129$ )

# Overall Survival by Line of Therapy

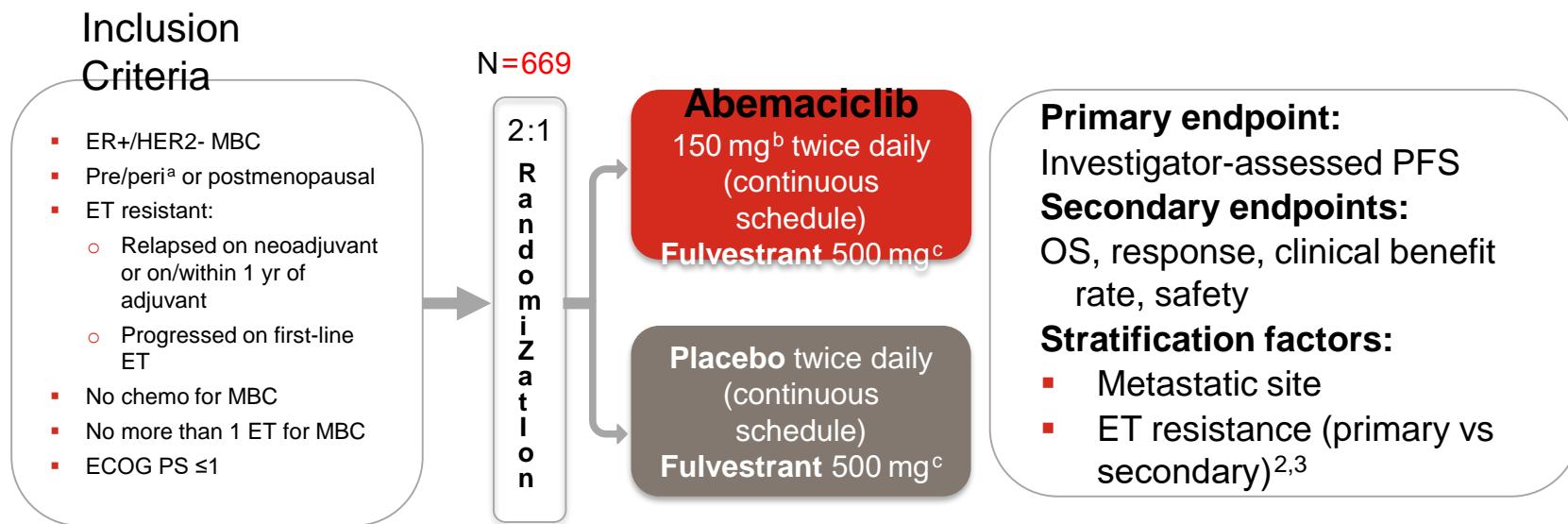
*OS by line of therapy was consistent with overall population*



FUL, fulvestrant; HR, hazard ratio; OS, overall survival; PBO, placebo; RIB, ribociclib.

<sup>a</sup> This median value may not be estimated reliably due to the last patient on follow-up, who had an event at 45.1 months.

# MONARCH 2: Study Design



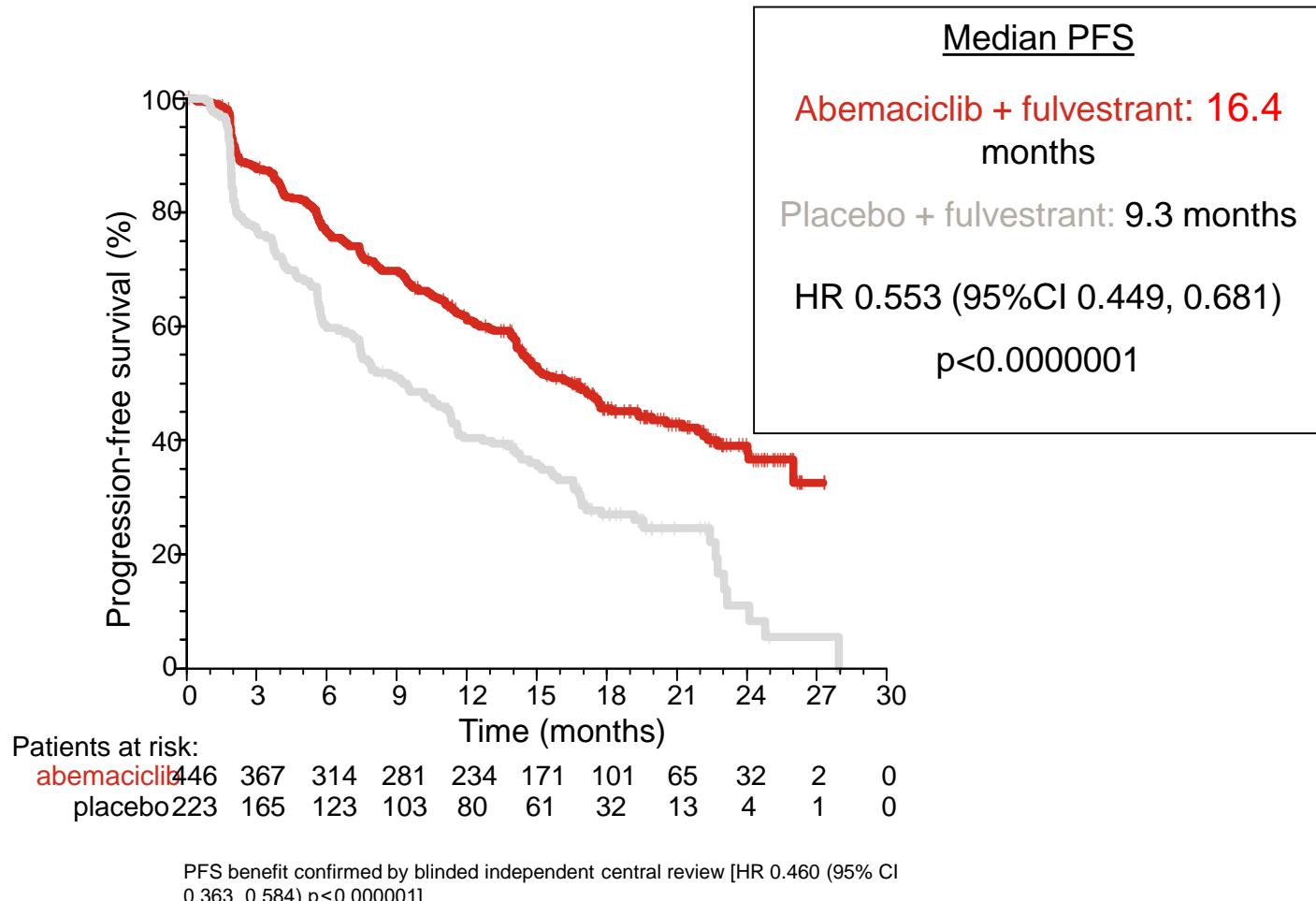
## Study Population at Baseline<sup>1</sup>:

- Bone-only disease – 27%
- Visceral disease – 56%
- Primary ET resistance – 25%
- De novo metastatic – 20%

<sup>a</sup>Required to receive GnRH agonist; <sup>b</sup>Dose reduced by protocol amendment in all new and ongoing patients from 200 mg to 150 mg twice daily after 178 patients enrolled; 121 were randomized to abemaciclib at the 200 mg starting dose and 57 to matching placebo<sup>3</sup>; <sup>c</sup>Fulvestrant administered per label.

1. Sledge GW, et al. J Clin Oncol 2017; 35:2875-2884 2. Cardoso F, et al. Breast 2014;6:489–502; 3. Cardoso F, et al. Ann Oncol 2014;25:1871–88.

# MONARCH 2: Primary Endpoint, PFS (ITT)



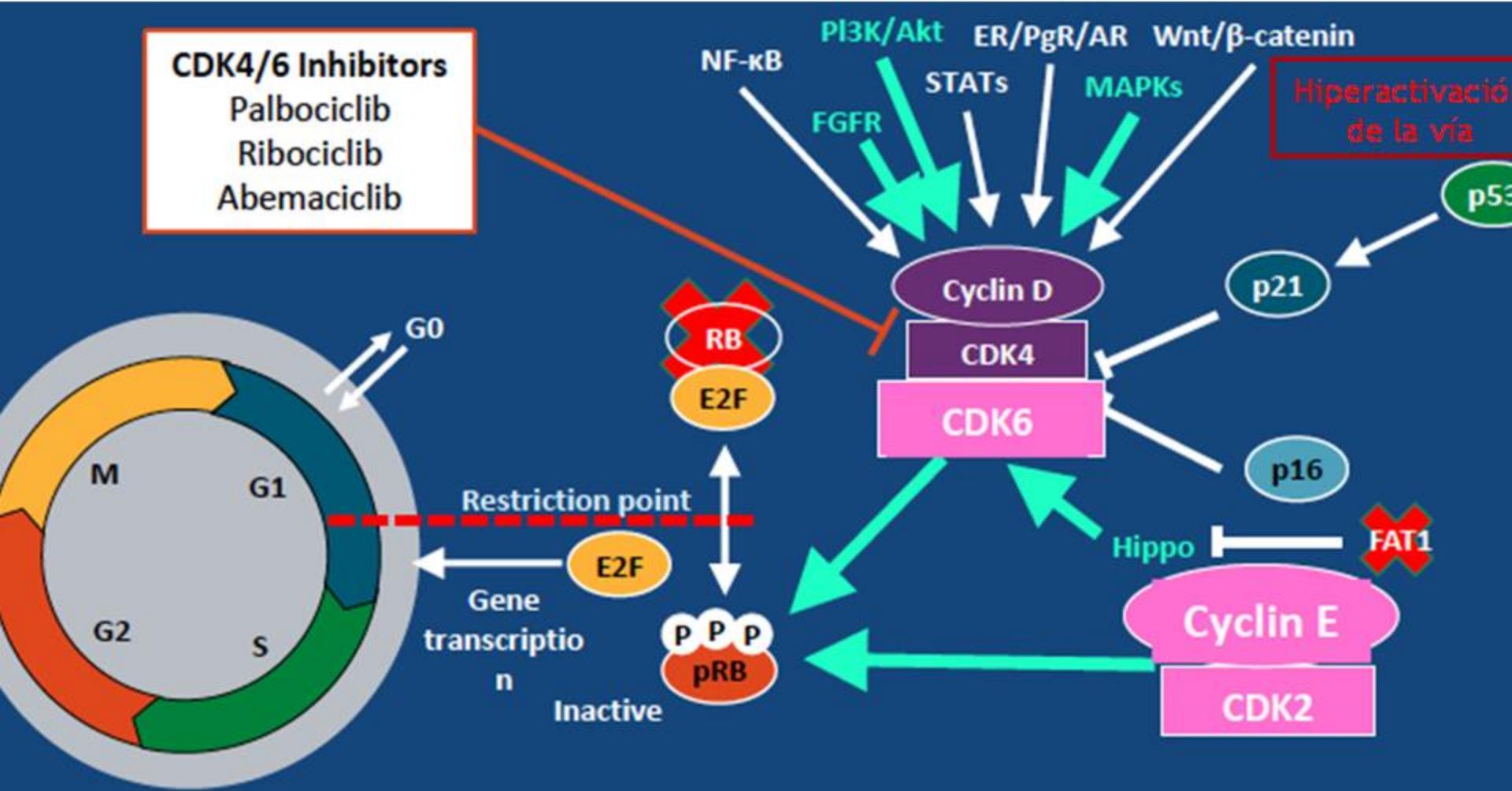
Gráfica adaptada de: Sledge GW Jr, et al. J Clin Oncol 2017;35:2875–84.



# Efectos adversos

- Muy bien tolerados
- Neutropenias (afebriles)  
transitorias

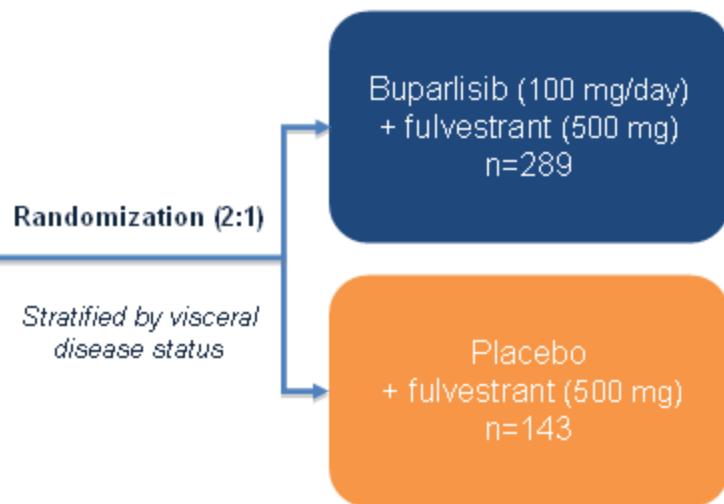
# Terapias del Futuro



# ¿Hormonoterapia tras PE a inhibidores de ciclinas?

## BELLE-3 Study Design and Endpoints

- Postmenopausal women with HR+/HER2-, AI-pretreated, locally advanced or metastatic breast cancer
- Progression on or after an mTOR inhibitor as last line of treatment
- N=432



- Tumor assessments were performed every 6 weeks
- 90% power to detect a 33% risk reduction in PFS (disease progression or death) at one-sided  $\alpha=0.025$ , based on the observation of 313 PFS events

### Primary endpoint

- PFS (locally assessed per RECIST v1.1)

### Key secondary endpoint

- OS

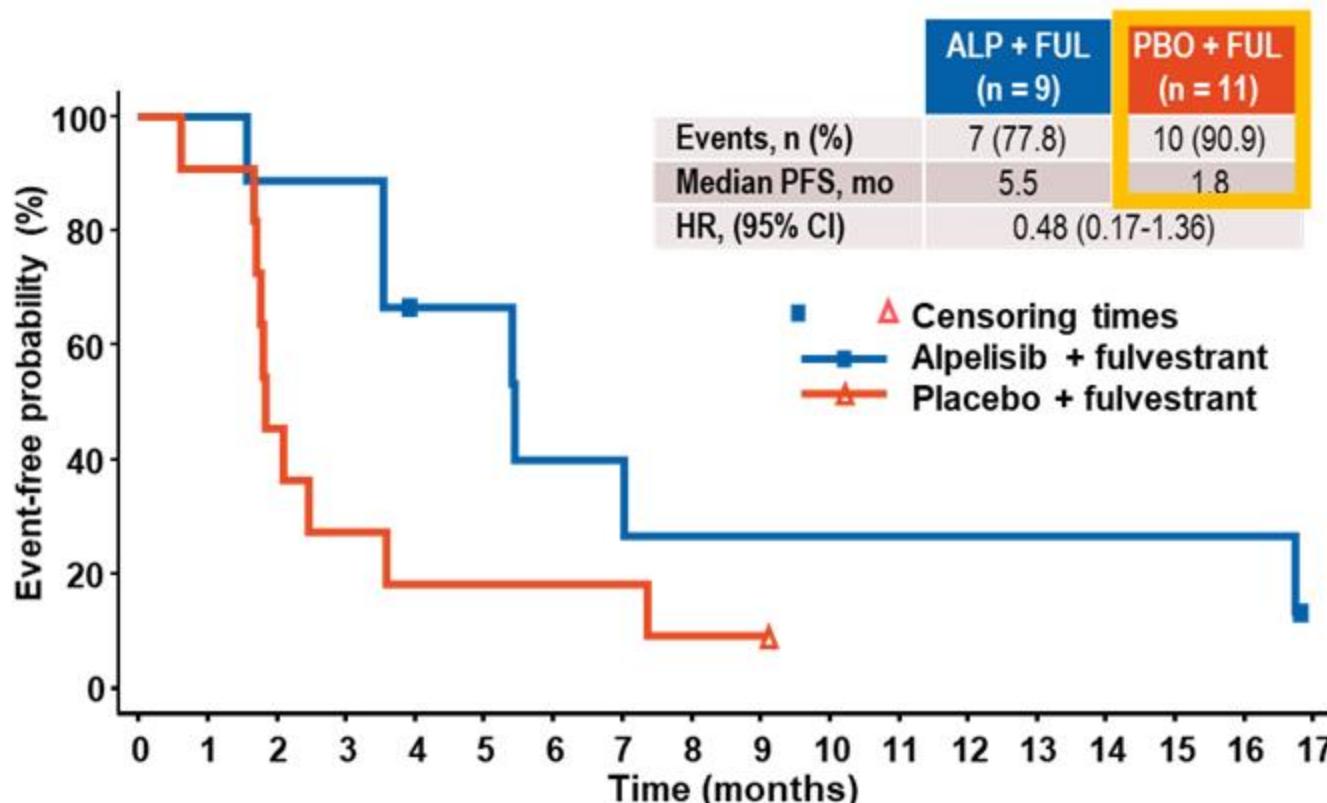
### Other secondary endpoints

- PFS by PIK3CA status (ctDNA)
- OS by PIK3CA status (ctDNA)
- ORR and CBR in the full population and by PIK3CA status (ctDNA)
- Safety, pharmacokinetics, quality of life

# ¿Hormonoterapia tras PE a inhibidores de ciclinas?

Estudio SOLAR-1: Subgrupo pre-tto con Inh CDK 4/6

## With Prior CDK4/6 inhibitor therapy





## CONCLUSIONES

- Mejoría de SLP en todos los ensayos 1<sup>a</sup>, 2<sup>a</sup> y sucesivas
- SG en enfermedad refractaria
- Pre y post menopáusicas
- Magnifica tolerabilidad
- Estudios de calidad de vida muy favorables

