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Updated Overall Survival Results From the First-Line Population in the Phase III MONALEESA-3 Trial of Postmenopausal Patients With HR+/HER2- Advanced Breast Cancer Treated With Ribociclib + Fulvestrant

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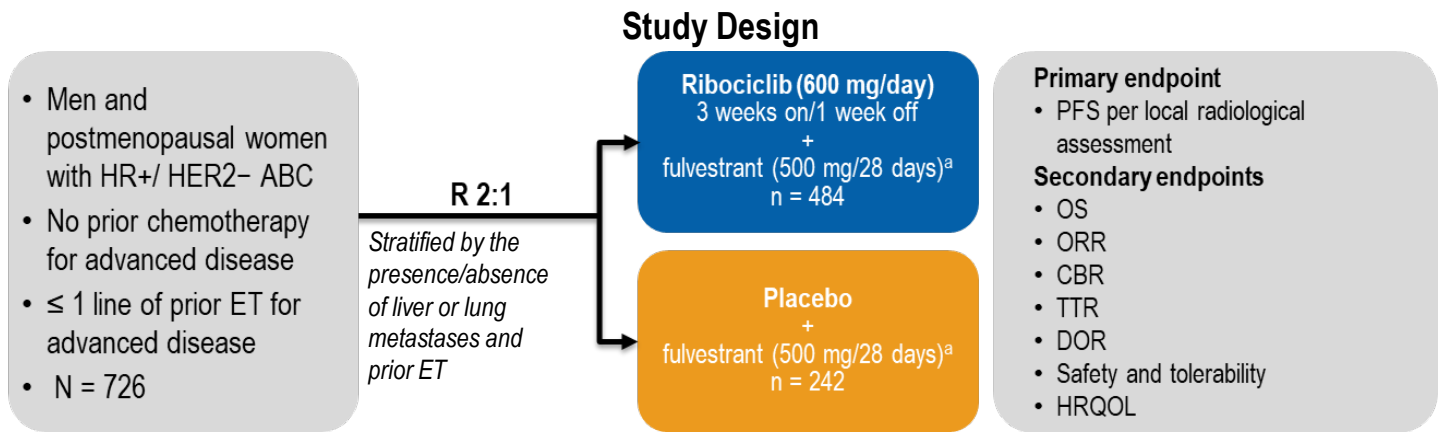
Declaration of Interests

- ◆ I am an academic and I am 100% employed by UZ and KU-Leuven
- ◆ Member of “oncology drugs”- working group CTG RIZIV/INAMI
- ◆ Honorarium paid to institution
- ◆ Lectures, ad board, steering committee, DMSB, travel (payment UZ-Leuven)
- ◆ Ad Board payments to institution: Amgen, Astra Zeneca, Eli Lilly, Gilead, Novartis, Pfizer, Roche
- ◆ No other COI for this topic

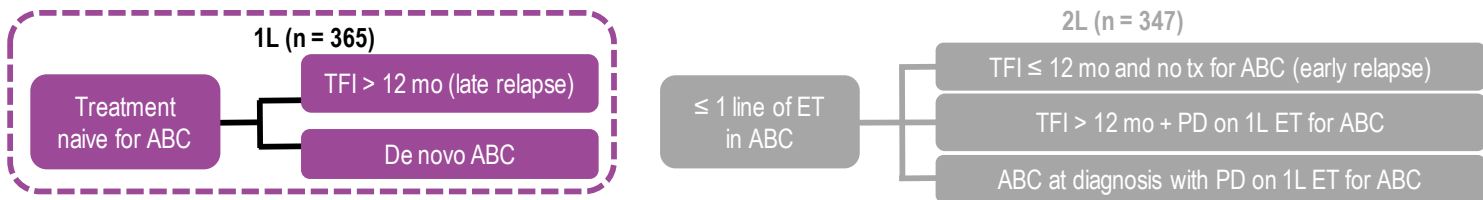
Background HR+/HER2- ABC

- ◆ CDK4/6 (-) avoid hyperphosphorylation of Rb (Retinoblastoma protein) → Induce G1 cell cycle arrest
 - ◆ Combined with ET, CDK4/6 (-) improve PFS (greatest therapeutic achievement past 20 yrs)
- ◆ The MONALEESA-2, -3, and -7 trials showed a statistically significant OS benefit with ribociclib + ET vs placebo + ET in pre-, peri-, and postmenopausal pts¹⁻³
- ◆ The MONALEESA-3 evaluated ribociclib + fulvestrant in 1L (treatment naive) and 2L (≤ 1 line of ET) postmenopausal pts²
 - ◆ Final protocol-specified OS analysis (39.4 mo mFU), ribociclib was associated with a statistically significant OS benefit over placebo (HR, 0.72 [95% CI, 0.57-0.92]; $P=.00455$)²
 - ◆ An exploratory OS analysis (56.3 mo mFU) confirmed the consistent OS benefit of ribociclib and demonstrated a median OS of 53.7 mo with ribociclib vs 41.5 mo with placebo (HR, 0.73 [95% CI, 0.59-0.90]) in the ITT population⁴
 - ◆ However, the median OS was not reached in the ribociclib arm for the 1L population
- ◆ Here we report an exploratory analysis of OS in the 1L subgroup of MONALEESA-3, with median follow-up of 70.8 mo

MONALEESA-3 Study Design and Patients



Patient Population Definitions



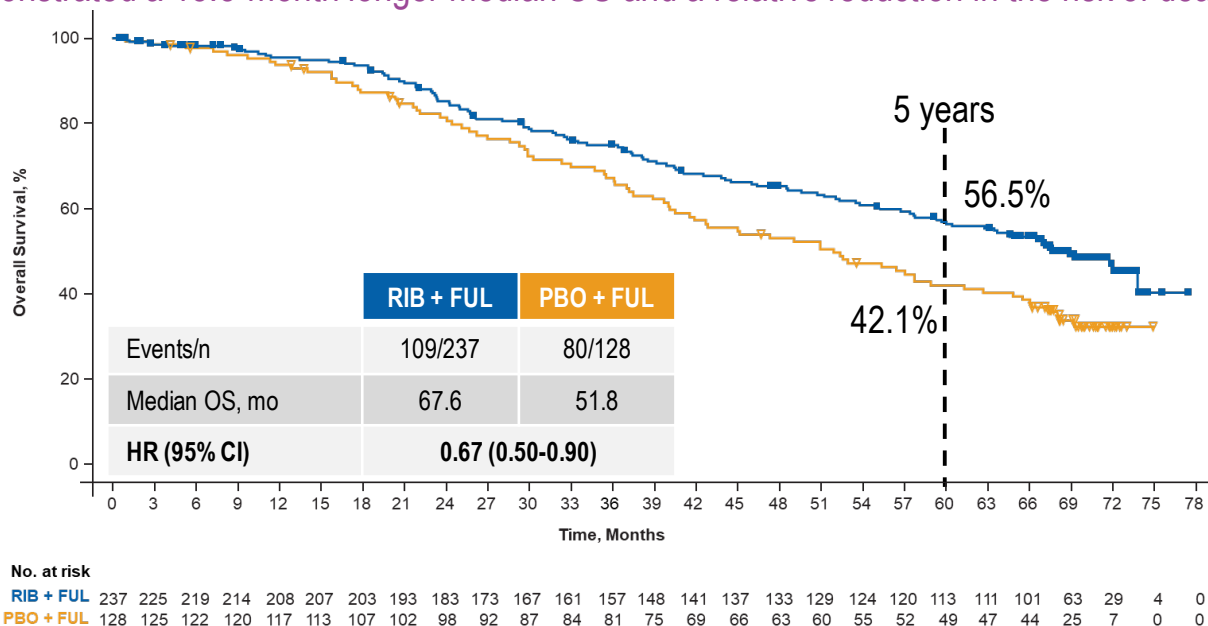
1L, first line; 2L, second line; ABC, advanced breast cancer; CBR, clinical benefit rate; DOR, duration of response; ET, endocrine therapy; HER2, human epidermal growth factor receptor 2; HR, hormone receptor; HRQOL, health-related quality of life; ORR, overall response rate; OS, overall survival; PD, progressive disease; PFS, progression-free survival; TFI, treatment-free interval; TTR, time to response; tx, treatment.

^a One additional dose on cycle 1 day 15.

Reference: Slamon DJ, et al. *J Clin Oncol*. 2018;36:2465-2472.

Median OS With First-Line Ribociclib Was 67.6 Months*

Ribociclib demonstrated a 15.8-month longer median OS and a relative reduction in the risk of death of 33% vs placebo



- ◆ Median duration of follow-up from randomization to data cutoff was 70.8 months (minimum, 67.3 months)
- ◆ At 5 years, the survival rate of patients receiving ribociclib was 56.5%

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

Data cutoff, January 12, 2022.

* Patients continuing study treatment at the time of data cutoff (January 12, 2022): 16.5% with ribociclib + fulvestrant vs 8.6% with placebo + fulvestrant.

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Subsequent Therapy After Discontinuation

Post-discontinuation CDK4/6i use was higher in the placebo arm vs the ribociclib arm

Parameter, n (%)	Ribociclib + Fulvestrant N = 237	Placebo + Fulvestrant N = 128
Patients who discontinued study treatment	198 (83.5)	117 (91.4)
Patients who received first subsequent antineoplastic therapy	162 (81.8)	105 (89.7)
Chemotherapy alone	25 (12.6)	19 (16.2)
Chemotherapy + hormonal or other therapy ^a	16 (8.1)	15 (12.8)
Hormonal therapy alone	71 (35.9)	30 (25.6)
Hormonal therapy + targeted or other therapy ^b	45 (22.7)	40 (34.2)
Targeted therapy alone or other therapy	5 (2.5)	1 (0.9)
Patients who received a CDK4/6i in any subsequent line of therapy	33 (16.7)	41 (35.0)
Palbociclib	17 (8.6)	32 (27.4)
Ribociclib	13 (6.6)	7 (6.0)
Abemaciclib	6 (3.0)	3 (2.6)

CDK4/6i, cyclin-dependent kinases 4 and 6 inhibitor.
Data cutoff, January 12, 2022.

^a Includes patients who received chemotherapy in combination with any non-chemotherapy.

^b Includes patients who received hormonal therapy + other therapy without chemotherapy.

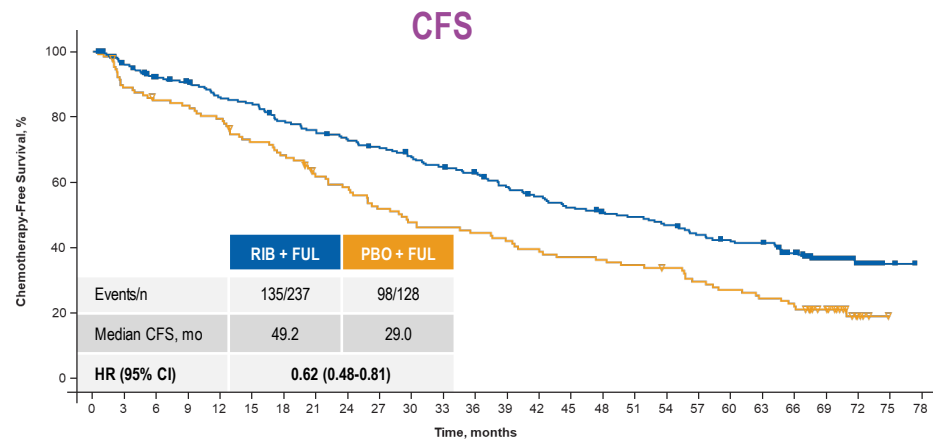
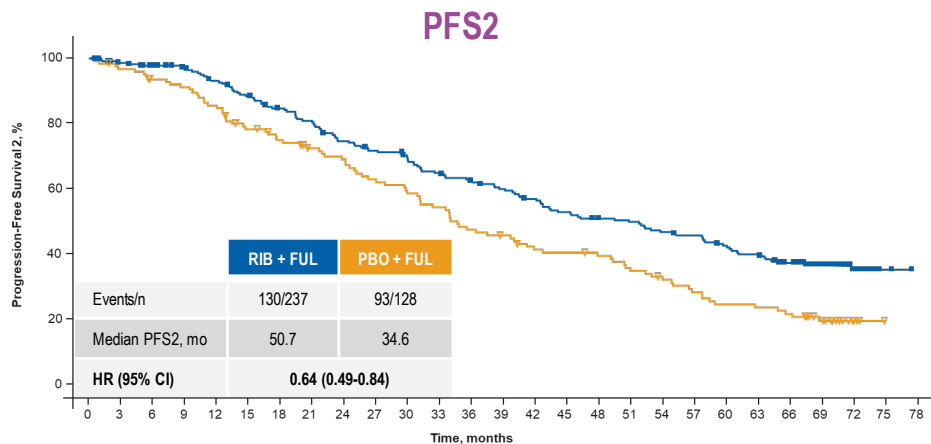
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First-Line Ribociclib Delayed PFS2 and Improved CFS



No. at risk

	0	3	6	9	12	15	18	21	24	27	30	33	36	39	42	45	48	51	54	57	60	63	66	69	72	75	78
RIB + FUL	237	224	217	211	200	189	178	169	156	149	140	132	126	120	113	105	99	97	91	88	80	76	66	46	21	4	0
PBO + FUL	128	123	117	114	107	96	90	84	80	72	68	63	55	52	46	45	43	38	34	30	26	25	23	13	3	0	0

No. at risk

	0	3	6	9	12	15	18	21	24	27	30	33	36	39	42	45	48	51	54	57	60	63	66	69	72	75	78
RIB + FUL	237	219	205	199	187	183	171	163	157	151	144	137	132	122	115	108	103	100	95	88	83	82	72	47	20	4	0
PBO + FUL	128	113	107	105	100	90	85	75	71	63	58	56	54	51	47	45	44	42	40	35	32	29	26	16	5	0	0

◆ Ribociclib also delayed TTC (HR, 0.57 [95% CI, 0.42-0.79])

Outcome	Definition
PFS2	Time from randomization to first documented disease progression after discontinuation from study treatment while receiving next-line therapy (reported by investigator) or death from any cause, whichever occurred first
CFS	Time from randomization to the beginning of the first chemotherapy or death
TTC	Time from randomization to the beginning of the first subsequent chemotherapy

No New Safety Signals Were Observed With First-Line Ribociclib

After a median follow-up of 70.8 months (~6 years), no new safety signals were identified

- ◆ Frequency of adverse events remained generally consistent with prior analyses of MONALEESA-3
- ◆ The rates of adverse events of special interest (all grades) remained stable in the ribociclib and placebo arms, respectively:
 - ◆ Neutropenia, 73.8% and 4.7%
 - ◆ Leukopenia, 32.5% and 1.6%
 - ◆ Hepatobiliary toxicity, 26.6% and 17.2%
 - ◆ Prolonged QT interval, 10.5% and 0.8%
 - ◆ Interstitial lung disease/pneumonitis, 3.4% and 0.8%

Conclusions

- ◆ In this exploratory analysis of MONALEESA-3, with a median follow-up of 70.8 months (~6 years), ribociclib + fulvestrant demonstrated the longest median OS (67.6 months) observed for a 1L population in a Phase III trial setting in ABC to date
 - ◆ Median OS was prolonged by 15.8 months with ribociclib vs placebo in the 1L population
 - ◆ Consistent with prior analyses, ribociclib continued to demonstrate an OS benefit in the 2L population
- ◆ Ribociclib prolonged PFS2, CFS, and TTC compared with placebo, demonstrating the benefits of ribociclib beyond study treatment
- ◆ These impressive results in the 1L setting showed that the OS benefit of ribociclib was maintained through extended follow-up and further support the use of ribociclib in HR+/HER2– ABC

Acknowledgments

We thank the patients who participated in this trial, their families, and their caregivers; members of the data monitoring committee; members of the study steering committee; and staff members who helped with the trial at each site.

Ribociclib was discovered by Novartis Institutes for BioMedical Research in collaboration with Astex Pharmaceuticals.

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