Stable breast br

L'IMPORTANZA DELLA RICERCA IN ONCOLOG

7-8 MARZO 2025 NAPOLI Hotel Royal Continental

Via Partenope, 38

JOURNAL CLUB UPDATES

Luminal fase precoce

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Disclosures and potential conflicts of interest

- Consulting/Advisor: Roche, AstraZeneca, Lilly, GSK, Novartis, Pfizer, Gilead, Seagen, Daiichi Sankyo, MSD
- Honoraria: Roche, AstraZeneca, Lilly, GSK, Novartis, Pfizer, Gilead, Seagen, Daiichi Sankyo
- Research funding to the Institution: Novartis, Gilead, Daiichi Sankyo
- Travel, accommodation, expenses: Roche, AstraZeneca, Lilly, GSK, Novartis, Celgene, Pfizer



Risk of Recurrence and Treatment Strategies for HR+/HER2- Early Breast Cancer Patients



monarchE: Adjuvant Abemaciclib for HR+/ HER2- High-Risk EBC



*Recruitment from July 2017 to August 2019.

[†]Endocrine therapy of physician's choice [e.g., aromatase inhibitors, tamoxifen, GnRH agonist].

44% premenopausal / 95% (neo)adjuvant CT / 60% ≥ 4+ LN / 44% Ki 67 ≥ 20%

monarch-E: Mature data on IDFS and DRFS benefit



54 months median follow-up

Harbeck N et al, ESMO 2023

monarch-E: Fewer deaths in the Abemaciclib Arm in ITT



Biomarker cohort (n=910) enriched for IDFS events



Methods

- Serial Testing: 0, 3, 6, 24 months
- ctDNA detection was performed in blood samples using the personalized, tumor informed Signatera[™] ctDNA assay (Natera, Inc) utilizing whole exome sequencing (WES) of the primary tumor to inform ctDNA assay development.
- Largest prospective evaluation of prognostic capacity of ctDNA

ctDNA detection

ctDNA cohort (N=910)	ctDNA detection, n (%)
Baseline Negative (–), undetected	840 (92)
Persistently –	749/831* (90)
Became +	82/831* (10)
Baseline Positive (+), detected	70 (8)
Persistently +	34/58** (59)
Became – (undetected)	24/58** (41)

Baseline ctDNA Detection is Associated with Worse Outcomes



Patients who were ctDNA+ at baseline were more likely to experience an IDFS event compared to those who were ctDNA- at baseline (80% vs 23%, respectively)

Dynamics of ctDNA Detection on Treatment is Associated with Outcomes



	Longitudinal Analysis (N=889)*			
	Baseline (–), undetected N=831		Baseline (+), detected N=58	
	Persistently –	Became +	Persistently +	Became – (undetected)
Ν	749 (90)	82 (10)	34 (60)	24 (40)
IDFS event, n (%)	107 (14)	76 (93)	34 (100)	10 (42)
4-year IDFS rate, % (95% CI)	87.5 (85.1-89.9)	11.0 (5.9-20.3)	NA	58.3 (41.6-81.8)

Patients who remained Persistently + or Became + on treatment were more likely to experience an IDFS event compared to those who Became – (undetected) or remained Persistently – on treatment

Median Lead Times from ctDNA Detection to IDFS Event

ctDNA subgroup	Ν	IDFS event (%)	Median time to IDFS event, months (range)
Baseline +	70*	56 (80)	12 (0-43)†
Persistently +	34/58**	34 (100)	15 (2-43)†
Became – (undetected)	24/58**	10 (42)	19 (4-32) [†]
Became + (Baseline –)	82	76 (93)	7 (0-48)‡

Overall, patients who were ctDNA+ had a relatively short lead time from ctDNA detection to IDFS event, with shortest lead time observed in patients who Became + on treatment

Implication of early ctDNA detection

- Detection of ctDNA+ provides an opportunity to
 - I. Identify molecular relapse prior clinical recurrence
 - II. Allow introduction of therapy to delay or reverse recurrence
- While ctDNA is *prognostic*, is it also *predictive* of treatment response?
- Which is the optimal assay?
- Does the early detection of ctDNA translated to **cost-effective** modifiable early interventions?
- Otherwise, creating unnecessary **anxiety** (if positive) and **false reassurance** (if negative)



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



Slamon D, et al ASCO 2023

NATALEE: iDFS in ITT population

Significant iDFS benefit with RIB + NSAI after the planned 3-year treatment



NATALEE: iDFS by Stage

RIB + NSAI demonstrated an increasing magnitude of iDFS benefit over time for stage II/III disease



• 60% of patients

NATALEE: by Nodal Status

RIB + NSAI showed an increasing magnitude of iDFS benefit over time for patients with N0 or N1-3 disease



• 28% of patients, T2 = 75%, mostly G2-3

60% of patients (41% N1, 19% N2/3)

Fasching P et al, ESMO 2024

NATALEE: Age group analysis

RIB + NSAI showed iDFS benefit in patients aged <40 and ≥40 years



- iDFS benefit of RIB + NSAI was observed regardless of menopausal status^a
 - <40 y: premenopausal (n=513)—HR, 0.592 (95% CI, 0.345-1.015); postmenopausal (n=30)—not estimable due to small sample size
 - ≥40 y: premenopausal (n=1744)—HR, 0.730 (95% CI, 0.522-1.019); postmenopausal (n=2814)—HR, 0.812 (95% CI, 0.649-1.016)
- The absolute differences in 3-y iDFS rates between the RIB + NSAI and NSAI-only arms, when adjusted for menopausal status and prior neoadjuvant CT, were similar to those without adjustment (Δ4.0% for pts <40 y and Δ2.9% for pts ≥40 y)

NATALEE: Age group analysis

Patients aged <40 and ≥40 years had similar safety profiles QoL was similar between arms in patients aged <40 and ≥40 years

EORTC QLQ-C30 physical functioning and global health status were not altered by addition of RIB regardless of age



NATALEE: Key Secondary Endpoints

RIB + NSAI continued to improve DDFS and showed a positive trend for OS



Abemaciclib vs Ribociclib





Thanks to **Roberto Buonaiuto**, *Manuscript in preparation*



$$NNT = \frac{1}{Absolute \ Risk \ Increase}$$

monarch-E: Discontinuation rate due to AEs = 18.5%
NATALEE: Discontinuation rate due to AEs = 20.0%

Abemaciclib

Schedule			
150 mg twice daily			
Duration			
2 years			
Most frequent AEs	Any G	G ≥3	
Diarrhea	75%	7%	
Fatigue	38%	3%	
Abdominal pain	34%	1%	
Neutropenia	26%	11%	
Leucopenia	26%	11%	
VTEs	1.2%	1.1%	

Schedule 400 mg/day 3 weeks on/1 week off Duration 3 years Most frequent AEs Any G G ≥3 Neutropenia 63% 44% Arthralgia 39% 1% Liver-related AEs 27% 9% QT prolongation 5% 1% ILD 1.6% 0% VTEs 1.1% 0.6%

Ribociclib





ESMO-MCBS

ESMO-Magnitude of Clinical Benefit Scale



Thanks to Alessandra Longobardi, Manuscript in preparation

Patient preferences for CDK4/6 inhibitor treatments in HR+/HER2early breast cancer: a discrete choice survey study

Methods:

- A web-based discrete choice experiment survey was conducted among US-based adult women with self-reported stage II/III HR+/HER2- EBC
- 409 women participated

Results and Conclusions:

- Patients prefer adjuvant treatment with higher efficacy and lower risk of adverse events.
- Utility scores were higher for reconstructed treatment profiles that resembled **ribociclib**.



OlympiA: Trial Schema



Tutt A et al, ASCO 2021, NEJM 2022

OlympiA: Patient characteristics

	Olaparib (N = 921)	Placebo (N = 915)
Hormone receptor status*		
Hormone receptor ≥ 1% / HER2- [†]	168 (18.2%)	157 (17.2%)
Triple Negative Breast Cancer [‡]	751 (81.5%)	758 (82.8%)
Menopausal status (female only)		
Premenopausal	572/919 (62.2%)	553/911 (60.7%)
Postmenopausal	347/919 (37.8%)	358/911 (39.3%)
Prior chemotherapy		
Adjuvant (ACT)	461 (50.1%)	455 (49.7%)
Neoadjuvant (NACT)	460 (49.9%)	460 (50.3%)
Anthracycline and taxane regimen	871 (94.6%)	849 (92.8%)
Neo(adjuvant) platinum-based therapy	247 (26.8%)	239 (26.1%)
Concurrent endocrine therapy (HR–positive only)	146/168 (86.9%)	142/157 (90.4%)

*Defined by local test results

[†]Following a protocol amended in 2015, the first patient with hormone receptor-positive disease was enrolled in December 2015 [‡]Two patients are excluded from the summary of the triple-negative breast cancer subset because they do not have confirmed HER2-negative status

OlympiA: Updated analysis of iDFS by HR status

median follow-up of 6.1 years



Judy E. Garber, et al. SABCS 2024

OlympiA: Updated analysis of OS (ITT)



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Thanks for your attention

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