Real-world Risk of Recurrence by Nodal Status in Patients with HR+, HER2-, Node-Positive, High-risk Early Breast Cancer

INTRODUCTION

Tumor spread to lymph nodes is the most significant prognostic marker for recurrence.

91%

Logrank p<0.0001

438

72

727

71%

60

1706

218

1159

156 95

5Y risk of recurrence in HRG is 29% vs 9% in NHRG

100

80

20

No. at risk:

HRG 546

NHRG 3999

0

HRG

- NHRG

12

3491

468

24

2835

221

287

8 60

DFS

HR=high risk

LR=lower risk

NHRG

n =3999

- In node-positive HR+, HER2- EBC, most patients (72%) present with 1-3 ALN (N1) disease; however, outcomes for N1 disease are variable.
- The monarchE trial selected patients at high risk of recurrence based on positive nodal status [1-3 ALN (N1), 4-9 ALN (N2) or ≥10 ALN (N3)]. Patients in Cohort 1 (91% of the ITT population) with N1 disease required additional high-risk features: tumor ≥5 cm and/or grade 3 disease (N1 high risk)...
- In monarchE, 2 years of adjuvant abemaciclib plus ET showed ~8% improvement in 5-year IDFS in the FDA- and EMA-approved population (Cohort 1).

NHRG

HRG

Adjusted HR (95% CI):3.25 (2.62 - 4.03)

200

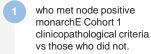
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In the present study, risk of recurrence among nodal subgroups was evaluated with a focus on patients with N1 disease and high risk clinical and pathological risk features..

UNDERSTANDING RISK OF RECURRENCE BY NODAL STATUS

OBJECTIVES

To describe real-world risk of recurrence by nodal status in patients with HR+ HER2- EBC:



with N1 disease and at least one high-risk monarchE feature (tumor size \geq 5cm or grade 3) versus those with (1) N1 disease with lower risk features and (2) N0 disease.

HRG

n = 546

METHODS & STUDY DESIGN

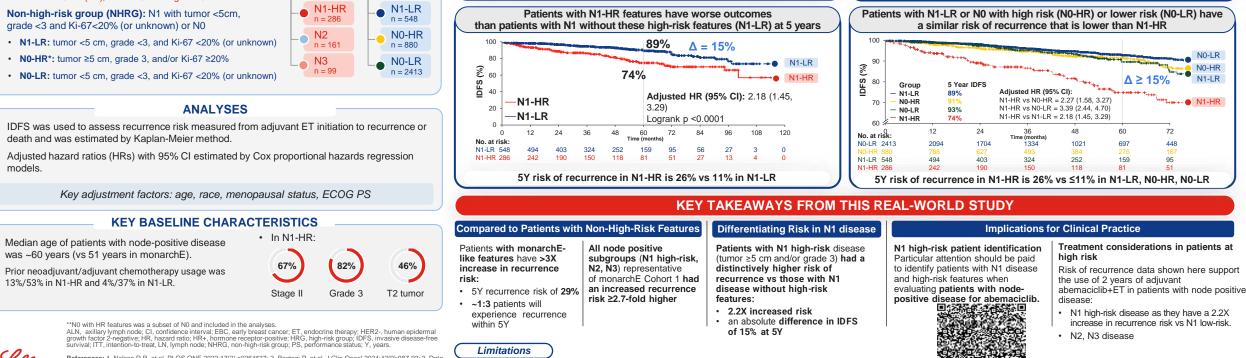
· Patients with HR+, HER2- EBC that received adjuvant ET were selected from the US Flatiron Health Database (Study period Jan 2011-Sep 2020)



- N1-HR: 1-3 LN (N1), tumor ≥5 cm or grade 3
- Non-high-risk group (NHRG): N1 with tumor <5cm, grade <3 and Ki-67<20% (or unknown) or N0
- N1-LR: tumor <5 cm, grade <3, and Ki-67 <20% (or unknown)
- **N0-HR*:** tumor \geq 5 cm, grade 3, and/or Ki-67 \geq 20%

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- N0-LR: tumor <5 cm, grade <3, and Ki-67 <20% (or unknown)
- IDFS was used to assess recurrence risk measured from adjuvant ET initiation to recurrence or death and was estimated by Kaplan-Meier method.
- Adjusted hazard ratios (HRs) with 95% CI estimated by Cox proportional hazards regression models.

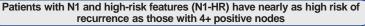


References: 1. Nelson D,R, et al. PLOS ONE.2022;17(2) e0264637; 2. Rastogi P, et al. J Clin Oncol.2024;42(9):987-93; 3. Data presented by Tolaney SM, et al at San Antonio Breast Cancer Conference 2024, Poster P1-11-02; Abstract SESS1880.

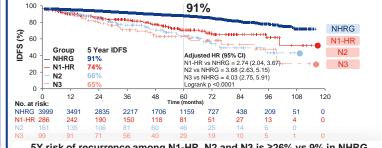
Patients without Ki-67 results may be incorrectly classified as non-high-risk.

Although potentially used more commonly in current practice to assess risk of recurrence, genomic testing was infreguent in this dataset of patients diagnosed 2011-2020.

~1 in 3 patients with monarchE-like features are at risk of recurrence within 5 years when treated with ET alone 100 $\Delta = 20\%$



HR+, HER2- EBC



5Y risk of recurrence among N1-HR, N2 and N3 is ≥26% vs 9% in NHRG

