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Study was sponsored by Eli Lilly and Company

OBJECTIVES

This retrospective study describes clinical characteristics, dose modification patterns, and 3-month treatment persistence in patients with HR+/HER2-, node-positive EBC initiating abemaciclib at 150 mg BID in the first year following FDA approval.

CONCLUSIONS

- The majority of patients (88%) continued abemaciclib beyond 3 months. The low rate of adjuvant abemaciclib discontinuation in US clinical practice suggests that abemaciclib is well tolerated by most patients.
 - Among patients who discontinued, 70% did not attempt dose modifications.
- Half of the patients continued on the approved 150 mg BID dose and half had a dose reduction, with a median time to first dose reduction of 2 months.
- Patients with dose reductions had improved persistency, with 93% continuing abemaciclib beyond 3 months
- Given that the common onset of diarrhea is within the first 1-2 weeks of abemaciclib treatment and that dose reductions do not compromise efficacy, anti-diarrheal medicine and timely dose modifications should be utilized to improve tolerability and treatment persistence with abemaciclib.

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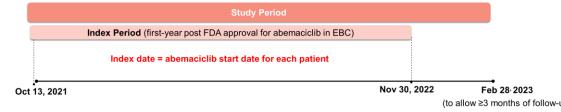
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survival (IDFS) and distant relapse-free survival (DRFS), with sustained benefit permission from SABCS® and the

- In monarchE, 18.5% of patients discontinued abemaciclib due to adverse events occurred early on treatment (median 8 days to onset) and was the most common reason for discontinuation and/or dose reduction.8
- Abemaciclib is dosed at 150 mg twice daily (BID)⁷ with a recommendation for dose reductions to 100 mg or 50 mg to improve tolerability. Efficacy of adjuvant abemaciclib is not compromised by dose reductions.9
- Understanding utilization and dose modification of abemaciclib in the real-world setting can provide insights into the treatment patterns beyond the controlled clinical trial setting and help inform AE management strategies to improve tolerability and support treatment persistence.

METHODS / STUDY DESIGN

- Study Design: Retrospective study of patients initiating abemaciclib in the adjuvant
- Data Source: US Flatiron Health* electronic health records-derived de-identified database comprising structured and unstructured data.



- Patient Selection: Included patients were aged ≥ 18 years, diagnosed with nodepositive, stage I-III EBC, and initiating abemaciclib at 150 mg BID in the index period. Excluded patients with evidence of prior use of any CDK4/6 inhibitor or any other primary malignancy, except non-melanoma skin cancer and other benign in situ neoplasm while on treatment for EBC
- Analysis: Baseline patient demographics and clinical characteristics; dose modifications; and 3-month treatment persistence were analyzed descriptively.
- o Persistence rate is the proportion of patients on abemaciclib at 3 months, allowing for up to a 60-day medication gap.
- indicated in patient's chart.

LIMITATIONS

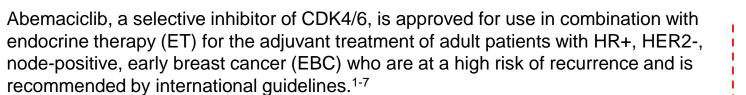
- This is a descriptive study with a moderate sample size of patients who initiated abemaciclib during the first year after FDA approval in EBC, and hence, the results should be interpreted with caution.
- The relatively short median follow-up time (8.8 months) allowed reliable assessment
- AE grades and information on co-medication such as anti-diarrheal medications was not assessed in this study.

https://www.fda.gov/drugs/resources-information-approved-drugs/fda-expands-early-breast-cancer-indication-abemaciclibendocrine-therapy. 2. Verzenio [package insert]. Indianapolis, IN: Eli Lilly and Company; 2023. https://uspl.lilly.com/verzenio/verzenio.html#pi. 3. Johnston SRD, et al. J Clin Oncol. 2020;38:3987-4000. 4. Rastogi P, et al. J Clin Oncol. 2024; 42(9), 987-993. 5. NCCN Clinical Practice Guidelines in Oncology-Breast Cancer. Version 5. 2024. 6. Caswell-Jin JL, et al. JCO Oncol Pract. 2024 Sep 20:OP2400663. 7. Loibl S, et al. Ann Oncol. 2024;35(2):159-82. 8. Rugo et al. Ann Oncol. 2022 Jun;33(6):616-627. 9. Goetz et al. NPJ Breast Cancer 2024; 34(10). 10. Ma X, et al. Medrxiv. doi: https://doi.org/10.1101/2020.03.16.20037143. 11. Birnbaum B, et al. Arxiv. doi: https://doi.org/10.48550/arXiv.2001.09765

Abbreviations: Al, aromatase inhibitors; CDK, Cyclin-dependent kinase; 4/6; EBC, early breast cancer; ECOG, Eastern human epidermal growth factor receptor 2-negative; IQR, interquartile range.

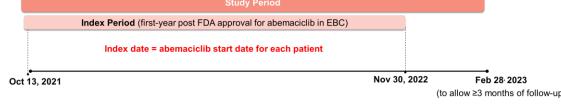
Medical writing support was provided by Keerthana Muthiah of Eli Lilly and Company

BACKGROUND



- In monarchE, adjuvant abemaciclib + ET significantly improved invasive disease-free beyond the 2-year treatment period resulting in a 5-year benefit in IDFS (7.9%) and
- (AEs), and the discontinuation rate due to AE was highest in the first month. Diarrhea

*5-year IDFS and DRFS rates are from the FDA-approved population from monarchE (Cohort 1)



- - Dose modification includes dose hold or a change in dose (increase or decrease) as

The Flatiron Health database is a longitudinal, EHR-derived, de-identified database comprising patient-level structured and unstructured data curated via technology-enabled abstraction. 10,11 Additional data abstraction was conducted to supplement the existing database. The data presented herein originated from approximately 280 cancer clinics (~800 sites of care) from across the US, with 80% of patients from community practices and 20% from academic research hospitals

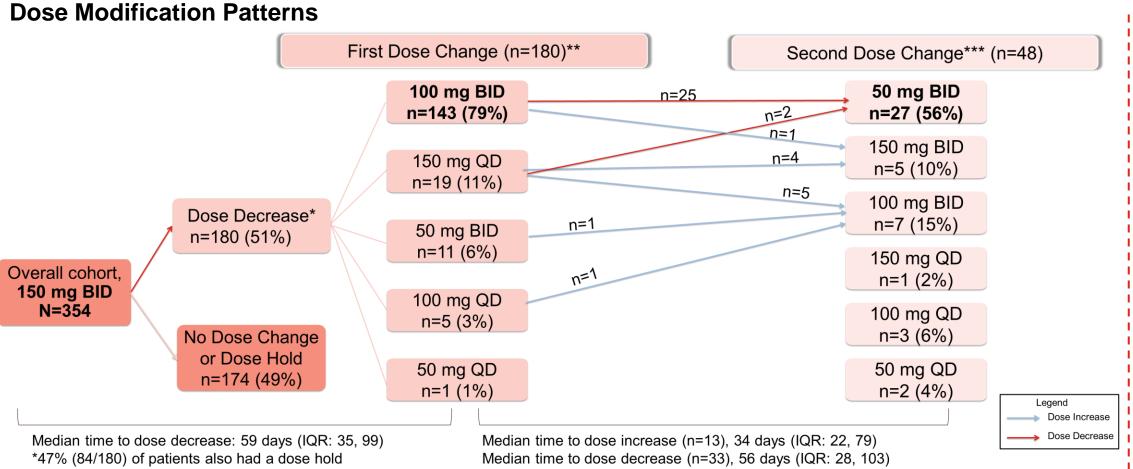
- of persistency only in the first 3 months, suggesting that longer follow-up is needed.

References: 1. FDA expands early breast cancer indication for abemaciclib with endocrine therapy.

Cooperative Oncology Group; EHR, electronic health record; ET: endocrine treatment; HR+, hormone receptor-positive; HER2,

Disclosures: KH participated on a Data Safety Monitoring/Advisory Board of Daiichi Sankyo, AstraZeneca, and Gilead. WGM, ZLC, BG, AML, EB, RV, and KM are employees and minor shareholders of Eli Lilly and Company. MR and JW are employees of Flatiron Health. **HS** has received consulting fees from Novartis, Eli Lilly and Company, Sermonix, Pfizer, and AstraZeneca.

RESULTS



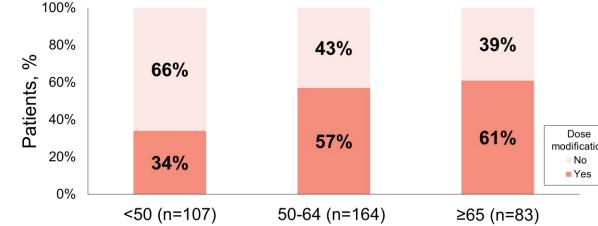
~50% stayed on 150 mg BID

~ 50% dose reduced mostly to 100 mg BID and 50 mg BID

Median time to 1st dose reduction is ~ 2 months

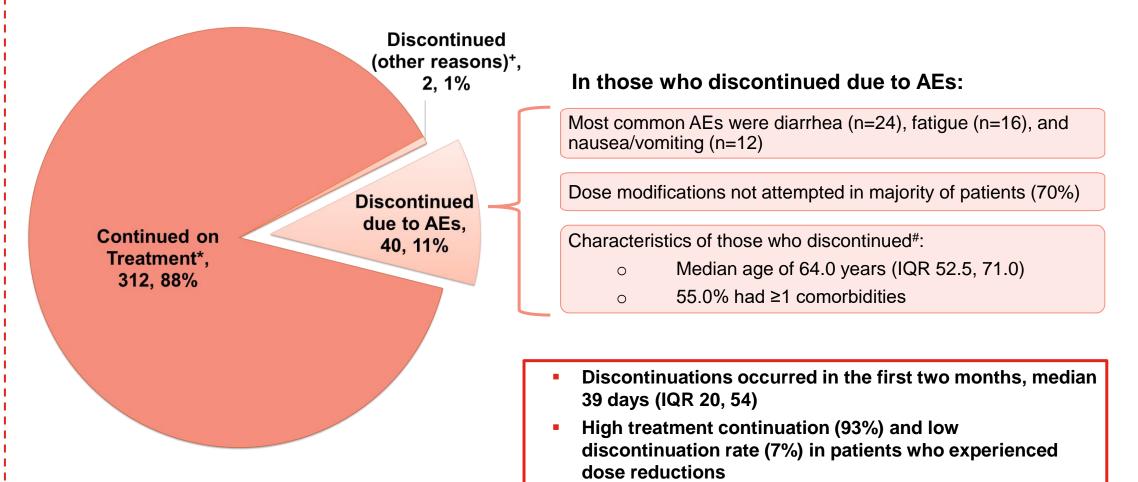
1 patient dose unknown. *Details on dose change from 1st dose change are included only for patients with large numbers in the 2nd dose change (see Supplemental table 1 for complete data); Dose change was unknown for 3 patients

Dose Modifications by Age



A higher proportion of patients ≥50 years old changed dose vs <50 years.

Majority of patients continued on treatment beyond 3 months



+1 financial and 1 non-cancer related medical issue. *Includes 20 patients who had dose hold >60 days and resumed treatment within the follow-up period; and 3 patients on dose hold whose follow-up time did not allow for assessment of resumption of treatment. #Additional characteristics are included in supplemental table 2.

Baseline Demographics and Clinical Characteristics

Follow up time (months), median (IQR)

Age (years) at index date, median (IQR)

Female, n (%)

Patients, N = 354

8.8 (5.9, 12.1)

56.0 (48.0, 64.0)

353 (99.7%)

1 emale, 11 (/0)	333 (99.1 /0)
Race ^a , n (%)	
White	204 (57.6)
Black or African American	45 (12.7)
Asian	14 (4.0)
Other Race	44 (12.4)
ECOG Performance Status ^{a,b} at Index Dat	e, n (%)
0	205 (57.9)
1	89 (25.1)
2	9 (2.5)
No. of Comorbidities, n (%)	
0	234 (66.1)
1	77 (21.8)
2+	43 (12.1)
Practice Type, n (%)	
Academic	53 (15.0)
Community	286 (80.8)
Academic & Community	15 (4.2)
Menopausal Status ^a at Index Date, n (%)	
Pre and perimenopausal	137 (38.7)
Postmenopausal	196 (55.4)
Stage at Diagnosis ^{a,c} , n (%)	
Stage I	59 (16.7)
Stage II	148 (41.8)
Stage III	136 (38.4)
Pathologic Node Status at Diagnosis ^{a,c,d} , ı	n (%)
N1	160 (45.2)
N2	125 (35.3)
N3	50 (14.1)
Tumor grade at Diagnosis ^a , n (%)	
Grade 1	31 (8.8)
Grade 2	185 (52.3)
Grade 3	136 (38.4)
Treatments received prior to initiating	
abemaciclib	
Neoadjuvant therapy, n (%)	164 (46.3)
Chemotherapy n (%)	294 (83.1)
Adjuvant ET, n (%)	262 (74.0)
Time on prior adjuvant ET (months), median (IQR)	1.6 (0.0, 5.0
Endocrine Therapy Choice ^e , n (%)	
Abemaciclib + AI (anastrozole,	322 (91.0)
exemestane or letrozole)	, ,
Abemaciclib+ tamoxifen	32 (9.0)

- patients was more racially diverse and older than in monarchE.3
- The majority of patients have Stage II or Stage III
- >90% of patients were treated with abemaciclib+Al.

aRace, ECOG PS and menopausal status at index date and stage, node status, and tumor grade at diagnosis data was unknown/not documented for 47, 51, 21, 11, 4, and 2 patients, respectively; bECOG performance status closest to the index date (30 days prior to 7 days after the index date); cStage and node status at diagnosis were derived from clinician notes for patients who received neoadjuvant therapy and pathologic reports for patients who did not receive neoadjuvant therapy; dNodal status was determined from clinician notes in 19 patients; eRegimens may also include ovarian suppression.