

Retrospective Assessment of Treatment Patterns and Outcomes Associated With Palbociclib Plus Letrozole for Postmenopausal Women With HR+/HER2- Advanced/Metastatic Breast Cancer Enrolled in an Expanded Access Program in the United States

Adam Brufsky¹, Keith L. Davis², Saurabh P. Nagar², Lynn McRoy³, Matthew Cotter³, Debanjali Mitra³, Vered Stearns⁴

¹University of Pittsburgh Medical Center, Pittsburgh, PA, United States; ²RTI Health Solutions, Research Triangle Park, NC, United States; ³Pfizer, Inc., NY, United States; ⁴Johns Hopkins Sidney Kimmel Comprehensive Cancer Center, Baltimore, MD, United States; ⁴Johns Hopkins Sidney Kimmel Comprehensive Cancer Center, Baltimore, MD, United States; ⁴Johns Hopkins Sidney Kimmel Comprehensive Cancer Center, Baltimore, MD, United States; ⁴Johns Hopkins Sidney Kimmel Comprehensive Cancer Center, Baltimore, MD, United States; ⁴Johns Hopkins Sidney Kimmel Comprehensive Cancer Center, Baltimore, MD, United States; ⁴Johns Hopkins Sidney Kimmel Comprehensive Cancer Center, Baltimore, MD, United States; ⁴Johns Hopkins Sidney Kimmel Comprehensive Cancer Center, Baltimore, MD, United States; ⁴Johns Hopkins Sidney Kimmel Comprehensive Cancer Center, Baltimore, MD, United States; ⁴Johns Hopkins Sidney Kimmel Comprehensive Cancer Center, Baltimore, MD, United States; ⁴Johns Hopkins Sidney Kimmel Comprehensive Cancer Center, Baltimore, MD, United States; ⁴Johns Hopkins Sidney Kimmel Comprehensive Cancer Center, Baltimore, MD, United States; ⁴Johns Hopkins Sidney Kimmel Comprehensive Cancer Center, Baltimore, MD, United States; ⁴Johns Hopkins Sidney Kimmel Comprehensive Cancer Center, Baltimore, MD, United States; ⁴Johns Hopkins Sidney Kimmel Comprehensive Cancer Center, Baltimore, MD, United States; ⁴Johns Hopkins Sidney Kimmel Comprehensive Cancer Center, Baltimore, MD, United States; ⁴Johns Hopkins Sidney Kimmel Comprehensive Cancer Center, Baltimore, MD, United States; ⁴Johns Hopkins Sidney Kimmel Comprehensive Cancer Center, Baltimore, MD, Vande States; ⁴Johns Hopkins Sidney Kimmel Comprehensive Cancer Center, Baltimore, MD, Vande States; ⁴Johns Hopkins Sidney Kimmel Center, Baltimore, B

BACKGROUND

- Postmenopausal women with hormone receptor-positive (HR+), human epidermal growth factor receptor-negative (HER2-) advanced or metastatic breast cancer (ABC/MBC) have traditionally been treated with endocrine-based systemic therapy in the absence of visceral crisis.
- Palbociclib was the first CDK 4/6 inhibitor approved by the United States (US) Food and Drug Administration in 2015 for use in combination with letrozole (P + L) as initial endocrine-based therapy.
- Prior to approval, an expanded access program (EAP) was made available in the US for the use of P + L across all lines of therapy. The EAP enrolled a substantial cohort of heavily pretreated patients.
- This is a retrospective, long term follow-up of patients from the EAP, focusing on late-line, heavily pre-treated patients who continued their P + L treatment in the real-world setting.¹

OBJECTIVE

• The objective of this retrospective follow-up study was to evaluate long-term treatment patterns and clinical outcomes for a subset of sites and patients who began P + L treatment on the EAP and continued treatment in the real world after the close of the EAP.

METHODS

Data Source

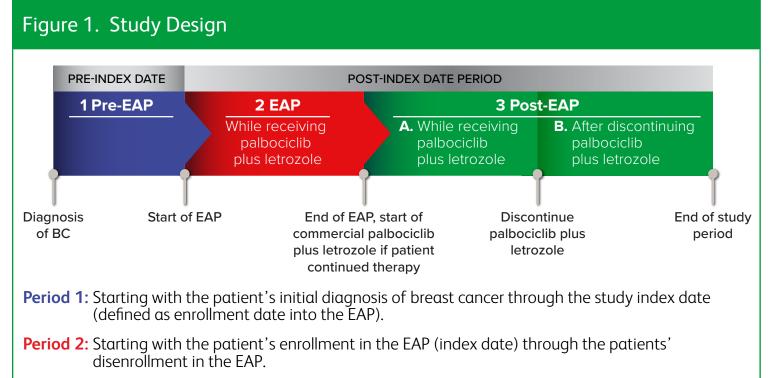
- Data were obtained from medical records of patients originally enrolled in the palbociclib EAP study, which covered 238 patients and spanned 18 sites across the US.
- Of the original 18 sites, 6 sites contributed data for 126 patients for this follow-up study.
- All data were entered into an electronic case report form by clinical research staff at the participating sites.

Patient Selection

• All patients enrolled in the original EAP study were eligible for inclusion in the current study.

Study Measures

- Patient characteristics included demographics, history of comorbidities, stage at initial breast cancer diagnosis, performance status, and sites of metastasis.
- All cancer-directed treatments, total number of lines of therapy, and duration of each treatment line for the pre- and post-EAP periods were documented.



Period 3: Starting with the patient's disenrollment from the EAP through the end of follow-up or death, whichever occurs first. The post-EAP period may be composed of time periods on multiple therapies including those after discontinuation of palbociclib plus letrozole.

A: A period while the patient continued on commercially available palbociclib plus letrozole. **B**: A period after discontinuation of palbociclib plus letrozole.

- treatments (endocrine therapy or chemotherapy) received in the ABC/MBC setting:

- ≥ 24 weeks
- P + L initiation to the earlier of death or end of follow-up.

Data Analysis

- Descriptive statistics were used to document baseline patient characteristics and study outcomes.
- composition) were analyzed by time periods.
- described using the Kaplan-Meier method.

RESULTS

Patient Demographics and Baseline Clinical Characteristics

- years (standard deviation [SD]: 12.2 years) (Table 1).
- than 70% were ER+ or PqR+ (Table 1).
- 72% of patients had visceral metastasis at EAP enrollment.
- 38.1% of patients were alive at last available medical record (Table 1).
- The most common comorbidities present at EAP enrollment were hypertension (27.8%) and diabetes (5.6%), while 54.8% had none of the comorbidities examined.

Treatment History Prior to EAP Enrollment

- endocrine therapy (with or without chemotherapy), with only 2.4% receiving chemotherapy only (Figure 2).
- Most patients had three or more lines of systemic treatment (58.7%) in the ABC/MBC at least four prior lines of therapy.

Clinical Outcomes

- those who did (25.9%) (Figures 3 and 4).
- 12- and 24-month OS rates among patients with prior endocrine therapy were 65% and chemotherapy (Table 2).

• The following clinical outcomes were assessed for the overall cohort and stratified by prior - Best physician-assessed response to P + L therapy: Response was based on tumor assessments carried out per local practice and were not based on RECIST criteria. Response categories included:

• Estimated Objective Response (OR): Complete response + Partial response

• Estimated Clinical Benefit Rate (CBR): Complete response + Partial response + Stable Disease for

 Progression-free survival (PFS) for P + L therapy, calculated as time (months) from P + L initiation to first clinician-documented progression event, start of a new line of therapy (if patients discontinued P + L due to "progression" as the reason for discontinuation), or death due to any cause, whichever occurred first. If a patient died or started a new therapy line on a date more than 24 weeks after final palbociclib dose, the patient was censored at that date (last palbociclib dose + 24 weeks) and was not counted as having a progression event. - Time to death (overall survival [OS]) for P + L therapy, calculated as time (months) from

Overall use of cancer-directed treatments and treatment characteristics (e.g., treatment

• Median PFS and OS and landmark analyses of progression-free rates and survival rates are

• All analyses were performed using SAS statistical software, version 9.4 (SAS Institute Inc.; 2011).

• The sample was predominantly white (83%), with a mean age at EAP enrollment of 62.5

• More than a quarter (25.4%) of patients had metastatic disease at initial diagnosis; more

• More than 90% of patients had an ECOG status of 0 or 1 at EAP enrollment, indicating a favorable functional capacity for the study sample as a whole prior to first palbociclib dose.

• Almost 90% of patients included received some form of cancer-directed treatment prior to EAP enrollment; the most common (86.5%) treatment modality pre-EAP enrollment was

setting before EAP enrollment. Of the total sample, 88.9% received at least one systemic line of therapy prior to EAP enrollment, 94 (74.6%) received at least two prior lines of therapy, 74 (58.7%) received at least three prior lines of therapy, and 47 (37.3%) received

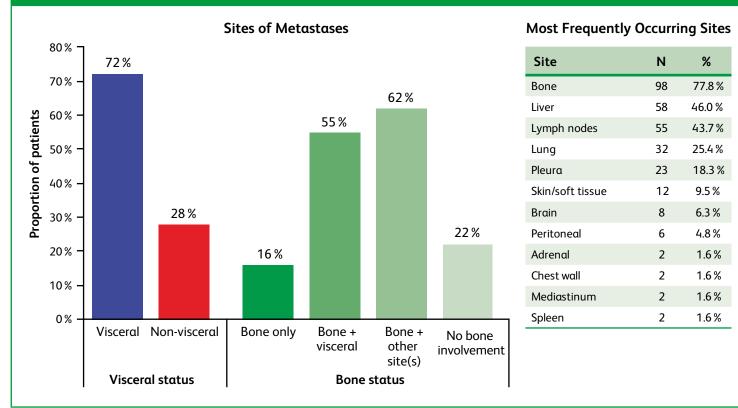
• CBR was higher for patients with no prior endocrine therapy in the ABC/MBC setting prior to EAP enrollment (52.9%) compared with those who did (30.3%). Likewise, patients who did not receive chemotherapy prior to EAP enrollment had a higher CBR (48.8%) than

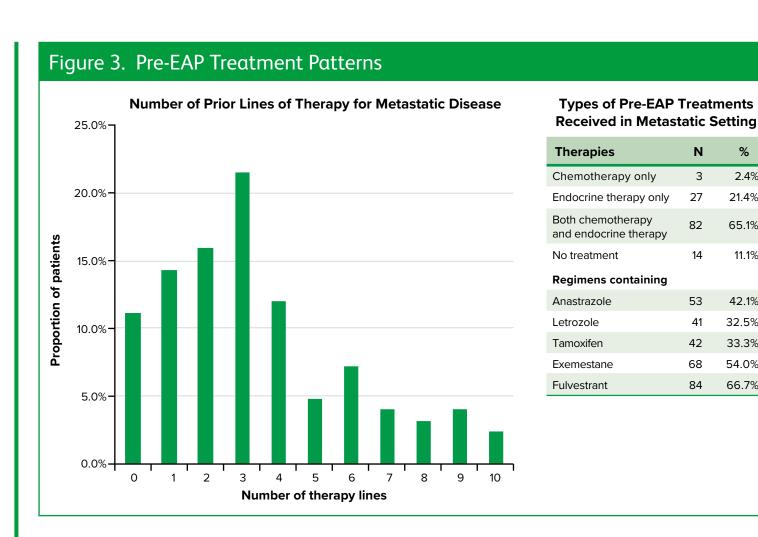
• Median (95% CI) PFS was 4.4 (3.5-5.5) months for patients with prior endocrine therapy in the ABC/MBC setting and 3.9 (2.5-5.1) months for patients with prior chemotherapy (Table 2).

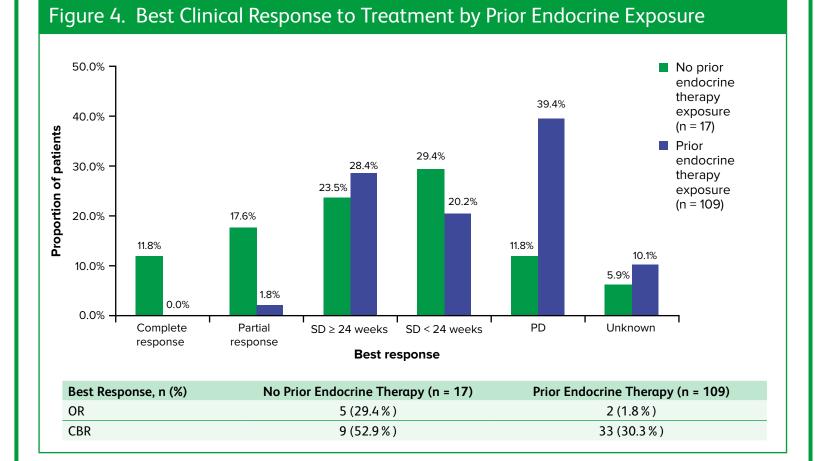
40%, respectively, while they were 63% and 32%, respectively, among patients with prior

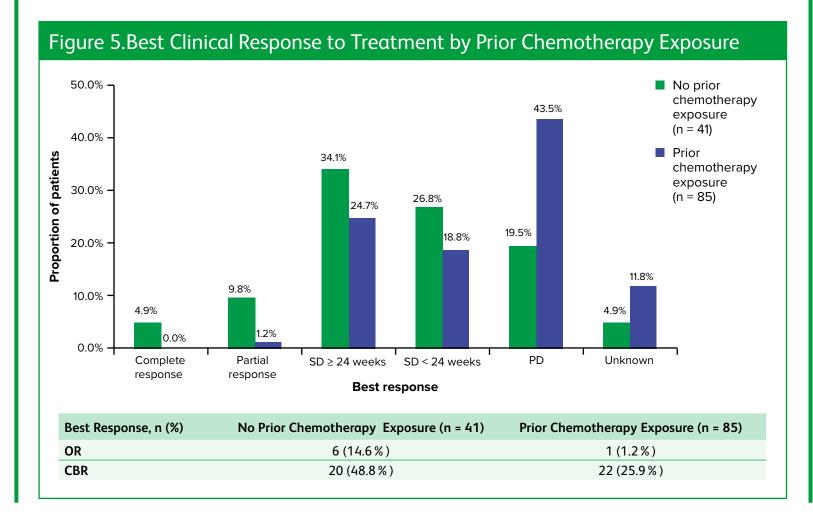
Table 1. Baseline Patient and Clinical Characteristics					
Total patients, n (%)	126	100.0%			
Age at EAP enrollment, years					
Mean (SD)	62.5	12.2			
Median	6.	2.5			
Min, Max	37	89			
Ethnic origin, n (%)					
White	105	83.3 %			
Black	11	8.7 %			
Other	5	4.0 %			
Unknown	5	4.0 %			
Disease stage at initial breast cance	er diagnosis, n (%)				
Local	46	36.5 %			
Regional	40	31.7 %			
Metastatic	32	25.4%			
Unknown	8	6.3 %			
Tumor grade at initial breast cancer	r diagnosis, n (%)				
Grade 1	8	6.3 %			
Grade 2	51	40.5 %			
Grade 3	34	27.0 %			
Unknown	33	26.2 %			
Time from initial breast cancer diag months (among those diagnosed wi		ession to metastatic disease,			
Mean (SD)	103.3	86.0			
Median	8	1.8			
Min, Max	1.0	407.2			
Duration (months) of follow-up fron diagnosis) (N = 94)	n initial breast cancer diagnosis (a	mong those with early stage			
Mean (SD)	160.5	101.6			
Median	14	14.5			
Min, Max	23.5	465.7			
Vital status at study completion (n,	%)				
Alive	48	38.1 %			
Deceased	59	46.8 %			
Unknown	19	15.1 %			

Figure 2. Sites of Metastases at EAP Enrollment









	No Prior Endocrine	Prior Endocrine	No Prior Chemotherapy	Prior Chemotherapy
PFS, months	Therapy Exposure (N = 17)	Therapy Exposure (N = 109)	Exposure (N = 41)	Exposure (N = 85)
n (%) of patients with event	11 (64.7 %)	87 (79.8 %)	29 (70.7 %)	69 (81.2 %)
Median PFS (95 % CI)	8.6 (3.5-NE)	4.4 (3.5-5.5)	7.0 (4.2-14.7)	3.9 (2.5-5.1)
PFS rates via Kaplan-Meier estimation				
12-month PFS rate	47.1 %	23.7 %	40.4 %	19.8 %
24-month PFS rate	32.3 %	7.0 %	24.1 %	-
OS, months				
n (%) of patients with death event	6 (35.3%)	53 (48.6 %)	14 (34.1 %)	45 (52.9%)
Median time to death among those who died	6.3	7.0	6.9	7.7
Median OS (95 % CI)	NE (7.0-NE)	19.8 (13.9-NE)	NE (19.8-NE)	14.9 (12.1-23.5)
12-month OS rate	70.6 %	65.4%	72.5 %	62.8 %
24-month OS rate	61.8%	39.8 %	63.1 %	31.8%

DISCUSSION

N %

3 2.4%

27 21.4%

65.1%

11.1%

53 42.1%

41 32.5%

42 33.3%

68 54.0%

84 66.7%

- Patients in this study were heavily pretreated in the ABC/MBC setting before starting in this heavily pretreated population.
- Twelve- and 24-month PFS rates for patients with prior endocrine exposure in the ABC/MBC setting were 23.7% and 7.0%, respectively; 12- and 24-month response rates for no prior endocrine exposure were 47.1% and 32.3%, respectively. Median OS was combination therapy in HR+/HER2– MBC even in later lines of therapy.

CONCLUSIONS

- Consistent with clinical experience, patients with fewer prior treatments for MBC clinical benefit may be derived with P + L.
- palbociclib combination therapy in HR+/HER2– ABC/MBC.

REFERENCES

8-12, 2015; San Antonio, TX.

DISCLOSURES

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CONTACT INFORMATION

Adam M. Brufsky, MD, PhD Professor of Medicine

Comprehensive Breast Cancer Center University of Pittsburgh Medical Center 300 Halket Street Pittsburgh, PA 15213 Phone: +1.412.641.6500

Fax: +1.412.641.1085 E-mail: brufskyam@upmc.edu

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P + L treatment. The OR rates and CBRs reported here demonstrate clinical benefit even

19.8 months in patients with prior endocrine therapy and 14.9 months in patient with prior chemotherapy. These findings highlight the potential benefit of treatment with palbociclib

generally obtained better outcomes. Nevertheless, even in heavily pretreated patients,

• These findings further highlight the importance and potential benefit of treatment with

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