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Alpelisib + Letrozole in Patients With *PIK3CA*-Mutated, Hormone Receptor-Positive (HR+), Human Epidermal Growth Factor Receptor 2-Negative (HER2-) Advanced Breast Cancer (ABC) Previously Treated With a Cyclin Dependent Kinase 4/6 Inhibitor (CDK4/6i) + Fulvestrant: BYLieve Study Results

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Background (1 of 2)

- The current standard first-line treatment for patients with HR+, HER2- ABC in the advanced setting is endocrine therapy (ET) + CDK4/6i; however, resistance to ET eventually develops and patients experience disease progression
- Mutations in phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit alpha (*PIK3CA*), which encodes the α -isoform of phosphatidylinositol 3-kinase (PI3K), occur in ~40% of patients with HR+, HER2- ABC and can contribute to endocrine resistance
- Alpelisib is an α -selective PI3K inhibitor and degrader^{1,2} with efficacy in patients with HR+, HER2-, *PIK3CA*-mutated ABC combined with fulvestrant in the Phase III SOLAR-1 trial^{3,4}
 - SOLAR-1 was initiated before CDK4/6is were the standard of care, and only a small number of patients (n=20, 5.9%) had prior CDK4/6i in the *PIK3CA*-mutant cohort

ABC, advanced breast cancer; CDK4/6i, cyclin-dependent kinase 4 or 6 inhibitor; HER2-, human epidermal growth factor receptor 2-negative; HR+, hormone receptor-positive.

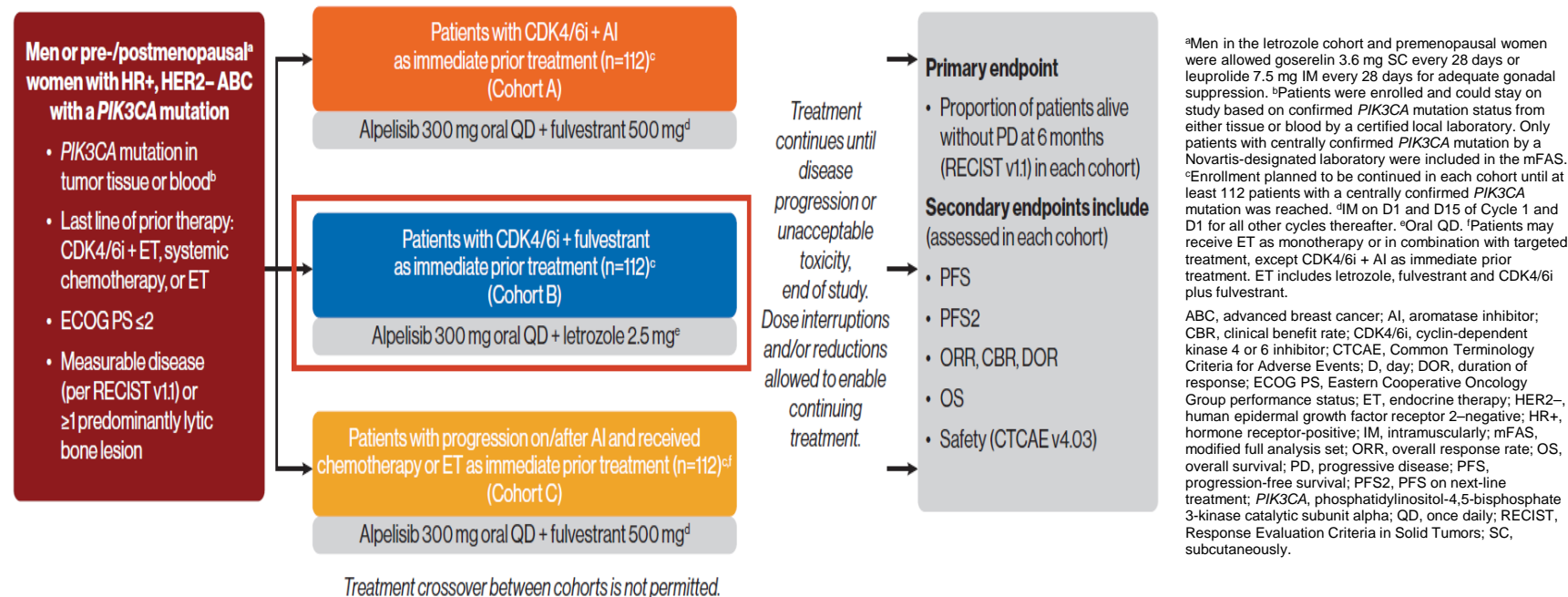
Background (2 of 2)

- BYLieve (NCT03056755) is an ongoing Phase II, multicenter, open-label, 3-cohort noncomparative study evaluating alpelisib in combination with ET in patients with *PIK3CA*-mutated, HR+, HER2- ABC who progressed on or after prior treatments; specifically Cohorts A and B required that patients progressed on CDK4/6i as their last treatment (**Figure 1**)
 - In patients who received a CDK4/6i + an aromatase inhibitor (AI) immediately before enrollment (Cohort A), with a median follow-up of 11.7 months, the primary endpoint was met⁵
 - 50.4% of patients were alive without disease progression at 6 months per local investigator assessment (n=61; 95% confidence interval [CI], 41.2%-59.6%)
 - Median progression-free survival (mPFS) was 7.3 months (n=72; 95% CI, 5.6-8.3 months)
- Here, we report on the cohort of patients who received a CDK4/6i + fulvestrant as immediate therapy prior to enrollment (Cohort B)

ABC, advanced breast cancer; CDK4/6i, cyclin-dependent kinase 4 or 6 inhibitor; ET, endocrine therapy; HER2-, human epidermal growth factor receptor 2-negative; HR+, hormone receptor-positive; *PIK3CA*, phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit alpha.

Methods (1 of 3)

Figure 1. Study Design of BYLieve (NCT03056755), a Phase II, Multicenter, Open-Label, 3-Cohort Noncomparative Study



Methods (2 of 3)

Objective

- Primary endpoint: Percentage of patients with centrally confirmed *PIK3CA* tumor mutation, alive without disease progression at 6 months by local investigator assessment per RECIST v1.1, measured separately in each cohort
 - The primary endpoint was met and clinically meaningful if the lower bound of the 95% CI was >30%

CI, confidence interval; *PIK3CA*, phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit alpha; RECIST, Response Evaluation Criteria in Solid Tumors.

Methods (3 of 3)

Analysis Sets

- The Full Analysis Set (FAS) comprises all patients to whom study treatment has been assigned and who received 1 dose of study treatment
- The modified Full Analysis Set (mFAS) comprises all patients of the FAS population who received at least 1 dose of study treatment AND had centrally confirmed *PIK3CA* mutation in tumor tissue using a polymerase chain reaction-based assay detecting mutations in the C2, helical, and kinase domains of *PIK3CA* (exons 7, 9, and 20, respectively)
 - The mFAS was the primary analysis set for analysis of efficacy endpoints
- The Safety Set includes all patients who received at least 1 dose of study treatment

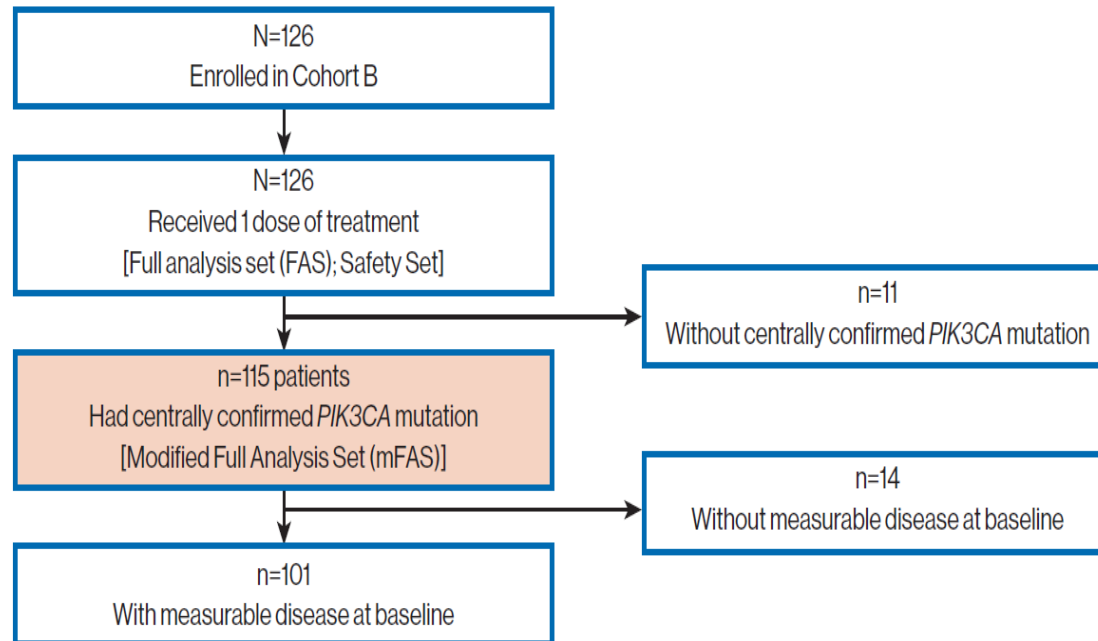
PIK3CA, phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit alpha.

Results (1 of 13)

Patient Disposition and Analysis Sets

Figure 2. Patient Enrollment and Disposition at Data Cutoff

- Cohort B enrolled patients from September 5, 2017, to February 14, 2020
- As of 6 months after the last patient enrolled in Cohort B (data cutoff: August 14, 2020), 126 patients were enrolled and had follow-up; median follow-up was 15.0 months. Follow-up is ongoing (**Figure 2, Table 1**)



PIK3CA, phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit alpha.

Results (2 of 13)

Table 1. Patient Disposition

| No. (%); Full Analysis Set | Prior CDK4/6i + Fulvestrant, Cohort B (N=126) |
|-----------------------------------|--|
| Treated | 126 (100) |
| Treatment ongoing at data cutoff | 9 (7.1) |
| Discontinued from treatment | 117 (92.9) |
| Reason for discontinuation | |
| Progressive disease | 81 (64.3) |
| Adverse event | 14 (11.1) |
| Physician decision | 12 (9.5) |
| Death | 2 (1.6) |
| Patient/guardian decision | 6 (4.8) |
| Protocol deviation | 1 (0.8) |
| Technical problems | 0 |
| Lost to follow-up | 1 (0.8) |

AE, adverse event; CDK4/6i, cyclin-dependent kinase 4 or 6 inhibitor.

Results (3 of 13)

Demographics and Baseline Characteristics

Table 2. Patient Demographics and Baseline Characteristics (1 of 2)

| Characteristic, No. (%); Full Analysis Set | Prior CDK4/6i + Fulvestrant, Cohort B (N=126) |
|---|---|
| Female | 126 (100) |
| Median age (range), y | 61.0 (37-80) |
| Race | |
| Asian | 8 (6.3) |
| Black | 1 (0.8) |
| Caucasian | 85 (67.5) |
| Other/Unknown/Missing | 32 (25.4) |
| ECOG PS ^a | |
| 0 | 59 (46.8) |
| 1 | 61 (48.4) |
| 2 | 2 (1.6) |
| Lines of prior therapy for metastatic disease | |
| 0 | 2 (1.6) ^b |
| 1 | 66 (52.4) |

^aECOG PS was missing for 4 patients ^bOne patient received CDK4/6i in the adjuvant setting and one patient in the palliative setting. CDK4/6i, cyclin-dependent kinase 4 or 6 inhibitor; ECOG PS, Eastern Cooperative Oncology Group performance status; y, years.

Results (4 of 13)

Table 2. Patient Demographics and Baseline Characteristics (2 of 2)

| Characteristic, No. (%); Full Analysis Set | Prior CDK4/6i + Fulvestrant, Cohort B (N=126) |
|--|---|
| Lines of prior therapy for metastatic disease | |
| 2 | 56 (44.4) |
| 3 | 2 (1.6) |
| Lines of prior ET in the metastatic setting | |
| 0 | 2 (1.6) ^b |
| 1 | 73 (57.9) |
| 2 | 49 (38.9) |
| 3 | 2 (1.6) |
| Endocrine status at study entry ^c | |
| Primary endocrine resistance | 12 (9.5) |
| Secondary endocrine resistance | 73 (57.9) |
| Endocrine sensitivity | 5 (4.0) |
| Progression on prior AI therapy^d | 103 (81.7) |

^bOne patient received CDK4/6i in the adjuvant setting and one patient in the palliative setting. ^cEndocrine status was defined per ESMO definitions (Cardoso F, et al. Ann Oncol. 2018). Primary endocrine resistance: relapse <24 mo on ET (adjuvant) or progression <6 mo on first-line ET (metastatic); Secondary endocrine resistance: relapse ≥24 mo on ET or relapse <12 mo after end of ET (adjuvant), or progression ≥6 mo on ET (metastatic); Endocrine sensitivity: relapse ≥12 mo after the end of ET (adjuvant) or progression ≥12 mo after end of ET (metastatic). If sufficient data were not available to determine endocrine status, per these criteria, patients were not coded. ^dData include patients who progressed on prior AI therapy in both the adjuvant and metastatic settings. AI, aromatase inhibitor; CDK4/6i, cyclin-dependent kinase 4 or 6 inhibitor; ESMO, European Society for Medical Oncology; ET, endocrine therapy; mo, months.

Results (5 of 13)

Efficacy in Modified Full Analysis Set (mFAS; Includes Patients With Centrally Confirmed *PIK3CA* Mutations)

- The primary endpoint was met (lower bound of 95% CI >30%)
 - 46.1% (n=53; 95% CI, 36.8%-55.6%) of patients were alive without disease progression at 6 months (**Table 3**)

Table 3. Efficacy of Alpelisib + Letrozole per Local Investigator Assessment

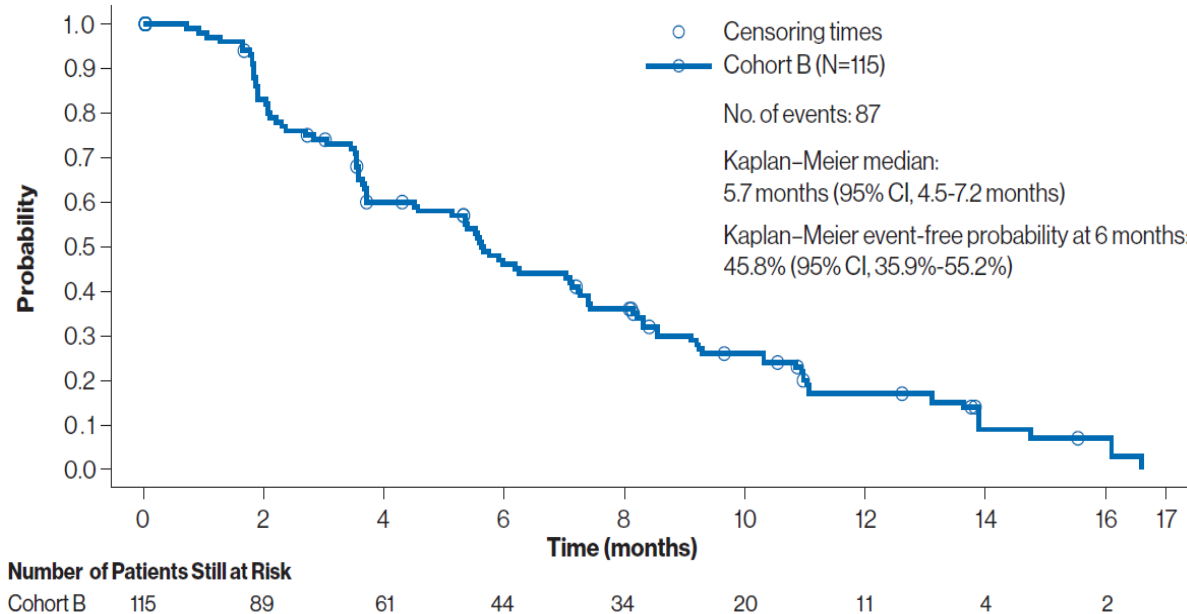
| Primary Endpoint | Prior CDK4/6i + Fulvestrant, Cohort B (n=115) |
|---|--|
| Proportion of patients who were alive without disease progression at 6 months as assessed by local investigator | 46.1% (n=53; 95% CI, 36.8%-55.6%) |

CDK4/6i, cyclin-dependent kinase 4 or 6 inhibitor; CI, confidence interval; mPFS, median progression-free survival; *PIK3CA*, phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit alpha.

Results (6 of 13)

Figure 3. Kaplan–Meier Plot of Time to PFS per Local Investigator Assessment

- mPFS was 5.7 months (95% CI, 4.5-7.2 months; **Figure 3**)



CI, confidence interval; mPFS, median progression free survival; No, number; PFS, progression-free survival.

Results (7 of 13)

Table 4. Best Overall Response, According to Local Assessment, in the Prior CDK4/6i + Fulvestrant Cohort (Cohort B)

- Overall response rate is shown in **Table 4**

| Response Rates, n (%) | All Patients (n=115) | Patients With Measurable Disease (n=101) |
|---|------------------------------|---|
| Best overall response | | |
| Complete response (CR) | 0 | 0 |
| Partial response (PR) | 18 (15.7) | 18 (17.8) |
| Neither CR nor PD ^a (NCR/NPD) | 8 (7.0) | 0 |
| Stable disease (SD) ^b | 49 (42.6) | 49 (48.5) |
| Progressive disease (PD) | 20 (17.4) | 19 (18.8) |
| Unknown (UNK) | 20 (17.4) | 15 (14.9) |
| Overall response rate (ORR: CR + PR) | 18 (15.7); 95% CI, 9.5-23.6 | 18 (17.8); 95% CI, 10.9-26.7 |
| Clinical benefit rate (CBR: CR + PR + SD + Non-CR/Non-PD ≥24 weeks) | 37 (32.2); 95% CI, 23.8-41.5 | 32 (31.7); 95% CI, 22.8-41.7 |

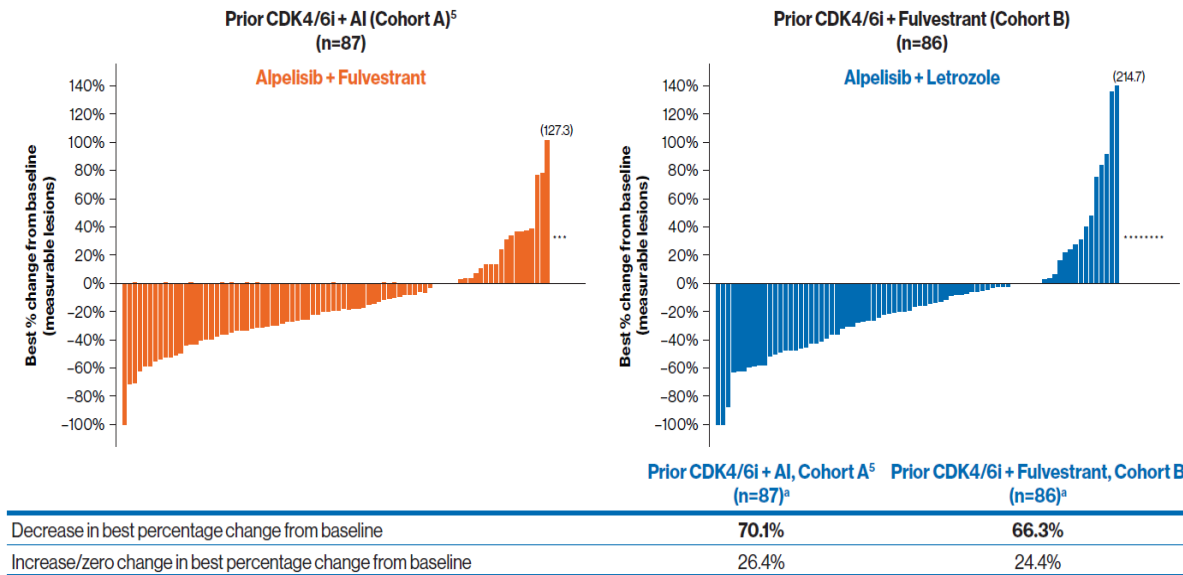
^aRefers to presence of lesions not fulfilling criteria for target lesions at baseline or abnormal nodal lesions (ie, ≥10 mm), unless there is unequivocal progression of the non-target lesions (PD) or it is not possible to determine progression unequivocally (UNK). ^bRefers to neither sufficient shrinkage to qualify for PR or CR nor an increase in lesions that would qualify for PD.

CDK4/6i, cyclin-dependent kinase 4 or 6 inhibitor.

Results (8 of 13)

Figure 4. Best Percentage Change From Baseline in Sum of Diameters per Investigator Assessment for Patients With Measurable Disease at Baseline in Cohorts A and B

- Cohort B (prior CDK4/6i + fulvestrant) showed a comparable reduction in tumor size to that observed in Cohort A (prior CDK4/6i + AI; **Figure 4**)



^aPatients with missing best percentage change or those with best percentage change in target lesion but overall response of Unknown are excluded. ^bPercentage change in target lesion contradicted by overall lesion response = PD.

AI, aromatase inhibitor; CDK4/6i, cyclin-dependent kinase 4 or 6 inhibitor.

Results (9 of 13)

Exposure to Study Treatment and Dose Adjustments

- The median duration of exposure to alpelisib and letrozole was 4.0 months and 4.2 months, respectively (N=126)
- The median relative dose intensity (RDI) for alpelisib was 87.6%
 - RDI >90% was reported for 48.4% of patients
 - RDI between 75% and 90% was reported for 25.4% of patients

Safety

- The most common all-grade adverse events (AEs) experienced by $\geq 20\%$ of patients are shown in **Table 5**

Results (10 of 13)

Table 5. Safety of Alpelisib + Letrozole in the Prior CDK4/6i + Fulvestrant Cohort (Cohort B) (1 of 2)

| | Prior CDK4/6i + Fulvestrant, Cohort B (N=126) | |
|---|---|-----------------|
| | All Grades, n (%) | Grade ≥3, n (%) |
| AEs | 126 (100) | 88 (69.8) |
| Treatment-related | 126 (100) | 72 (57.1) |
| SAEs | 45 (35.7) | 38 (30.2) |
| Treatment-related | 17 (13.5) | 17 (13.5) |
| Fatal SAEs ^a | 2 (1.6) | 2 (1.6) |
| AEs leading to discontinuation ^b | 18 (14.3) | 11 (8.7) |
| Treatment-related | 16 (12.7) | 9 (7.1) |
| AEs leading to dose adjustment/interruption | 91 (72.2) | 69 (54.8) |

A patient with multiple severity grades for an AE is only counted under the maximum grade.

^aFatal SAEs were cerebral ischemia and septic shock in 1 patient (0.8%) each. ^bPatients may have had more than 1 AE documented leading to discontinuation.

CDK4/6i, cyclin-dependent kinase 4 or 6 inhibitor; SAE, serious adverse event.

Results (11 of 13)

Table 5. Safety of Alpelisib + Letrozole in the Prior CDK4/6i + Fulvestrant Cohort (Cohort B) (2 of 2)

| AEs by preferred term (≥20% all grades) | Prior CDK4/6i + Fulvestrant, Cohort B (N=126) | |
|---|---|-----------------|
| | All Grades, n (%) | Grade ≥3, n (%) |
| Diarrhea | 85 (67.5) | 5 (4.0) |
| Hyperglycemia | 80 (63.5) | 32 (25.4) |
| Nausea | 69 (54.8) | 3 (2.4) |
| Rash ^c | 39 (31.0) | 12 (9.5) |
| Rash maculopapular ^c | 21 (16.7) | 10 (7.9) |
| Fatigue | 39 (31.0) | 5 (4.0) |
| Decreased appetite | 56 (44.4) | 1 (0.8) |
| Stomatitis | 43 (34.1) | 1 (0.8) |
| Vomiting | 31 (24.6) | 1 (0.8) |
| Asthenia | 27 (21.4) | 5 (4.0) |

A patient with multiple severity grades for an AE is only counted under the maximum grade. ^cRash and rash maculopapular were recorded as separate preferred terms. AE, adverse event; CDK4/6i, cyclin-dependent kinase 4 or 6 inhibitor.

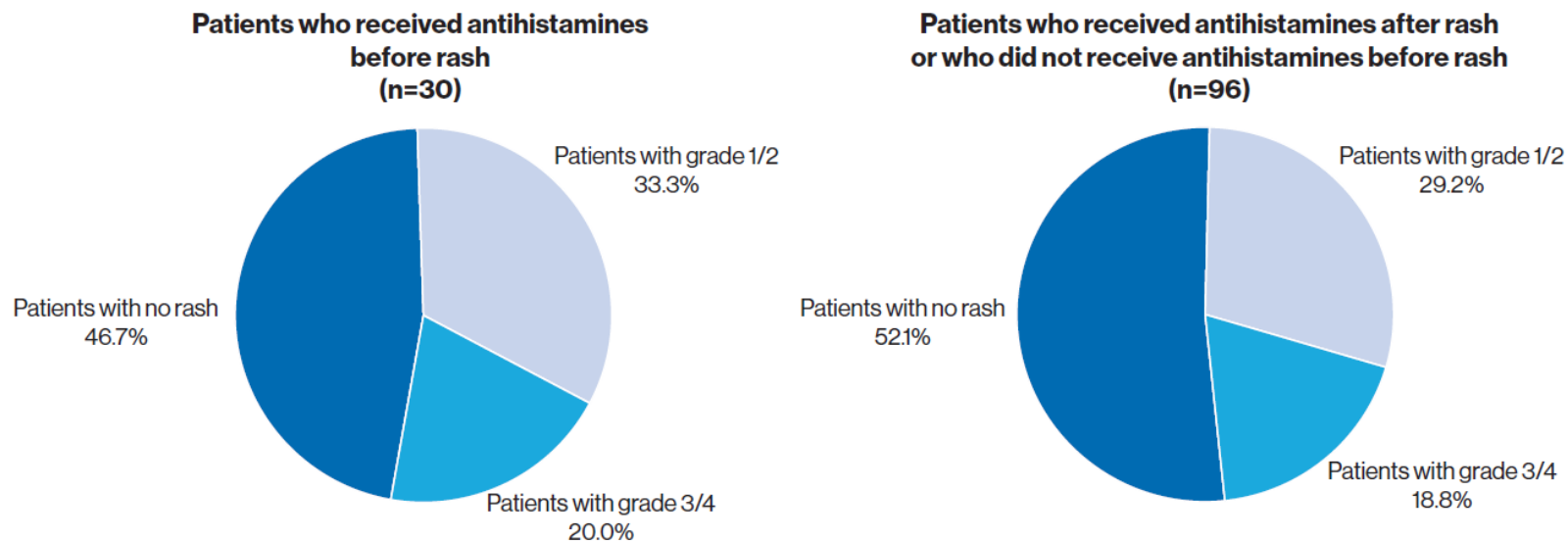
Results (12 of 13)

- Additional grade ≥ 3 AEs reported in at least 2 patients were: hypertension (n=7, 5.6%), abdominal pain (n=6, 4.8%), gamma-glutamyltransferase increased (n=4, 3.2%), and aspartate aminotransferase increased, dyspnea, headache, and weight decreased (each occurring in 2 patients, 1.6%)
- Hyperglycemia was the most common reason for dose interruption/adjustment, occurring in 36 patients (28.6%), followed by diarrhea and rash (n=13; 10.3% each)
- AEs leading to treatment discontinuation included rash (n=4, 3.2%; including rash maculopapular); fatigue and diarrhea (n=3, 2.4% each); and hyperglycemia, urticaria, increased aspartate aminotransferase, nausea, pneumonia, stomatitis, lower abdominal pain, acute kidney injury, decreased appetite, general physical health deterioration, hypersensitivity, increased lipase, peripheral edema, syncope, and thirst (n=1, 0.8% each)
- The AE of special interest of rash, which included multiple preferred terms, was reported in 49.2% of patients (n=62). Antihistamine use is reported in **Figure 5**

AE, adverse event.

Results (13 of 13)

Figure 5. Incidence of Rash in Patients With and Without Prophylactic Antihistamines Cohort B



AE, adverse event.

Conclusions (1 of 2)

- Cohort B of BYLieve included patients who received any CDK4/6i + fulvestrant as immediate prior treatment for HR+, HER2-, *PIK3CA*-mutated ABC
 - Treatment included alpelisib + letrozole
 - Most (82%) had progressed on a prior AI
 - The primary endpoint was met: 46.1% (95% CI, 36.8%-55.6%) of patients were alive and without disease progression at 6 months
 - mPFS was 5.7 months (95% CI, 4.5-7.2 months)
- Consistent with the well-characterized, manageable, and predictable safety profile for alpelisib, no new safety signals were observed
 - No difference in rash was observed in patients who received prophylactic antihistamines compared with patients who did not receive prophylactic antihistamines. This is in contrast to SOLAR-1⁶ and BYLieve Cohort A,⁵ in which prophylactic antihistamines decreased incidence and severity of rash, though small patient numbers make risk assessment difficult

ABC, advanced breast cancer; AI, aromatase inhibitor; CDK4/6i, cyclin-dependent kinase 4 or 6 inhibitor; CI, confidence interval; HER2-, human epidermal growth factor receptor 2-negative; HR+, hormone receptor-positive; mPFS, median progression-free survival; *PIK3CA*, phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit alpha.

Conclusions (2 of 2)

- Consistent with the well-characterized, manageable, and predictable safety profile for alpelisib, no new safety signals were observed (cont.)
 - Clinical experience with alpelisib, as well as education about and implementation of AE monitoring and management strategies, are important factors that can contribute to the efficacy of alpelisib + ET
 - Toxicity management appears to improve with experience using alpelisib
- Data from these patients, many of whom progressed on prior AI as well as CDK4/6i + fulvestrant, suggest that the combination of alpelisib + letrozole maintains efficacy and may be an effective treatment option for patients with *PIK3CA*-mutated, HR+, HER2- ABC who progress on prior treatment with CDK4/6i + fulvestrant

ABC, advanced breast cancer; AE, adverse event; AI, aromatase inhibitor; CDK4/6i, cyclin-dependent kinase 4 or 6 inhibitor; ET, endocrine therapy; HER2-, human epidermal growth factor receptor 2-negative; HR+, hormone receptor-positive; *PIK3CA*, phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit alpha.

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