

# High-Risk, HR+, HER2- Early Breast Cancer: Dose Modification Strategies to Manage AEs

## CDK4/6i for High-Risk, HR+, HER2- EBC and Dose Modifications

There are 2 FDA-approved cyclin-dependent kinase inhibitors (CDK4/6i) for treating patients with high-risk, hormone receptor (HR)-positive, human epidermal growth factor receptor 2 (HER2)-negative, early breast cancer (EBC)<sup>1-3</sup>

To maximize therapeutic benefits and optimize clinical outcomes, patients should continue treatment for the full prescribed duration; this may require dose modifications to manage adverse events (AEs)<sup>4,5</sup>



In clinical trials investigating adjuvant CDK4/6i + endocrine therapy (ET) for patients with high-risk, HR+, HER2-, EBC, dose adjustments were common<sup>6-9</sup>:



**62-73%** of patients had dose interruptions



**23-44%** of patients had a dose reduction



**19-20%** of patients discontinued treatment

## Monitoring and Managing AEs to Help Patients Stay on Treatment

Patients may experience **symptomatic** and/or **asymptomatic** AEs, which can result in premature discontinuation of therapy if not properly managed<sup>5,6,10</sup>



### Symptomatic AEs Felt and Reported by Patients<sup>1,2</sup>

- Diarrhea
- Fatigue
- Arthralgia
- Headache
- ILD/Pneumonitis
- Nausea
- Infection



### Asymptomatic AEs Detected by Routine Monitoring<sup>1,2</sup>

- Hepatotoxicity
- Cardiac arrhythmia
- Neutropenia
- Anemia

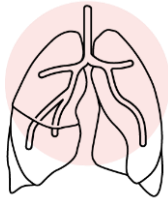
Regular monitoring and timely dose adjustments are essential for managing AEs, maintaining patients on therapy, and optimizing clinical outcomes<sup>6,8,11</sup>

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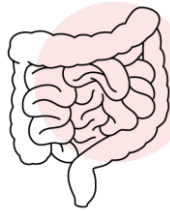
## AE Management With Dose Modifications

While Grade 1 AEs do not typically require dose modifications, common Grade  $\geq 2$  CDK4/6i-associated AEs are generally manageable through dose-interruption and/or dose-reduction strategies<sup>1,2,10</sup>

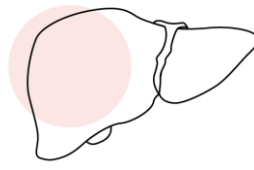
### AEs associated with CDK4/6i include:



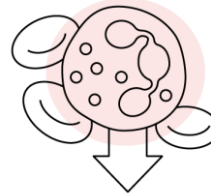
ILD/Pneumonitis



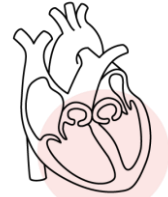
Diarrhea



Hepatotoxicity



Neutropenia



QT Prolongation

Consult appropriate drug labels and USPI for AEs that may be CDK4/6i-specific; these can include severe cutaneous AEs, QT prolongation, and/or venous thromboembolic events and follow label guidance, which may include dose interruption, dose reduction, and/or discontinuation<sup>1,2</sup>



Dose reductions are an effective way to manage AEs and **do not compromise treatment efficacy** of adjuvant CDK4/6is<sup>8,10,11,12</sup>



Implementing dose reductions **early and when needed** in a patient's treatment journey can effectively manage AEs and reduce the likelihood of treatment discontinuation<sup>7</sup>



Educating and increasing **patient awareness** of AE symptoms and expectations may inform dose modification strategies according to drug labels, improving patient experiences and treatment adherence<sup>8</sup>

Early monitoring and, if needed, dose modifications of adjuvant CDK4/6is are critical to manage the AEs of patients with high-risk, HR+, HER2- EBC to support their ability to stay on treatment and optimize clinical outcomes<sup>8,11,12</sup>

**References:** 1. Abemaciclib [US PI]. Indianapolis, IN, USA: Eli Lilly USA LLC, 2025. 2. Ribociclib [US PI]. East Hanover, NJ, USA: Novartis Pharmaceuticals Corporation, 2024. 3. Freedman RA, et al. *J Clin Oncol*. 2024;42(18):2233-2235. 4. Lau C, et al. *Breast Cancer Res Treat*. 2025. doi:10.1007/s10549-025-07701-x. 5. Nabieva N and Fasching PA. *Cancers (Basel)*. 2023;15(6):1763. 6. Rugo HS, et al. *Ann Oncol*. 2022;33(6):616-627. 7. Hortobagyi GN, et al. *Ann Oncol*. 2025;36(2):149-157. 8. Goetz MP, et al. *NPJ Breast Cancer*. 2024;10(1):34. 9. Fasching PA, et al. Oral presentation at: *ESMO 2024*. Abstract LBA13. 10. Cazzanga ME, et al. *Breast Cancer Res Treat*. 2019;176(3):483-494. 11. Hamilton E, et al. Poster presentation at: *SABCS 2024*. Abstract P1-11-16. 12. Hudson K, et al. Oral presentation at: *SABCS 2024*. Abstract P1-11-29.

**Abbreviations:** AE= adverse event; CDK4/6=cyclin-dependent kinase 4/6 inhibitor; EBC=early breast cancer; ET=endocrine therapy; FDA=United States Food and Drug Administration; HER2=human epidermal growth factor receptor 2; HR=hormone receptor; ILD=interstitial lung disease; USPI=United States Prescribing Information.