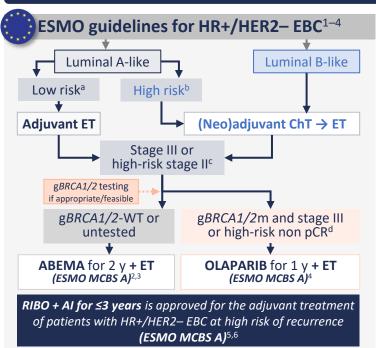


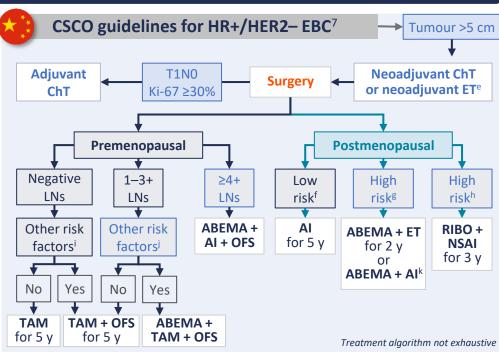
From clinical trials to clinical practice: Applying CDK4/6 inhibitors in HR+/HER2- early breast cancer

Practice aid for HR+/HER2- early breast cancer

For more information, visit: <u>www.touchONCOLOGY.com</u>

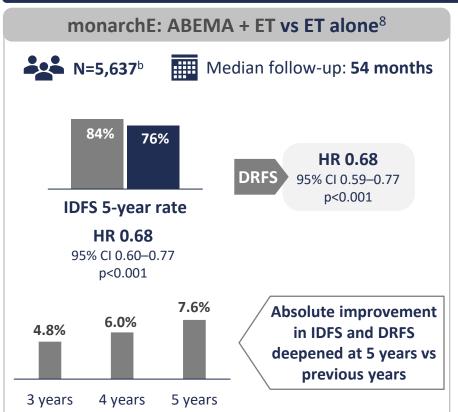
Targeted treatments are recommended by ESMO and the CSCO for patients with HR+/HER2-EBC

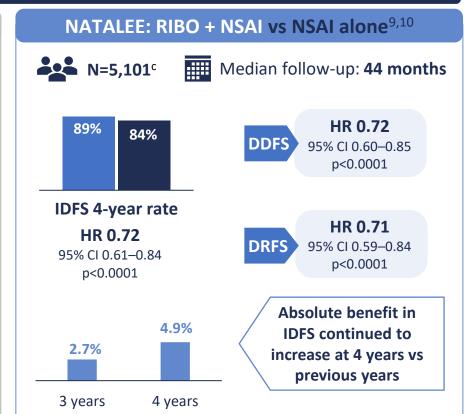




almplies low-risk genomic score and/or lower-risk features on traditional pathological analysis including lower-grade histology, robust ER and PgR expression and lower measures of proliferation. bImplies high-risk genomic score and/or higher-risk features. 'Stage N1 with primary tumour >5 cm, and/or grade 3 and/or Ki-67 ≥20%. dHR+ tumours and non-pCR after neoadjuvant ChT require a pretreatment clinical stage and post-treatment pathological stage, ER and tumour grade score ≥3 to receive olaparib. "Neoadjuvant ChT preferred; neoadjuvant ET considered if (1) ChT is contraindicated; (2) patient is temporarily unsuitable for surgery or does not require immediate surgery; (3) patient is insensitive to or has inadequate response to neoadjuvant ChT. For postmenopausal patients, Als recommended (or fulvestrant if Al not appropriate); for premenopausal patients, neoadjuvant Al + OFS may be used. The response to neoadjuvant ET should be evaluated every 2 months; if effective and well tolerated, treatment may continue for up to 6 months fimplies (1) negative LNs; (2) 1–3+ LNs with grade 1–2, tumour <5 cm and Ki-67 <20%. Bimplies (1) ≥4+ LNs; (2) 1–3+ LNs with other risk factors, such as grade 3, tumour ≥5 cm, or Ki-67 ≥20%. himplies stage II or III disease, encompassing node negative with grade 3/2 and Ki-67 ≥20% or high-risk genetic profiles. Grade 2–3, tumour >2 cm, or high Ki-67. Such as grade 3, tumour ≥5 cm, or Ki-67 ≥20%. Bimplies (1) another CDK4/6 inhibitor, e.g. ribociclib, may be appropriate.

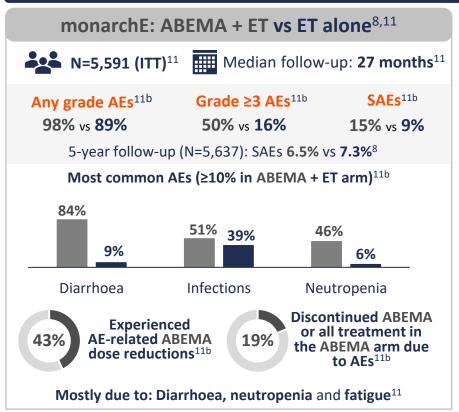
Two CDK4/6 inhibitors are approved for HR+/HER2- EBC and maintain long-term efficacy profiles^a

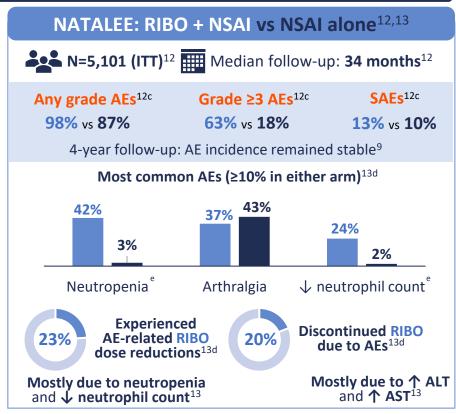






Abemaciclib and ribociclib have well established safety profiles^a









Key strategies for maximizing the potential of CDK4/6 inhibitors in patients with HR+/HER2-EBC

Risk stratification of HR+/HER2- EBC informs treatment decision-making¹⁴

Rik stratification assessment features

Clinicopathological

- Age
- Menopausal status
- Tumour size
- Nodal status
- Histologic type
- Tumour grading
- HR expression level **Proliferation markers**

Genomic profile

- Subtype signatures
- Commercial assays

Risk assessment-guided treatment decision making

Low risk

ET only

Low-to-intermediate risk

 $(\pm ChT) + ET \pm CDK4/6i$

Intermediate-to-high risk



Ensure treatment adherence through appropriate patient selection, considering patient preferences and effectively managing side effects^{1,15,16}



Be aware of when side effects may occur, e.g. risk of liver toxicity early in CDK4/6 inhibitor treatment^{11,13}



Be alert to potential cumulative side effects with combination therapy, e.g. cardiotoxicity (RIBO + TAM), or VTEs/ATEs (ABEMA + TAM)^{3,5,17,18}



Review concomitant medications for potential drug–drug interactions^{3,5,19}



Managing low grade toxicity to maximize QoL²⁰



Engage support of the nursing team to assist with patient education, side-effect management and side-effect reporting²¹



Patient education on potential side effects and action if a side effect occurs^{15,17,18,21}



The safety profiles of CDK4/6 inhibitors are generally manageable, yet important to monitor^{2,5}

Management of some AEs may require dose interruption and/or reduction^{2,5}

Special warnings & precautions Abemaciclib²

- Neutropenia
- Infections/infestations
- Diarrhoea
- 个 ALT/AST
- ILD/pneumonitis
- VTEs/ATEs

Ribociclib⁵

- Neutropenia
- Hepatobiliary toxicity
- QT interval prolongation
- Severe cutaneous AEs
- ILD/pneumonitis
- ↑ Blood creatinine



Abbreviations and references

Abbreviations

ABEMA, abemaciclib; AE, adverse event; AESI, AE of special interest; AI, aromatase inhibitor; ALT, alanine aminotransferase; AST, aspartate aminotransferase; ATE, arterial thromboembolic events; CDK4/6i, CDK4/6 inhibitor; ChT, chemotherapy; CI, confidence interval; CSCO, Chinese Society of Clinical Oncology; DDFS, distant disease-free survival; DRFS, distant relapse-free survival; EBC, early breast cancer; ER, oestrogen receptor; ESMO, European Society of Medical Oncology; ET, endocrine therapy; gBRCA1/2, germline BRCA1/2; HER2, human epidermal growth factor receptor 2; HR, hazard ratio; HR+, hormone receptor positive; IDFS, invasive disease-free survival; ILD, interstitial lung disease; LN, lymph node; MCBS, magnitude of clinical benefit score; NSAI, nonsteroidal aromatase inhibitor; OFS, ovarian function suppression; pCR, pathological complete response; PgR, progesterone receptor; QoL, quality of life; RIBO, ribociclib; SAE, serious AE; TAM, tamoxifen; VTE, venous thromboembolism; WT, wild-type; y, years.

References

- 1. Loibl S, et al. *Ann Oncol*. 2024;35:159–82.
- EMA. Abemaciclib SmPC. Available at: https://bit.ly/4g304cq
 (accessed 19 February 2025).
- ESMO. MCBS: abemaciclib. Available at: https://bit.ly/3DS7UrO (accessed 19 February 2025).
- ESMO. MCBS: olaparib. Available at: https://bit.ly/4hM6RsK (accessed 19 February 2025).
- EMA. Ribociclib SmPC. Available at: https://bit.ly/4hkelTc (accessed 19 February 2025).
- ESMO. MCBS: ribociclib. Available at: https://bit.ly/4g35CU2 (accessed 19 February 2025).
- 7. Li J, et al. Transl Breast Cancer Res. 2024;5:18.
- 8. Rastogi P, et al. J Clin Oncol. 2024;42:987–93.
- 9. Fasching PA, et al. Presented at: ESMO 2024, Barcelona, Spain. 13–17 September 2024. Abstr LBA13.

- 10. Hurvitz SA, et al. Presented at: SABCS, San Antonio, TX, USA. 10–13 December 2024. Abstr P4-09-22.
- 11. Rugo HS, et al. Ann Oncol. 2022;33:616-27.
- 12. Slamon D, et al. N Engl J Med. 2024;390:1080-91.
- 13. Barrios C, et al. Presented at: ESMO 2024, Barcelona, Spain. 13–17 September 2024. Abstr 113MO.
- 14. Morganti S, et al. Breast Cancer Res Treat. 2022;192:465-84.
- 15. Nabieva N, Fasching PA. *Cancers (Basel)*. 2023;15:1763.
- 16. Beusterien K, et al. Patient Prefer Adherence. 2021;15:611–23.
- 17. Lyon AR, et al. Eur Heart J. 2022;43:4229-361.
- 18. Pavlovic D, et al. *Ther Adv Medical Oncol*. 2023;15:17588359231205848.
- 19. Scagnoli S, et al. NPJ Breast Cancer. 2024;10:58.
- 20. Lin W, et al. BMC Pharmacol Toxicol. 2024;25:47.
- 21. Damman OC, et al. Eur J Oncol Nursing. 2024;70:102574.

The guidance provided by this clinical summary is not intended to directly influence patient care. Clinicians should always evaluate their patients' conditions and potential contraindications and review any relevant manufacturer product information or recommendations of other authorities prior to consideration of procedures, medications or other courses of diagnosis or therapy included here. Our clinical summary coverage does not constitute implied endorsement of any product(s) or use(s). touchONCOLOGY cannot guarantee the accuracy, adequacy or completeness of any information, and cannot be held responsible for any errors or omissions.

