

Decoding HER2 in NSCLC: Advances in biomarker testing and targeted therapies

Practice aid for HER2 alterations in NSCLC

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Practice aid for HER2 alterations in NSCLC



Trastuzumab deruxtecan approvals

Guideline recommendations for use

📄 EMA⁷

 Advanced NSCLC with activating HER2 mutation and requiring systemic therapy following platinum-based chemotherapy ± immunotherapy¹

ESMO²

Recommended for patients with HER2 exon 20 mutations following prior first-line therapy

ASCO³

Recommended in patients with **HER2** alterations as a second-line therapy

NCCN⁴

- Preferred subsequent therapy after first-line treatment in patients with *HER2* mutation
 - (trastuzumab emtansine as alternative)
- Option for subsequent therapy for patients with HER2 overexpression (IHC 3+)



FDA⁸

- Unresectable or metastatic NSCLC with activating HER2 mutations after prior systemic therapy²
- Unresectable or metastatic HER2-positive (IHC 3+) solid tumours following prior systemic treatment and with no satisfactory treatment options²

Abbreviations and references

Abbreviations

ARMS, amplification refractory mutation system; ASCO, American Society of Clinical Oncology; dd, droplet digital; EMA, European Medicines Agency; ESMO, European Society for Medical Oncology; FDA, US Food and Drug Administration; FISH, fluorescence in situ hybridization; HER2, human epidermal growth factor receptor 2; IHC, immunohistochemistry; mSCC, metastatic squamous cell carcinoma; NCCN, National Comprehensive Cancer Network; NGS, next-generation sequencing; NOS, not otherwise specified; NSCLC, non-small cell lung cancer; PCR, polymerase chain reaction; q, quantitative; qRT-PCR, quantitative real-time PCR; RT-PCR, reverse transcription PCR.

References

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- 7. EMA. Trastuzumab deruxtecan SmPC. Available at: <u>https://bit.ly/3VSnhXU</u> (accessed 28 May 2024).
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The guidance provided by this practice aid 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.

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