

Perspectives on *EGFR*-mutant and wildtype NSCLC: Tailoring treatment advances in late-stage disease

Clinical summary for Module 1: EGFR-mutant NSCLC For more information, visit: <u>www.touchONCOLOGY.com</u>

Advances in EGFR-mutant NSCLC to address unmet needs

Research to focus on more personalized and effective therapies



"More than half of patients will develop brain metastases or leptomeningeal disease and these are sites of metastatic disease that are associated with a lot of morbidity and mortality in our patients, so understanding how effective novel therapies are is key."

Key areas for research



Overcoming resistance mechanisms¹

- Understand specific resistance mutations
- Role of dual inhibitor approaches



Novel therapeutic strategies¹ Role of upfront

- combination strategies
- Assessment of risk-benefit ratio (e.g. ↑ toxicities)



Biomarker development²

- Identify markers to monitor/
- predict treatment response
- Methods to detect resistance early

Addressing CNS metastases³

 Inclusion of patients with CNS metastases in clinical trials to assess intercranial

intercranial activity

Faculty and topics

Dr Helena Yu, CD presented on how the clinical trial landscape is evolving to address unmet needs in the metastatic setting



Key takeaways for ongoing research

- Ensure inclusion of diverse patient populations in clinical trials to improve generalizability of results
- Apply advances in risk stratification to inform risk-adaptive treatment strategies



EGFR-mutant NSCLC: Key clinical trial data in the first line





OS data outstanding for both combination approaches

EGFR-mutant NSCLC: Key clinical trial data in second and later line

Novel agents		Combination approaches	
Phase II HERTHENA-Lung01 ⁸ Patritumab deruxtecan (post osimertinib and ChT)	Phase III HARMONi-A ^{10*} Ivonescimab + ChT vs ChT (post EGFR-TKI)	Phase III MARIPOSA-2 ¹² IV amivantamab + Pt-ChT ± lazertinib vs Pt-ChT (post osimertinib)	Phase III PALOMA-3 ¹³ SC vs IV amivantamab + lazertinib (post osimertinib and ChT)
 Overall response rate in patients with CNS disease was similar to that in all patients (28.7% vs 29.8%) Most common grade ≥3 adverse events were haematological toxicities HERTHENA-Lung02⁹ 	 PFS was significantly improved in the combination arm vs ChT (HR 0.46; 95% Cl, 0.34–0.62; p<0.0001) PFS benefit also observed in patients who: progressed on a third-generation EGFR TKI; had brain metastases; possessed an EGFR deletion 19 or T790M mutation Incidences of grade ≥3 adverse events higher in the combination group vs ChT 	 PFS was significantly longer with amivantamab + ChT vs Pt-ChT (HR 0.48; 95% Cl, 0.36–0.64; p<0.001) and in patients with intracranial disease (HR 0.52; 95% Cl, 0.35–0.78) Incidence of grade ≥3 adverse events higher in the amivantamab + Pt-ChT group vs Pt-ChT SC administic demonstration pharmaco to IV admin change in AUC_{D1-D15} the between g Higher inc grade IRRs group vs St 	 SC administration demonstrated noninferiority pharmacokinetics compared to IV administration: the change in C_{trough} and AUC_{D1-D15} remained similar between groups Higher incidences of any
phase II trial ongoing in patients progressing on a third-generation EGFR TKI			grade IRRs and VTEs in IV group vs SC

EGFR-mutant NSCLC: Implications of latest data for clinical practice

Evolving therapeutic options in advanced/metastatic *EGFR*-mutant NSCLC



"I think in the near future, there will be more complexity in the various options that we might have... It is key to continue to follow closely new data as it comes out and to figure out what would be the appropriate biomarkers to help us pick which patients for which different combination therapies."

Current and future strategies



NCCN/ESMO Guidelines14,15

- Osimertinib is the preferred 1L option
- In 2L, treat based on resistance mechanisms (clinical trial) or standard of care Pt-ChT

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Novel 1L strategies¹

Know when to escalate or de-escalate treatment according to adaptive response

Role of prognostic markers



Novel 2L strategies^{8,10,11}

- Amivantamab + ChT
- Ivonescimab •
- + ChT Patritumab • deruxtecan (HER3-DXd)

High-risk groups^{4–6} Assess CNS efficacy (and efficacy in high-risk subgroups) evaluated in clinical trials for novel therapies

Faculty and topics

Dr Helena Yu. CD presented a clinical case and discussed the current and evolving treatment options for improved outcomes



Key takeaways for clinical practice

- Clinical trials in the first line focus on combination therapies
- Clinical trials in the second line focus on adding agents to the standard of care, chemotherapy



Abbreviations and references

Abbreviations

1/2L, first-/second-line; AUC_{D1-D15}, area under the curve from cycle-2 day-1 to day-15; CD, course director; ChT, chemotherapy; CI, confidence interval; CNS, central nervous system; C_{trough}, trough concentrations; EGFR, epidermal growth factor receptor; HR, hazard ratio; IRR, infusion-related reaction; IV, intravenous; m, median; NSCLC, non-small cell lung cancer; OS, overall survival; Pt-ChT, platinum-based ChT; PD, progressive disease; PFS, progression-free survival; SC, subcutaneous; TKI, tyrosine kinase inhibitor; VTE, venous thromboembolism.

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