## Tepotinib in NSCLC patients with MET exon 14 skipping: health-related quality of life

Paul K. Paik,¹ Leora Horn,² Dariusz Kowalski,³ Jyoti Patel,⁴ Frank Griesinger,⁵ Ji-Youn Han,⁶ Egbert Smit,ˀ Terufumi Kato,ϐ Xiuning Le,<sup>9</sup> Jürgen Scheele,<sup>10</sup> Rolf Bruns,<sup>11</sup> Helene Vioix,<sup>12</sup> Boris M. Pfeiffer,<sup>12</sup> Byoung Chul Cho<sup>13</sup>



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## **CONCLUSIONS**

- In patients with advanced NSCLC with MET exon 14 skipping, treatment with tepotinib results in a meaningful improvement in symptoms of cough
- Symptoms of dyspnea and chest pain remained stable during the 24-week analysis
- Patient quality of life remained stable, with no meaningful change in QLQ-C30 or **EQ-5D-5L scores**
- These findings, coupled with the efficacy and safety profile from the VISION study, support tepotinib as a promising treatment option in patients with MET exon 14 skipping
- This is the first analysis of health-related quality of life in this patient population, who are typically elderly with a poor prognosis



## INTRODUCTION

- The oncogenic driver MET exon 14 skipping occurs in 3-4% of patients with non-small cell lung cancer (NSCLC)<sup>1-4</sup>
- Tepotinib is an oral, once-daily, highly selective MET tyrosine kinase inhibitor that blocks MET-mediated signaling pathways involved in
- In the Phase II VISION study (NCT02864992), tepotinib has shown promising efficacy across treatment lines in patients with advanced NSCLC with MET exon 14 skipping (poster 322); 6 results are published online in New England Journal of Medicine (May 2020)
- The objective response rate by independent review was 46.5-50.0% and by investigator assessment was 55.6-61.7%; onset of response was mostly within 2-3 months with a long median duration of response of up to 15.7 months<sup>6</sup>
- Results from this study have led to regulatory approval of tepotinib and its companion diagnostic in Japan in March 2020
- NSCLC patients with MET exon 14 skipping are older than those with other actionable molecular alterations;<sup>7-9</sup> median age was 74 years in VISION study. For older patients, treatment effects on symptoms and functioning may be particularly important
- Here, we present the first analysis of health-related quality of life (HRQoL) patient-reported outcomes (PROs) from patients with NSCLC MET exon 14 skipping in the VISION study



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Tepotinib in Non-Small-Cell Lung Cancer with MET Exon-14 Skipping Mutations

P.K. Paik, E. Felip, R. Veillon, H. Sakai, A.B. Cortot, M.C. Garassino, I. Mazieres S. Viteri, H. Senellart, J. Van Meerbeeck, J. Raskin, N. Reinmuth, P. Conte, D. Kowalski, B.C. Cho, J.D. Patel, L. Horn, F. Griesinger, J.-Y. Han, Y.-C. Kim, G.-C. Chang, C.-L. Tsai, J.C.-H. Yang, Y.-M. Chen, E.F. Smit, A.J. van der Wekken, T. Kato, D. Juraeva, C. Stroh, R. Bruns, J. Straub, A. Johne, J. Scheele, I.V. Hevmach, and X. Le



## **METHODS**

- VISION Cohort A enrolled patients with locally advanced or metastatic NSCLC with MET exon 14 skipping. Patients were EGFR/ALK wild type and had ≤2 lines of prior therapy and received oral tepotinib 500 mg once daily until intolerable toxicity or disease progression
- PROs were assessed using the following:
- European Organisation for Research and Treatment of Cancer Quality of Life Lung Cancer-13 questionnaire (EORTC QLQ-LC13).10 Cough, dyspnea and chest pain were pre-defined items of
- European Organisation for Research and Treatment of Cancer Quality of Life Questionnaire Core 30 (EORTC QLQ-C30) global health status (GHS)
- EuroQol Five Dimension Five Level Scale (EQ-5D-5L) questionnaire and Visual Analog Scale
- Results were scored from 0 to 100
- A change of ≥10 points from baseline was considered to be the minimal clinically important
- Questionnaires were completed at baseline and every 6 weeks



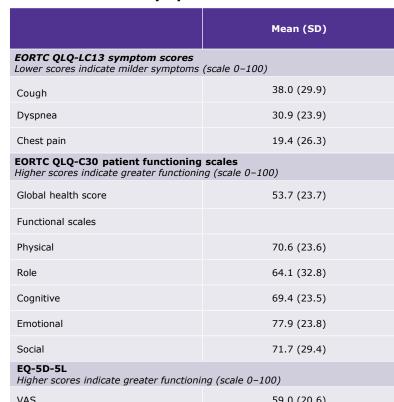
- At data cut-off (01 January, 2020), 99 patients with at least 9 months' follow up had been enrolled and were analyzed for
- Patients were mostly older (median age 74.0 years) with an ECOG PS of 1 (77%), half were smokers (47%), and almost all had metastatic disease (97%) at study entry<sup>6</sup>
- Questionnaire completion rate was high (**Table 1**)

Table 1. Questionnaire completion rate at baseline and over time

Time	Number of patients on treatment	Completion rates; n (%)		
		EORTC QLQ-LC13	EORTC QLQ-C30	EORTC EQ-5D-5L
Baseline	99	86 (86.9%)	86 (86.9%)	86 (86.9%)
Week 6	86	72 (83.7%)	72 (83.7%)	72 (83.7%)
Week 12	76	68 (89.5%)	68 (89.5%)	68 (89.5%)
Week 18	68	62 (91.2%)	62 (91.2%)	61 (89.7%)
Week 24	59	50 (84.7%)	50 (84.7)	50 (84.7%)

 Baseline scores showed moderate-to-high functioning and quality of life and moderate lung cancer symptom burden (**Table 2**)

Table 2. Baseline symptom burden



- For the QLQ-LC13 symptoms, mean changes from baseline indicated a meaningful improvement in coughing, with a time to improvement paralleling the onset of objective response (within first 3 months), and a numerical improvement in dyspnea (-3.1 at Week 12) and chest pain (-4.0 at Week 12) (Figure 1)
- Mean changes from baseline in QLQ-C30 global health and functional scale scores and EQ-5D-5L VAS scores demonstrated stability in patient quality of life over time (Figure 2 and 3)

Figure 1. Mean change from baseline in EORTC QLQ-LC13 cough, dyspnea, and chest pain symptom

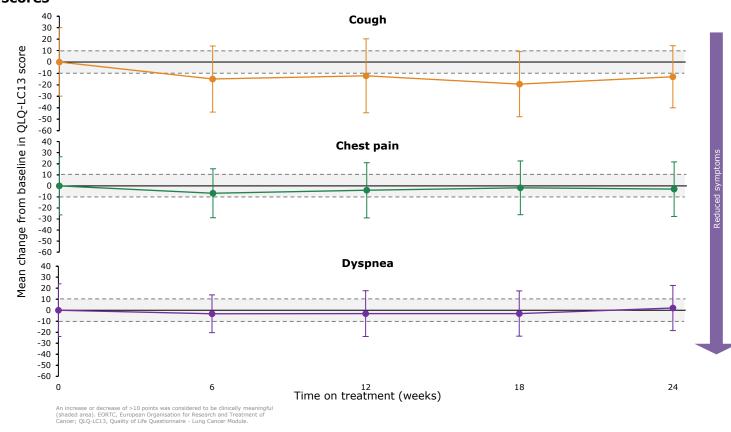


Figure 2. Mean change from baseline in EORTC QLQ-C30 global health score and subscales

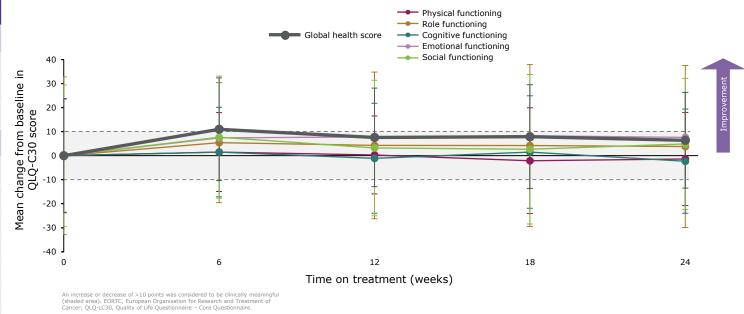


Figure 3. Mean change from baseline in EQ-5D-5L VAS scores

