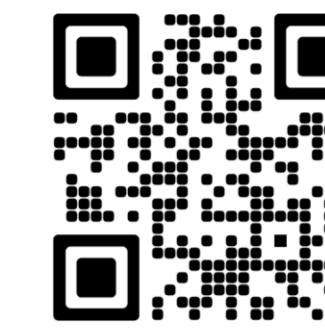


# Patient-Reported Outcomes and Health-Related Quality of Life With Taltrectinib in Advanced ROS1+ NSCLC From the TRUST-II Study

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## Background

- Taltrectinib is a next-generation, CNS-active, selective ROS1 TKI approved in the US, Japan, and China for the treatment of patients with locally advanced or metastatic ROS1+ NSCLC<sup>1–3</sup>
- Taltrectinib has demonstrated robust efficacy and a manageable safety profile in patients with advanced or metastatic ROS1+ NSCLC from two Phase 2 studies, TRUST-I (NCT04395677) and TRUST-II (NCT04919811) (Table 1)<sup>4,5</sup>

Table 1. Pooled Data From TRUST-I and TRUST-II<sup>4,5</sup>

Efficacy	TKI-Na��ve (n=157)	TKI-Pretreated (n=113)
cORR, % (95% CI)	89.8 (84.0–94.1)	55.8 (46.1–65.1)
Median DOR, months (95% CI)	49.7 (38.6–NR)	16.6 (10.7–24.9)
Median PFS, months (95% CI)	46.1 (31.8–NR)	9.7 (7.6–12.0)
IC Efficacy (n=17)		(n=32)
IC-ORR, % (95% CI)	76.5 (50.1–93.2)	65.6 (46.8–81.4)

- With a median DOR of 49.7 months in TKI-na  ve patients,<sup>4</sup> it is important to understand the impact of taltrectinib on HRQoL over time
- Here we report PRO/HRQoL outcomes from TRUST-II

## Abbreviations

c, confirmed; C, cycle; CI, confidence interval; CNS, central nervous system; D, day; DOR, duration of response; ECOG PS, Eastern Cooperative Oncology Group performance status; EORTC, European Organisation for Research and Treatment of Cancer; GHS, global health status; HRQoL, health-related quality of life; IC, intracranial; IRC, independent review committee; mRECIST v1.1, modified Response Evaluation Criteria in Solid Tumors version 1.1; NA, not applicable; NR, not reached; NSCLC, non-small cell lung cancer; ORR, objective response rate; PFS, progression-free survival; PRO, patient-reported outcome; QLQ-C30, Quality of Life Questionnaire 30-item core module; QLQ-LC13, Quality of Life Questionnaire 13-item lung cancer module; QoL, quality of life; ROS1, ROS proto-oncogene 1; TFI, time to first improvement; TKI, tyrosine kinase inhibitor; US, United States

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## Methods

- The study design of TRUST-II has been previously reported<sup>2</sup>
  - Briefly, patients with locally advanced or metastatic ROS1+ NSCLC were treated with taltrectinib 600 mg once daily in 21-day cycles
- HRQoL and PROs were evaluated using the EORTC QLQ-C30<sup>6</sup> and QLQ-LC13<sup>7</sup> questionnaires in English-speaking patients from North America and Europe
- Data were collected at screening, on D1 of every cycle until C9D1, then on D1 of every three cycles until C27D1 (or every two cycles for patients enrolled under earlier protocol versions), and every four cycles thereafter until end of treatment (within 7 days of last dose)
- Changes from baseline over time were summarized using descriptive statistics; a change of  $\geq 10$  points from baseline was considered clinically meaningful<sup>8</sup>
- Time to first improvement (TFI) was assessed using Kaplan–Meier methods

## Results

- At data cutoff (August 31, 2025), the PRO analysis set included 69 patients across all TRUST-II cohorts (23 TKI-na  ve and 46 TKI-pretreated; Table 2)

Table 2. Baseline Characteristics (PRO Analysis Set)

Baseline Characteristics	TKI-Na��ve (n=23)	TKI-Pretreated (n=46)	Overall (N=69)
Median age, years (range)	56.0 (30–83)	57.5 (31–79)	57.0 (30–83)
Female, n (%)	17 (73.9)	24 (52.2)	41 (59.4)
Stage IV disease, n (%)	20 (87.0)	43 (93.5)	63 (91.3)
ECOG PS $\geq 1$ , n (%)	10 (43.5)	29 (63.0)	39 (56.5)
Never smoker, n (%)	12 (52.2)	30 (65.2)	42 (60.9)
Prior chemotherapy, n (%)	6 (26.1)	19 (41.3)	25 (36.2)
Brain metastases, <sup>a</sup> n (%)	8 (34.8)	21 (45.7)	29 (42.0)
Prior crizotinib / entrectinib, n (%)	NA	32 (69.6) / 14 (30.4)	32 (46.4) / 14 (20.3)

<sup>a</sup>Assessed by IRC per mRECIST v1.1.

- Mean changes from baseline improved or remained stable for most domains across both questionnaires
- Scores for GHS/QoL and cognitive function improved or remained stable over time from baseline in the overall population, as well as in TKI-na  ve and TKI-pretreated subgroups (Figure 1)
- Overall, 88% of patients demonstrated improved or stable scores for GHS/QoL at the first on-treatment assessment (C2D1), including 93% of TKI-pretreated patients. The majority of scores improved or remained stable across subsequent assessment timepoints in TKI-na  ve and TKI-pretreated subgroups (Figure 2)
- Mean cognitive function score improved or remained stable throughout treatment, with the majority (63–77%) of patients showing improvement or stability and only 9–23% of patients showing worsening at various assessments

Figure 1. QLQ-C30: Change From Baseline in GHS/QoL and Cognitive Function

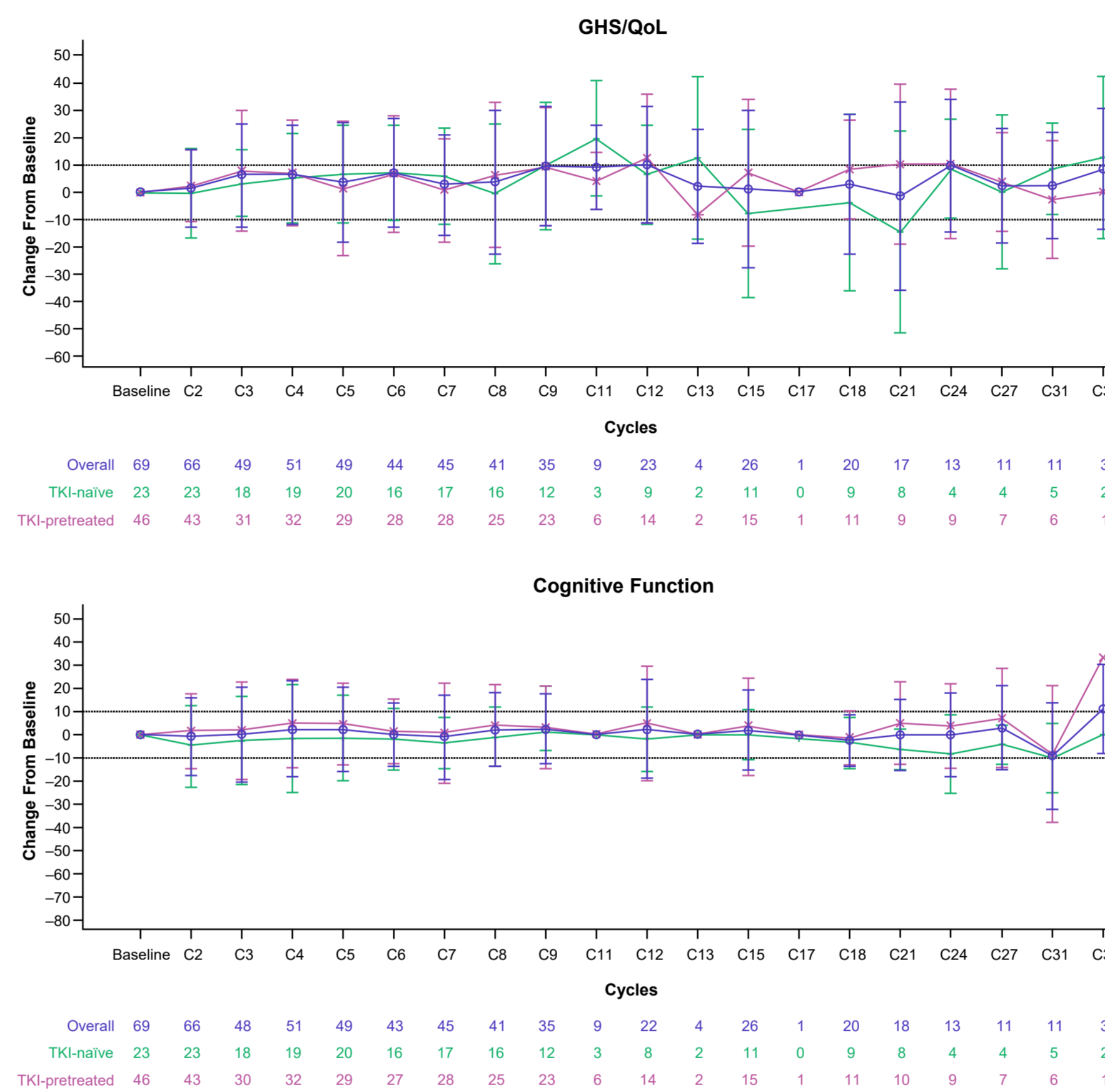
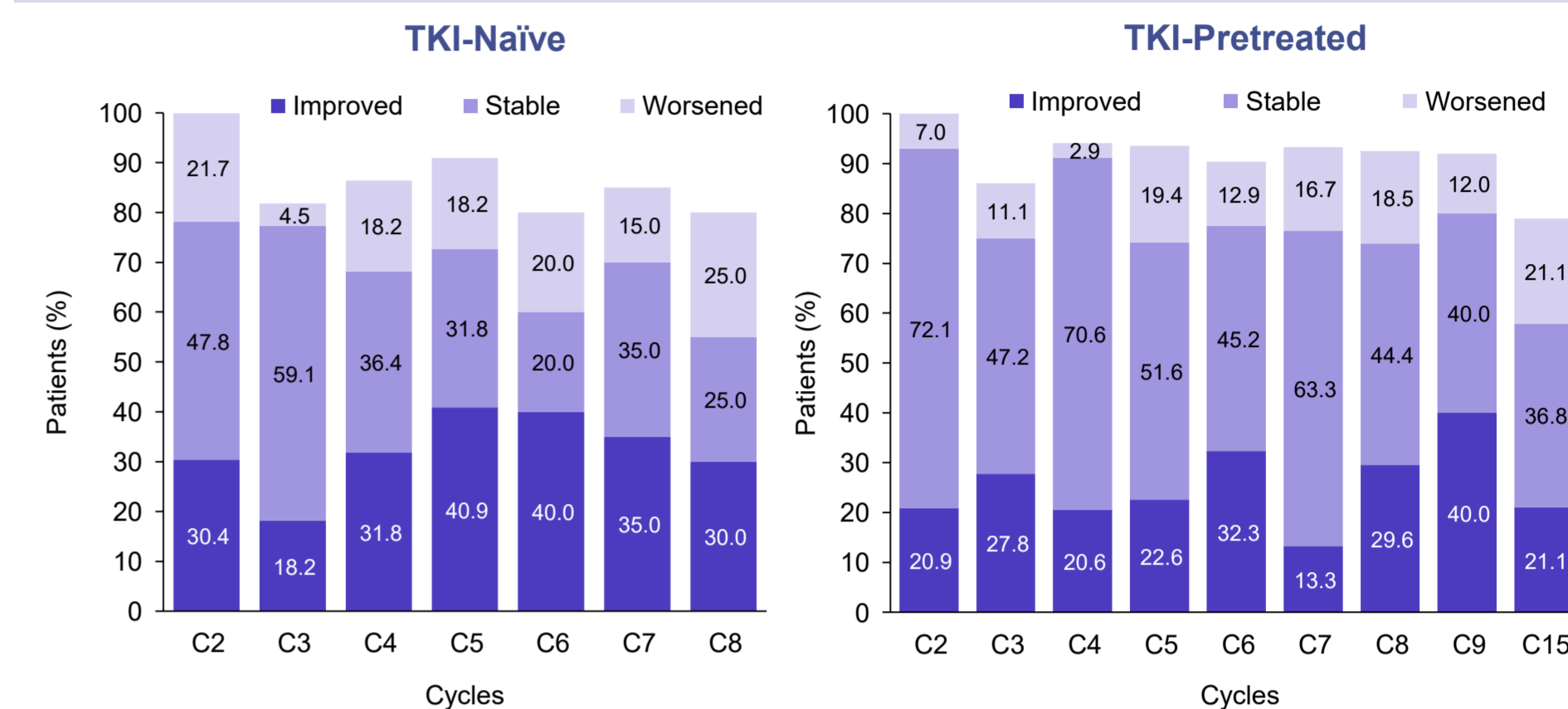


Figure 2. QLQ-C30: GHS/QoL Responder Analysis by Visit<sup>a</sup>



<sup>a</sup>Data reported only for visits with >70% completion rates.

Figure 3. QLQ-LC13: Dyspnea and Coughing Scores at C2D1

- At the first assessment (C2D1), 84–96% of patients demonstrated improved or stable scores for coughing and dyspnea in both TKI-na  ve and TKI-pretreated patients, with no worsening of coughing observed in TKI-na  ve patients (Figure 3)

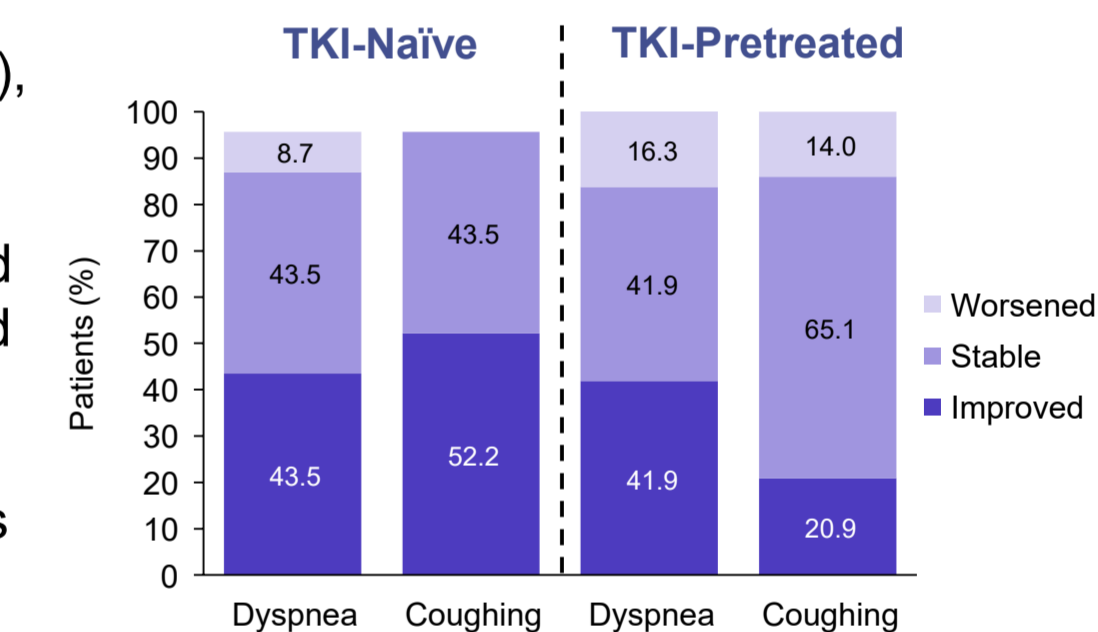
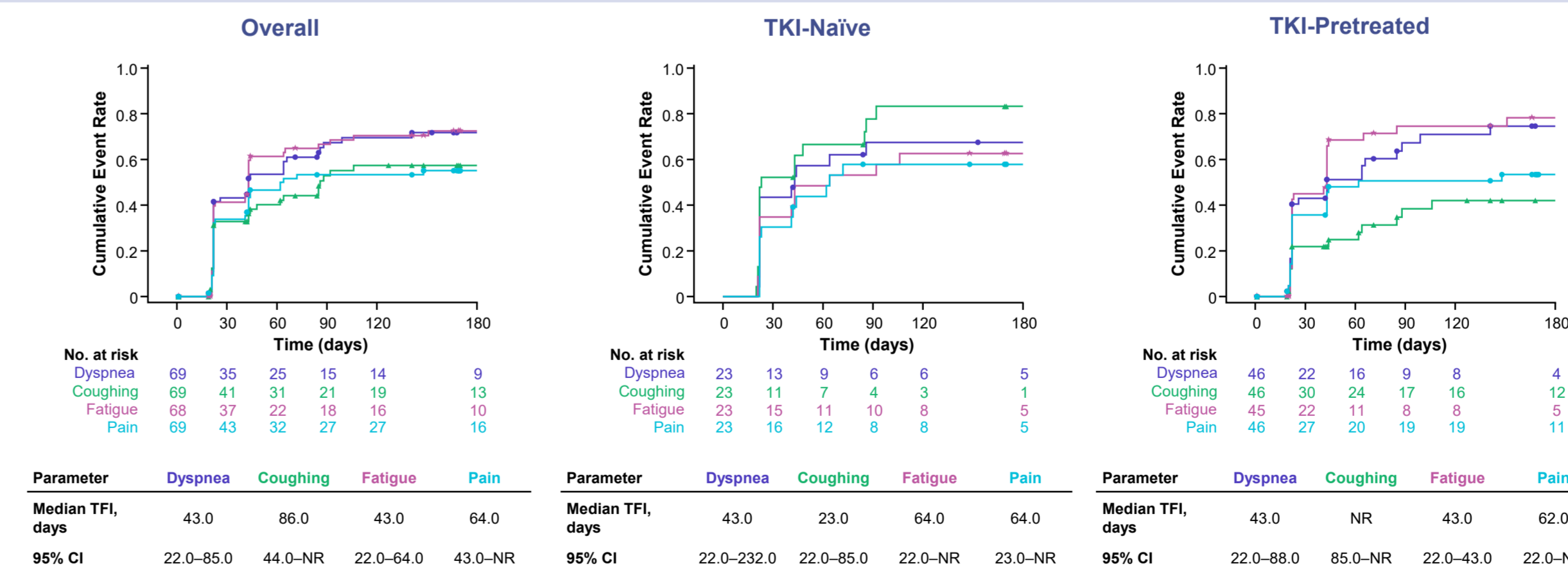


Figure 4. QLQ-C30 and QLQ-LC13: Cumulative Incidence of Improvement for Selected Symptom Items



- Common disease-related symptoms, including pain and fatigue (QLQ-C30), and dyspnea and coughing (QLQ-LC13), showed consistent clinically meaningful improvement through ~8 months of treatment, with a median TFI of 1–3 months across all groups (Figure 4)
  - Dyspnea and fatigue improved with a median TFI of 43 days (~6 weeks) in the overall population
  - Coughing improved rapidly in TKI-na  ve patients within the first treatment cycle, with a median TFI of 23 days

## Conclusions

- Taltrectinib was associated with improved or stable HRQoL in the majority of patients, including in the overall population as well as in TKI-na  ve and TKI-pretreated subgroups
- Taltrectinib resulted in rapid relief of disease-related symptoms, which is consistent with previously published clinical response data
- Signals of cognitive function decline have been observed among other ROS1 TKIs<sup>9–11</sup>
- In contrast, taltrectinib demonstrated preservation of cognitive function throughout long-term treatment in TRUST-II
- Together with previously published data for taltrectinib demonstrating robust and durable efficacy and a manageable safety profile, these data further support the use of taltrectinib in TKI-na  ve and TKI-pretreated patients with advanced ROS1+ NSCLC<sup>4,5</sup>