Content Validity of FACT-GP5 to Assess Treatment Tolerability in Participants with Progressive, Advanced, Kinase Inhibitornaïve, RET-mutant Medullary Thyroid Cancer: Qualitative Interview Sub-study of the LIBRETTO-531 Trial Altman D¹, Choi J¹, Elisei R², Jarzab B³, Wadsley J⁴, Gilligan AM⁵, Maeda P⁵, Bourke S⁵, Payakachat N⁵

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Background

- LIBRETTO-531 (NCT04211337) is a randomized, open-label, Phase 3 trial comparing selpercatinib to physician's choice of cabozantinib or vandetanib in participants with progressive, advanced, kinase inhibitor-naïve, RET-mutant medullary thyroid cancer.1
- Comparative tolerability, measured as proportion of time on-treatment with "high side effect (SE) bother", as assessed by the Functional Assessment of Cancer Therapy (FACT) -General Physical Item 5 (GP5) was a key secondary alpha-controlled patient-reported outcome in LIBRETTO-531.1
- Draft FDA guidance on "Core Patient-Reported Outcomes in Cancer Clinical Trials" identifies the GP5 as a possible potential summary measure of overall SE impact.²
- However, additional evidence supporting the GP5 as a fit-for-purpose measure of patientreported tolerability in the context of the LIBRETTO-531 study is needed.

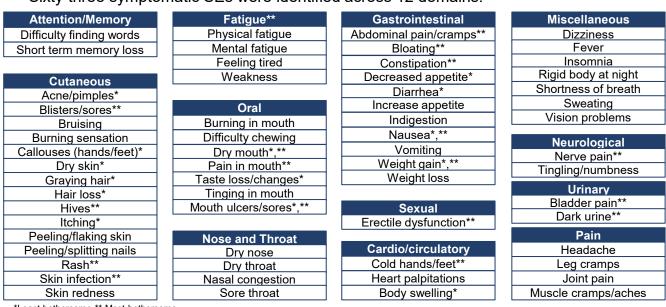
Objectives

- participants' perception of bother, burden, and tolerability, and
- clarity of the GP5 and association of GP5 response options with "high SE bother."

Concept elicitation

Participant Reported Symptomatic SEs

Sixty-three symptomatic SEs were identified across 12 domains.



Themes Identified in Association with Side-effect Bother, Burden and Tolerability

Themes	Participants (n)
Bother	
Interfere with daily activities	29
Cause physical discomfort	26
Increase cognitive effort and cause annoyance/ inconvenience	13
Cause additional mental health problems/negative emotions	10
Treatment benefits weighed against the harms of SEs to assess extent of SE bother	5
Affect appearance in a stigmatizing way	4
Burden	
Burden implies a greater degree of SE severity or interference in daily activities in general	31
Interfere with daily activities more than bothersome SEs	18
Burdensome SEs are	
More severe	14
Longer duration	7
More frequent	4
Burdensome SEs cause a greater cognitive effort and/or have a greater and more negative impact on mental health or emotional well-being than bothersome SEs	8
Tolerability	
Tolerability is related to bother and/or burden	31
The efficacy of the treatment is considered when determining how tolerable its SEs are	20
SEs are tolerable if they don't significantly interfere with daily activities	18
SEs are tolerable if they are bearable	18
Treatment benefits weighed against the harms of SEs to assess extent of SE tolerability	16
SEs are tolerable if their severity is none to mild	8
The SEs and clinical efficacy of other treatments are compared to SEs and clinical efficacy of one's own treatment when determining how tolerable its SEs are	6

- No new information was identified (saturation) after completing analysis of the second group (10 transcripts)
- Most participants defined SE bother based on the symptoms and impacts of SEs.
- Participants defined SE burden as more severe, had longer duration, more frequent, required greater cognitive effort and greater negative impact on well-being compared with SE bother.

Study Design and Analysis

A qualitative, non-interventional, cross-sectional study with participants from LIBRETTO-531 study receiving treatment and with no disease progression Semi-structured 1:1 interviews (30–60mins) in the participant's native language

Concept elicitation Cognitive debriefing

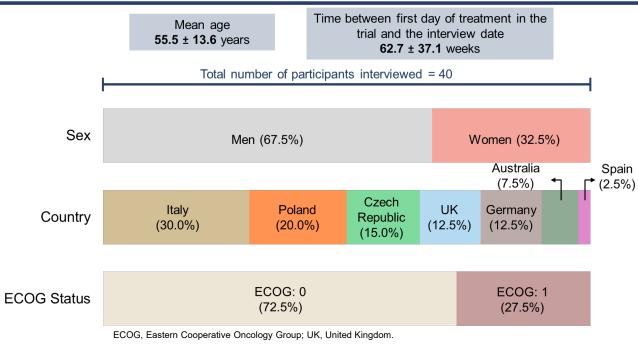
Participants provided feedback on Participants described their the GP5, including item clarity, the experience of side effects recall period, their interpretation, since initiating study treatment The interviewer probed further and perspectives on the difference for details, when required. between response options.

The GP5 Item "I am bothered by side-effects of treatment' 5-item Likert scale Not at all A little bit 2 Somewhat Quite a bit Very much Recall period: 7 days

Analysis

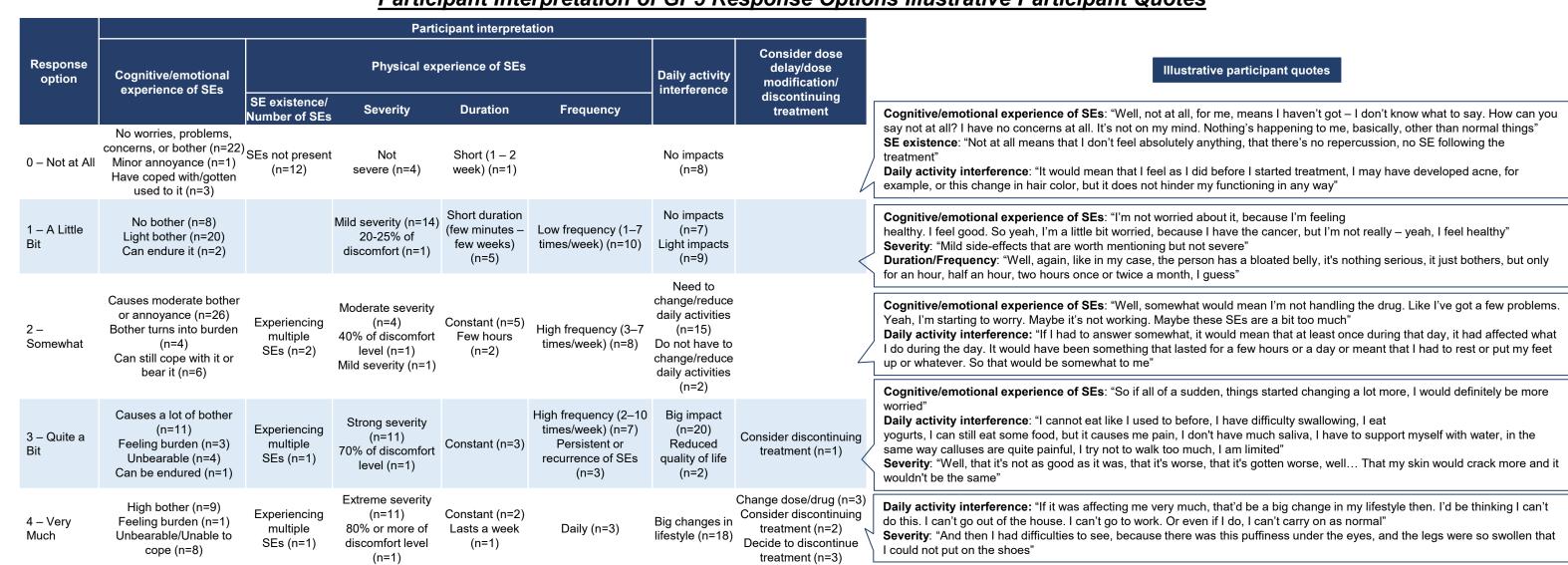
- Interview transcripts were thematically analyzed with inductive and deductive coding using ATLAS.ti.
- All transcripts were analyzed in groups of 5. Saturation analysis was reached once no new information or theme occurred

Demographics and Clinical Characteristics

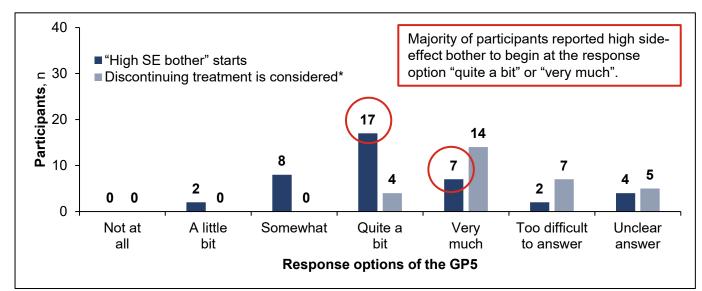


Cognitive debriefing

Participant Interpretation of GP5 Response Options Illustrative Participant Quotes



GP5 Response Options Participants Associated with **High SE Bother and Treatment Discontinuation**



*Question was not asked to 10 participants due to cross-cultural translation challenges, moderator error, or based on moderator discretion due to the sensitive

Participant's Understanding of GP5, Retrieval of Information, and Feedback for Response Options

- 40/40 participants reported that the GP5 content was clear and that nothing additional would be needed to make it easier to understand
- 38/40 participants reported that it was easy to recall and retrieve information to answer the GP5.
- 37/40 participants reported the response options were appropriate.

Limitations

- Many participants (n=36) were interviewed after being on treatment for ≥1 year, while some (n=4) were interviewed 10–14 weeks after treatment initiation. Hence, participants' perception could be associated with recall bias.
- Participants answered questions on dose escalation and treatment discontinuation hypothetically since not all participants changed dose or discontinued treatment. Hence, results are subject to hypothetical bias as participants might act differently during the time of actual dose escalation or treatment discontinuation.

Conclusions

- Overall, findings demonstrated content validity of the GP5 item for assessing the tolerability and the definition of "high SE bother".
- This qualitative evidence supports the GP5 item as a fit-for-purpose measure for patient-reported tolerability in LIBRETTO-531.

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