



Health-related quality of life impact in a randomised phase III study of the combination of dabrafenib and trametinib versus dabrafenib monotherapy in patients with *BRAF* V600 metastatic melanoma



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Abstract Aim: To present the impact of treatments on health-related quality of life (HRQoL) from the double-blind, randomised phase III COMBI-d study that investigated the combination of dabrafenib and trametinib versus dabrafenib monotherapy in patients with *BRAF* V600E/K-mutant metastatic melanoma. COMBI-d showed significantly prolonged progression-free survival for the combination.

Methods: HRQoL was evaluated using the European Organisation for Research and Treatment of Cancer Quality of Life Questionnaire-C30, a generic cancer questionnaire (completed at baseline, during study treatment, at progression and post progression) assessing various dimensions (global health/QoL, functional status, and symptom impact). A mixed-model, repeated-measures analyses of covariance evaluated differences between arms.

Results: Questionnaire completion rates were >95% at baseline, >85% to week 40 and >70% at disease progression. Baseline scores across both arms were comparable for all dimensions. Global health dimension scores were significantly better at weeks 8, 16 and 24 for patients receiving the combination during treatment and at progression. The majority of functional dimension scores (physical, social, role, emotional and cognitive functioning) trended in favour of the combination. Pain scores were significantly improved and clinically meaningful (6–13 point difference) for patients receiving the combination for all follow-up assessments versus those receiving dabrafenib monotherapy. For other symptom dimensions (nausea and vomiting, diarrhoea, dyspnoea, and constipation), scores trended in favour of dabrafenib monotherapy.

Conclusion: This analysis demonstrates that the combination of dabrafenib and trametinib provides better preservation of HRQoL and pain improvements versus dabrafenib monotherapy while also delaying progression. (Clinicaltrials.gov registration number: NCT01584648). © 2015 Elsevier Ltd. All rights reserved.

1. Introduction

The treatment landscape for metastatic melanoma has changed significantly since 2011 following the approval by the US Food and Drug Administration of three immunologic agents and three small molecules for the treatment of metastatic melanoma. The former include inhibitors of CTLA4 (ipilimumab) and PD-1 on T cells (pembrolizumab and nivolumab) and the latter include the *BRAF* inhibitors vemurafenib and dabrafenib and the MEK inhibitor trametinib for patients with *BRAF* V600-mutant melanoma.

Despite the improved response rates, progression-free survival (PFS) and overall survival (OS) in patients treated with these recently approved agents compared with dacarbazine chemotherapy [1–6], severe immune-mediated toxicities and the lack of a validated biomarker for patient selection may restrict the use of ipilimumab. The onset of resistance limits the efficacy of single-agent *BRAF* inhibitors [7], with approximately 50% of

patients developing resistance within 6–7 months of treatment initiation [8,9].

The combination of *BRAF* and MEK inhibition delayed resistance and decreased the incidence of cutaneous hyperproliferative lesions compared with single-agent *BRAF* inhibition in preclinical models, and hence the combination was tested in phase I, II and III studies in patients with *BRAF* V600 mutation-positive metastatic melanoma [6,10–12]. As a result, the combination of dabrafenib and trametinib received accelerated approval in the United States in 2014 based on the results of a randomised phase of an open-label phase I/II study comparing the combination with dabrafenib monotherapy in patients with *BRAF* V600-positive metastatic melanoma [6]. A double-blind, randomised, phase III study comparing the combination with dabrafenib monotherapy as first-line therapy in patients who had unresectable stage IIIC or stage IV melanoma with *BRAF* V600E or V600K mutations (COMBI-d) [10] demonstrated a statistically significant improvement in

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