SEVABERTINIB



INTRODUCTION

Sevabertinib (BAY 2927088) is an oral tyrosine kinase inhibitor that potently inhibits mutant HER2 and is being developed for the treatment of adult patients with advanced NSCLC harboring HER2-activating mutations^{1,2}



OBJECTIVE

To evaluate the effect of food or the acid-reducing agent esomeprazole on the PK of sevabertinib in healthy participants



METHODS

An open-label, randomized, crossover study in healthy participants was conducted from March 29 to June 11, 2024

Over 14 days, participants received single 20 mg doses of sevabertinib under one of the following interventions: A) a fasted state, B) following a light, low-fat meal, or C) following a high-fat, high-calorie meal

Esomeprazole 40 mg was administered for 5 days with a single dose of sevabertinib on Day 4 following a light meal. Participants therefore received four 20 mg doses of sevabertinib

Safety and tolerability were closely monitored throughout the study

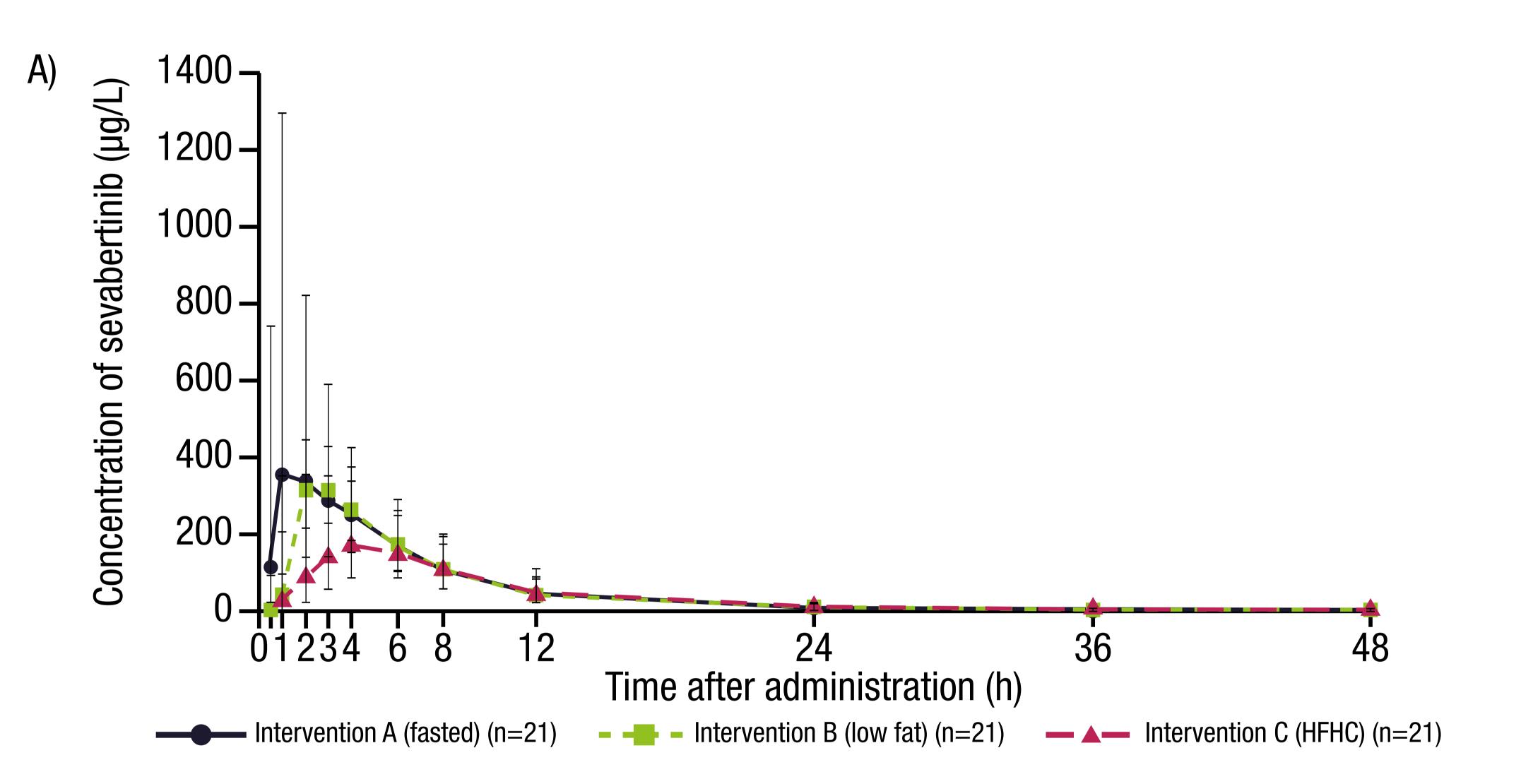
THE EFFECTS OF FOOD AND ESOMEPRAZOLE ON THE PHARMACOKINETICS OF SEVABERTINIB

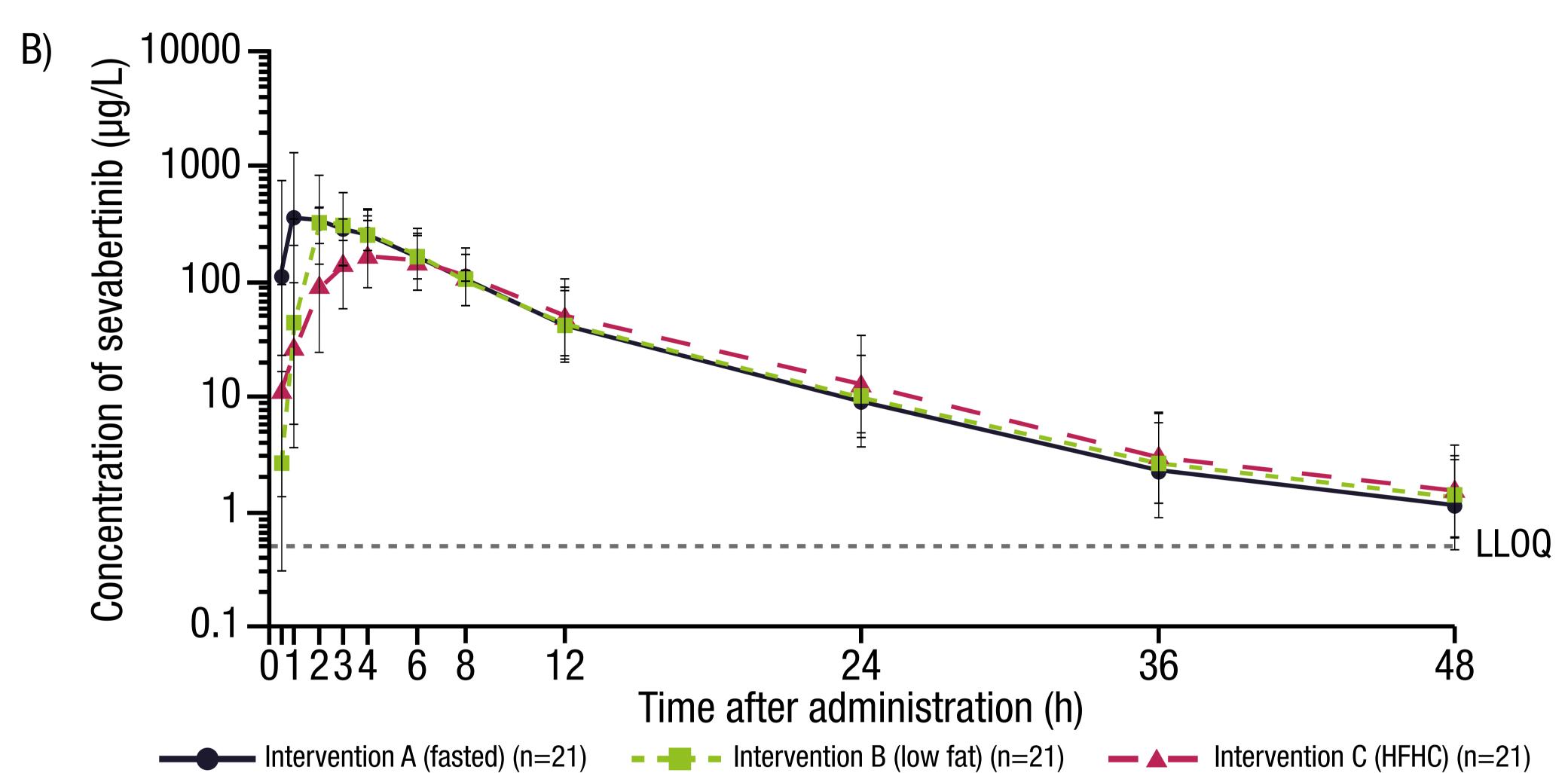
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Mean AUC and C_{max} were reduced by 16% and 28%, respectively, when administered with a low-fat meal compared with a fasted state

Linear (A) and semi-logarithmic (B) plasma concentration-time profiles of sevabertinib after a 20 mg single-dose administration in fasted and fed conditions

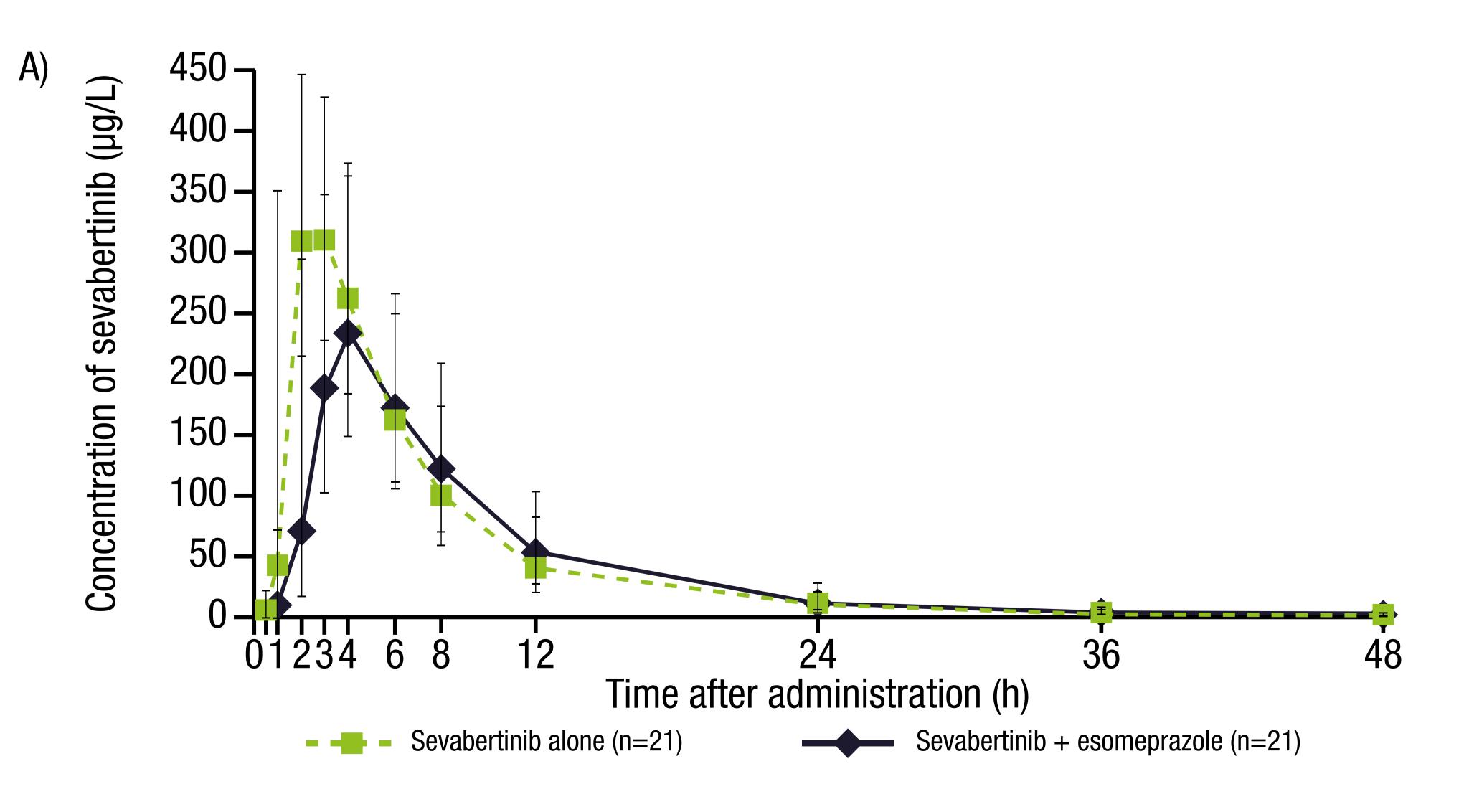


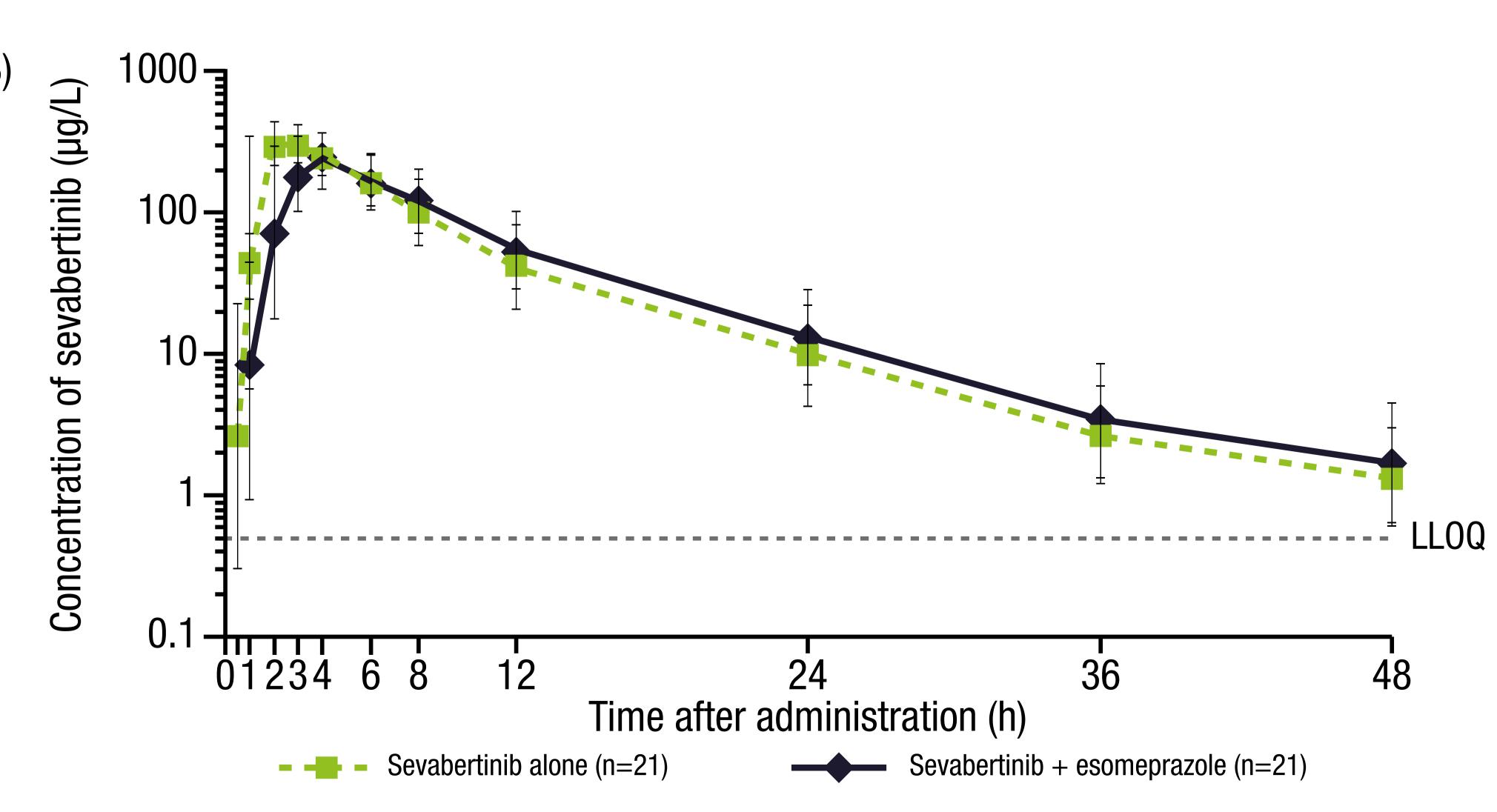


AUC, area under the curve; C_{max} maximum observed drug concentration; LLOQ, lower limit of quantification; h, hours; HFHC, high-fat, high-calorie.

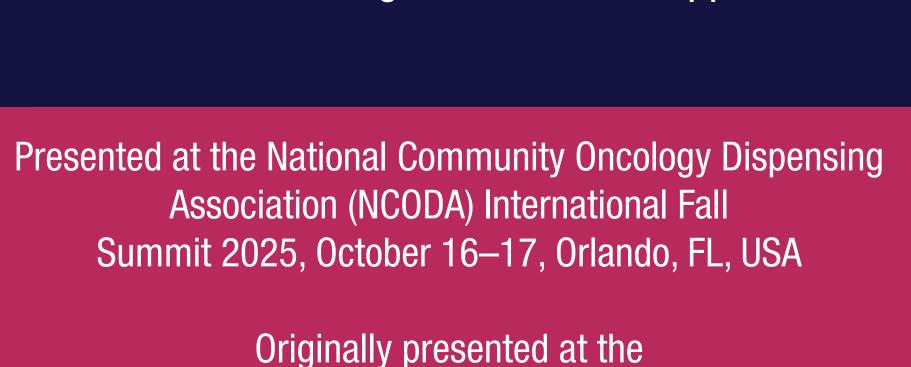
Co-administration of esomeprazole did not affect mean AUC of sevabertinib and decreased mean C_{max} of sevabertinib by 29% compared with sevabertinib alone

Linear (A) and semi-logarithmic (B) plasma concentration-time profiles of sevabertinib after a 20 mg single-dose administration alone and co-administered with esomeprazole





Data shown as geometric mean ± standard deviation. Sevabertinib alone was administered under intervention B (low fat). AUC, area under the curve; C_{max} maximum observed drug concentration; LLOQ, lower limit of quantification; h, hours.



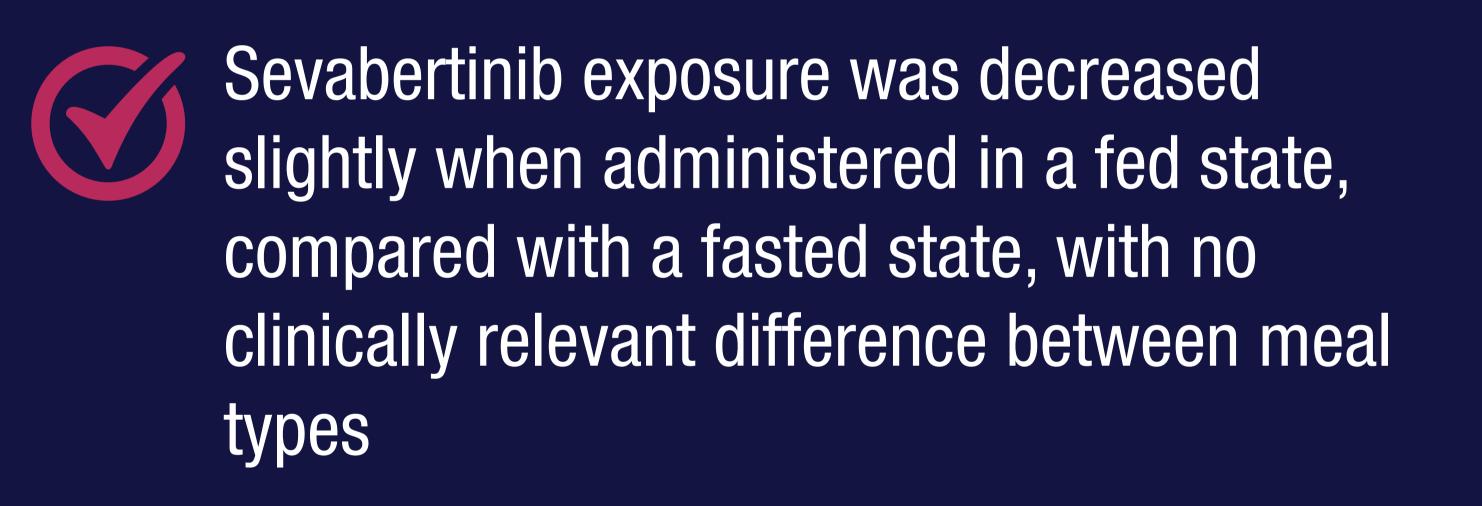
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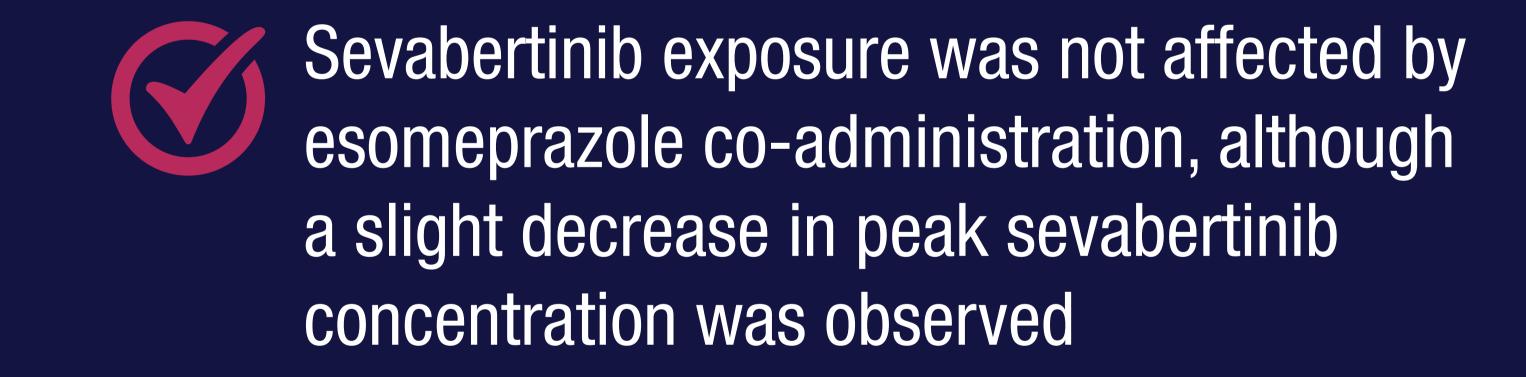
(ASCPT) Annual Meeting 2025, May 28–31, Washington, D.C, USA

References: 1. Siegel F et al. Cancer Res 2023;83(Suppl 7):1098-1099; 2. Siegel F et al. EJC Supplements 2022;174(Suppl 1):S9-S10. This study was supported by Bayer AG. Medical writing services were provided by Rachael Powis, PhD, of Adelphi Communications Ltd (Bollington, UK), funded by Bayer, in accordance with Good Publication Practice 2022 guidelines.



CONCLUSIONS





Sevabertinib was safe and well tolerated in healthy participants

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