

Single-Agent Divarasisib in Patients With *KRAS* G12C–Positive Non–Small Cell Lung Cancer: Long-Term Follow-Up of a Phase I Study

Adrian G. Sacher, MD¹ ; Wilson H. Miller Jr, MD, PhD²; Manish R. Patel, MD³ ; Luis Paz-Ares, MD, PhD⁴; Armando Santoro, MD⁵ ; Myung-Ju Ahn, MD, PhD⁶ ; Rafal Dziadziuszko, MD, PhD⁷ ; Pierre Freres, MD⁸; Jia Luo, MD⁹ ; Samantha Bowyer, MB, BCh, MPH¹⁰; Jayesh Desai, MBBS, FRACP¹¹ ; Ben Markman, MBBS (Hons), FRACP¹² ; Maria De Miguel, MD, PhD, MBA¹³ ; Sanjeev Deva, MB ChB, FRACP¹⁴; Alejandro Falcon, MD, PhD¹⁵ ; Guzman Alonso, MD¹⁶; João Daniel Guedes, MD¹⁷; Se Hyun Kim, MD¹⁸ ; Matthew G. Krebs, MB, ChB, PhD¹⁹ ; Scott A. Laurie, MD²⁰ ; Erminia Massarelli, MD, PhD, MS²¹ ; Laura Medina, MD²²; Hans Prenen, MD, PhD²³ ; Alessio Amatu, MD²⁴ ; Marloes Van Dongen, MD, PhD²⁵; Yoonha Choi, PhD²⁶ ; Xuefeng Hou, PhD²⁶ ; Ting Qi, MS²⁶ ; Mark T. Lin, MD, PhD²⁶; Kalpesh Koli, MBBS²⁶; Mariah C. Mayo, PharmD²⁶; Kenneth K. Yau, MS²⁷ ; Stephanie Royer-Joo, Eng²⁶ ; Julie Chang, PhD²⁶ ; Tomi Jun, MD²⁶ ; Neekesh V. Dharia, MD, PhD²⁶ ; Jennifer L. Schutzman, MD, PhD²⁶ ; and Patricia Lorusso, DO²⁸; on behalf of the GO42144 Investigator Study group

DOI <https://doi.org/10.1200/JCO-25-00040>

ABSTRACT

Divarasisib (GDC-6036), an oral, highly potent and selective next-generation *KRAS* G12C inhibitor, has demonstrated a manageable safety profile and promising antitumor activity in patients with advanced *KRAS* G12C–positive non–small cell lung cancer (NSCLC). Here, we report long-term (≥ 1 year) follow-up of single-agent divarasisib from the ongoing, open-label, and multicenter phase I study (ClinicalTrials.gov identifier: [NCT04449874](https://clinicaltrials.gov/ct2/show/study?term=NCT04449874)). The primary objective was safety, and the other objectives included preliminary antitumor activity. Overall, 65 patients with advanced *KRAS* G12C–positive NSCLC received single-agent oral divarasisib 50–400 mg once daily and 31 patients (48%) were treated beyond 1 year. Divarasisib continued to be well tolerated, and the safety profile beyond 1 year was consistent with the overall safety profile. In patients with measurable disease at baseline across all dose levels ($n = 63$), the confirmed objective response rate was 55.6% (95% CI, 42.5 to 68.1), and the median duration of response was 18.0 months (95% CI, 11.1 to 24.9). The median progression-free survival was 13.8 months (95% CI, 9.8 to 25.4) in the overall population ($N = 65$) and 15.3 months (95% CI, 12.3 to 26.1) among patients assigned to the 400-mg dose level ($n = 44$). With extended follow-up, divarasisib demonstrated long-term safety and antitumor activity in patients with advanced *KRAS* G12C–positive NSCLC.

ACCOMPANYING CONTENT

Appendix

Protocol

Accepted May 9, 2025

Published July 9, 2025

J Clin Oncol 43:3249-3253

© 2025 by American Society of Clinical Oncology



View Online Article

Creative Commons Attribution
Non-Commercial No Derivatives
4.0 License

INTRODUCTION

The Kirsten rat sarcoma viral oncogene homolog (*KRAS*) G12C mutation is one of the most prevalent *KRAS* mutations in cancer and present in approximately 12%–14% of patients with non–small cell lung cancer (NSCLC).^{1,2} Although current approved *KRAS* G12C inhibitors, sotorasib and adagrasib, have shown antitumor activity in patients with *KRAS* G12C–positive NSCLC, there remains a need for therapies with an improved clinical benefit and safety profile.^{3–7}

Divarasisib (GDC-6036) is an oral, highly potent and selective next-generation *KRAS* G12C inhibitor that locks the protein in its inactive state. Compared with sotorasib and adagrasib, divarasisib has been shown to be 5–20 times as potent and up to 50 times as selective in vitro.⁸ In the initial report of the phase I study of patients with *KRAS* G12C–positive NSCLC, single-agent divarasisib 400 mg once daily demonstrated a confirmed

objective response rate (ORR) of 56.4% (95% CI, 39.6 to 72.2), a median duration of response (DOR) of 11.9 months (95% CI, 6.9 to could not be estimated), and a median progression-free survival (PFS) of 13.7 months (95% CI, 8.1 to could not be estimated) while maintaining a tolerable safety profile.⁹ Here, we report the long-term (≥ 1 year) follow-up of single-agent divarasisib in patients with NSCLC.

METHODS

Study Design and Patients

We report an update from the previously described ongoing, open-label, dose-escalation, dose-expansion, and multicenter phase I study (ClinicalTrials.gov identifier: [NCT04449874](https://clinicaltrials.gov/ct2/show/study?term=NCT04449874)).⁹ Patients 18 years or older with advanced *KRAS* G12C–positive NSCLC were enrolled and received single-agent oral divarasisib 50–400 mg once daily until

TABLE 1. Patient Demographics and Disease Characteristics

Characteristic	NSCLC (N = 65)
Age, years, median (range)	66 (43-82)
Sex, female, No. (%)	37 (57)
Race, No. (%)	
White	57 (88)
Asian	4 (6)
Unknown	3 (5)
Black or African American	1 (2)
ECOG, No. (%)	
0	24 (37)
1	41 (63)
PD-L1 TPS score (n = 53), No. (%)	
<1%	18 (34)
1%-49%	13 (24.5)
≥50%	21 (40)
Not available	1 (2)
No. of previous lines of systemic therapy, No. (%)	
0	1 (2)
1	25 (39)
2	20 (31)
3+	19 (29)
Previous platinum chemotherapy, No. (%)	57 (88)
Previous PD-1/PD-L1 inhibitor, No. (%)	57 (88)
Time on divarasib treatment, months, median (range)	11 (0-40)

Abbreviations: ECOG, Eastern Cooperative Oncology Group; NSCLC, non-small cell lung cancer; TPS, tumor proportion score.

disease progression or intolerability. The protocol was approved by local institutional review boards and regulatory authorities before study start, and all patients provided written informed consent before enrollment.

Objectives and Assessments

The primary objective of the study was safety, as assessed by the incidence and severity of adverse events (National Cancer Institute—Common Terminology Criteria for Adverse Events v5), changes in laboratory test results, and changes in vital signs and electrocardiograms. New-onset (occurring after 1 year of treatment) treatment-related adverse events (TRAEs) were assessed as an exploratory analysis. Other objectives include preliminary antitumor activity (ORR, DOR, and PFS) per RECIST v1.1. Additional details about objectives, assessments, and statistical methods are included in [Appendix 1](#) (online-only).

RESULTS

Patient Disposition

As of the clinical cutoff date (April 01, 2024), 65 patients with NSCLC were enrolled (400 mg, n = 44; 200 mg, n = 10;

100 mg, n = 5; 50 mg, n = 6) and 17 patients (26%) remained on treatment. Thirty-one patients (48%) were treated beyond 1 year and the median time on treatment was 11 months (range, 0–40). Patient demographics and disease characteristics are summarized in [Table 1](#).

Safety

Overall, 61 patients (94%) experienced at least one TRAE, with 11 patients (17%) experiencing a grade 3 to 4 TRAE; there were no grade 5 TRAEs ([Table 2](#)). No dose-limiting toxicities were reported. The most common TRAEs were nausea, vomiting, and diarrhea. The majority of TRAEs (95.4%) were grade 1 or 2. TRAEs led to dose modifications (interruption/reduction/discontinuation) in 25 patients (38.5%), including dose reductions in 15 patients (23.1%) and discontinuation in three patients (4.6%; grade 4 anaphylactic reaction, grade 2 diarrhea, and grade 2 upper abdominal pain; [Appendix Table A1](#), online only).

Among the 31 patients who continued single-agent divarasib beyond 1 year, 17 (54.8%) experienced a new-onset TRAE, with no patients experiencing a new-onset grade 3 to 5 TRAE ([Table 2](#)). The most common new-onset TRAEs were amylase increase (n = 4), diarrhea

TABLE 2. TRAE Summary

TRAE	Any Grade TRAEs	Grade 3 to 5 TRAEs
TRAEs occurring in ≥10% of all patients (N = 65)		
Patients with at least one TRAE, No. (%)	61 (93.8)	11 (16.9)
Nausea	51 (78.5)	1 (1.5)
Vomiting	43 (66.2)	0
Diarrhea	40 (61.5)	2 (3.1)
Fatigue	16 (24.6)	1 (1.5)
Decreased appetite	15 (23.1)	0
Amylase increased	11 (16.9)	0
ALT increased	10 (15.4)	4 (6.2)
Lipase increased	10 (15.4)	2 (3.1)
AST increased	9 (13.8)	3 (4.6)
New-onset ^a TRAEs occurring in ≥5% of patients who continued single-agent divarasib beyond 1 year (n = 31)		
Patients with at least one TRAE, No. (%)	17 (54.8)	0
Amylase increased	4 (12.9)	0
Diarrhea	3 (9.7)	0
Lipase increased	3 (9.7)	0
Anemia	2 (6.5)	0
Nausea	2 (6.5)	0
Neutropenia	2 (6.5)	0
Vomiting	2 (6.5)	0

Abbreviation: TRAEs, treatment-related adverse events.

^aTRAEs occurring after 1 year of treatment.

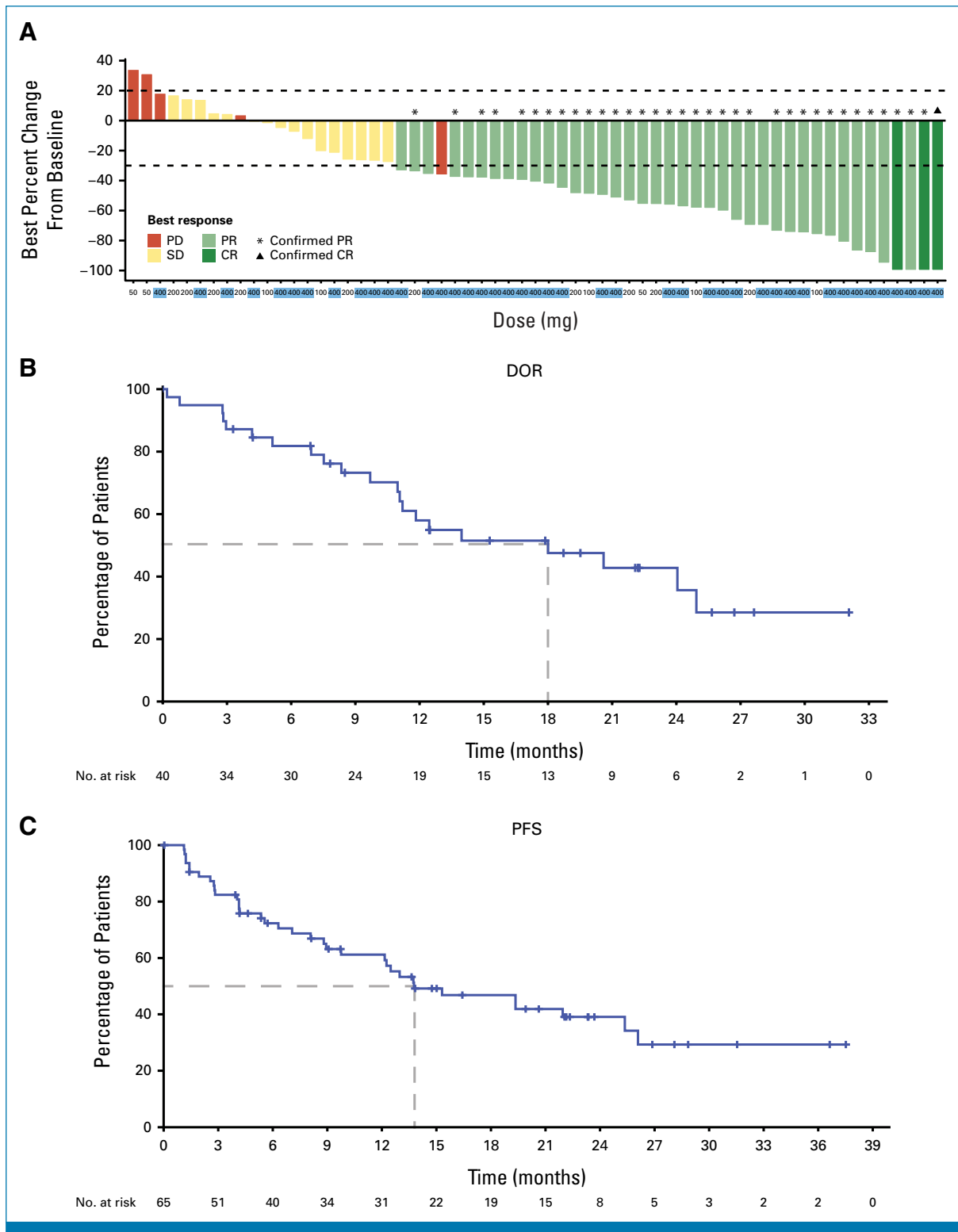


FIG 1. Preliminary antitumor activity in patients with NSCLC. (A) Waterfall plot of the best percentage change from baseline in the tumor burden (defined as the sum of the longest diameters of all target lesions) in the 63 patients with NSCLC who had measurable disease at baseline and available postbaseline tumor-assessment data. Of the patients with a best response of CR (dark green), one had a confirmed best response of CR and two had a confirmed best response of PR. Patients receiving divarasib 400 mg are highlighted in blue. (B) Kaplan-Meier plot for DOR in the 40 patients with NSCLC who had a CR or PR. (C) Kaplan-Meier plot for PFS among all 65 patients with NSCLC. PFS was defined as the time from first treatment to the first occurrence of disease progression or death from any cause during the study (whichever occurred first). CR, complete response; DOR, duration of response; NSCLC, non-small cell lung cancer; PD, progressive disease; PFS, progression-free survival; PR, partial response; SD, stable disease.

(n = 3), and lipase increase (n = 3). No new-onset TRAEs led to dose reductions or divarasib discontinuation (Appendix Table A2).

Preliminary Antitumor Activity

Across all evaluated dose levels, the confirmed ORR was 55.6% (95% CI, 42.5 to 68.1) among patients with measurable disease at baseline (n = 63). One patient (1.6%) had a complete response, 34 (54.0%) had a partial response, 21 (33.3%) had stable disease, and five (7.9%) had progressive disease as their best response (Fig 1A). The median time to response was 1.3 months (range, 1.2–28.8) and the median DOR (Fig 1B) was 18.0 months (95% CI, 11.1 to 24.9). The median PFS (Fig 1C) was 13.8 months (95% CI, 9.8 to 25.4) in the overall population (N = 65). Exploratory analysis of activity by PD-L1 status is shown in Appendix Table A3.

Among the patients with measurable disease at baseline assigned to divarasib 400 mg (n = 44), the confirmed ORR was 59.1% (95% CI, 43.3 to 73.7) and the median DOR was 14.0 months (95% CI, 11.1 to 24.9). The median PFS was 15.3 months (95% CI, 12.3 to 26.1).

DISCUSSION

With additional follow-up, single-agent divarasib continued to demonstrate encouraging radiographic response rates and durable clinical activity while maintaining an acceptable safety profile with no new safety signals.

Overall, there was a low rate of grade ≥ 3 TRAEs with divarasib in this study, including an approximately 5% rate of hepatic events (ALT or AST increased), and the safety profile for

patients treated beyond 1 year was consistent with the overall safety profile.

In this study, divarasib 400 mg once daily demonstrated a confirmed ORR of 59.1% and a median PFS of 15.3 months, which are numerically higher than those reported for sotorasib and adagrasib in their respective early-phase studies. Sotorasib (960 mg once daily) reported an ORR of 41% and a median PFS of 6.3 months in a pooled 2-year analysis of the phase I/II CodeBreak 100 study.¹⁰ Adagrasib (600 mg twice a day) reported an ORR of 43% and a median PFS of 6.9 months in a pooled 2-year analysis of the phase I/II KRYSTAL-1 study.¹¹ Given the promising ORR and median PFS of divarasib, the phase III randomized Krascendo 1 study (ClinicalTrials.gov identifier: [NCT06497556](#)) is currently evaluating the efficacy and safety of divarasib versus sotorasib and adagrasib in previously treated advanced or metastatic KRAS G12C-positive NSCLC.

The tolerability and potent activity of divarasib presented here render it an attractive partner for PD-L1/PD-1 inhibitors,¹² in which combinations with other KRAS G12C inhibitors have been challenged by toxicity.^{13,14} Additionally, initial safety results from the divarasib and atezolizumab (PD-L1 inhibitor) combination arm of this study have yielded a manageable safety profile of divarasib in combination with a PD-L1 inhibitor.¹⁵ Divarasib is also being investigated in combination with pembrolizumab (PD-1 inhibitor) with or without chemotherapy in patients with previously untreated advanced or metastatic KRAS G12C-positive NSCLC in the phase Ib/II Krascendo 170 study (ClinicalTrials.gov identifier: [NCT05789082](#)).

In conclusion, divarasib demonstrated long-term safety and antitumor activity in patients with advanced KRAS G12C-positive NSCLC, with promising characteristics for combination therapy to overcome mechanisms of resistance.

AFFILIATIONS

¹Princess Margaret Cancer Centre, University Health Network, Toronto, Canada

²Lady Davis Institute and Segal Cancer Center, Jewish General Hospital, McGill University, Montreal, Canada

³Florida Cancer Specialists/Sarah Cannon Research Institute, Sarasota, FL

⁴Hospital Universitario 12 de Octubre, Madrid, Spain

⁵Department of Biomedical Sciences, Humanitas University, IRCCS Humanitas Research Hospital-Humanitas Cancer Center, Rozzano, Milan, Italy

⁶Samsung Medical Center, Sungkyunkwan University School of Medicine, Seoul, South Korea

⁷Medical University of Gdańsk, Gdańsk, Poland

⁸University Hospital of Liege, Liege, Belgium

⁹Dana-Farber Cancer Institute, Harvard Medical School and Brigham and Women's Hospital, Boston, MA

¹⁰Linear Clinical Research Ltd, Perth, Australia

¹¹Peter MacCallum Cancer Centre and Sir Peter MacCallum Department of Oncology, The University of Melbourne, Melbourne, Australia

¹²Alfred Health and Monash University, Melbourne, Australia

¹³START-Madrid CIOCC HM Sanchinarro, Madrid, Spain

¹⁴Auckland City Hospital, Auckland, New Zealand

¹⁵Hospital Universitario Virgen del Rocío, Sevilla, Spain

¹⁶Hospital Universitario Vall d'Hebrón, Barcelona, Spain

¹⁷Hospital de Base de São José do Rio Preto, São José do Rio Preto, Brazil

¹⁸Seoul National University Bundang Hospital, Seongnam, South Korea

¹⁹The Christie NHS Foundation Trust and Division of Cancer Sciences, The University of Manchester, Manchester, United Kingdom

²⁰Ottawa Hospital Research Institute, Ottawa, ON, Canada

²¹City of Hope—Comprehensive Cancer Center, Duarte, CA

²²Oncology Department, Hospital Virgen de la Victoria, Málaga, Spain

²³University Hospital Antwerp, Edegem, Belgium

²⁴Grande Ospedale Metropolitano Niguarda, Milan, Italy

²⁵The Netherlands Cancer Institute, Amsterdam, the Netherlands

²⁶Genentech, Inc, South San Francisco, CA

²⁷Hoffmann-La Roche Limited, Mississauga, Canada

²⁸Yale Cancer Center, Yale University, New Haven, CT

CORRESPONDING AUTHOR

Adrian G. Sacher, MD; e-mail: adrian.sacher@uhn.ca.

PRIOR PRESENTATION

Presented in part at the 2024 World Conference on Lung Cancer, San Diego, CA, Sep 7-10, 2024 (Presentation OA14.06).

SUPPORT

Supported by Genentech, Inc.

CLINICAL TRIAL INFORMATION

NCT04449874

AUTHORS' DISCLOSURES OF POTENTIAL CONFLICTS OF INTEREST

Disclosures provided by the authors are available with this article at DOI <https://doi.org/10.1200/JCO-25-00040>.

DATA SHARING STATEMENT

For eligible studies qualified researchers may request access to individual patient level clinical data through a data request platform. At the time of writing this request platform is Vivli: <https://vivli.org/ourmember/roche/>. For up to date details on Roche's Global Policy on the Sharing of Clinical Information and how to request access to related clinical study documents, see here: <https://www.roche.com/innovation/process/clinical-trials/data-sharing>. Anonymized records for individual patients across more than one data source external to Roche can not, and should not, be linked due to a potential increase in risk of patient re-identification.

AUTHOR CONTRIBUTIONS

Conception and design: Adrian G. Sacher, Armando Santoro, Jayesh Desai, Mark T. Lin, Stephanie Royer-Joo, Neekesh V. Dharja, Jennifer L. Schutzman, Patricia Lorusso

Administrative support: Se Hyun Kim, Kenneth K. Yau, Patricia Lorusso

Provision of study materials or patients: Wilson H. Miller Jr, Luis Paz-Ares, Myung-Ju Ahn, Jia Luo, Samantha Bowyer, Jayesh Desai, Ben

Markman, João Daniel Guedes, Se Hyun Kim, Matthew G. Krebs, Erminia Massarelli, Hans Prenen, Alessio Amatu, Marloes Van Dongen, Patricia Lorusso

Collection and assembly of data: Adrian G. Sacher, Wilson H. Miller Jr, Manish R. Patel, Luis Paz-Ares, Rafal Dziadziuszko, Jia Luo, Samantha Bowyer, Jayesh Desai, Ben Markman, Maria De Miguel, Sanjeev Deva, Guzman Alonso, João Daniel Guedes, Se Hyun Kim, Matthew G. Krebs, Scott A. Laurie, Erminia Massarelli, Laura Medina, Hans Prenen, Marloes Van Dongen, Xuefeng Hou, Mark T. Lin, Stephanie Royer-Joo, Julie Chang, Tomi Jun, Neekesh V. Dharja, Jennifer L. Schutzman, Patricia Lorusso

Data analysis and interpretation: Adrian G. Sacher, Wilson H. Miller Jr, Manish R. Patel, Luis Paz-Ares, Armando Santoro, Myung-Ju Ahn, Rafal Dziadziuszko, Pierre Freres, Samantha Bowyer, Jayesh Desai, Ben Markman, Maria De Miguel, Alejandro Falcon, Guzman Alonso, Se Hyun Kim, Matthew G. Krebs, Hans Prenen, Alessio Amatu, Yoonha Choi, Xuefeng Hou, Ting Qi, Mark T. Lin, Kalpesh Koli, Mariah C. Mayo, Kenneth K. Yau, Stephanie Royer-Joo, Julie Chang, Tomi Jun, Neekesh V. Dharja, Jennifer L. Schutzman, Patricia Lorusso

Manuscript writing: All authors

Final approval of manuscript: All authors

Accountable for all aspects of the work: All authors

ACKNOWLEDGMENT

We thank the patients involved in this study and their families, and the clinical study teams. Medical writing support was provided by Andrew Occiano (Genentech, Inc.). Dr M.G.K. acknowledges support by the National Institute of Health Research (NIHR) Manchester Biomedical Research Center, NIHR Manchester Clinical Research Facility at the Christie and Manchester Experimental Cancer Medicine Center (Manchester, United Kingdom). The G042144 Investigator Study group members are listed in Appendix [Table A4](#).

REFERENCES

- Lee JK, Sivakumar S, Schrock AB, et al: Comprehensive pan-cancer genomic landscape of KRAS altered cancers and real-world outcomes in solid tumors. *NPJ Precis Oncol* 6:91, 2022
- Nassar AH, Adib E, Kwiatkowski DJ: Distribution of KRAS (G12C) somatic mutations across race, sex, and cancer type. *N Engl J Med* 384:185-187, 2021
- de Langen AJ, Johnson ML, Mazieres J, et al: Sotorasib versus docetaxel for previously treated non-small-cell lung cancer with KRAS(G12C) mutation: A randomised, open-label, phase 3 trial. *Lancet* 401:733-746, 2023
- Hong DS, Fakih MG, Strickler JH, et al: KRAS(G12C) inhibition with sotorasib in advanced solid tumors. *N Engl J Med* 383:1207-1217, 2020
- Jänne PA, Riely GJ, Gadgeel SM, et al: Adagrasib in non-small-cell lung cancer harboring a G12C mutation. *N Engl J Med* 387:120-131, 2022
- Ou SHI, Janne PA, Leal TA, et al: First-in-human phase I/IB dose-finding study of adagrasib (MRTX849) in patients with advanced KRAS^{G12C} solid tumors (KRYSTAL-1). *J Clin Oncol* 40:2530-2538, 2022
- Skoulidis F, Li BT, Dy GK, et al: Sotorasib for lung cancers with KRAS p.G12C mutation. *N Engl J Med* 384:2371-2381, 2021
- Purkey H: Discovery of GDC-6036, a clinical stage treatment for KRAS G12C-positive cancers. Presented at the AACR Annual Meeting, New Orleans, April 8-13, 2022, 2022
- Sacher A, Lorusso P, Patel MR, et al: Single-agent divarasil (GDC-6036) in solid tumors with a KRAS G12C mutation. *N Engl J Med* 389:710-721, 2023
- Dy GK, Govindan R, Velcheti V, et al: Long-term outcomes and molecular correlates of sotorasib efficacy in patients with pretreated KRAS G12C-mutated non-small-cell lung cancer: 2-year analysis of CodeBreak 100. *J Clin Oncol* 41:3311-3317, 2023
- Gadgeel SM, Janne PA, Spira A, et al: MA06.04 KRYSTAL-1: Two-year follow-up of adagrasib (MRTX849) monotherapy in patients with advanced/metastatic KRASG12C-mutated NSCLC. *J Thorac Oncol* 18:S118, 2023
- Postow MA, Callahan MK, Wolchok JD: Immune checkpoint blockade in cancer therapy. *J Clin Oncol* 33:1974-1982, 2015
- Li BT, Falchook GS, Durr GA, et al: OA03.06 CodeBreak 100/101: First report of safety/efficacy of sotorasib in combination with pembrolizumab or atezolizumab in advanced KRAS p.G12C NSCLC. *J Thorac Oncol* 17:S10-S11, 2022
- Janne PA, Smit EF, de Marinis F, et al: LBA4 preliminary safety and efficacy of adagrasib with pembrolizumab in treatment-naïve patients with advanced non-small cell lung cancer (NSCLC) harboring a KRASG12C mutation. *Immunooncol Technol* 16:100360, 2022
- Sacher A, Miller W Jr, Paz-Ares L, et al: OA14.06 divarasil single-agent long-term follow-up and atezolizumab combination treatment in patients with KRAS G12C-positive NSCLC. *J Thorac Oncol* 19:S42-S43, 2024

AUTHORS' DISCLOSURES OF POTENTIAL CONFLICTS OF INTEREST

Single-Agent Divarasib in Patients With *KRAS G12C*–Positive Non–Small Cell Lung Cancer: Long-Term Follow-Up of a Phase I Study

The following represents disclosure information provided by authors of this manuscript. All relationships are considered compensated unless otherwise noted. Relationships are self-held unless noted. I = Immediate Family Member, Inst = My Institution. Relationships may not relate to the subject matter of this manuscript. For more information about ASCO's conflict of interest policy, please refer to www.asco.org/rwc or ascopubs.org/jco/authors/author-center.

Open Payments is a public database containing information reported by companies about payments made to US-licensed physicians ([Open Payments](http://OpenPayments)).

Adrian G. Sacher

Research Funding: AstraZeneca (Inst), Genentech/Roche (Inst), BMS (Inst), Amgen (Inst), BridgeBio (Inst), CRISPR Therapeutics (Inst), GlaxoSmithKline (Inst), Hotspot Therapeutics (Inst), Iovance Biotherapeutics (Inst), Lilly Loxo (Inst), Merck (Inst), Pfizer (Inst), Spectrum Pharmaceuticals (Inst)

Travel, Accommodations, Expenses: Merck, Amgen, Genentech/Roche

Uncompensated Relationships: Amgen, Genentech/Roche, Merck

Wilson H. Miller Jr

Honoraria: Bristol Myers Squibb Foundation, Merck, Roche, Novartis, GlaxoSmithKline, Mylan, EMD Serono, Amgen, Sanofi

Consulting or Advisory Role: Bristol Myers Squibb, Merck, Roche, Novartis, Amgen, GlaxoSmithKline, Mylan, EMD Serono, Sanofi

Research Funding: Bristol Myers Squibb (Inst), Novartis (Inst), GlaxoSmithKline (Inst), Roche (Inst), AstraZeneca (Inst), Merck (Inst), MethylGene (Inst), Bayer (Inst), Amgen (Inst), MedImmune (Inst), Pfizer (Inst), Esperas Pharma (Inst), Astellas Pharma (Inst), Sanofi (Inst), Incyte (Inst), Array BioPharma (Inst), Exelixis (Inst), Mimic Technologies (Inst), Ocularis Pharma (Inst), Canadian Institutes of Health Research (CIHR) (Inst), Canada Research Society (Inst), Terry Fox Research Institute (Inst), Samuel Waxman Cancer Research Foundation (Inst), Canadian Cancer Society Research Institute (CCSRI) (Inst), Alkermes (Inst)

Travel, Accommodations, Expenses: Pfizer

Manish R. Patel

Leadership: ION Pharma

Consulting or Advisory Role: Daiichi Sankyo/UCB Japan, Kura Oncology, Accutar Biotech, Nurix, Mitsubishi Tanabe Pharma, Shivanka Research

Research Funding: Agenus (Inst), Boehringer Ingelheim (Inst), Celgene (Inst), Cyteir (Inst), Daiichi Sankyo (Inst), Genentech/Roche (Inst), Janssen (Inst), Kymab (Inst), Loxo (Inst), MacroGenics (Inst), Merck (Inst), Moderna Therapeutics (Inst), Pfizer (Inst), Prelude Therapeutics (Inst), Seven and Eight Biopharmaceuticals (Inst), Syndax (Inst), ARTIOS (Inst), Novartis (Inst), Nurix (Inst), TeneoBio (Inst), Zymeworks (Inst), Olema Oncology (Inst), Adagene (Inst), Astellas Pharma (Inst), Accutar Biotech (Inst), Compugen (Inst), Immunogen (Inst), Blueprint Medicines (Inst), Cullinan Oncology (Inst), Immune-Onc Therapeutics (Inst), Immunitas (Inst), Ribon Therapeutics (Inst), Step Pharma (Inst), Bristol Myers Squibb/Celgene (Inst), Kineta (Inst), Hotspot Therapeutics (Inst), Conjupro Biotherapeutics (Inst), Allorion Therapeutics (Inst), Vividion Therapeutics (Inst), Georgiamune (Inst), Kura Oncology (Inst), AstraZeneca (Inst), Zai Lab (Inst), AbbVie (Inst), Avenzo (Inst), D3 Bio (Inst), OnCusp Therapeutics (Inst), Apollo (Inst), MedLink (Inst)

Luis Paz-Ares

Leadership: Altum Sequencing, Stab Therapeutics

Stock and Other Ownership Interests: Altum Sequencing, Stab Therapeutics

Honoraria: Roche/Genentech, Lilly, Pfizer, Bristol Myers Squibb, MSD, AstraZeneca, Merck Serono, PharmaMar, Novartis, Amgen, Sanofi, Bayer, Takeda, Daiichi Sankyo, BeiGene, GlaxoSmithKline, Janssen, Medscape, Regeneron, Boehringer Ingelheim, AbbVie, Gilead Sciences

Consulting or Advisory Role: Lilly, MSD, Roche, PharmaMar, Merck, AstraZeneca, Novartis, Amgen, Pfizer, Sanofi, Bayer, BMS, Mirati Therapeutics, GlaxoSmithKline, Janssen, Takeda, Regeneron, AbbVie, Astellas Pharma

Speakers' Bureau: MSD Oncology, BMS, Roche/Genentech, Pfizer, Lilly, AstraZeneca, Merck Serono, BeiGene, Amgen, Daiichi Sankyo Europe GmbH

Research Funding: BMS (Inst), AstraZeneca (Inst), PharmaMar (Inst), MSD (Inst), Pfizer (Inst)

Other Relationship: Novartis (I), Ipsen (I), Pfizer (I), SERVIER (I), Sanofi (I), Roche (I), Amgen (I), Merck (I), Roche, ITM Isotope Technologies Munich (I), Crinetics Pharmaceuticals (I), Astellas Pharma (I), Esteve (I), HUTCHMED (I)

Armando Santoro

Consulting or Advisory Role: Bristol Myers Squibb, SERVIER, Gilead Sciences, Pfizer, Eisai, Bayer, MSD, Sanofi, Incyte

Speakers' Bureau: Takeda, Roche, AbbVie, Amgen, Celgene, AstraZeneca, Lilly, Sandoz, Novartis, BMS, SERVIER, Gilead Sciences, Pfizer, Eisai, Bayer, MSD, ArQule, BeiGene

Myung-Ju Ahn

Honoraria: AstraZeneca, Lilly, MSD, Takeda, Amgen, Merck Serono, Yuhan, Daiichi Sankyo/Astra Zeneca

Consulting or Advisory Role: AstraZeneca, Lilly, MSD, Takeda, Alpha Pharmaceutical, Amgen, Merck Serono, Pfizer, Yuhan, Arcus Ventures, Daiichi Sankyo/Astra Zeneca, Daiichi Sankyo/Astra Zeneca

Research Funding: Yuhan

Rafal Dziadziuszko

Honoraria: Roche/Genentech, Bristol Myers Squibb, AstraZeneca, MSD Oncology, GlaxoSmithKline, Pfizer

Consulting or Advisory Role: GlaxoSmithKline

Travel, Accommodations, Expenses: Pfizer, AstraZeneca, GlaxoSmithKline

Pierre Freres

Consulting or Advisory Role: Astellas Pharma, Pfizer, MSD Oncology, SERVIER

Travel, Accommodations, Expenses: AstraZeneca, Janssen Oncology, SERVIER

Jia Luo

Honoraria: Targeted Oncology, Physicians' Education Resource, Medscape

Consulting or Advisory Role: AstraZeneca, Astellas Pharma, Amgen

Research Funding: Genentech, Revolution Medicines, Novartis, Kronos Bio, Amgen, Black Diamond Therapeutics

Patents, Royalties, Other Intellectual Property: A patent filed by Memorial Sloan Kettering Cancer Center related to multimodal features to predict response to immunotherapy (PCT/US2023/021178) (Inst)

Travel, Accommodations, Expenses: Genentech/Roche

Samantha Bowyer

Consulting or Advisory Role: MSD, Roche, Boehringer Ingelheim, Janssen, Medison

Speakers' Bureau: Sanofi, MSD, AstraZeneca, Bristol Myers Squibb/Medarex

Travel, Accommodations, Expenses: AstraZeneca, Janssen Oncology

Jayesh Desai

Consulting or Advisory Role: BeiGene, Amgen (Inst), Pierre Fabre, Bayer, GlaxoSmithKline, Merck KGaA, Boehringer Ingelheim, Roche/Genentech, Daiichi Sankyo Europe GmbH, Novartis, Pfizer, Ellipses Pharma, Axelia Oncology, Incyte

Research Funding: Roche (Inst), GlaxoSmithKline (Inst), Novartis (Inst), BeiGene (Inst), Bristol Myers Squibb (Inst), AstraZeneca/MedImmune (Inst), Amgen (Inst), Genentech (Inst)

Ben Markman

Consulting or Advisory Role: AstraZeneca, Greywolf Therapeutics

Maria De Miguel

Honoraria: MSD Oncology, PharmaMar, HiFiBio Therapeutics

Travel, Accommodations, Expenses: Lilly

Uncompensated Relationships: Roche, Janssen, MSD, PharmaMar, Lilly, Novartis, Genmab, AbbVie, Array BioPharma, Sanofi, Salubris Biotherapeutics, Seagen, SERVIER, HiFiBio Therapeutics

Sanjeev Deva

Travel, Accommodations, Expenses: Roche

Alejandro Falcon

Consulting or Advisory Role: AstraZeneca, Pfizer, Steve, Roche/Genentech, Menarini Group, MSD

Speakers' Bureau: AstraZeneca, Pfizer, Seagen, Novartis, Lilly, Roche/Genentech, Eisai, Daiichi Sankyo/Astra Zeneca, Grunenthal, Gilead Sciences, Dr Reddy's Laboratories

Guzman Alonso

Consulting or Advisory Role: Boehringer Ingelheim, Ellipses Pharma

João Daniel Guedes

Honoraria: Merck, AstraZeneca, Daiichi Sankyo, Pint Pharma

Research Funding: Amgen, AstraZeneca, Bayer, BMS, Daiichi-Sankyo, Eurofarma, Genentech, HuyaBio, Incyte, Lilly, MSD, Pfizer, PTC, Roche, Sanofi, Takeda

Travel, Accommodations, Expenses: Gilead, Pfizer, AstraZeneca

Se Hyun Kim

Consulting or Advisory Role: Takeda, Pfizer

Matthew G. Krebs

Honoraria: Roche

Consulting or Advisory Role: Roche, Achilles Therapeutics, Janssen, Seagen, OM Pharma, Bayer, Guardant Health, Zai Lab

Speakers' Bureau: Roche, Janssen, BMS, Guardant Health, Eisai

Research Funding: Roche (Inst), Novartis (Inst)

Travel, Accommodations, Expenses: AstraZeneca, BerGenBio, Immute, Janssen, Roche, Zai Lab, BMS

Scott A. Laurie

Research Funding: Bristol Myers Squibb (Inst), AstraZeneca (Inst), Novartis (Inst), 23andMe (Inst)

Patents, Royalties, Other Intellectual Property: UpToDate

Erminia Massarelli

Honoraria: AstraZeneca, Physicians' Education Resource

Consulting or Advisory Role: Sanofi, Bristol Myers Squibb Foundation, Gilead Sciences, Johnson & Johnson/Janssen, AbbVie, Merck, Daiichi Sankyo/Astra Zeneca, AstraZeneca

Travel, Accommodations, Expenses: Physicians' Education Resource, Johnson & Johnson/Janssen

Hans Prenen

Honoraria: Amgen, AstraZeneca, Merck

Consulting or Advisory Role: Biocartis, AstraZeneca

Alessio Amatu

Consulting or Advisory Role: Amgen, Italfarmaco, Merck Serono

Yoonha Choi

Employment: Genentech, BeiGene (I), Veracyte

Stock and Other Ownership Interests: Genentech, Veracyte, BeiGene (I)

Xuefeng Hou

Employment: Genentech/Roche

Stock and Other Ownership Interests: Genentech/Roche

Ting Qi

Employment: Genentech/Roche

Stock and Other Ownership Interests: Roche

Mark T. Lin

Employment: Roche/Genentech

Stock and Other Ownership Interests: Roche/Genentech

Kalpesh Koli

Employment: Genentech

Stock and Other Ownership Interests: Genentech/Roche

Kenneth K. Yau

Employment: Roche Canada

Stock and Other Ownership Interests: Roche, Altimmune

Stephanie Royer-Joo

Employment: Genentech/Roche

Stock and Other Ownership Interests: Genentech/Roche

Julie Chang

Employment: Genentech

Stock and Other Ownership Interests: Roche

Travel, Accommodations, Expenses: Genentech

Tomi Jun

Employment: Genentech

Stock and Other Ownership Interests: Roche

Open Payments Link: <https://openpaymentsdata.cms.gov/physician/7228039>

Neekesh V. Dharia

Employment: Genentech/Roche

Stock and Other Ownership Interests: Roche

Patents, Royalties, Other Intellectual Property: Patent applications related to employment at Genentech/Roche

Jennifer L. Schutzman

Employment: Genentech/Roche

Stock and Other Ownership Interests: Genentech/Roche

Patricia Lorusso

Honoraria: Five Prime Therapeutics

Consulting or Advisory Role: Takeda, Sotio, Agenus, Pfizer, GlaxoSmithKline, EMD Serono, Kyowa Kirin International, Kineta, I-Mab, MEKanic Therapeutics, Actuate Therapeutics, Atreca, Amgen, Cullinan Oncology, DAAN Biotherapeutics, Quanta Therapeutics, Schrodinger, Boehringer Ingelheim, Prelude Therapeutics, Wells Therapeutics, Zai Lab

Research Funding: Genentech (Inst)

Travel, Accommodations, Expenses: Genentech

No other potential conflicts of interest were reported.

APPENDIX 1. SUPPLEMENTARY METHODS

Study Drug Action Taken

For each adverse event that resulted in a dose modification, only one action taken with regard to the study drug was selected for data analysis, according to the following hierarchy: discontinuation, reduction, or interruption.

Tumor Assessments

Confirmed response in patients with measurable disease was defined as complete response or partial response on two consecutive tumor assessments at least 4 weeks apart, whereas best response did not require a confirmatory assessment.

Statistical Analysis

This analysis included all patients who received at least one dose of divarasib. Confirmed response was reported for patients with measurable disease at baseline and summarized with 95% CIs calculated with the use of the Clopper-Pearson method. The time-to-event end points, including the duration of the response and progression-free survival (PFS), were reported descriptively and were summarized with the use of the Kaplan-Meier method; the median estimates were reported with 95% CIs. Progression-free survival was defined as the time from first treatment to the first occurrence of disease progression or death from any cause during the study (whichever occurred first).

TABLE A1. Study Treatment Action Taken Due to Treatment-Related Adverse Events

Study Treatment Action	NSCLC (N = 65), No. (%)
Divarasib modification (interruption/reduction/withdrawal)	25 (39)
Divarasib reduction	15 (23)
Divarasib withdrawal	3 (5)

NOTE. For each adverse event that resulted in a dose modification, only one action taken with regard to the study drug was selected for data analysis, according to the following hierarchy: discontinuation, reduction, or interruption.

Abbreviations: AEs, adverse events; NSCLC, non–small cell lung cancer.

TABLE A2. Study Treatment Action Taken Due to New-Onset Treatment-Related Adverse Events in Patients Who Continued Single-Agent Divarasib Beyond 1 Year

Study Treatment Action	NSCLC (n = 31), No. (%)
Divarasib modification (interruption/reduction/withdrawal)	3 (9.7)
Divarasib reduction	0
Divarasib withdrawal	0

NOTE. For each adverse event that resulted in a dose modification, only one action taken with regard to the study drug was selected for data analysis, according to the following hierarchy: discontinuation, reduction, or interruption.

Abbreviations: AEs, adverse events; NSCLC, non–small cell lung cancer.

TABLE A3. Exploratory Analysis of PD-L1 Status

PD-L1 TPS	No.	CR/PR	Confirmed ORR, %	95% CI
TPS $\geq$ 1%	34	17	50	32.4 to 67.6
TPS <1%	18	10	55.6	30.8 to 78.5

NOTE. PD-L1 Status was based on local testing and only available for a subset of patients.

Abbreviations: CR, complete response; ORR, objective response rate; PR, partial response; TPS, tumor proportion score.

TABLE A4. G042144 Investigators and Study Group

Country	Investigator	Site
Australia	Samantha Bowyer	Linear Clinical Research Limited
Australia	Rasha Cosman	St Vincent's Hospital Sydney
Australia	Jayesh Desai	Peter MacCallum Cancer Center
Australia	Ben Markman	Alfred Health
Belgium	Pierre Freres	CHU de Liège
Belgium	Marc Lambrechts	AZ Sint-Maarten
Belgium	Hans Prenen	UZ Antwerpen
Brazil	Carlos Barrios	Hospital Sao Lucas Da Pontificia Universidade Catolica Do Rio Grande Do Sul (PUCRS)
Brazil	Joao Daniel Cardoso Guedes	Fundacao Faculdade Regional de Medicina de Sao Jose Do Rio Preto Hospital de Base
Brazil	Sergio De Azevedo	Hospital de Clinicas de Porto Alegre (HCPA)
Brazil	Rita De Cassia Costamilan	Universidade de Caxias do Sul
Brazil	Carolina Gomes Jacobina Silva	Santa Casa de Misericórdia de Belo Horizonte
Brazil	Tabatha Nakakogue Dallagnol	Hospital Erasto Gaertner
Canada	Scott Laurie	Ottawa Hospital
Canada	Wilson Miller	Jewish General Hospital
Canada	Adrian Sacher	Princess Margaret Cancer Center
Hungary	István Láng	Clinexpert Kft. –Gyöngyös
Hungary	István Takács	Semmelweis Egyetem
Israel	Ravit Geva	Tel Aviv Sourasky Medical Center
Israel	Ruth Perets	Rambam Medical Center
Israel	Einat Shacham-Shmueli	Sheba Medical Center
Italy	Chiara Cremolini	Azienda Ospedaliero Universitaria Pisana
Italy	Gianluca Del Conte	Ospedale San Raffaele S.r.l.
Italy	Angelo Delmonte	Istituto Romagnolo per lo Studio dei Tumori "Dino Amadori"
Italy	Armando Santoro	Istituto Clinico Humanitas
Italy	Salvatore Siena	ASST Grande Ospedale Metropolitano Niguarda - Presidio Ospedaliero Ospedale Niguarda
Kenya	Mansoor Saleh	Aga Khan University Hospital
Korea, Republic of	Myung-Ju Ahn	Samsung Medical Center
Korea, Republic of	Sae-Won Han	Seoul National University Hospital
Korea, Republic of	Tae Won Kim	Asan Medical Center
Korea, Republic of	Jong-Seok Lee	Seoul National University Bundang Hospital
Netherlands	Hans Gelderblom	Leids Universitair Medisch Centrum
Netherlands	Eelke Gort	Universitair Medisch Centrum Utrecht Cancer Center
Netherlands	Loes Latten-Jansen	Maastricht University Medical Center
Netherlands	Marloes Van Dongen	Het Nederlands Kanker Instituut Antoni Van Leeuwenhoek Ziekenhuis
New Zealand	Sanjeev Deva	Auckland City Hospital
New Zealand	Rajiv Kumar ^a	New Zealand Clinical Research - Christchurch
Norway	Øystein Fløtten	Haukeland University Hospital
Norway	Tormod Guren	Oslo University Hospital Radiumhospitalet
Poland	Rafal Dziadziuszko	Uniwersyteckie Centrum Kliniczne, Osrodek Badan Klinicznych Wczesnych Faz
Poland	Jacek Mackiewicz	Szpital Kliniczny im. Heliodora Swieckiego w Poznaniu
Poland	Rafal Stec	Biokinetica, Przzychodnia Jozefow
Russian Federation	Rustem Safin	Republican Clinical Oncology Dispensary of Ministry of Healthcare of Tatarstan Republic
Spain	Andres Cervantes Ruizperez	Hospital Clinico Universitario de Valencia
Spain	Maria De Miguel Luken	START Madrid Hospital Universitario HM Sanchinarro

(continued on following page)

TABLE A4. G042144 Investigators and Study Group (continued)

Country	Investigator	Site
Spain	Alejandro Falcon	Hospital Universitario Virgen del Rocio
Spain	Elena Garralda Cabanas	Hospital Universitario Vall d'Hebron
Spain	Laura Medina	Hospital Universitario Virgen de la Victoria
Spain	Victor Moreno	START Madrid Hospital Universitario Fundacion Jimenez Diaz
Spain	Luis Paz-Ares Rodriguez	Hospital Universitario 12 de Octubre
Switzerland	Christian Britschgi	Universitätsspital Zürich
Switzerland	Eugenio Fernandez	Hôpitaux Universitaires de Genève
Switzerland	Simon Häfliger	Universitätsspital Bern - Inselspital
Switzerland	Sacha Rothschild	Universitätsspital Basel
United Kingdom	Martin Forster	University College London Hospitals
United Kingdom	Robert Jones	Velindre Cancer Center
United Kingdom	Matthew Krebs	The Christie NHS Foundation Trust
United States	Raid Aljumaily	University of Oklahoma Peggy and Charles Stephenson Cancer Center
United States	Kathryn Arbor	Memorial Sloan Kettering Cancer Center - David H. Koch Center for Cancer Care
United States	Lyudmila Bazhenova	UC San Diego Moores Cancer Center
United States	Timothy Burns	UPMC Hillman Cancer Center
United States	Michael Cheng ^b	Dana Farber Cancer Institute
United States	Thomas Karasic	Abramson Cancer Center of The University of Pennsylvania
United States	Patricia LoRusso	Yale University
United States	Erminia Massarelli	City of Hope—Comprehensive Cancer Center (CCC)
United States	Pamela Munster	University of California San Francisco
United States	Sai-Hong Ou	UCI Health Chao Family Comprehensive Cancer Center
United States	Manish Patel	Florida Cancer Specialists
G042144 Study Group		
Canada	Kenneth K. Yau	Hoffmann-La Roche Limited
United States	Junko Aimi Julie Chang Yoonha Choi Neekesh V. Dharja Xuefeng Hou Tomi Jun Mark T. Lin Sandhya Mandlekar Huy Ngo Nina Qi Stephanie Royer-Joo Jennifer L. Schutzman Zhen Shi Julia Suchomel	Genentech, Inc

^aRajiv Kumar was at New Zealand Clinical Research—Christchurch during the time of work associated with this manuscript and is currently at the St George's Cancer Care, Christchurch, New Zealand.

^bMichael Cheng was at Dana-Farber Cancer Institute during the time of the work associated with this manuscript and is currently at the Helen Diller Family Comprehensive Cancer Center, University of California, San Francisco, CA.