

TISLELIZUMAB (BGB-A317) FOR RELAPSED/REFRACTORY CLASSICAL HODGKIN LYMPHOMA: LONG-TERM FOLLOW-UP EFFICACY AND SAFETY RESULTS FROM A PHASE 2 STUDY

Authors: Yuqin Song, MD, PhD¹; Quanli Gao, MD²; Huilai Zhang, MD, PhD³; Lei Fan, MD, PhD⁴; Jianfeng Zhou, MD, PhD⁵; Dehui Zou, MD⁶; Wei Li, MD⁷; Haiyan Yang, MD, PhD⁸; Ting Liu, MD, PhD⁹; Quanshun Wang, MD, PhD¹⁰; Fangfang Lv, MD¹¹; Haiyi Guo, MD¹²; Xia Zhao, MD¹²; Jane Huang, MD¹²; William Novotny, MD¹²; Yidi Wang, MS¹²; and Jun Zhu, MD, PhD¹

Affiliations: ¹Department of Lymphoma, Peking University Cancer Hospital & Institute (Beijing Cancer Hospital), Beijing, China; ²Department of Immunotherapy, Affiliated Cancer Hospital of Zhengzhou University, Henan Cancer Hospital, Zhengzhou, China; ³Tianjin Medical University Cancer Institute and Hospital, National Clinical Research Center for Cancer, Key Laboratory of Cancer Prevention and Therapy, Tianjin, Tianjin's Clinical Research Center for Cancer, Tianjin, China; ⁴Department of Hematology, the First Affiliated Hospital of Nanjing Medical University, Jiangsu Province Hospital, Collaborative Innovation Center for Cancer Personalized Medicine, Nanjing, China; ⁵Department of Hematology, Tongji Hospital, Tongji Medical College, Wuhan, China; ⁶State Key Laboratory of Experimental Hematology, Institute of Hematology & Blood Diseases Hospital, Chinese Academy of Medical Sciences and Peking Union Medical College, Tianjin, China; ⁷Department of Hematology, Cancer Center, The First Hospital of Jilin University, Changchun, China; ⁸Department of Lymphoma, Cancer Hospital of the University of Chinese Academy of Sciences, Zhejiang Cancer Hospital, Hangzhou, China; ⁹Department of Hematology, West China Hospital of Sichuan University, Chengdu, China ¹⁰Department of Hematology, Chinese PLA General Hospital, Beijing, China; ¹¹Department of Medical Oncology, Fudan University Shanghai Cancer Center, Shanghai, China; ¹²BeiGene (Beijing) Co., Ltd., Beijing, China, and BeiGene USA, Inc., San Mateo, CA, USA

Background: Tislelizumab is a humanized IgG4 monoclonal antibody with high affinity/specificity for programmed cell death protein 1 (PD-1). It was engineered to minimize binding to Fc-γ receptors on macrophages, thereby decreasing antibody-dependent phagocytosis, a potential mechanism of T-cell clearance and resistance to anti-PD-1 therapy. Tislelizumab therapy was highly active in autologous stem cell transplantation (ASCT)-failed or ineligible patients with relapsed/refractory classical Hodgkin lymphoma (R/R cHL; *Leukemia*. 2020;34:533). Here, we report results from up to 3 years of follow-up.

Aims: To evaluate efficacy and safety of tislelizumab monotherapy in patients with R/R cHL in a single-arm, multicenter phase 2 study (ClinicalTrials.gov: NCT03209973).

Methods: Patients were eligible for the study if they failed to achieve a response or progressed after ASCT or received ≥2 lines of prior systemic chemotherapy for cHL and were ineligible for ASCT. Patients with R/R cHL enrolled in this study received 200 mg tislelizumab administered

intravenously every 3 weeks until progressive disease or unacceptable toxicity. The primary endpoint was overall response rate (ORR) assessed by an independent review committee per Lugano criteria (*J Clin Oncol.* 2014;32:3059). Secondary endpoints were progression-free survival, duration of response, complete response (CR) rate, and time to response per independent review committee, safety, and tolerability.

Results: A total of 70 patients from 11 centers in China were enrolled and treated; patient characteristics have been previously reported. As of the data cutoff date (Nov 2, 2020), median follow-up was 33.8 months (range, 3.4-38.6). Patients still on treatment at the end of study (n=33; 47.1%) entered a long-term extension study. Efficacy data are presented in the Table. The ORR as assessed by IRC was 87.1%, and 67.1% of patients achieved CR. Among the 13 patients who received prior ASCT, 11 (84.6%) achieved CR. The most common treatment-emergent adverse events (AEs; ≥30%) were pyrexia (57.1%), upper respiratory tract infection (38.6%), hypothyroidism (37.1%), and increased weight (34.3%). Treatment-related grade ≥3 AEs (≥2 patients) were pneumonitis, hypertension, neutropenia, lipase increased, weight increased, and increased creatine phosphokinase (2.9% each). Immune-related AEs were reported in 32 patients (45.7%), with grade ≥3 AEs in 8 patients (11.4%): pneumonitis (n=4) and skin adverse reactions, nephritis, lipase increased, and blood creatine phosphokinase increased (n=1 each). AEs led to treatment discontinuation in 6 patients (8.6%).

Conclusion/summary: Long-term follow-up data from patients with R/R cHL treated with tislelizumab further demonstrated the substantial therapeutic activity and continued progression-free survival benefit. There were no new safety concerns identified for long-term treatment with tislelizumab.

Table

	N=70	95% CI
ORR, n (%)	61 (87.1)	77.0-93.9*
CR, n (%)	47 (67.1)	54.9-77.9*
mDOR [†] , mo	31.3	20.73-NE
mPFS [†] , mo	31.5	16.53-NE
mOS [†] , mo	Not reached	NE-NE
24-mo event free rate, %	93.9	84.5-97.7

CR, complete response; DOR, duration of response; m, median; NE, not estimable; ORR, overall response rate; OS, overall survival; PFS, progression-free survival.

*Two-sided Clopper-Pearson 95% CI. [†] Based on Kaplan-Meier estimation.