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

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# Background

Programmed cell death protein 1 (PD-1) inhibitors have broadened therapeutic options in relapsed/refractory classic Hodgkin Lymphoma (cHL). Tislelizumab is a humanized IgG4 monoclonal antibody with high affinity/specificity for PD-1. Tislelizumab was engineered to minimize binding to FcrR on macrophages, thereby decreasing antibody-dependent phagocytosis, a potential mechanism of T-cell clearance and resistance to anti–PD-1 therapy.

### Aims

The primary endpoint was overall response rate (ORR) assessed by an independent review committee (IRC) using the Lugano criteria. Secondary endpoints included progressionfree survival (PFS), duration of response (DOR), rate of complete response (CRR), time to response (TTR) assessed by IRC, and safety and tolerability.

#### Methods

This is an ongoing, single-arm, multicenter phase 2 study (ClinicalTrials.gov: NCT03209973) of tislelizumab given at 200 mg intravenously every 3 weeks until disease progression (PD) or unacceptable toxicity. Patients with relapsed/refractory cHL were eligible if they: failed to achieve a response or progressed after autologous stem cell transplant (ASCT), or: received ≥2 lines of prior systemic chemotherapy for cHL and were ineligible for ASCT.

#### Results

Seventy patients from 11 centers in China were enrolled and treated; patient characteristics are shown in the table below. As of data cutoff date (July 23, 2018), the median followup was 9.8 months (range, 3.4-14.7 mos). Fifty-three patients (75.7%) remained on treatment; 17 patients (24.2%) discontinued (11 for PD; 4 for adverse events [AEs]; 1 withdrew consent; 1 due to pregnancy). The ORR was 87.1% and the CRR was 62.9% by IRC. The median TTR by IRC was12.0 weeks (range, 8.9-42.1). The median PFS was not reached and estimated 9-month PFS rate was 74.5%. The median DOR was not reached. The most frequently reported AEs were pyrexia (54.3%), hypothyroidism (32.9%), increased weight (30.0%), upper respiratory tract infection (30.0%), cough (17.1%) and pruritus (17.1%). Grade ≥3 AEs reported in ≥2 patients were upper respiratory tract infection (2.9%) and pneumonitis (2.9%). Immune-related AEs were reported in 27 patients (38.6%); grade ≥3 in 6 patients (8.6%): pneumonitis (interstitial lung disease, organizing pneumonia, pneumonitis, n=3); skin adverse reactions (erythema nodosum), nephritis (focal segmental glomerulosclerosis), and musculoskeletal (increased creatine phosphokinase) (each n=1).

Characteristic	N = 70
Median age, y	32.5
<65 y, n (%)	66 (94.3)
≥65 and <75 y, n (%)	4 (5.7)
Gender, n (%)	
Female	30 (42.9)
Male	40 (57.1)
Median time from initial cHL diagnosis to study entry, mo	25.3
Stage IV disease, n (%)	42 (60.0)
Bulky disease <sup>a</sup> , n (%)	8 (11.4)
Bone marrow involvement, n (%)	22 (31.4)
B-symptom(s), n (%)	26 (37.1)
Patients with any prior radiation therapy, n (%)	21 (30.0)
Ineligible for prior ASCT <sup>b</sup> , n (%)	57 (81.4)
Failure to achieve an objective response to salvage chemotherapy	53 (75.7)
Inadequate stem cell collection or unable to collect stem cells	2 (2.9)
Comorbidities	2 (2.9)
Type of prior systemic therapy, n (%)	
Chemotherapy	70 (100.0)
ASCT	13 (18.6)
Immunotherapy <sup>c</sup>	15 (21.4)
Median lines of prior therapy (range)	3 (2-11)

#### Table. Patient Demographics and Baseline Characteristics

<sup>a</sup>Bulky disease defined as mediastinal mass ratio of 0.33 or size of any single node/nodal mass ≥10 cm in diameter.

<sup>b</sup>All received ≥2 prior regimens. <sup>c</sup>Immunotherapy included brentuximab vedotin, rituximab, cytokine-induced killer cell transfusion, thalidomide, or lenalidomide.

## Conclusion

Updated results of this study further demonstrated the substantial therapeutic activity of tislelizumab in patients with heavily pre-treated R/R cHL, as shown by a high rate of durable deep responses. The treatment of tislelizumab was well tolerated in patients with R/R cHL.