TISLELIZUMAB (BGB-A317) FOR RELAPSED/REFRACTORY PERIPHERAL T-CELL LYMPHOMAS:

## SAFETY AND EFFICACY RESULTS FROM A PHASE 2 STUDY



 Kong SAR, China, "Sistney Kimmel Cancer Center, Thomas Jefi
Lyon Sud and Claude Bernard Lyon 1 University, Lyon, France

## INTRODUCTION

Peripheral T -cell lymphomas (PTCL) are rare and generally aggressive, and outcomes for patients with relapsed/refractory ( $R / R$ ) disease are poor The T-cell lymphoma tumor microenvironment has increased programmed death ligand 1 (PD-L1) expression, suggesting PD-1/PD-L1 pathway inhibition may be an effective $T$-cell lymphoma treatment. Binding to FcyR on
macrophages compromises
antitumor activity of $\mathrm{PD}-1$ antitumor activity of PD-1 of antibody-dependent macrophage-mediated killing of T effector cells. ${ }^{1,2}$ Tislelizumab is a humanized G4 investigational
designed to minimize bindin to FcyR on macrophages.
Presented here are the results of a study cohort that evaluated tislelizumab safety and antitumor activity in patients with R/R PTCL (Cohort 2)
mAb, monoclonal antibody; $\mathrm{Fc} \mathrm{\gamma}$, Fc region of IG receptors; IG ,
immunoglobulin; $\mathrm{PD}-1$, progammed cell death-1

## METHODS

Figure 1. Phase 2, Multicenter, Open-Label Trial


Patients with R/R PTCL (AITL, ALCL, PTCL-NOS) Performance status (PS) $\leq 2$
Measurable disease by CT
$\geq 1$ previous appropriate combination therapy (eg, CHOP, EPOCH, or similar)
PD during or after completing the most recent therapy.
Responses were assessed by investigator using CT- or PET-based imaging according to the Lugano Classification with LYRIC modification. ${ }^{3}$

 Nos, peripherall $T$-cell IVmphoman- not otherwise specified; $\mathrm{F} / \mathrm{R}$,
relapsed/refactory; $T$, tre time to response.

ercentages are based on number of patients treated.

Table 2. Patient and Disease Characteristics

|  | Total ( $\mathrm{N}=44$ ) |
| :---: | :---: |
| Median age, years | 58 |
| <60 y, n (\%) | 24 (54.5) |
| $\geq 60 \mathrm{y}, \mathrm{n}(\%)$ | 20 (45.5) |
| Gender, n (\%) |  |
| Female | 15 (34.1) |
| Male | 29 (65.9) |
| ECOG performance status at baseline, n (\%) |  |
|  |  |
| 0 | 21 (47.7) |
| 1 | 21 (47.7) |
| 2 | 2 (4.5) |
| Median time from initial diagnosis to study entry, months (min, max) | $\begin{gathered} 14.8 \\ (3.7,160.6) \end{gathered}$ |
| Median number of prior regimens, $\mathrm{n}(\min , \max )$ | $2(1,8)$ |
| Stage at study entry, n (\%) |  |
| Stage II | 8 (18.2) |
| Stage III | 12 (27.3) |
| Stage IV | 24 (54.5) |
| Country enrollment, n (\%) |  |
| China | 22 (50.0) |
| Italy | 18 (40.9) |
| France | 3 (6.8) |
| Taiwan | 1 (2.3) |


${ }^{\text {a }}$ Cancer pain, death, dyspnea, general physical health deterioration, hemophagococtic I Imphohistiocytosisi, intussusception, multipipe organ
dysfunction syndrome, pancyctopenia. dysfunction syndrome, pancytopenia. ( $n=1$ ), death ( $n=1$ ), and multiple
General physical heath deterioration organ dysfunction syndrome ( $n=1$ ); all likely related to disease progression.
cirAEs were all grade 1 or 2 except one event of grade 3 erythema.

## CONCLUSIONS

- Tislelizumab is an investigational anti-PD-1 mAb specifically designed to minimize binding to $\mathrm{Fc} \mathrm{\gamma R}$ on macrophages.

Tislelizumab was generally well tolerated, and the safety profile was similar to that of other anti-PD-1 antibodies.

Tislelizumab showed modest activity in patients with R/R PTCL
Higher PD-L1 expression may lead to increased response in PTCL-NOS patients, but small number limit conclusions.

Future development in this aggressive disease should consider a mechanism-based combination to drive more rapid, deep, and sustainable responses.

## ACKNOWLEDGEMENTS

We would like to thank the investigators, site support taff, and especially the patients for participating in this tudy. This study was sponsored by BeiGene. Editoria BeiGene

## REFERENCES

1. Dahan R et al. Cancer Cell. 2015;28:285-295
2. Arlauckas S et al. Sci Transl Med. 2017;

9:eeal3504.
3. Cheson BD et al. Blood. 2016;128:2489-2496

## CONTACT INFORMATION

Pier Luigi Zinzani, MD
Email: pierluigi.zinzani@unibo.it

