Abstract Number: 445

against PD-1

Immune Suppression

every 3 weeks (Q3W)

2018 Genitourinary Cancers Symposium February 8–10, 2018 San Francisco, CA, USA

PRELIMINARY RESULTS FROM PATIENTS WITH UROTHELIAL CARCINOMA IN A PHASE 1A/1B STUDY OF TISLELIZUMAB (BGB-A317), AN ANTI-PD-1 MONOCLONAL ANTIBODY Shahneen Sandhu¹, Andrew Hill², Hui Gan³, Michael Friedlander⁴, Mark Voskoboynik⁵, Paula Barlow⁶, Amanda Townsend⁷, James Song⁸, Yun Zhang⁹, Zhirong Shen⁹, Qinzhou Qi⁹, Jayesh Desai¹

¹Peter MacCallum Cancer Centre, Melbourne, Australia; ²Tasman Oncology Research Institute, Melbourne, Australia; ⁴The Prince of Wales Hospital, Randwick, Australia; ⁵Nucleus Network, Melbourne, Australia; ⁶Auckland City Hospital, Auckland, New Zealand; ⁷The Queen Elizabeth Hospital, Woodville, Australia; ⁸BeiGene USA, Inc., Fort Lee, NJ, USA; ⁹BeiGene (Beijing) Co. Ltd., Beijing, China



- Patients were excluded if they had a history of severe hypersensitivity reactions to other mAbs
- Patients who had prior malignancy active within the previous 2 years except for UC, and locally curable cancers that have been apparently cured, such as basal or squamous cell skin cancer, superficial bladder cancer, or carcinoma in situ of the cervix or breast, were excluded

		UC Population (N=16)
s (min, max)		71.5 (39, 79)
	Male	13
	Female	3
	White	16
t duration, months (min, max)		4.3 (0.7, 18.3)
ticancer	1	6
,* n	2	3
	≥3	3

Disease control rate (DCR=CR+PR+SD) was 53.3% (n=8/15)

- Median treatment duration was 4.3 months (range: 0.7–18.3 months)

Tumor responses did not appear to be dose dependent

Antitumor activity of tislelizumab is presented in Figures 3–5











Abbreviations: UC, urothelial carcinoma.

Response by PD-L1 Status

- As of 4 December 2017, a total of nine patients were evaluable for both PD-L1 status and clinical response
- Clinical responses were observed in patients with both PD-L1 high and PD-L1 low expression (Table 2 and Figure 4)
- Evaluation of PD-L1 expression in tislelizumab-treated patients with UC is ongoing
 Table 2: Confirmed Best Overall Response for Each Evaluable Patient by PD-L1 Status

Patient Number	Treatment Start	Treatment End	PD-L1 Status	Confirmed Response	Treatment Ongoing
1	19 Feb 2016		High	CR	Yes
2	24 Jan 2017	15 May 2017	High	PD	No
3	29 Nov 2016	31 Jan 2017	High	PD	No
4	9 Jan 2017		High	PR	Yes
5	31 Jan 2017		High	PR	Yes
6	30 Jun 2016	8 Mar 2017	High	SD	No
7	23 Feb 2016		Low/negative	PR	Yes
8	23 Feb 2016	20 Apr 2016	Low/negative	PD	No
9	11 Dec 2015	3 Mar 2016	Low/negative	PD	No
10	25 Nov 2015	8 Feb 2017	Not available*	PR	No
11	8 Feb 2017		Not available	SD	Yes
12	14 Feb 2017	2 Aug 2017	Not available	SD	No

*PD-L1 status was not evaluable due to insufficient tumor tissue. The category of PD-L1 high is defined as $\geq 25\%$ tumor cells (TC) or ≥25% tumor-associated immune cells (IC); samples were categorized as PD-L1 low/negative if both TC and IC had <25% PD-L1 staining.

Abbreviations: CR, complete response; PD, progressive disease; PD-L1, programmed cell death ligand-1; PR, partial response; SD, stable disease.

Safety and Tolerability

- Treatment with tislelizumab was generally well tolerated in pretreated patients with UC
- Treatment-related AEs (TRAEs) occurred in 14 of the 16 patients with UC (Table 3)
- Fatigue (n=1), hyperglycemia (n=1), and type 1 diabetes mellitus (n=1), were the only AEs considered related to treatment that were Grade ≥ 3 in severity
- One patient discontinued treatment due to an infusion-related reaction considered related to tislelizumab
- One adverse event of muscle weakness, which was associated with disease progression and occurred more than 1 month after last dose of study drug, had a fatal outcome; this event was considered not related to treatment

Table 3: Treatment-Related AEs Occurring in ≥2 Patients with UC

	UC Population (N=1		
	All grades, n	G	
Fatigue	5		
Rash	3		
Infusion-related reaction	2		
Nausea	2		
Pain in extremity	2		
Proteinuria	2		

Abbreviations: UC, urothelial carcinoma.





rade ≥3, n

CONCLUSIONS

- Treatment with tislelizumab was generally well tolerated in pretreated patients with UC
- As of 28 August 2017, six (37.5%) patients remained on treatment; the median treatment duration was 4.3 months (range: 0.7–18.3 months)
- AEs reported in patients with UC were consistent with the overall safety profile observed in the study and were generally of low or moderate severity and manageable
- Of the 15 evaluable patients, tumor reduction meeting the definition of CR was observed in one patient, PRs were observed in four patients, and three patients achieved a confirmed best overall response of SD
- Objective responses were observed at a higher rate in PD-L1⁺ disease compared with PD-L1⁻disease
- The preliminary safety profile and antitumor activity from this ongoing study support continued development of tislelizumab in patients with UC
- Tislelizumab is currently being investigated in China as monotherapy for patients with PD-L1⁺ UC (CTR20170071)

REFERENCES

- Topalian SL, et al. *N Engl J Med.* 2012; 366: 2443–2454.
- Plimack ER, et al. J Clin Oncol. 2015; 33(suppl; abstr 4502).
- . Bellmunt J, et al. Abstract 470. Presented at 31st Society for Immunotherapy of Cancer Annual Meeting, November 9–13, 2016, National Harbor, MD, USA.
- Balar A, et al. Ann Oncol. 2016; 27: A32 Abstract LB.
- Sharma P, et al. J Clin Oncol. 2016; 34(suppl; abstr 4501).
- . Galsky MD, et al. J Clin Oncol. 2016; LB: A31.
- . Sharma P, et al. *Lancet Oncol.* 2016; 17: 1590–1598.
- Ahmadzadeh M, et al. *Blood.* 2009;114: 1537–1544.
- 9. Dahan R, et al. *Cancer Cell.* 2015; 28: 285–295.
- 10. ClinicalTrials.gov. Study of the safety, pharmacokinetics and antitumor activities of BGB-A317 in subjects with advanced tumors. Available at: https://clinicaltrials.gov/ct2/ show/NCT02407990 (last accessed December 2017).
- 11. Desai J, et al. *J Immunother Cancer.* 2016; 4(Suppl 1): P154.

ACKNOWLEDGMENTS

This study was supported by BeiGene, Ltd (Emeryville, CA, USA). Financial support for this presentation, including writing and editorial assistance by Aarati Rai, PhD MBA (SuccinctChoice Medical Communications, Chicago, IL, USA), was provided by BeiGene, Ltd.

Presented at the 2018 Genitourinary Cancers Symposium in San Francisco, CA, USA, February 8–10, 2018

Copies of this poster obtained through Quick Response (QR) Code are for personal use only and may not be reproduced without permission from the authors of this poster.

