enzymes and other proteins involved in the adenosine axis (e.g., A2bR) revealed trends that could have predictive value, particularly in late-line subjects. Correlative trends were also observed between the infiltration of lymphocytes within baseline tumor samples and the extent of clinical benefit. Based on a preliminary and ongoing analysis of baseline biopsies, a number of molecular markers may correlate with better clinical outcomes, most relevantly in late-line mCRLB subjects treated with AB928 + mFOLFOX-6. These data suggest the possibility that adenosine-related markers may be helpful in future studies for selection of patients to be treated with AB928 + mFOLFOX-6 therapy.

Conclusions N/A

Acknowledgements N/A

Trial Registration NCT03720678

Ethics Approval The study was approved by all the study site Institution’s Ethics Boards, with Advatra IRB being the first, approval number SSU00070639 in USA.

Consent N/A

REFERENCES


http://dx.doi.org/10.1136/jitc-2020-SITC2020.0338

339 PRELIMINARY SAFETY, TOLERABILITY AND EFFICACY RESULTS OF KN026 (A HER2-TARGETED BISPECIFIC ANTIBODY) IN COMBINATION WITH KN046 (AN ANTI-HER2/CTLA-4 BISPECIFIC ANTIBODY) IN PATIENTS (PTS) WITH HER2 ABERRATED SOLID TUMORS

1Jifang Gong*, 2Zhi Dong, 3Dan Liu, 4Jiuxu Xu, 5Jing Yang, 6Tang Wang, 7Yakun Qi,
8Jie Men, 9Paul Kong, 10Ting Xu, 11Lin Shen. 1Beijing Cancer Hospital, Beijing, China;
2Jiangsu Alphamab Oncology Biopharmaceuticals Co., Ltd., Suzhou, China, Suzhou, China

Background HER2 potently inhibits innate immunity through cGAS–STING signalling,1 meanwhile HER2 antibody induced ADCP will also lead to macrophage mediated immune suppression. Preclinical and clinical studies suggested a coordination of engagement of innate and adaptive immunity with the combination of an anti-HER2 antibody and an immune checkpoint blockade. KN026 is a novel bispecific antibody that simultaneously binds to two distinct HER2 epitopes. KN046 is a novel bispecific antibody that blocks both PD-L1 interaction with PD-1 and CTLA-4 interaction with CD80/CD86. Here we reported the interim results from an ongoing phase Ib dose escalation and expansion study assessing the safety, tolerability and preliminary efficacy for KN026 in combination with KN046.

Methods This study enrolled pts with solid tumors who failed available standard of care, HER2 aberration status confirmed locally (HER2 mutation, HER2 amplification and/or HER2 overexpression). Eligible pts received combination of KN026 and KN046 at two dose levels until disease progression, unacceptable toxicity or withdrawal of informed consent (DL1: KN026 20 mg/kg Q2W + KN046 3 mg/kg Q2W; DL2: KN026 20 mg/kg Q2W with loading on Days 1, 8 of Cycle 1 + KN046 5 mg/kg Q3W). Tumor response was evaluated Q8W per RECIST 1.1. Primary endpoint was DLT and key secondary endpoints were efficacy parameters (ORR, DOR, PFS).

Results As of the Jul. 13, 2020, 21 pts were enrolled into DL1 (n = 18, 3 for dose escalation) and DL2 (n = 3) (mGC/GEJ 12 pts; mCRC 7 pts; other solid tumors 2 pts). 11 pts remained on the study treatment and 10 pts discontinued due to disease progression (n=5), death (n=2) and other reasons (n=3). 15 pts had HER2-positive status (11 of 15 failed previous trastuzumab therapy), 1 pt had HER2 mutation and 5 pts had HER2 low expression (without FISH amplification). No DLTs were observed. No pts experienced LVEF decreased or other clinically meaningful cardiac AEs. Treatment-related TEAEs occurred in 13 pts, of which 1 pt experienced grade 3 or above treatment-related TEAEs. 7 pts experienced irAEs, all of which were grade 1 or 2. The most common (≥10%) KN026 or KN046 related TEAEs were anaemia (n=5, 23.8%), AST increased (n=4, 19.0%), rash (n=4, 19.0%), diarrhoea (n=4, 19.0%), blood bilirubin increased (n=4, 19.0%) and infusion related reaction (n=3, 14.3%). The objective response rate in pts with HER2-positive tumors (n = 7 efficacy evaluable pts) was 4/7 (57.1%, 95% CI 18.4–90.1%) and disease control rate 6/7 (85.7%, 95% CI 42.1–99.6%). 3 pts with HER2 mutation or low expression achieved SD including one patient with SD for more than 24 weeks. 2 death cases only received one cycle of KN026 plus KN046 due to COVID-19 restriction before died from clinical deterioration from underlying tumors.

Conclusions KN026 combined with KN046 is well tolerated and has demonstrated profound anti-tumor activity in HER2-positive solid tumors.

Trial Registration NCT04040699

Ethics Approval The study was approved by Beijing Cancer Hospital Institution’s Ethics Board, approval number 2019YJZ37.

Consent Written informed consent was obtained from the patient for publication of this abstract and any accompanying images. A copy of the written consent is available for review by the Editor of this journal.

REFERENCE


http://dx.doi.org/10.1136/jitc-2020-SITC2020.0339

340 PHASE 1 STUDY OF AMG 160, A HALF-LIFE EXTENDED BITE® (BISPECIFIC T-CELL ENGAGER) THERAPY TARGETING PROSTATE-SPECIFIC MEMBRANE ANTIGEN, IN PATIENTS WITH METASTATIC CASTRATION-RESISTANT PROSTATE CANCER

1Tanya Dorf, 2Matthew Retting, 3Jean-Pascal Machiels, 4Martin Lokkema, 5Karen Autio, 6Richard Greil, 7Sylvie Rottee, 8Nabil Adra, 9Mark Salvati, 10Shirley Poorn, 11Daniel Tan, 12Gabor Jutarda, 13Heleen Kouris-Mehr, 14Karim Fizazi, 15Ben Tran, 16Lisa Horvath*. 11University of Paris Sud, Villejuif, France;
6IIIrd Cancer Hospital Institute, Rotterdam, Netherlands;
7Drug Research Unit Ghent, Ghent, Belgium;
13Chris O'Brien Lifehouse, Camperdown, Australia

Background Prostate-specific membrane antigen (PSMA) is a clinically validated target for metastatic castration-resistant prostate cancer (mCRPC). AMG 160 BiTE® immuno-oncology therapy redirects T cells to cancer cells by binding to