

Phase Ib study of BI 836880, a VEGF/Ang2-blocking nanobody®, in combination with BI 754091, an anti-PD-1 antibody: initial results in patients with advanced non-small cell lung cancer

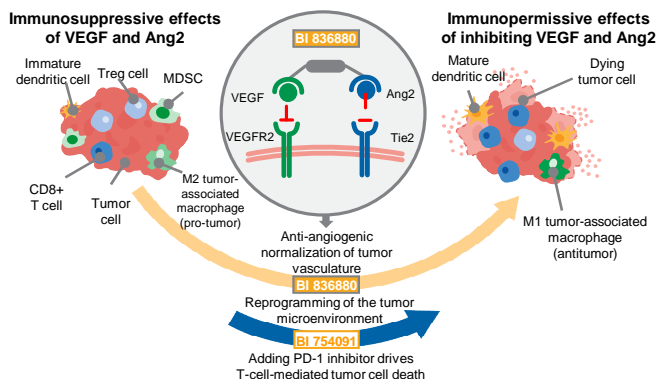
Poster #332

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Introduction

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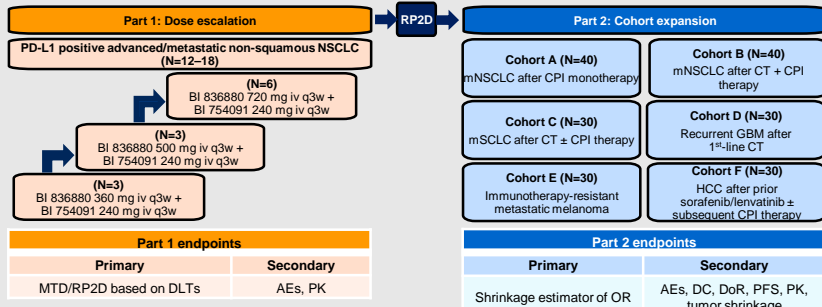
Ang2, angiopoietin-2; CD, cluster of differentiation; MDSC, myeloid-derived suppressor cell; PD-1, programmed cell death protein-1; Treg, regulatory T cell; VEGF, vascular endothelial growth factor; VEGFR2, VEGF receptor 2

Objectives

In this Phase Ib trial (NCT03468426), the safety and antitumor activity of BI 836880 in combination with BI 754091 in patients with locally advanced or metastatic non-squamous NSCLC and in those with other solid tumors is being assessed

Methods

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AE, adverse event; CPI, checkpoint inhibitor; CT, chemotherapy; DC, disease control; DLT, dose-limiting toxicity; DoR, duration of response; GBM, glioblastoma; HCC, hepatocellular carcinoma; iv, intravenous; mNSCLC, metastatic NSCLC; mSCLC, metastatic small-cell lung cancer; MTD, maximum tolerated dose; OR, objective response; PD-L1, programmed cell death ligand 1; PFS, progression-free survival; PK, pharmacokinetics; q3w, every 3 weeks; RP2D, recommended Phase II dose

Key findings and conclusions

- MTD/RP2D was BI 836880 720 mg plus BI 754091 240 mg q3w
- The combination had a manageable safety profile



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- Preliminary antitumor activity was observed
 - Ten of 12 patients had best overall response of PR or SD
- Expansion cohorts are ongoing

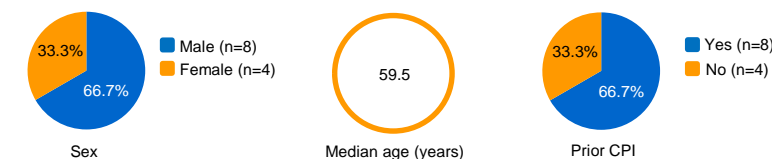
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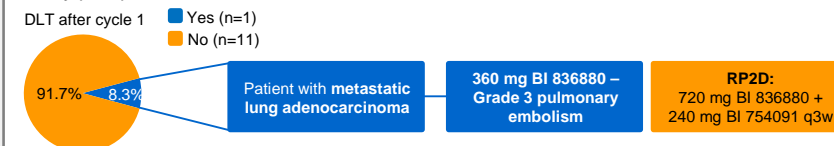
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Results – Part 1: dose escalation (as of January 2020)

Baseline characteristics (N=12)



Safety (N=12)



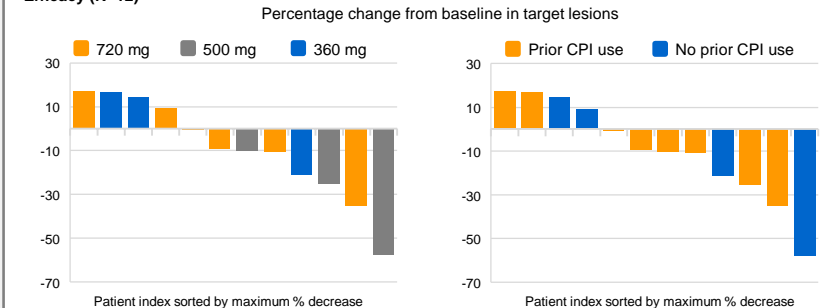
Patients with:	All grades n (%)	Grade 1 n (%)	Grade 2 n (%)	Grade 3 n (%)	Grade 4 n (%)	Grade 5 n (%)
Any AE	12 (100.0)	1 (8.3)	5 (41.7)	5 (41.7)	0 (0.0)	1 (8.3)
Hypertension	7 (58.3)	0 (0.0)	4 (33.3)	3 (25.0)	0 (0.0)	0 (0.0)
Vomiting	5 (41.7)	3 (25.0)	2 (16.7)	0 (0.0)	0 (0.0)	0 (0.0)
Nausea	4 (33.3)	1 (8.3)	3 (25.0)	0 (0.0)	0 (0.0)	0 (0.0)
Asthenia	4 (33.3)	2 (16.7)	2 (16.7)	0 (0.0)	0 (0.0)	0 (0.0)

No Grade 4 AEs reported

One Grade 5 AE reported: general physical health deterioration

Five patients had immune-related AEs: hypothyroidism in two patients; pruritus, papular rash, and vomiting

Efficacy (N=12)



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