Phase Ib/II Open-Label, Randomized Evaluation of 2L Atezolizumab (atezo) + BL-8040 vs Control in **MORPHEUS-Pancreatic Ductal Adenocarcinoma (M-PDAC) and MORPHEUS-Gastric Cancer (M-GC)**

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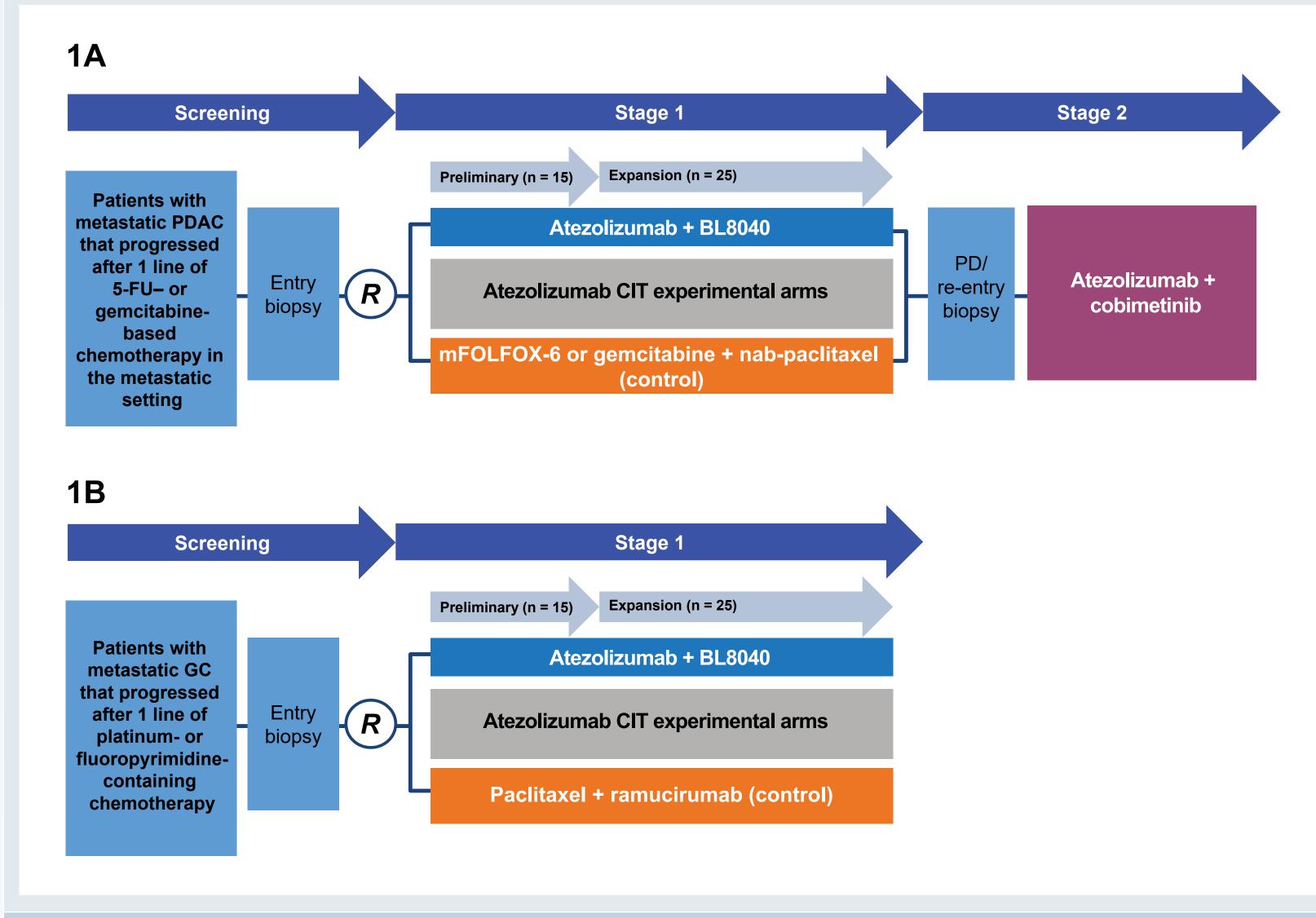
MORPHEUS PLATFORM AND COMBINATION THERAPY

- JS platform consists of multiple global, open-label, randomized umbrella Phase lb/II trials designed to accelerate the development of cancer immunotherapy (CIT) combinations in several indications by identifying early signals and establishing proof-of-concept clinical data^{1,2}
- Using a randomized trial design, multiple CIT combination arms are being compared with a single control arm, thereby reducing the number of patients receiving control treatment
- Although survival benefits have been observed with programmed death-ligand 1 (PD-L1)/programmed death-1 (PD-1) inhibito monotherapy in subsets of patients.³⁻⁶ combination CIT regimens have been associated with greater clinical benefit than monotherapy in several cancers⁷⁻
- CIT combinations may generate durable anti-tumor responses in larger subsets of patients by targeting multiple immune-evasion mechanisms of a tumor simultaneously and converting the tumor microenvironment (TME) from non-inflamed to inflamed^{10,11}
- PD-L1/PD-1 inhibitors act largely by re-invigorating pre-existing anti-tumor T-cell responses and are most effective in inflamed tumors characterized by PD-L1 positivity, high CD8+ T-cell density or the presence of a strong interferon-y cytolytic T-cell signature¹² • Tumor-infiltrating immune cells negatively modulate the TME to suppress the effector CD8+ T cells, thereby carrying out their
- immunosuppressive functions at the site of the tumor by reducing adaptive immune responses to cancer cells¹³
- These cells are attracted to the TME by tumor-derived CXCL12, the ligand of CXCR4¹⁴⁻¹⁶
- This immune suppression may be interrupted by CXCR4 inhibitors, leading to the rapid accumulation of CD8+ T cells among cancer cells and thus enabling immune-checkpoint inhibitors such as anti–PD-L1 to activate the local immune system against the cancer cells^{17,18}
- BL-8040 is a high-affinity antagonist for CXCR4 that affects the trafficking of immune cells to the TME to allow for accumulation of immune cells there¹⁹

RATIONALE FOR CIT COMBINATION AND STUDY DESIGN

• Because a CXCR4 antagonist, which alters the immunosuppressive TME, may enable an immune-checkpoint inhibitor to more effectively activate the local immune system against cancer cells, BL-8040 was tested in combination with atezolizumab (anti–PD-L1) in patients with advanced/metastatic pancreatic ductal adenocarcinoma (PDAC) (Figure 1A) and gastric cancer (GC) (Figure 1B) in MORPHEUS-PDAC (NCT03193190) and MORPHEUS-GC (NCT03281369), respectively

Figure 1. Study Design of (A) MORPHEUS-PDAC and (B) MORPHEUS-GC



EU, fluorouracil; mFOLFOX6, 5-fluorouracil, leucovorin, and oxaliplatin; PD, progressive disease; PDAC, pancreatic ductal adenocarcinoma; R, randomization. Stage 2 is planned only for MORPHEUS-PDAC.

The primary endpoint of both studies was:

- Investigator-assessed objective response rate (ORR) per Response Evaluation Criteria in Solid Tumors version 1.1 (RECIST 1.1)
- Key secondary endpoints presented here included: Investigator-assessed progression-free survival (PFS)
- and disease control rate (DCR) per RECIST 1.1 Overall survival (OS)
- Percentage of patients alive at 6 months in MORPHEUS-PDAC
- Investigator-assessed duration of response (DOR) per RECIST 1.1 in MORPHEUS-GC
- Percentage of participants with adverse events (AEs) Pharmacokinetics (PK) and percentage of patients with anti-drug antibodies (ADAs) to atezolizumab in
- MORPHEUS-PDAC Exploratory biomarker analyses were also conducted
- Key exclusion criteria for both studies included symptomatic, untreated or actively progressing central nervous system metastases; active or history of autoimmune disease or immune deficiency; and a history of idiopathic pulmonary fibrosis, organizing pneumonia, drug-induced pneumonitis, or idiopathic pneumonitis, or evidence of active pneumonitis

MORPHEUS-PDAC (NCT03193190): 18-WEEK INTERIM ANALYSIS AND UPDATED OS ANALYSIS

Standard of Care for Patients With PDAC

- Combination chemotherapy regimens are the standard of care for PDAC, but the prognosis for patients with metastatic disease remains poor^{20,21}
- There is a strong unmet need for improved medical treatment for patients with PDAC

Inclusion Criteria and Treatment

- MORPHEUS-PDAC is a global, open-label, randomized, with chemotherapy that was conducted in 2 stages in patients with PDAC²
- Key inclusion criteria were a histologically or cytologically confirmed diagnosis of metastatic PDAC and disease progression ≤ 6 months after treatment with 1 line of 5-fluorouracil (FU)- or gemcitabine-based chemotherapy in the metastatic setting; \geq 18 years of age; Eastern Cooperative Oncology Group performance status (ECOG PS) score 0-1 and measurable disease by RECIST 1.1 Eligible patients had to provide an entry biopsy before being randomized to receive either atezolizumab 1200 mg intravenously (IV) every 3 weeks plus BL-8040 (1.25 mg/kg
- subcutaneously [SC] on days 1-5, then 1.25 mg/kg SC 3 times a week), or chemotherapy control (gemcitabine plus nab-paclitaxel or 5-fluorouracil, leucovorin, and oxaliplatin [mFOLFOX6]) in stage 1 of the trial (Figure 1A)
- Patients in stage 1 who experienced disease progression per RECIST 1.1, unacceptable toxicity or loss of clinical benefit as determined by the investigator could receive a different treatment combination during stage 2 if they met the eligibility criteria (Figure 1A)

Patient demographics and disposition

- Fifteen patients were randomized to each of the respectively
- An interim analysis of efficacy and safety was conducted at the 18-week cutoff on September 7, 2018
- An updated analysis of OS was conducted on July 9, 2019 The patient baseline characteristics and demographics are presented in Table 1

Table 1. Baseline Demographics and Disease Characteristics in MORPHEUS-PDAC		
Variable, n (%)	Atezolizumab + BL-8040 (n = 15)	Chemotherapy (n = 15)
Age ≥ 65 years	8 (53.3)	7 (46.7)
Male	10 (66.7)	4 (26.7)
Baseline ECOG PS 1	7 (46.7)	9 (60.0)
Prior chemotherapy		
5-FU	9 (60.0)	6 (40.0)
Gemcitabine	6 (40.0)	9 (60.0)
Baseline albumin level ≥ 3.5 g/dL	13 (86.7)	8 (53.3)
Baseline CRP level > 1.2 mg/dL	2 (13.3)	2 (13.3)
Baseline LDH level		
\geq 1.5 × ULN and < 2.5 × ULN	1 (6.7)	0
≥ 2.5 × ULN	0	1 (6.7)
Baseline NLR ≥ 5	3 (20.0)	6 (40.0)
Metastatic sites at enrollment, n		
1	10 (66.7)	4 (26.7)
2	1 (6.7)	6 (40.0)
3	4 (26.7)	2 (13.3)
≥ 4	0	3 (20.0)
CRP, C-reactive protein; ECOG PS, Eastern Cooperative Oncology Group performance status; LDH, lactate dehydrogenase; NLR, neutrophil-to-lymphocyte ratio.		

Phase Ib/II trial of atezolizumab plus BL-8040 compared

atezolizumab plus BL-8040 and chemotherapy control arms

Efficacy

• The efficacy data are summarized in Table 2 and in the additional data (see QR code)

 Table 2
 Efficacy in MORPHEUS-PDAC

Table 2. Efficacy in MORPHEUS-PDAC		
Variable, n (%)	Atezolizumab + BL-8040 (n = 14) ^a	Chemotherapy (n = 15)
Confirmed investigator-assessed ORR per RECIST 1.1, n (%) [95% CI] ^{b,c}	0 [0.00, 23.6]	0 [0.00, 21.8]
CR	0 [0.00, 23.6]	0 [0.00, 21.8]
PR	0 [0.00, 23.6]	0 [0.00, 21.8]
SD, n (%) [95% CI]	1 (7.1) [0.18, 33.87]	6 (40.0) [16.34, 67.71]
PD, n (%) [95% CI]	12 (85.7) [57.19, 98.22]	5 (33.3) [11.82, 61.62]
PFS (18-week cutoff) ^c		
Progression event or death, n (%)	14 (100)	12 (80)
Median PFS, mo (95% Cl)	1.64 (1.41, 1.87)	2.51 (1.41, 4.50)
Updated OS ^d		
Deaths, n (%)	14 (100)	14 (93.3)
Median time to death, mo (95% CI)	5.19 (3.25, 8.87)	6.78 (2.27, 9.66)
Range, mo	2.0-16.4	0.3 ^e -15.3
HR (95% CI)	0.99 (0.46, 2.13)	
Patients alive at 6 mo: event-free rate, % (95% CI)	42.86 (16.93, 68.78)	64.29 (39.19, 89.39)
 CR, complete response; ORR, objective response rate; PD, progressive disease; PR, partial response; SD, stable disease. ^a One patient only received BL-8040 priming and did not receive atezolizumab, and was therefore not evaluable for efficacy. 		

not evaluable for efficacy. ^b Data were missing from 1 patient in the atezolizumab plus BL-8040 arm and 4 patients from the linical cutoff date, September 7, 2018. Clinical cutoff date, July 9, 2019.

- The safety data from MORPHEUS-PDAC are summarized in Table 3
- AEs that led to discontinuation of any treatment in the chemotherapy arm were Grade 3 deep vein thrombosis in 1 patient (6.7%) and Grade 5 disseminated intravascular coagulation in 1 patient (6.7%). No AEs led to drug discontinuation in the atezolizumab plus BL-8040 arm
- AEs that led to any drug dose modification or interruption were: Atezolizumab plus BL-8040 arm: fatigue, nausea ascites, dehydration, hypokalemia, acute cholangitis and embolism
- (each in 1 patient [6.7%]) Chemotherapy arm: neutropenia (3 patients [20%]), decreased white blood cell count (2 patients [13.3%]) and asthenia, duodenal obstruction, mechanical ileus, thrombocytopenia, anemia, neutrophil count decreased and atrial fibrillation (each in 1 patient [6.7%])

 Table 3. Safety Summary^a

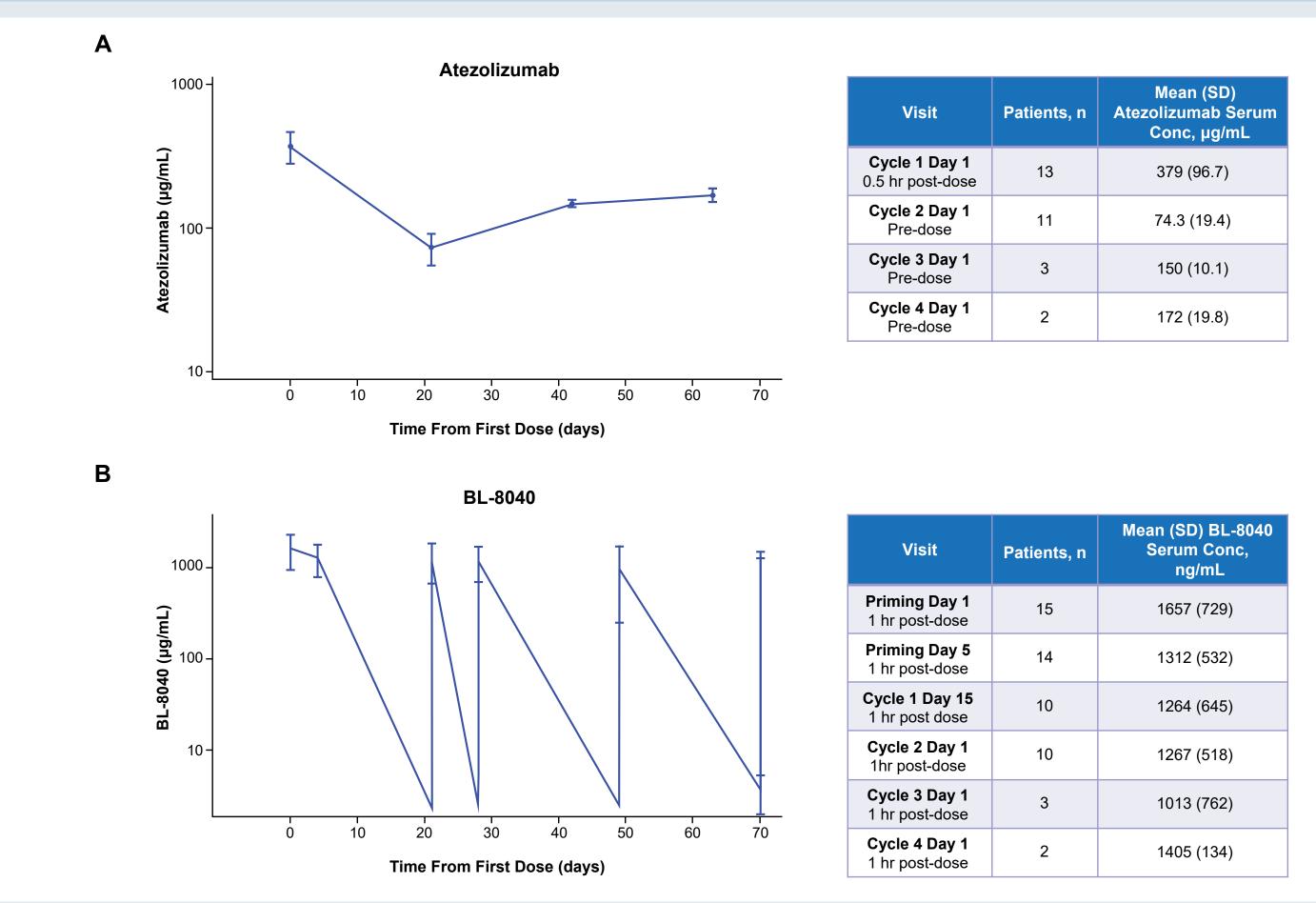
n (%)	Atezolizumab + BL-8040 (n = 15)	Chemotherapy (n = 15)
Deaths ^b	10 (66.7)	6 (40.0)
Patients with ≥ 1 AE	15 (100)	15 (100)
Related AE	15 (100)	13 (86.7)
SAE	4 (26.7)	7 (46.7)
Related SAE	1 (6.7)	3 (20.0)
Grade 3-5 AE	7 (46.7)	10 (66.7)
Grade 5 AE	0	1 (6.7)
Related AE leading to dose modification/interruption ^c	5 (33.3)	12 (80.0)
Related AE leading to withdrawal from treatment ^c	0	1 (6.7)
AE, adverse event; SAE, serious adverse event. ^a Clinical cutoff date, September 7, 2018. ^b Death from any cause.		

° AE leading to withdrawal from treatment/dose modification/interruption of any drug.

PK and PD

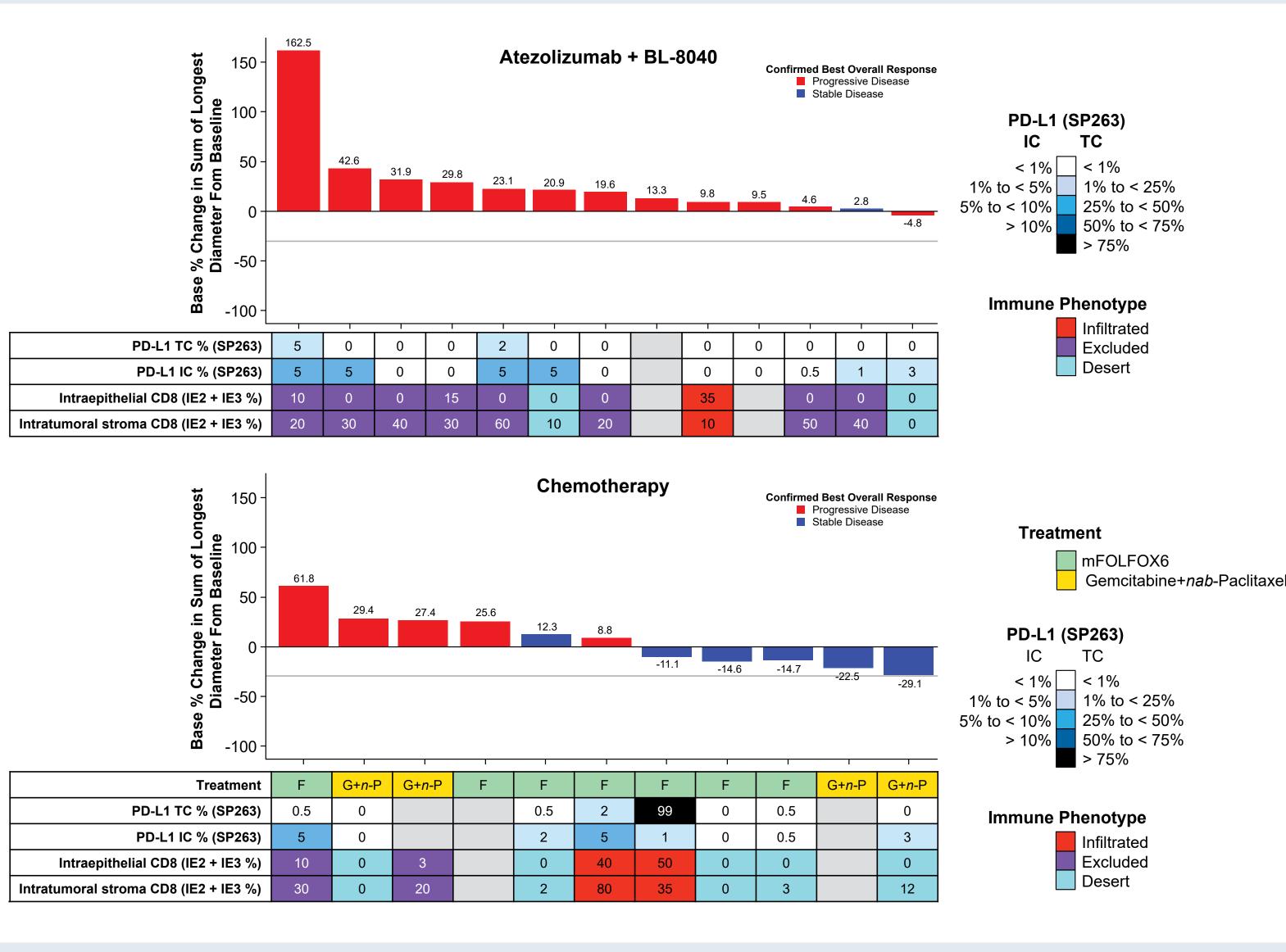
- The PK of atezolizumab and BL-8040 are summarized in Figure 2
- Mild atezolizumab accumulation in C_{trough} was observed throughout the treatment period - Serum trough levels of atezolizumab were maintained above the target of 6 µg/mL for maximum receptor occupancy in
- The expected long receptor occupancy of BL-8040 is predicted to lead to sustained PD effects, likely associated with C • ADAs for atezolizumab were observed in 1 of 9 patients who reached Cycle 2 Day 1 (approximately 11.1% incidence)
- ADAs were not evaluated with BL-8040

Figure 2. PK of (A) atezolizomab and (B) BL-8040 in patients in MORPHEUS-PDAC



Biomarker analysis

Biomarker data are summarized according to patient response in Figure 3



Gem, gemcitabine; IC, tumor-infiltrating immune cells; IE, intraepithelial; ITS, intratumoral stroma; mFOLFOX6 (5-fluorouracil, leucovorin, and oxaliplatin); n-P, nab-paclitaxel; PD, progressive disease; PD-L programmed death-ligand 1; SD, stable disease; TC, tumor cell. Immune phenotypes based on the following manual intraepithelial and intrastromal CD8 cutoffs: infiltrated, IE2 + IE3 ≥ 20%; excluded, IE2 + IE3 < 20% and ITS2 + ITS3 ≥ 20%; desert, IE2 + IE3 and ITS2 + ITS3 < 20%.

Ŧ	Visit	Patients, n	Mean (SD) BL-8040 Serum Conc, ng/mL
	Priming Day 1 1 hr post-dose	15	1657 (729)
	Priming Day 5 1 hr post-dose	14	1312 (532)
	Cycle 1 Day 15 1 hr post dose	10	1264 (645)
	Cycle 2 Day 1 1hr post-dose	10	1267 (518)
	Cycle 3 Day 1 1 hr post-dose	3	1013 (762)
70	Cycle 4 Day 1 1 hr post-dose	2	1405 (134)

Figure 3. Biomarker Analyses of Baseline Tumor Samples vs Patient Response

MORPHEUS-GC (NCT03281369): 24-WEEK INTERIM ANALYSIS

Standard of care for patients with GC

- Combination chemotherapy regimens are the first-line standard of care for metastatic GC²² and are complemented with trastuzumab for the treatment of human epidermal growth factor receptor 2 (HER2)
- A variety of single agents, including docetaxel, paclitaxel, irinotecan and ramucirumab, are used as second-line treatment, as is the combination of ramucirumab with paclitaxel²²
- Effective new treatments for gastric cancer are urgently needed

Eligibility and treatment

- MORPHEUS-GC is a global, open-label, randomized, Phase Ib/II trial of atezolizumab plus BL-8040 compared with paclitaxel plus ramucirumab in patients with GC²
- Key inclusion criteria were a histologically or cytologically confirmed diagnosis of locally advanced, unresectable or metastatic gastric adenocarcinoma or carcinoma of the gastroesophageal junction that had progressed during or following a first-line platinum- or fluoropyrimidine-containing chemotherapy regimen; age ≥ 18 years; ECOG PS score 0-1 and measurable disease per RECIST 1.1
- Eligible patients had to provide an entry biopsy before being randomized to receive either atezolizumab 1200 mg IV every 3 weeks plus BL-8040 (1.25 mg/kg subcutaneously [SC] on days 1-5, then 1.25 mg/kg SC 3 times a week), or control treatment (paclitaxel plus ramucirumab) (Figure 1B) until they experienced unacceptable toxicity and/or loss of clinical benefit as determined by the investigator in the experimental arm. or PD per RECIST 1.1 in the control arm

Patient demographics and disposition

- Fifteen patients were randomized to the atezolizumab plus BL-8040 arm and 16 patients to the paclitaxel plus ramucirumab control arm
- An interim analysis of efficacy and safety was conducted at the 24-week cutoff on July 11, 2019
- Treatment was ongoing in 6 patients (40%) in the atezolizumab plus BL-8040 arm and 9 patients (6.25%) in the control arm
- The patients' baseline characteristics and demographics are summarized in Table 4
- The atezolizumab plus BL-8040 arm had a smaller proportion of Asian patients and fewer patients with baseline albumin levels \geq 35 g/dL, but otherwise, the treatment arms were generally well balanced

Table 4. Baseline Demographics and Disease Characteristics in MORPHEUS-GC

Atezolizumab + BL-8040 (n = 13) ^a	Paclitaxel + Ramucirumab (n = 12) ^b
4 (30.8)	6 (50.0)
11 (84.6)	9 (75.0)
5 (38.5)	7 (58.3)
6 (46.2)	5 (41.7)
2 (15.4)	0
10 (76.9)	8 (66.7)
10 (76.9)	11 (91.7)
2 (18.2)	4 (36.4)
11 (91.7)	9 (75.0)
1 (8.3)	3 (25.0)
	BL-8040 (n = 13)a4 (30.8)11 (84.6)5 (38.5)6 (46.2)2 (15.4)10 (76.9)10 (76.9)2 (18.2)11 (91.7)

CRP, C-reactive protein; ECOG PS, Eastern Cooperative Oncology Group performance status; LDH, lactate dehydrogenase. e patient withdrew before the first treatment infusion due to an AE, and 1 patient withdrew nsent before the first treatment: hence, 13 patients were evaluable for efficacy and safety. ne patient did not meet the eligibility criteria and 3 withdrew consent before the first treatment, o 12 patients were evaluable for efficacy and safety.

Efficacy

• The efficacy data from MORPHEUS-GC are summarized i Table 5 and the additional content (see QR code)

Table 5. Efficacy in MORPHEU

Confirmed investigator-assessed ORR per RECIST 1.1, n (%)

CR
PR
SD, n (%) [95% Cl]
PD, n (%) [95% Cl]
DCR [®]
Progression event or death, n (%)
Median PFS per investigator- assessed RECIST 1.1, mo
Deaths, n (%)

Median OS, mo

R. complete response: DCR. disease control rat), progressive disease; PR, partial response; SD, stable disease. inical cutoff date. July 11, 2019 patient withdrew before the first treatment infusion due to an AE, and 1 patient withdrew insent before the first treatment: hence. 13 patients were evaluable for efficacy and safety. ne patient did not meet the eligibility criteria and 3 withdrew consent before the first treatme o 12 patients were evaluable for efficacy and safety.

Safety

 The safety data for MORPHEUS-GC are summarized in Table 6

Table 6. Safety Summary for MORPHEUS-GC^a

Deaths^d

Patients with \geq 1 AE

Related AE

Grade 3-4 AE

Related Grade 3-4 AE

Serious AE

Related serious AE

Grade 5 AE

AE leading to withdrawal from treatment

Related AE leading to dose modification/interruption

AE, adverse event. Clinical cutoff date, July 11, 2019 ne patient withdrew before the first treatment infusion due to an AE, and 1 patient withdrew onsent before the first treatment; hence, 13 patients were evaluable for efficacy and safety. One patient did not meet the eligibility criteria and 3 withdrew consent before the first treatment, o 12 patients were evaluable for efficacy and safety.

^d Death from any cause.

Biomarker analysis

Biomarker data are summarized in Figure 4

Figure 4. Biomarker Analyses of Baseline Tumor Samples vs Patient Response

-GC ^a	
tezolizumab +	Paclitaxel +
BL-8040	Ramucirumab
(n = 13) ^b	(n = 12)°
2 (15.4)	2 (16.7)
[1.92, 45.45]	[2.09, 48.41]
0	0
[0.00, 24.71]	[0.00, 26.46]
2 (15.4)	2 (16.7)
[1.92, 45.45]	[2.09, 48.41]
1 (7.7)	8 (66.7)
[0.19, 36.03]	[34.89, 90.08]
8 (61.5)	2 (16.7)
[31.58, 86.14]	[2.09, 48.41]
3 (23.1)	8 (66.7)
[5.04, 53.81]	[34.89, 90.08]
10 (76.9)	10 (83.3)
1.92	5.75
6 (46.2)	6 (50.0)
5.91	8.1
; ORR, objective response rate;	

Data were missing from 2 patients in the atezolizumab plus BL-8040 arm

Criteria for disease control are either response and/or SD or better for \geq 12 weeks.

Paclitaxel + Ramucirumab (n = 12)°
6 (50.0)
12 (100)
12 (100)
9 (75.0)
6 (50.0)
6 (50.0)
1 (8.3)
0
1 (8.3)
9 (75.0)

Atezolizumab + BL-8040 **5** 150 -Confirmed Best Overall Response Partial Response Progressive Disease Stable Disease PD-L1 (SP263) 1% to < 5% 1% to < 25% 5% to < 10% 🔽 25% to < 50% > 10% 50% to < 75% mmune Phenotype Infiltrated Excluded Desert PD-L1 TC % (SP263) PD-L1 IC % (SP263) Intraepithelial CD8 (IE2 + IE3 %) 45 60 60 Intratumoral stroma CD8 (ITS2 + ITS3 %) 30 25 60 35 20 60 MSI-H MSI-H MSI-Status Paclitaxel + Ramucirumab Confirmed Best Overall Response Partial ResponseProgressive DiseaseStable Disease PD-L1 (SP263) < 1% 1% to < 5% 🔲 1% to < 25% 5% to < 10% 25% to < 50% > 10% 🚺 50% to < 75% Immune Phenotype Infiltrated Excluded Desert PD-L1 TC % (SP263) 3 0 2 0.5 3 0.5 1 PD-L1 IC % (SP263) Intraepithelial CD8 (IE2 + IE3 % ntratumoral stroma CD8 (ITS2 + ITS3 % MSI-Status

traepithelial: ITS, intratumoral stroma: MSI-H, microsatellite instability high: MSS, microsatellite stable: PD, progressive disease: PD-L1, programmed death-ligand 1; PR, partial response; SD, stable disease; TC, tumor cell. Immune phenotypes based on the following manual intraepithelial and intrastromal CD8 cutoffs: infiltrated, IE2 + IE3 \geq 20%; excluded, IE2 + IE3 < 20% and ITS2 + ITS3 \geq 20%; desert, E2 + IE3 and ITS2 + ITS3 < 20%.

CONCLUSIONS FOR MORPHEUS-PDAC AND MORPHEUS-GC

- Treatment with atezolizumab plus BL-8040 led to limited responses in patients with PDAC and GC
- No new safety signals were identified for the combination of atezolizumab plus BL-8040. The AEs observed were consistent with the known safety profiles of the individual study treatments
- Atezolizumab PK were generally comparable to historical data
- BL-8040 PK in patients with solid tumors have not been explored extensively to date, but data from MORPHEUS-PDAC suggest that the expected long receptor occupancy of BL-8040 is predicted to result in sustained PD effects
- Biomarker analyses showed that: - In MORPHEUS-PDAC, no associations were seen between any of the biomarkers evaluated and disease response, but the number of patients was small and most patients in the atezolizumab plus BL-8040 arm had disease progression
- In MORPHEUS- GC, the 2 patients who had a PR had microsatellite instability-high status and an inflamed tumor phenotype and were PD-L1-positive
- In the control arms, no association was observed between the biomarkers evaluated and responses to treatment

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