ARC-8: Phase 1/1b Randomized Study of Quemliclustat + Gemcitabine/Nab-Paclitaxel ± Zimberelimab in Patients With Treatment-Naive Metastatic Pancreatic Adenocarcinoma

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INTRODUCTION

- Metastatic pancreatic ductal adenocarcinoma (mPDAC) remains one of the most difficult-to-treat tumor types, with a median survival of <1 year after diagnosis¹ Liver metastasis is a poor prognostic factor in mPDAC, with a median overall survival (OS) of 8.6 months (vs 13.8 months without liver metastasis) with the treatment of gemcitabine/nab-paclitaxel (G/nP)²
- In PDAC, extracellular adenosine produced from adenosine triphosphate in the tumor microenvironment suppresses antitumor immune responses^{3,4} Quemliclustat (Q) is a potent and selective small-molecule inhibitor of soluble and cell-bound CD73, a key enzyme involved in the production of extracellular adenosine within the tumor microenvironment⁵⁻⁷
- CD73 expression is elevated in PDAC and correlates with poor clinical outcomes^{8,9}
- Zimberelimab (Z), a monoclonal antibody that binds PD-1 on T and NK cells preventing PD-L1-mediated immunosuppressive effects, and its monotherapy has demonstrated efficacy across multiple tumor types^{10,11}
- ARC-8 aims to evaluate Q±Z in combination with G/nP in mPDAC

METHODS

- ARC-8 (NCT04104672) is a phase 1b dose escalation and expansion study in patients with treatment-naive mPDAC
- Q 100 mg (Q100) was previously determined as the recommended dose for expansion based on pharmacokinetic, pharmacodynamic, and tolerability data, with no maximum tolerated dose identified in the dose escalation phase¹²
- Patients were treated with Q100 IV q2w with standard doses of G/nP with Z (240 mg IV q2w) in the dose expansion (Cohort A; QZ+G/nP) and in randomized (2:1) cohorts either with Z (Cohort A1; QZ+G/nP) or without Z (Cohort A2; Q+G/nP) (**Figure 1**)
- Adverse events (AEs) were recorded and graded per NCI CTCAE v5.0
- Clinical activity was assessed every 8 weeks per RECIST v1.1; endpoints included safety, overall response rate (ORR), OS, and progression-free survival (PFS)

Figure 1. Study Design



Study treatment may continue until disease progression, unacceptable toxicity, consent withdrawal, or by the investigator's decision

ECOG PS, Eastern Cooperative Oncology Group performance status; G/nP, gemcitabine/nab-paclitaxel; mPDAC, metastatic pancreatic ductal adenocarcinoma; R, randomization; RECIST, Response Evaluation Criteria in Solid Tumors; Q. quemliclustat: Z. zimberelimab.

RESULTS

Patient Characteristics

- As of June 19, 2023, 122 patients with treatment-naive mPDAC received Q100, including 93 patients treated with quadruplet QZ+G/nP (Pooled Q100 QZ+G/nP; dose escalation, n=6; Cohort A, n=26; and Cohort A1, n=61) and 29 patients treated with triplet Q+G/nP (Cohort A2; Figure 1)
- Median ages for Cohort A2. Cohort A1. and Pooled Q100 QZ+G/nP were 65.0 years, 66.0 years, and 66.0 years, respectively; 69.0%, 68.9%, and 64.5% had Eastern
- Cooperative Oncology Group performance status (ECOG PS) of 1 and 58.6%, 68.9%, and 66.7% had liver metastasis at baseline, respectively (Table 1) • As of the cutoff date, 13.8%, 3.3%, and 4.3% of patients in Cohort A2, Cohort A1, and Pooled Q100 QZ+G/nP, respectively, were ongoing on treatment, and 37.9%,
- 29.5%, and 28.0%% were ongoing study follow-up (**Table 1**) The most common reason for study treatment discontinuation was progressive disease (55.2%, 63.9%, and 61.3%, respectively), followed by withdrawal from treatment by patient (6.9%, 11.5%, and 12.9%, respectively)

 Table 1. Patient Characteristics and Disposition

	A2: Q+G/nP (n=29)	A1: QZ+G/nP (n=61)	Pooled Q100 QZ+G/nP (n=93)	All pooled Q100 Q(±Z)+G/nP (n=122)
Median age (IQR)	65.0 (61, 70)	66.0 (58, 72)	66.0 (58, 72)	65.5 (59, 72)
Aged ≥65, n (%)	16 (55.2)	36 (59.0)	54 (58.1)	70 (57.4)
Female, n (%)	14 (48.3)	30 (49.2)	44 (47.3)	58 (47.5)
Race, White/Asian/Black/other or NR, %	82.8 / 6.9 / 3.4 / 6.9	73.8/8.2/6.6/11.4	74.2 / 8.6 / 5.4 / 11.8	76.2 / 8.2 / 4.9 / 10.7
ECOG PS, 0/1, (%)	31.0 / 69.0	31.1 / 68.9	35.5 / 64.5	34.4 / 65.6
Liver metastasis present at baseline, ^a n (%)	17 (58.6)	42 (68.9)	62 (66.7)	79 (64.8)
Prior pancreatic cancer surgery, ^b n (%)	8 (27.6)	7 (11.5)	13 (14.0)	21 (17.2)
Any prior systemic anticancer therapy, n (%)	4 (13.8)	6 (9.8)	11 (11.8)	15 (12.3)
Any prior radiotherapy, n (%)	1 (3.4)	4 (6.6)	9 (9.7)	10 (8.2)
Median months since initial diagnosis ^c (min/max)	1.3 (0, 49)	0.9 (0, 55)	0.9 (0, 55)	1.1 (0, 55)
Ongoing treatment, n (%)	4 (13.8)	2 (3.3)	4 (4.3)	8 (6.6)
Discontinued all treatment, n (%)	25 (86.2)	59 (96.7)	89 (95.7)	114 (93.4)
Ongoing study follow-up, n (%)	11 (37.9)	18 (29.5)	26 (28.0)	37 (30.3)
Discontinued study, n (%)	18 (62.1)	43 (70.5)	67 (72.0)	85 (69.7)

ECOG PS. Eastern Cooperative Oncology Group performance status; G/nP. gemcitabine/nab-paclitaxel; IQR. interguartile range; NR, not reported; Q, guemliclustat; Z, zimberelimab. ^a Derived from baseline tumor assessment data. ^b Derived from prior procedures data. ^c Stage not specified.

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RESULTS (continued)

Safety

- All patients reported at least one treatment-emergent AE (TEAE); among Cohort A2, Cohort A1, and Pooled Q100 QZ+G/nP patients, 89.7%, 85.2%, and 83.9% had grade \geq 3 TEAE and 24.1%, 23.0%, and 22.6% had AEs that led to discontinuation of study treatment, respectively (**Table 2**)
- Most commonly reported grade \geq 3 TEAEs were neutropenia (37.9%, 34.4%, and 38.7%, respectively) and anemia (27.6%, 26.2%, and 23.7%, respectively)
- Five deaths were reported with causes of death of respiratory failure (n=2), sepsis (n=1), gastrointestinal bleeding (n=1), and stroke (n=1); none of these were considered related to Q or Z
- No new safety signals were observed

Table 2. Summary of Adverse Events

	A2: Q+G/nP (n=29)	A1: QZ+G/nP (n=61)	Pooled Q100 QZ+G/nP (n=93)	All pooled Q100 Q(±Z)+G/nP (n=122)
Any TEAE	29 (100)	61 (100)	93 (100)	122 (100)
At least one Grade ≥3 TEAE	26 (89.7)	52 (85.2)	78 (83.9)	104 (85.2)
Serious TEAE	15 (51.7)	29 (47.5)	50 (53.8)	65 (53.3)
Grade 5 TEAE	0	4 (6.6)	5 (5.4)	5 (4.1)
AE leading to modification/interruption ^a	24 (82.8)	52 (85.2)	82 (88.2)	106 (86.9)
AE leading to discontinuation ^a	7 (24.1)	14 (23.0)	21 (22.6)	28 (23.0)
IRR (per CRF)	3 (10.3)	4 (6.6)	6 (6.5)	9 (7.4)
Immune-mediated AE (per CRF)	2 (6.9)	6 (9.8)	10 (10.8)	12 (9.8)

AE, adverse event; CRF, case report form; G/nP, gemcitabine/nab-paclitaxel; IRR, infusion-related reaction; Q, quemliclustat; TEAE, treatment-emergent AE; Z, zimberelimab. ^a Any study drug.

Efficacy

- ORR (unconfirmed) was 41% (95% CI, 24-61), 34% (95% CI, 23-48), and 38% (95% CI, 28-48) for Cohort A2, Cohort A1, and Pooled Q100 QZ+G/nP. respectively: median duration of response (DOR) was 5.5, 3.7, and 4.7 months, respectively (Table 3)
- The median PFS was 8.8 months (95% CI, 6.4-12.6), 4.9 months (95% CI, 3.7-6.0), and 5.4 months (95% CI, 4.9-7.3) for Cohort A2, Cohort A1, and Pooled Q100 QZ+G/nP. respectively (**Table 3**)
- ORR, DOR, median PFS, and PFS rates were consistently higher/longer in Cohort A2 compared with Cohort A1 (Table 3)
- The median OS was 19.4 months (95% CI, 12.1-23.0), 14.6 months (95% CI, 10.6-21.5), and 13.9 months (95% CI, 11.1-18.7) for Cohort A2, Cohort A1, and Pooled Q100 QZ+G/nP, respectively (**Table 3**, **Figure 2**)
- Median OS and OS rates were greater in Cohort A2 compared with Cohort A1 (Table 3, Figure 2)
- Cohort A2 had a smaller proportion of patients with liver metastasis at baseline (58.6%) compared with Cohort A1 (68.9%) and Pooled Q100 QZ+G/nP (66.7%) (Table 4) Median OS was 21.2 months (95% CI, 13.9-25.4) in Pooled Q100 QZ+G/nP without liver metastasis at baseline, compared with 11.1 months (95% CI, 8.1-14.5) in those
- with liver metastasis at baseline (**Table 4**) Median OS was 21.5 months (95% CI, 14.5-NE) in Pooled Q100 QZ+G/nP with a history of prior surgery, compared with 12.5 months (95% CI, 10.4-16.4) in those without prior surgery

Table 3. Summary of Efficacy

	A2: Q+G/nP (n=29)	A1: QZ+G/nP (n=61)	Pooled Q100 QZ+G/nP (n=93)	All pooled Q100 Q(±Z)+G/nP (n=122)
ORR, % (95% CI)	41 (24, 61)	34 (23, 48)	38 (28, 48)	39 (30, 48)
Confirmed ORR, % (95% CI)	38 (21, 58)	25 (15, 37)	26 (17, 36)	29 (21, 38)
Median DOR, months (95% CI)	5.5 (4.1, 11.2)	3.7 (2.6, 10.5)	4.7 (3.3, 9.3)	5.4 (3.7, 9.3)
Median PFS, mo (95% CI)	8.8 (6.4, 12.6)	4.9 (3.7, 6.0)	5.4 (4.9, 7.3)	6.3 (5.4, 7.7)
Median OS, mo (95% CI)	19.4 (12.1, 23.0)	14.6 (10.6, 21.5)	13.9 (11.1, 18.7)	15.7 (12.4, 20.9)
12-mo OS, %	72.3	60.9	59.6	62.7
18-mo OS, %	54.2	43.5	39.3	42.8
Median OS follow-up, mo (95% Cl)	21.1 (19.8, 22.3)	17.6 (16.6, 20.3)	20.3 (17.1, 24.6)	21.0 (19.0, 22.8)
Subsequent systemic anticancer therapy, %	48.3	42.6	46.2	46.7

Based on RECIST v1 DOR, duration of response; G/nP, gemcitabine/nab-paclitaxel; ORR, overall response rate; OS, overall survival; PFS, progression-free survival; Q, quemliclustat; RECIST, Response Evaluation Criteria in Solid Tumors; Z, zimberelimab.

Figure 2. Overall Survival by Kaplan Meier Analysis



G/nP, gemcitabine/nab-paclitaxel; OS, overall survival; Q, guemliclustat; Z, zimberelimab.

RESULTS (continued)

• To further understand the performance of the triplet regimen (Cohort A2), an analysis by the presence/absence of liver metastasis at baseline was conducted Table 1. Overall Survival by Presence of Liver Metastasis at Baseline

Table 4. Overall Survival by Presence of Liver Metastasis at Baseline				
Without Liver Metastasis at baseline	A2: Q+G/nP (n=12)	A1: QZ+G/nP (n=19)	Pooled Q100 QZ+G/nP (n=31)	All pooled Q100 Q(±Z)+G/nP (n=43)
Events (%)	4 (33.3)	7 (36.8)	16 (51.6)	20 (46.5)
Median OS, months	22.0	21.2	21.2	21.5
95% CI	17.9, NE	14.6, NE	13.9, 25.4	17.9, 25.4
With Liver Metastasis at baseline (Prev. ~65%)	A2: Q+G/nP (n=17)	A1: QZ+G/nP (n=42)	Pooled Q100 QZ+G/nP (n=62)	All pooled Q100 Q(±Z)+G/nP (n=79)
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Events (%)	11 (64.7)	26 (61.9)	40 (64.5)	51 (64.6)
Events (%) Median OS, months	11 (64.7) 12.1	26 (61.9) 12.2	40 (64.5) 11.1	51 (64.6) 12.1
Events (%) Median OS, months 95% CI	11 (64.7) 12.1 10.0, 20.9	26 (61.9) 12.2 6.2, 17.9	40 (64.5) 11.1 8.1, 14.5	51 (64.6) 12.1 10.0, 15.7

Based on Kaplan Meier analysis G/nP, gemcitabine/nab-paclitaxel; NE, not estimable; OS, overall survival; Q, quemliclustat; Z, zimberelimab.

The ~2-fold difference in median OS based on the presence of liver metastasis for Cohort A2. Cohort A1. and Pooled Q100 QZ+G/nP led to the development of an ad hoc exploratory analysis with a pooled arm from ARC-8, comprising the Pooled Q100 QZ+G/nP and Cohort A2, and a synthetic cohort arm (Table 4)

ARCUS & MEDIDATA AI SYNTHETIC CONTROL ARM PROJECT

OBJECTIVES

- Construct a synthetic control arm (SCA) to address the differences in patient characteristics in the ARC-8 cohorts (Table 1) using historical clinical trial data from patients treated with G/nP, balanced to the baseline characteristics of ARC-8 study participants (Figure 3) SCA-eligible pool from historical clinical trials that meet ARC-8 key entry criteria included 515 patients
- SCA included historical data from up to 4 global phase 2 and 3 trials (~50% each) with G/nP as the target intervention; the trials started in 2013-2019 and were completed in 2018-2023
- SCA was generated and matched to the All pooled Q100 Q(±Z)+G/nP (n=122), comprising dose escalation Q100 QZ+G/nP (n=6), Cohort A (n=26), Cohort A1 (n=61), and Cohort A2 (n=29, **Figure 1**)
- SCA was constructed using greedy nearest-neighbor matching in propensity score without replacement¹³ with exact matching on baseline liver metastasis while outcome data were blinded
- Assess treatment effects on objective response rate, PFS, and OS in the SCA patients • Compare the treatment effects and clinical activity between matched SCA and ARC-8 participants (Figure 3)

Figure 3. How a Synthetic Control Arm[®] Is Built



PFS, progression-free survival; OS, overall survival.

SCA SUMMARY: PRIMARY ANALYSIS (N=122)

Baseline demographics and characteristics

• Patients were matched from the SCA-eligible pool based on key criteria, including ECOG PS, liver metastasis status at baseline, and history of prior surgery for PDAC (**Table 5**)

 Table 5. SCA Population Baseline Demographics and Disease Characteristics Before and After Matching

	Before Matching	After Matching		
%	n) SCA Eligible (n=515)	All pooled Q100 Q(±Z)+G/nP (n=122)	SCA (n=122)	
ECOG PS 0	47.6 (245)	34.4 (42)	37.7 (46)	
ECOG PS 1	52.4 (270)	65.6 (80)	62.3 (76)	
Liver metastases at baseline	80.6 (415)	64.8 (79)	64.8 (79)	
Prior surgery for PDAC	8.9 (46)	17.2 (21)	15.6 (19)	
-COG PS, Eastern Cooperative Oncology Group performance status; G/nP, gemcitabine/nab-paclitaxel; PDAC, pancreatic ductal adenocarcinoma; Q, quemliclustat; SCA, synthetic control arm; Z, zimberelimab.				



G/nP, gemcitabine/nab-paclitaxel; OS, overall survival; Q, quemliclustat; SCA, synthetic control arm; Z, zimberelimab

CONCLUSIONS

- Results from ARC-8 demonstrate the addition of Q100±Z to G/nP was safe and tolerable, with no new safety signals or significant added toxicity to G/nP
- ORR, PFS, and OS were greater in Cohort A2 compared with Cohort A1; however, similar median OS values were seen across the different study arms once patients with/without liver metastasis were evaluated separately
- The OS data, including data by liver metastasis at baseline, were numerically greater than benchmark data²
- The OS data for all study arms containing Q, including the prolonged OS for the All pooled Q100 Q(±Z)+G/nP compared with SCA based on an ad hoc exploratory analysis, are promising and support further development of Q in mPDAC
- Biomarker studies are ongoing and the results will be presented at an upcoming congress

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