

Palbociclib in Participants with Pancreatic Cancer and Gallbladder or Bile Duct Cancer with *CDKN2A* Alterations: Results from the Targeted Agent and Profiling Utilization Registry (TAPUR) Study

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Background

- The TAPUR Study is a phase II multi-basket study designed to identify signals of anti-tumor activity of commercially available targeted agents used in patients (Pts) with advanced cancers that harbor genomic alterations known to be drug targets.
- In this report, data for two cohorts of Pts with 1) pancreatic and 2) gallbladder or bile duct cancers with *CDKN2A* loss or mutation treated with palbociclib are reported.

Methods

Study Design:

- Pts meeting protocol inclusion and exclusion criteria are assigned treatment according to pre-specified protocol matching rules based on genomic testing performed using commercially available tests selected by clinical sites.
- Eligible pts in this analysis had advanced pancreatic or gallbladder/bile duct cancer with *CDKN2A* loss or mutation.
- Pts received standard doses of palbociclib (P) (125 mg orally daily for 21 days, followed by 7 days off treatment to complete a 28 day cycle) until disease progression. Tumor evaluations were performed at weeks 8 and 16 after treatment initiation.
- Primary endpoint is objective response (OR) at or before 16 weeks (wks) or stable disease (SD) at 16 wks per RECIST v1.1. Secondary endpoints are progression-free survival (PFS), overall survival (OS) and toxicity per CTCAE.

Statistical methods:

- Simon's optimal two stage design was used to test the null hypothesis of 15% response rate versus the alternative of 35%.
- Power and alpha were set at 85% and 10%, respectively.
- Design requires 10 pts in stage 1 and if <2 pts have OR or SD at 16 wks, the cohort is closed.

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Table 1: Demographics and Baseline Characteristics

Characteristic	Palbociclib targeting <i>CDKN2A</i> , N (%)	
	Pancreatic Cancer (N=12)	Gallbladder or Bile Duct Cancer (N=10)
Tumor Type		
Age, years Median (range)	62 (52-70)	63 (54-81)
Sex	Male	8 (67%)
	Female	4 (33%)
Race	White	8 (80%)
	African-American	1 (10%)
	Other	1 (10%)
ECOG Performance Status	0	3 (25%)
	1	8 (67%)
	2	1 (8%)
	3	3 (30%)
Prior Treatments	#Pts with radiation therapy	2 (17%)
	#Pts prior systemic therapies	2 (20%)
	1	0 (0%)
	2	6 (50%)
Genomic Test Performed	3	6 (50%)
	FoundationOne	9 (75%)
	Caris MIPProfile	0 (0%)
	Guardant 360	0 (0%)
#Pts with additional genomic alterations reported	Other	3 (25%)
	0	5 (42%)
	1	5 (42%)
	2	1 (8%)
3	1 (10%)	

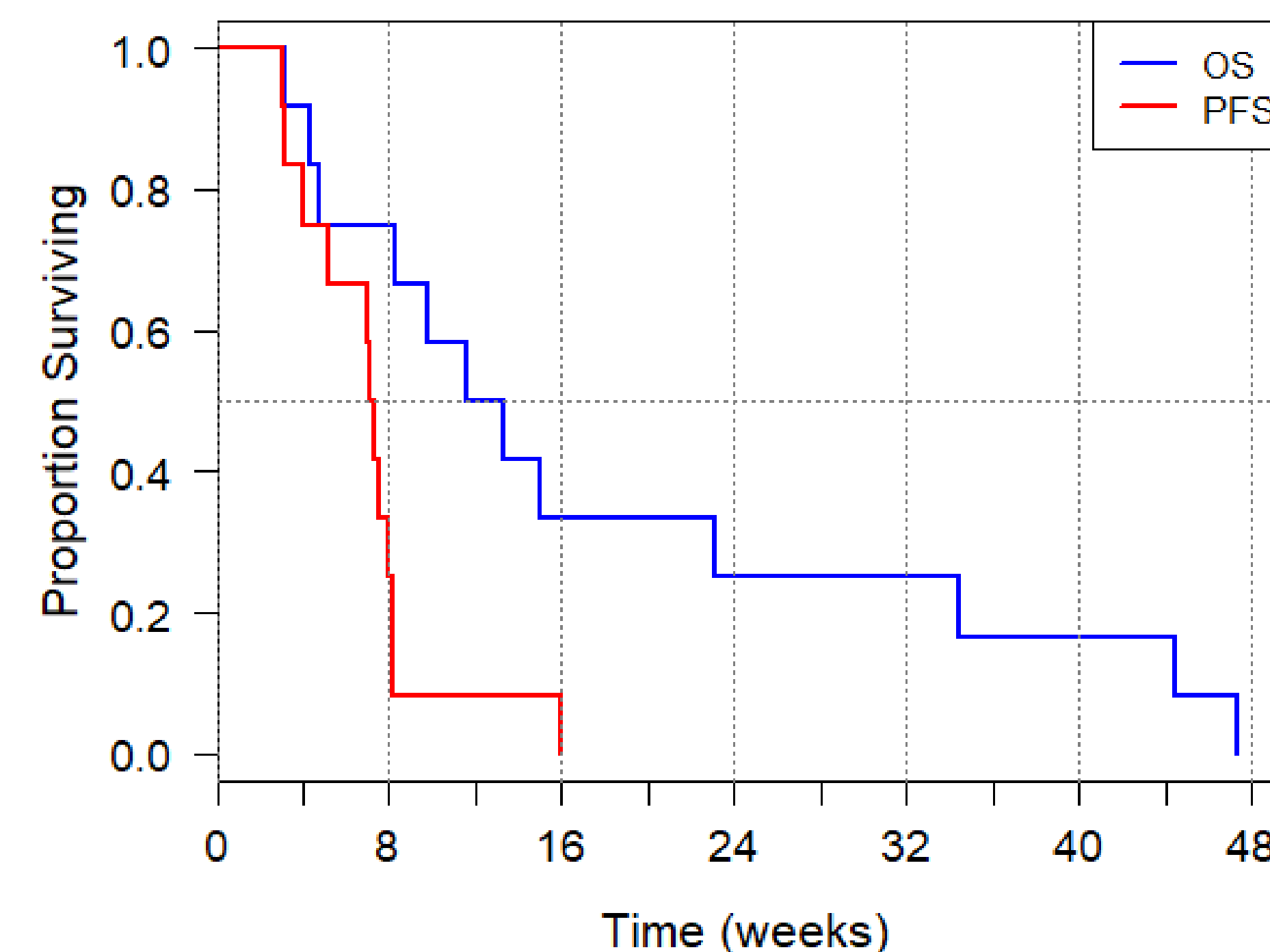
Results

- Baseline demographics and clinical characteristics are shown in Table 1. Other genomic alterations noted in both cohorts included *ARID1A*, *BRAF*, *FGFR1*, *FGFR2*, *FH*, *FRS2*, *KRAS*, *NRAS*, *PIK3CA*, *RAF1*, and *TP53* with *KRAS* being the most commonly reported in 7 of 22 pts.

Clinical Outcomes

- No ORs or SD at 16 wks were observed in the pancreatic or gallbladder/bile duct pts and both cohorts were therefore closed.

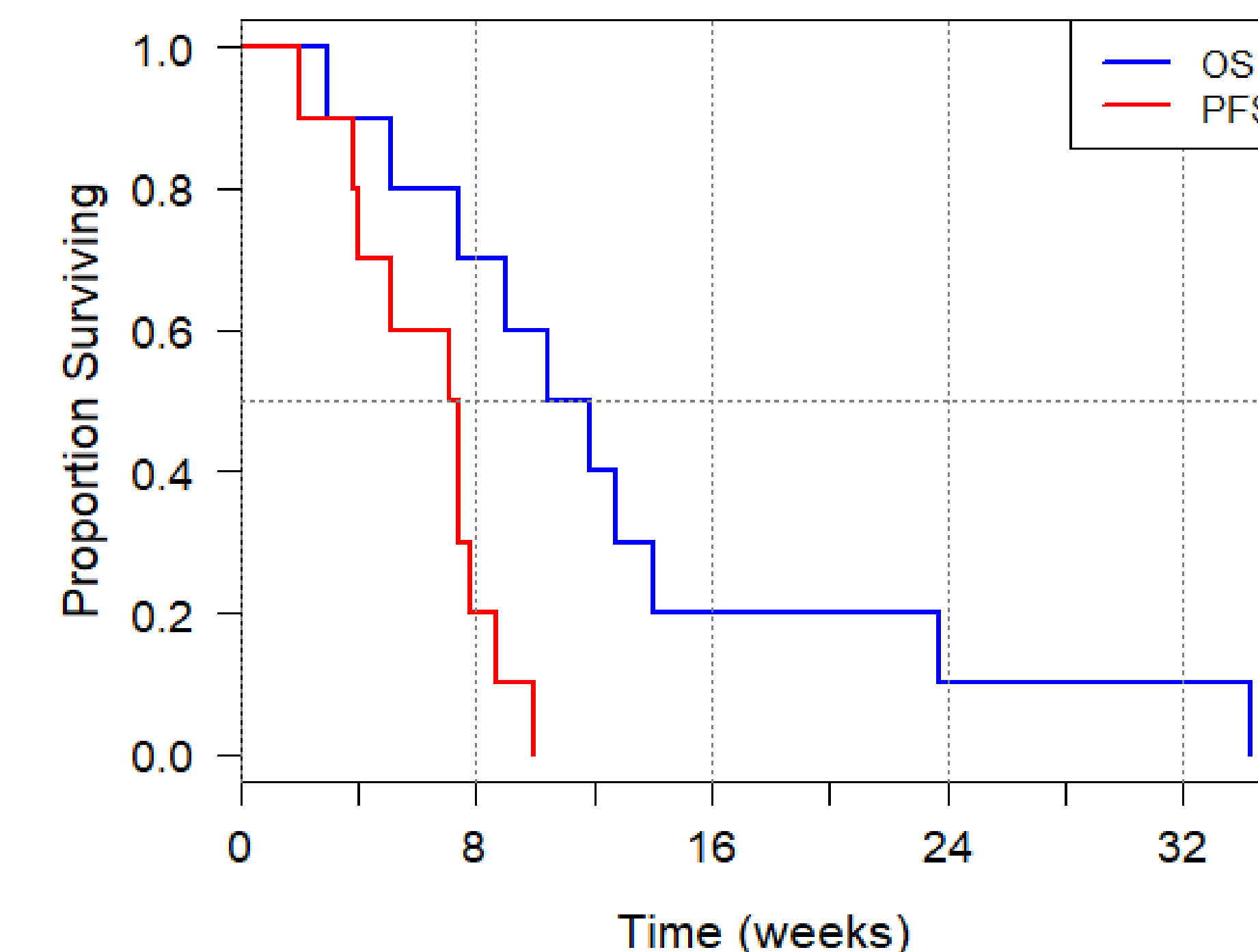
Figure 1: OS and PFS in Pancreatic Cancer Pts treated with palbociclib targeting *CDKN2A* loss or mutation



Pancreatic Pts (see Figure 1)

- 12 pts were enrolled from July 2016 to April 2017, but two were subsequently found to be ineligible. They are included in the data analysis for safety, PFS and OS.
- mPFS, wks, (90% CI) =7.2, (4.0, 8.0); mOS, wks, (90%CI)=12.4 (4.7, 23.1)
- One pt experienced grade 3 fatigue possibly related to P. No other grade 3, 4 or 5 AEs or SAEs reported as at least possibly related to P.

Figure 2: OS and PFS in Gallbladder and Bile Duct Cancer Pts treated with palbociclib targeting *CDKN2A* loss or mutation



Gallbladder and Bile Duct Pts (see Figure 2)

- 10 pts were enrolled from August 2016 to November 2017.
- mPFS, wks, (90% CI) =7.3, (3.9, 7.9); mOS, wks, (90%CI)=11.1 (5.1, 14.0)
- One pt experienced grade 3 SAE of muscle weakness and port infection possibly related to P. No other grade 3, 4, or 5 SAEs reported as at least possibly related to P. Four pts experienced grade 3 or 4 AEs of thrombocytopenia at least possibly related to P.

Conclusions

Monotherapy with P does not have clinical activity in pts with advanced pancreatic or gallbladder/bile duct cancers with *CDKN2A* loss or mutation. Toxicity is similar to previous experience with palbociclib. These pts should be offered other treatments, particularly clinical trials.

Acknowledgments

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