

# Abstract 4637: Olaparib in patients with pancreatic cancer with *BRCA1/2* inactivating mutations: Results from the Targeted Agent and Profiling Utilization Registry (TAPUR) Study

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## Background:

- TAPUR is a phase II basket study that evaluates anti-tumor activity of commercially available targeted agents in patients (pts) with advanced cancers with specific genomic alterations.
- Results of a cohort of pancreatic cancer (PC) pts with germline or somatic *BRCA1/2* inactivating mutations treated with olaparib (O) are reported.

## Methods:

### Study Design:

- Eligible pts:** Advanced PC, no standard treatment (tx) options, ECOG PS 0-2, adequate organ function, measurable disease. Tx assigned according to pre-specified matching rules based on genomic tests selected by sites.
- Pts received O tablets or capsules dosed at 300 mg (n=23) or 400 mg (n=7), respectively, orally BID until disease progression. Tumor evaluations performed at 8 and 16 wks then Q12 wks after treatment initiation.
- Primary endpoint:** Disease control (DC) defined as objective response (OR) or stable disease (SD) at 16+ wks per RECIST v1.1. **Secondary endpoints:** progression-free survival (PFS), overall survival (OS), and toxicity per CTCAE. Grade 3-5 adverse events (AEs) or serious adverse events (SAEs) at least possibly related to O are reported.

### Statistical Methods:

- Simon's optimal two-stage design used to test null hypothesis of 15% DC rate vs. alternative of 35%. Power = 85%; 1-sided  $\alpha = 10\%$ .
- $\geq 7$  of 28 pts must achieve DC to reject null hypothesis and consider tx worthy of further study.

**Olaparib has anti-tumor activity in heavily pre-treated patients with pancreatic cancer with germline or somatic *BRCA1/2* inactivating mutations.**

**Future Direction:** Findings consistent with recent studies of O in this pt population. Further study warranted.

### Results:

- 30 pts enrolled Nov 2016 to Aug 2019. 21 pts (70%) had *BRCA2* mutation; 9 (30%) had *BRCA1* mutation
- Demographics:** Median age 60 y (range 44-79); 63% male; 26 pts White; 2 Asian; 2 Black
- Clinical characteristics:** 30% PS 0, 57% PS 1, 13% PS 2; 53% received  $\geq 3$  prior systemic regimens; 47% received 1-2 prior regimens; 73% previously treated with platinum-based therapy
- Outcomes:** 2 PR and 6 SD16+ (Table 1 and Figure 1). Time on O among pts with SD and OR is shown in Figure 2.
- Safety:** 4 pts (13%) had  $\geq 1$  SAE or Grade 3 AE at least possibly related to O and consistent with previously reported AEs

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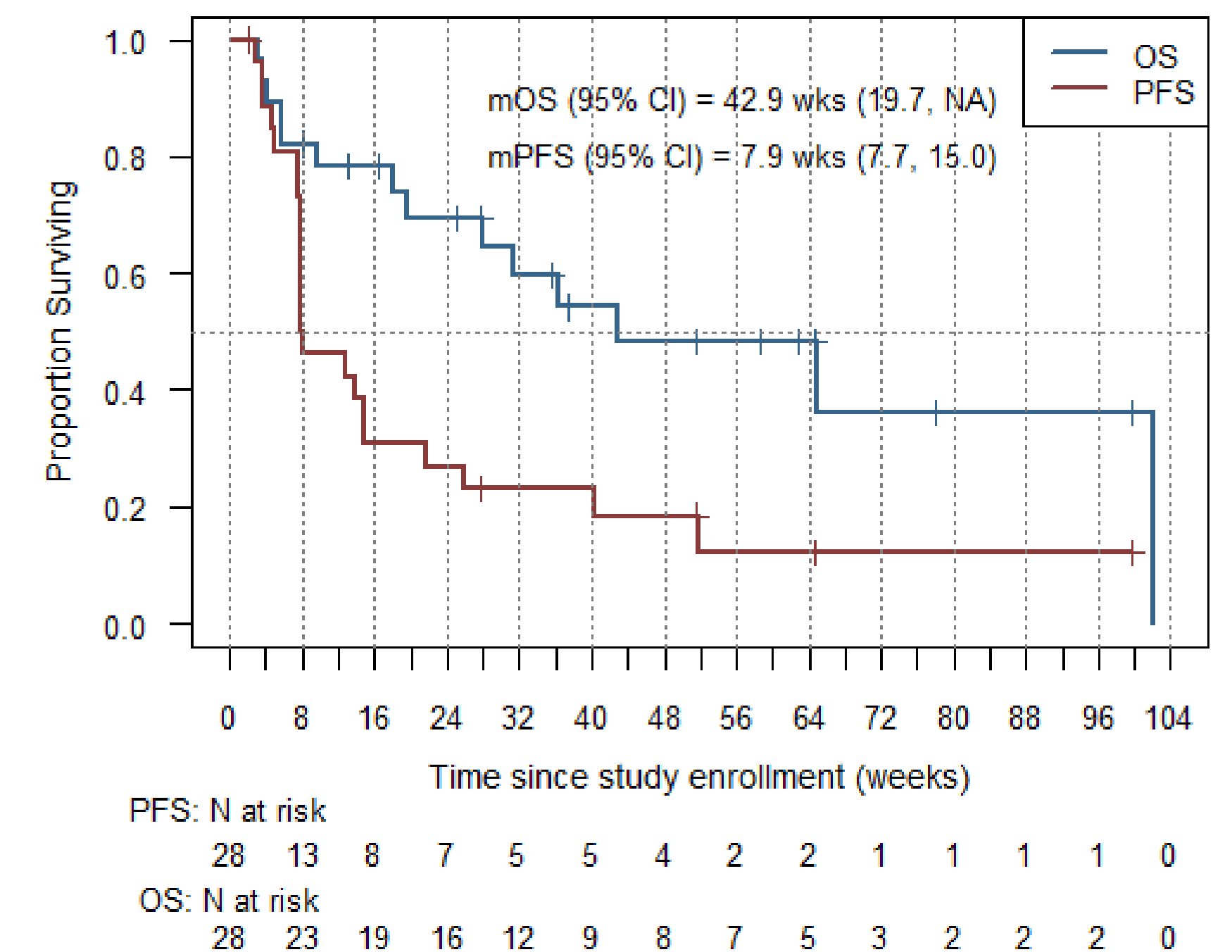
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**Table 1: Efficacy Outcomes (N=28)<sup>1</sup>**

<b>DC rate, % (90% CI)</b>	31 (18, 40)
<b>OR rate, % (95% CI)</b>	7 (0, 24)
<b>1 year OS, % (95% CI)</b>	48.2 (26.0, 67.3)

<sup>1</sup>2 enrolled pts were not evaluable and are excluded from efficacy analyses

**Figure 1: OS and PFS in Pts with Advanced PC with *BRCA1/2* Inactivating Mutations Treated with O (N=28)**



**Figure 2: Time on Treatment in Pts with SD or OR (N=8)**

