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Cycle 3

Cycle 5

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BACKGROUND

- Globally, breast cancer is the most frequently diagnosed tumor in women and represents up to 36% of all cancer patients¹
- Mutations in the TP53 gene occur in ~51% of breast cancers and appear to play an early and driving role in breast cancer formation^{2,3}
- TP53 mutations are generally associated with proliferative and aggressive breast tumors, such as large tumor size, axillary lymph node metastasis, high histologic grade, and estrogen receptor negativity³
- There is a high occurrence of *TP53* mutations in patients with TNBC, which typically has poorer outcomes⁴
- Reactivation of wild-type p53 is an attractive therapeutic approach for breast cancers with a TP53 mutation, particularly for TNBC where treatment options are limited due to a lack of biomarkers and effective targeted therapies⁴
- Rezatapopt (also known as PC14586) is an investigational, first-in-class, p53 reactivator that selectively binds to the mutated p53 Y220C protein and stabilizes the structure in the wild-type conformation, thereby restoring p53 activity⁵
- PYNNACLE (NCT04585750) is a Phase 1/2 clinical trial of rezatapopt in patients with locally advanced or metastatic solid tumors harboring a TP53 Y220C mutation⁶
- In Phase 1, rezatapopt demonstrated favorable safety and preliminary anti-tumor activity in heavily pre-treated patients (n=67 treated within the efficacious dose range of 1150 mg QD to 1500 mg BID)⁷
- Administration of rezatapopt with food improved gastrointestinal AEs including nausea and vomiting⁸

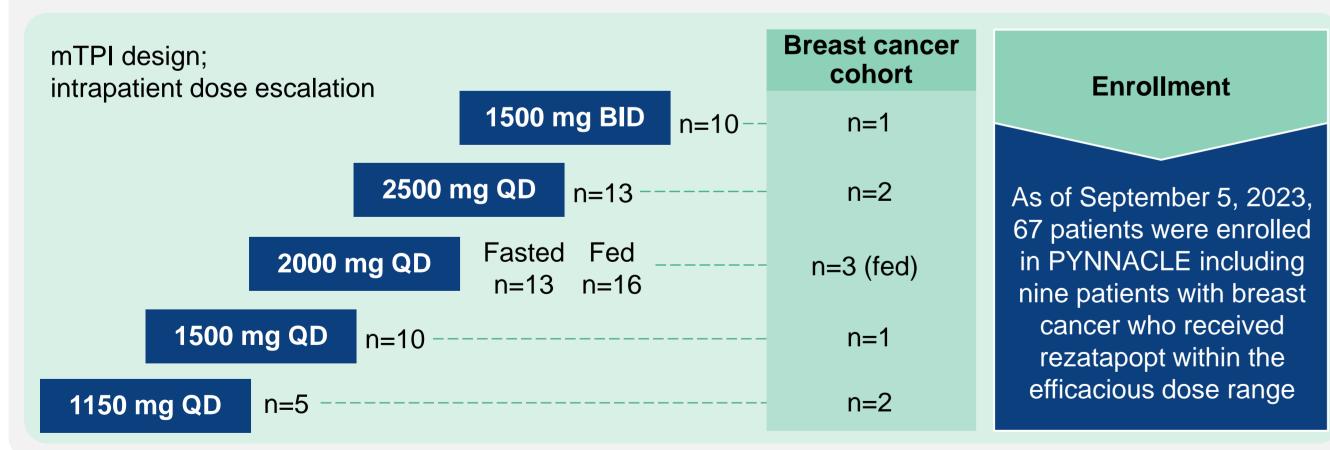
OBJECTIVE

 To assess the safety and efficacy of rezatapopt in the subgroup of patients with locally advanced or metastatic breast cancer harboring a TP53 Y220C mutation treated with rezatapopt (1150 mg QD to 1500 mg BID) in the Phase 1 part of the PYNNACLE study

METHODS

- Eligible patients (≥12 years of age) with locally advanced or metastatic solid tumors and a *TP53* Y220C mutation received increasing oral doses of rezatapopt for 21-day continuous cycles (1150 mg QD to 1500 mg BID; **Figure 1**)
- Safety and preliminary efficacy were assessed by the investigator using CTCAE v5.0 and RECIST v1.1, respectively
- Molecular profiling was performed using NGS to determine TP53 Y220C, BRCA, PIK3CA, and KRAS tumor mutation status
- Results reported here are from a data cutoff of September 5, 2023; information for the patient cases are as of August 2024

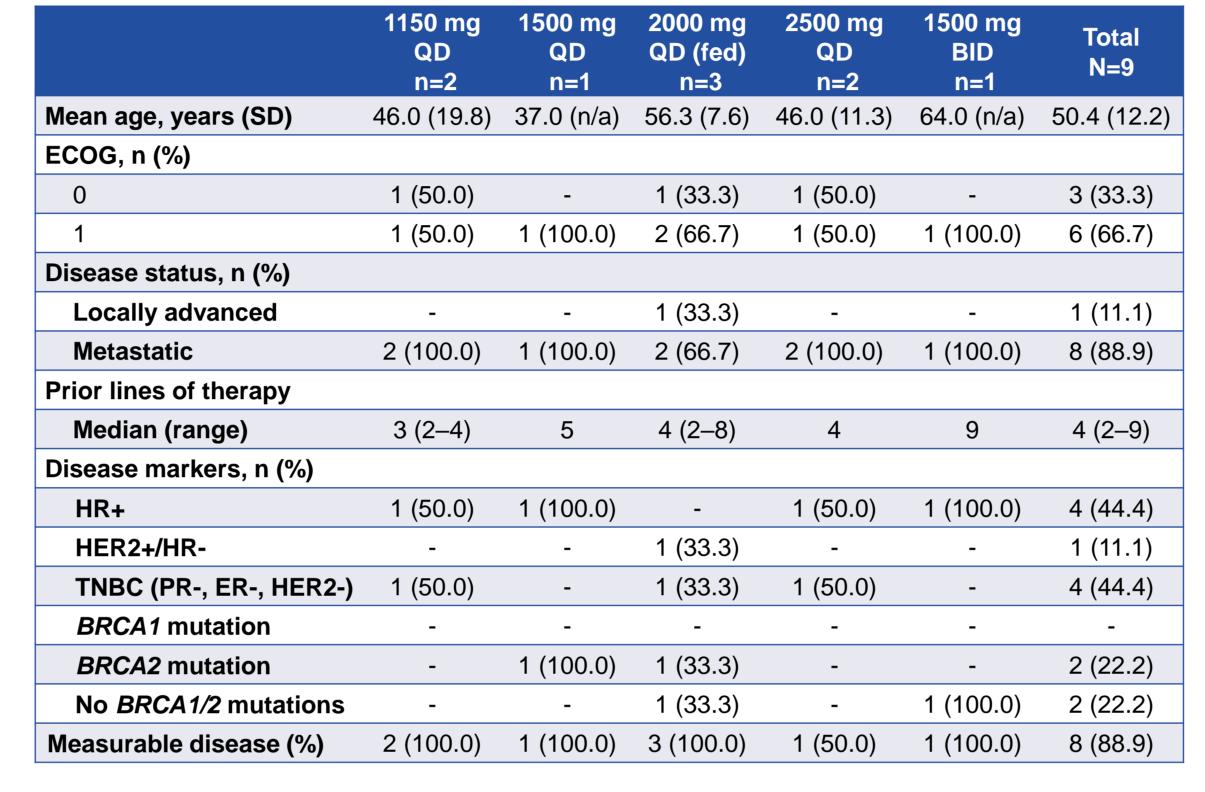
Figure 1. PYNNACLE Phase 1 study design: Open-label, multicenter, advanced cancer study (PMV-586-101, NCT04585750)



RESULTS

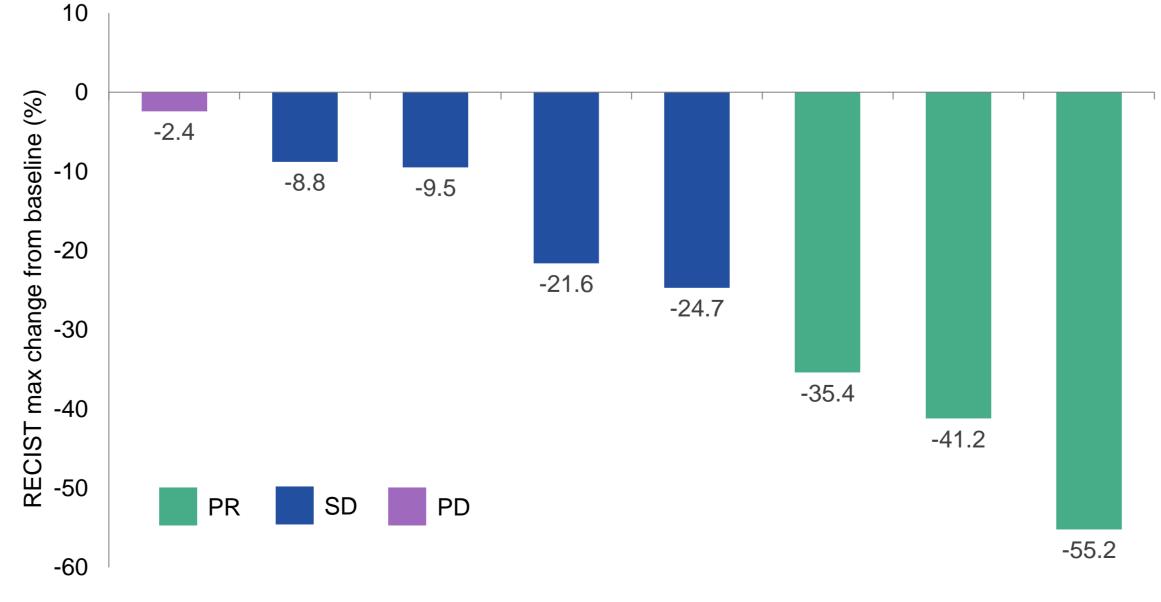
- Nine patients with breast cancer (HR+/HER2- n=3; HR+/HER2+ n=1; HER2+/HR- n=1; TNBC n=4) received rezatapopt within the efficacious dose range; the patient population is described in **Table 1**
- The mean (SD) age of patients was 50.4 (12.2) years with an ECOG PS of 0 (n=3) or 1 (n=6)
- Two patients had a somatic *BRCA2* mutation, no patient had a *BRCA1* mutation, two patients had a *PIK3CA* mutation, and all patients were *KRAS* wild type
- The median number of prior lines of systemic therapy was 4 (range 2–9); 78% of patients had received >3 prior lines

Table 1. Patient population



- As of the data cutoff (September 5, 2023), there were eight patients with breast cancer who had measurable disease at baseline and ≥1 post-baseline tumor assessment
- Three (37.5%) achieved a confirmed PR, four (50.0%) had SD, and one (12.5%) had PD as best objective response
- All patients had a reduction in target lesions, with a maximum reduction in tumor volume from baseline ranging from -2.4% (patient with PD) to -55.2% (patient with PR) (**Figure 2**)

Figure 2. Maximum change in target lesions from baseline after receiving rezatapopt (1150 mg QD to 2500 mg QD)*



* Data reported for 8/9 patients with breast cancer, who had measurable disease at baseline and ≥1 post-baseline tumor assessment

Among the total population receiving rezatapopt in the efficacious dose range in the Phase 1 PYNNACLE trial (N=67 patients with solid tumors), 60 patients had a TRAE (89.6%); the majority (71.7%) experienced Grade 1/2 events (Table 2)⁷

RESULTS

- In the breast cancer cohort (N=9), the frequency and severity of TRAEs were similar to the overall population
- Most events were Grade 1/2
- The most frequently reported TRAEs (in >1 patient) were: nausea (n=5; 56%); vomiting (n=4; 44%); diarrhea (n=3; 33%); fatigue (n=3; 33%); headache (n=2; 22%);
 AST increased (n=2; 22%)
- Increased blood creatinine occurred in one patient (11.1%)
- No patient discontinued rezatapopt due to a TRAE

Table 2. TRAEs in patients receiving rezatapopt (1150 mg QD to 2500 mg QD) in the overall population

	Patients, n (%) Max CTCAE Grade				
	Total N=67	Grade 1	Grade 2	Grade 3	Grade 4
ny TRAE	60 (89.6)	16 (23.9)	27 (40.3)	16 (23.9)	1 (1.5)
RAEs reported in >15% of patients					
ausea	34 (50.7)	22 (32.8)	11 (16.4)	1 (1.5)	_
omiting	29 (43.3)	16 (23.9)	12 (17.9)	1 (1.5)	_
lood reatinine creased	18 (26.9)	10 (14.9)	8 (11.9)	_	_
iarrhea	13 (19.4)	12 (17.9)	_	1 (1.5)	_
atigue	13 (19.4)	8 (11.9)	5 (7.5)	_	_
ST creased	12 (17.9)	4 (6.0)	5 (7.5)	3 (4.5)	_
LT creased	11 (16.4)	7 (10.4)	2 (3.0)	2 (3.0)	_

PYNNACLE patient case studies

Prior treatme

- Neoadjuvant therapy (chemotherapy + pembrolizumab)
 Bilateral mastectomy followed by pembrolizumab maintenance, radiotherapy, and breast reconstruction
- Pegylated liposomal doxorubicin for disease recurrence
 PD in axilla with extensive skin lesions on adjacent breast
- PD in axilla with extensive skin lesions on adjacent breas and arm, limiting mobility

Patient received rezatapopt 2000 mg QD (fed)

- Rapid healing of skin ulcerations, visible reduction in arm swelling, improved mobility of arm & fingers in first week
 PR at 6 weeks (41% reduction in axilla lesion) confirmed
- at 13 weeks and ongoing

 TTR: 5.6 weeks; DoR: 59.7+ weeks; PFS: 65.3+ weeks
- TTR: 5.6 weeks; DoR: 59.7+ weeks; PFS: 65.3+ weeks; HFS: 65.3+ weeks; DoR: 59.7+ weeks; PFS: 65.3+ w

TNR

Prior treatment

Prior treatment

- Inflammatory breast carcinoma treated with neoadjuvant chemotherapy
- Right mastectomy and axillary lymphadenectomy followed by adjuvant chemotherapy
- Immunotherapy and chemotherapy (pembrolizumab with carboplatin + gemcitabine) with PD;
 sacituzumab govitecan-hziy with PD
- · Received whole-brain radiation for brain metastases

Patient received rezatapopt 2000 mg QD (fed)

PR confirmed up to 19 weeks (35% reduction from BL)
TTR: 6.6 weeks; DoR: 12.1 weeks; PFS: 18.6 weeks;

TTR: 6.6 weeks; DoR: 12.1 weeks; PFS: 18.6 weeks; OS: 25.6 weeks

HR+/HER2-

Breast reconstruction and s/p bilateral mastectomy

- Prior lines of therapy included: fulvestrant + ribociclib; letrozole + alpelisib; capecitabine; weekly paclitaxel
- Hormonal + targeted therapy resulted in unknown response and PD; chemotherapy resulted in PD

Patient received rezatapopt 2500 mg QD

- PR confirmed up to 23 weeks (55% reduction from BL)
- TTR: 5 weeks; DoR: 18.3 weeks; PFS: 23.1 weeks; OS: 28 weeks

Baseline T021 Size 64.0 mm



CONCLUSIONS

- In this subgroup analysis of the Phase 1 part of the PYNNACLE trial, rezatapopt demonstrated promising preliminary single-agent efficacy in heavily
 pre-treated patients with advanced breast cancer harboring a TP53 Y220C mutation
- Rapid responses to rezatapopt treatment were observed in responders, with some responses seen at the first tumor assessment
- Rezatapopt had a favorable safety profile with improvements in gastrointestinal AEs observed when administered with food
- The PYNNACLE tumor-agnostic registrational Phase 2 trial, which includes a breast cancer cohort, will assess rezatapopt as monotherapy at the RP2D
 of 2000 mg QD taken with food in patients with TP53 Y220C-mutated and KRAS wild-type locally advanced or metastatic solid tumors

ADDREVIATIONS AE, adverse event; ALT/AST, alanine/aspartate

aminotransferase; BID, twice daily; BL, baseline; CTCAE, Common Terminology Criteria for Adverse Events; DoR, duration of response; ECOG PS, Eastern Cooperative Oncology Group Performance Score; mTPI, modified toxicity probability interval; n/a, not applicable; NGS, next-generation sequencing; OS, overall survival; PD, progressive disease; PFS, progression-free survival; PR, partial response; QD, once daily; RECIST, Response Evaluation Criteria in Solid Tumors; RP2D, recommended phase 2 dose; SD, stable disease; TNBC, triple negative breast cancer; TRAE,

treatment-related adverse event; TTR, time to response

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isclosures

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