Concomitant Apalutamide and Relugolix in Patients With High-Risk Localized Prostate Cancer: Testosterone Suppression 1-Year Update

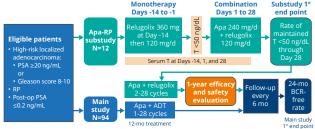
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INTRODUCTION

- · Apalutamide (Apa) is an orally available androgen receptor inhibitor approved for nonmetastatic castration-resistant and metastatic castration-sensitive prostate cancer (PC) in combination with androgen deprivation therapy (ADT)¹
- Relugolix is a new oral form of ADT² that has not been extensively studied in combination, including with Apa, for the suppression of testosterone (T)
- The label for relugolix recommends doubling the dose to maintain castration levels of T when coadministered with CYP3A inducers
- Apa-RP is a single-arm, open-label, multicenter, phase 2 study that evaluates the biochemical recurrence (BCR)-free rate in patients with high-risk localized PC following radical prostatectomy (RP) who received 12 months of adjuvant Apa and ADT (Figure 1). Follow-up for this study is ongoing
- A substudy of Apa-RP assessed castration (T <50 ng/dL) and adverse events (AEs) seen with coadministration of Apa + relugolix in 12 patients (Figure 1). The primary end point was rate of castration through the initial 28 days of coadministration following a 14-day run-in with relugolix monotherapy
- We previously reported that coadministration of Apa + relugolix maintained castration at the 28-day time point without the need for dose adjustment of relugolix3
- Patients who maintained castration continued on to the main study for an additional 11 cycles of Apa + relugolix

FIGURE 1: Apa-RP substudy and main study



PSA, prostate-specific antigen.

PROSTATE CANCER

OBJECTIVE

 To assess maintenance of castration with Apa + relugolix through 1 year of coadministration

METHODS

- T levels at the following time points were analyzed: at baseline (Day -14), on Days 1 and 28, then every 3 months for 1 year, and at 30 days post treatment discontinuation
- Treatment-emergent AEs (TEAEs) are reported for the above time period

RESULTS

Patient disposition

- Of 12 enrolled patients, all continued on to the main study and continued
- 10 patients completed Apa + relugolix therapy at 1 year:
- 2 withdrew because of AEs before the 1-year time point (complications of COVID-19 and Stevens-Johnson syndrome)

Testosterone levels through 1 year

• Of 10 patients who completed therapy by 1 year, all maintained castration (T <50 ng/dL) (Figure 2 and supplement



- 8 patients recovered their T (>50 ng/dL) by 1 month after treatment discontinuation. The other 2 patients continue to be followed for
- Median T was 348.5 (182-697) ng/dL at Day -14, 8.5 (2.4-40) ng/dL at 1 year, and recovered to 229.5 (23-352) ng/dL at 1 month post treatment discontinuation (Figure 3)
- No patients required an increase in their relugolix dose

- All patients (100%) experienced an AE, with 50% being grade 3-4, and 25% considered serious (Table 1)
- The most common TEAEs were fatigue and hot flash (Table 1)

TABLE 1: Summary of TEAEs during 1 year of treatment with Apa + relugolix

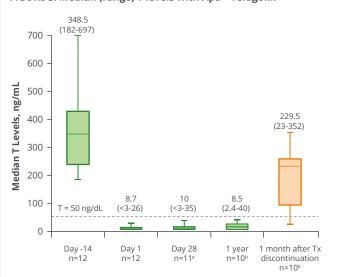
	Overall population N=12
TEAE, n (%)	Apa + relugolix
Any	12 (100)
Grade 3-4	6 (50)
Serious	3 (25)
TEAEs leading to Tx discontinuation, interruption, or dose reduction	2 (17)
TEAEs leading to death	0
TEAEs occurring in ≥2 patients Fatigue Hot flash Rash COVID-19 Arthralgia Back pain Headache	5 (42) 5 (42) 3 (25) 3 (25) 2 (17) 2 (17) 2 (17)

TEAEs were graded per Common Terminology Criteria for Adverse Events v 5.0.

FIGURE 2: Rates of castration through 1 year 60 40 Day -14 Day 1 Day 28 n=10^b n=12 n=12

^aOne patient had missing T measurement. ^bTwo patients withdrew.

FIGURE 3: Median (range) T levels with Apa + relugolix



One patient had missing T measurement. Two patients withdrew. Data are summarized descriptively.

1. ERLEADA (apalutamide) [prescribing information]. Janssen Pharmaceutical Companies, Horsham, PA. 2. Shore ND, et al. N Engl J Med. 2020;382:2187-2196. 3. Brown G, et al. Target Oncol.

KEY TAKEAWAY



Relugolix leads to effective, long-term castration without the need for dose adjustment when coadministered with apalutamide, with rapid recovery of testosterone upon treatment discontinuation

CONCLUSIONS



1-year Apa + relugolix coadministration maintained castrate T levels in all patients who completed therapy



8 patients were able to recover their T within 1 month of treatment discontinuation



The safety findings in this study were consistent with the known safety profiles of each drug

ACKNOWLEDGMENTS

DISCLOSURES

ow. RP, PA, AB, JP, and TM:

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