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MEETING SUMMARY

ASCO 2019, Chicago, USA

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PROSTATE CANCER UPDATE

mCSPC/mHSPC

DISCLAIMER



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INTRODUCTION

- Data presented on mHSPC and new treatment options
- To date docetaxel has been given to patients with high volume disease and abiraterone to those with high/low volume disease or high/low risk patients with newly mHSPC
- ASCO 2019 saw updated data presented for the ARCHES trial and new data from the ENZAMET and TITAN trials

**THE ARCHES TRIAL:
PHASE III STUDY OF ADT WITH
ENZALUTAMIDE OR PLACEBO IN mHSPC
(PRIOR THERAPY SUBGROUP)**

Armstrong, et al. ASCO 2019 Abstract #5048

BACKGROUND

- ARCHES investigated the effect of enzalutamide (androgen receptor inhibitor) in combination with ADT in men with mHSPC
 - Initial data presented at ASCO GU 2019¹
- Patients with high and low volume disease were included (CHAARTED criteria) and patients with and without prior docetaxel treatment¹
- This latest analysis presents data from pre-specified subgroups based on prior therapy

PRIMARY: TIME TO rPFS OR DEATH (WITHIN 24 WEEKS OF TREATMENT DISCONTINUATION)

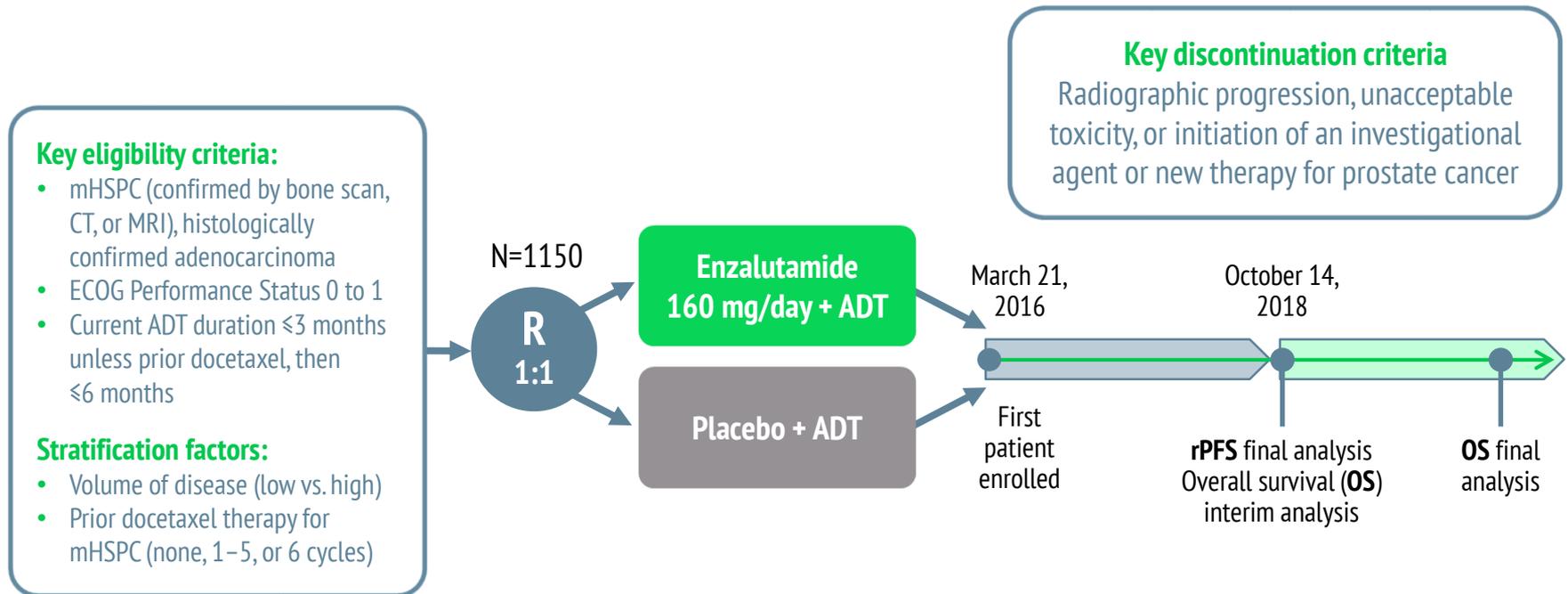
Key Secondary Endpoints

- Time to PSA progression
- Time to use of new antineoplastic therapy
- PSA undetectable rate
- ORR
- Time to deterioration in urinary symptoms
- OS

Other Secondary Endpoints

- Time to first symptomatic skeletal event
- Time to castration resistance
- Time to deterioration in QoL
- Time to pain progression
- Safety

ARCHES STUDY DESIGN



ADT, androgen deprivation therapy; CT, computerised tomography; ECOG, eastern cooperative oncology group; mHSPC, metastatic hormone sensitive prostate cancer; MRI, magnetic resonance imaging; OS, overall survival, rPFS, radiographic progression free survival

Armstrong, et al. Presented at ASCO GU 2019, Abstract Number 687; Armstrong, et al. Presented at ASCO 2019, Abstract Number 5048

ARCHES RESULTS

- ENZA+ADT significantly improved rPFS overall and in prior treatment subgroups

Efficacy endpoint		ENZA + ADT	PBO + ADT	HR (95% CI)
rPFS: overall, n, median, months		n=574 NR	n=576 19.4	0.39* (0.30, 0.50)
	Prior docetaxel	n=103 NR	n=102 14.0	0.53 (0.31, 0.92)
	No prior docetaxel	n=471 NR	n=474 19.4	0.36 (0.27, 0.48)
	Prior ADT or orchiectomy	n=535 NR	n=515 19.4	0.41 (0.31, 0.52)
	No prior ADT or orchiectomy	n=39 NR	n=61 NR	0.20 (0.06, 0.66)
Time to initiation of new antineoplastic therapy, n, median, months		n=574 30.2	n=576 NR	0.28* (0.20, 0.40)
Objective response rate, ‡ %		83.1*	63.7	–

*p<0.0001; ‡ of those with measurable disease at baseline; NR, not reached

- Grade 3-4 AEs reported in 23.6% of ENZA patients vs 24.7% PBO patients.
No unexpected AEs

ADT, androgen deprivation therapy; AE, adverse event; CI, confidence interval; ENZA, enzalutamide; HR, hazard ratio; PBO, placebo; rPFS, radiographic progression free survival

Armstrong, et al. Presented at ASCO 2019, Abstract Number 5048

SUMMARY

- **Enzalutamide + ADT significantly improved rPFS** compared to placebo + ADT in mHSPC patients
 - Significant improvement in rPFS was **also observed** for the enzalutamide + ADT **patients previously treated with docetaxel or ADT/orchiectomy**
- Still need to see overall survival data
- The safety profile of enzalutamide was consistent with that seen in previous trials in CRPC

**THE ENZAMET TRIAL:
PHASE III STUDY OF STANDARD OF
CARE WITH OR WITHOUT ENZALUTAMIDE
IN mHSPC**

Sweeney, et al. ASCO 2019 Abstract #LBA2

BACKGROUND

- ENZAMET investigates whether androgen receptor inhibition with enzalutamide added to testosterone suppression:
 - Will prolong overall survival
 - Is effective as a first line therapy for mHSPC
 - With or without concurrent docetaxel therapy
 - Is more effective than a standard NSAA added to testosterone suppression

PRIMARY: OVERALL SURVIVAL

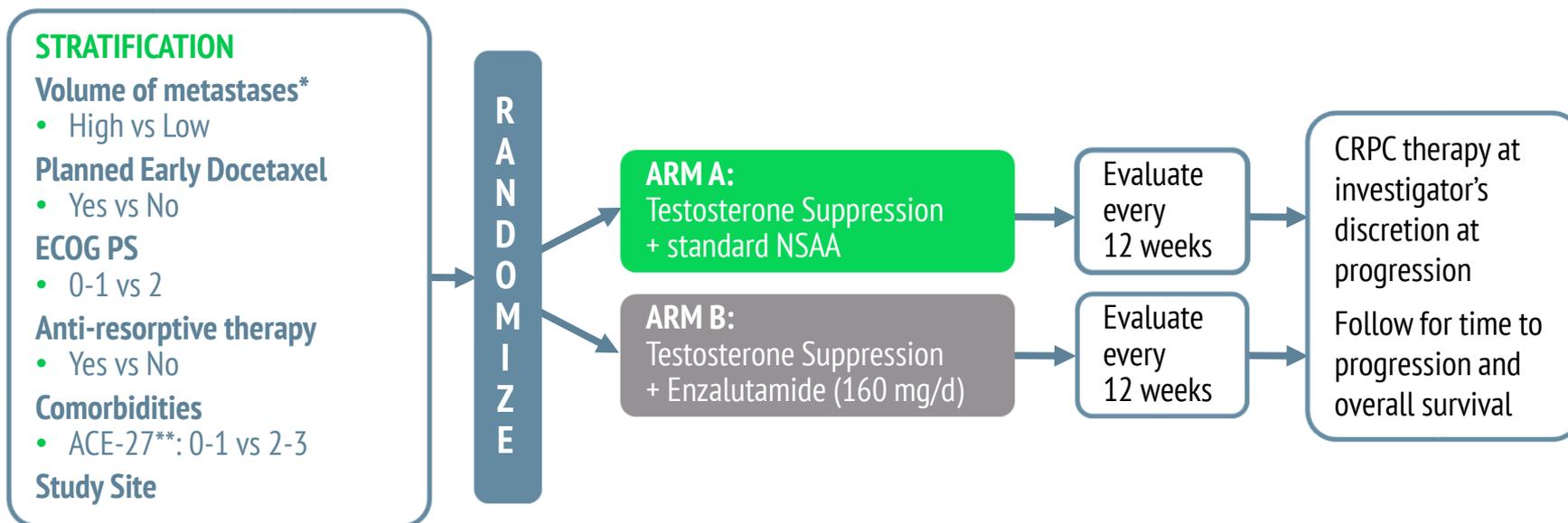
Key Secondary Endpoints

- PSA PFS
 - includes clinical progression if occurs first
- Clinical PFS
 - imaging, symptoms, signs
- Adverse events
 - CTCAE v4.03

Other Secondary Endpoints

- Health related QOL
- Health outcomes relative to cost
- Translational biological studies

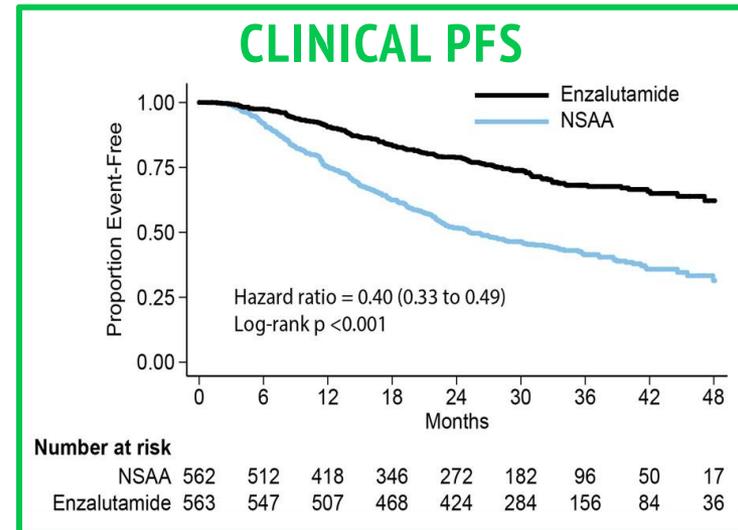
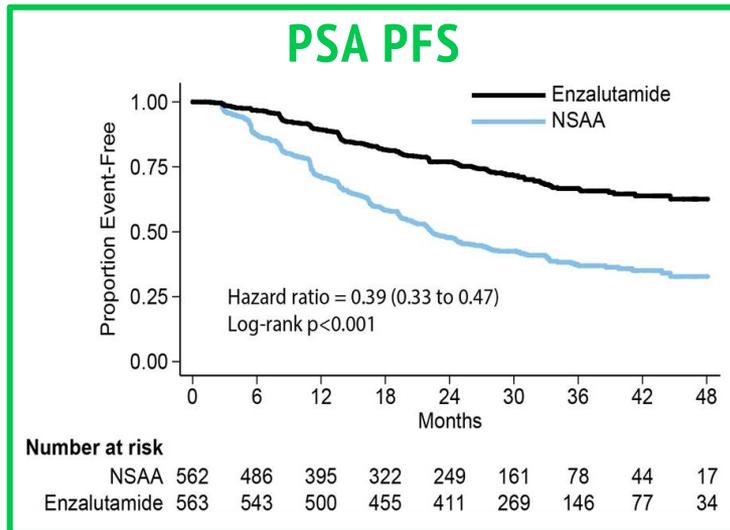
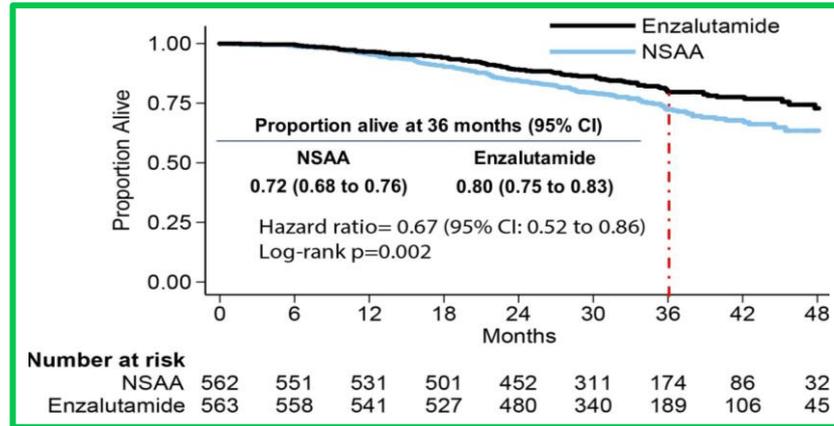
ENZAMET STUDY DESIGN



Prior to randomization testosterone suppression up to 12 weeks and 2 cycles of docetaxel was allowed; intermittent ADT and cyproterone were not allowed; NSAA: bicalutamide; nilutamide; flutamide; *High volume: visceral metastases and/or 4 or more bone metastases (at least 1 beyond pelvis and vertebral column); **Adult Co-morbidity Evaluation-27

ENZAMET RESULTS

OVERALL SURVIVAL

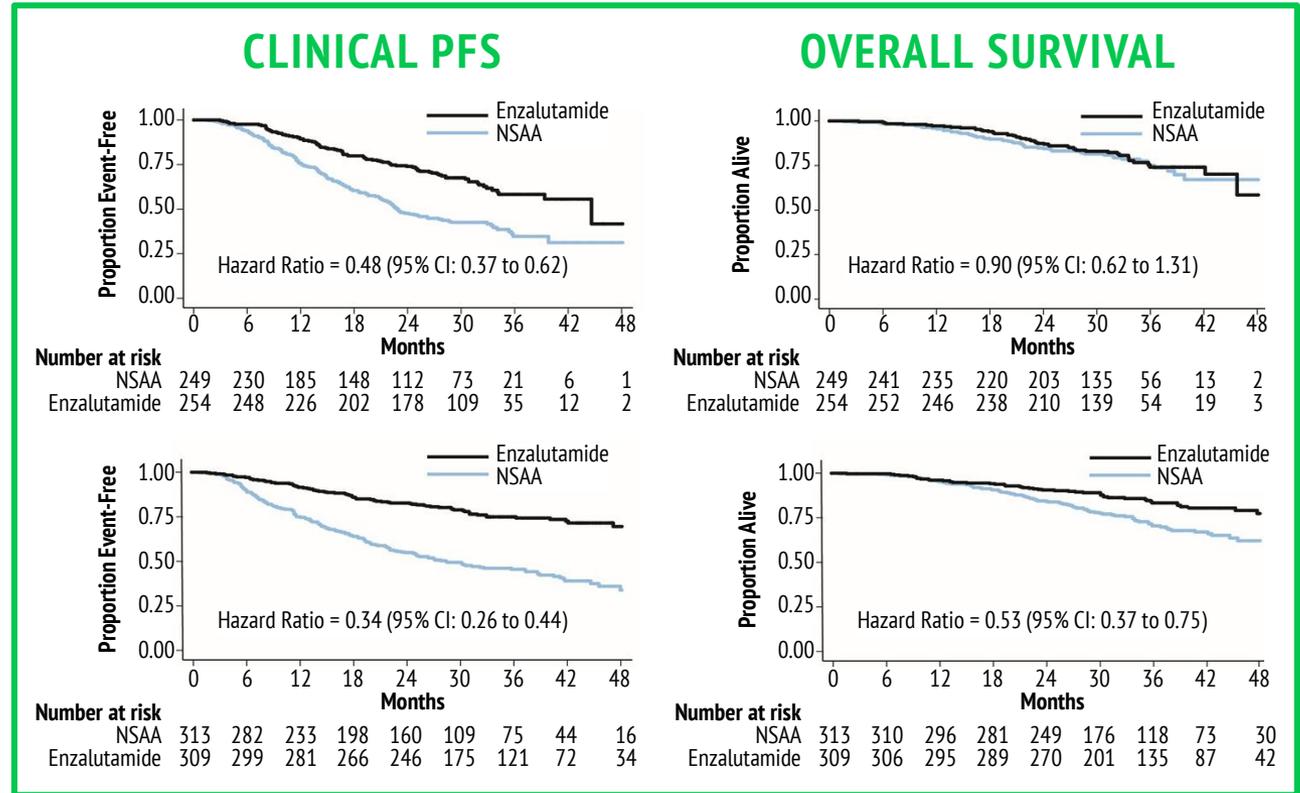


Median follow up of 33 months

RESULTS BY CONCURRENT DOCETAXEL THERAPY

**Testosterone suppression + Docetaxel
N=503
(71% High Volume)**

**Testosterone suppression + No Docetaxel
N=622
(37% High Volume)**



- 45% patients in ENZA + TS treatment group and 44 % patients in TS + NSAA treatment arms received concurrent docetaxel

SUMMARY

- Treatment with **enzalutamide + TS** resulted in an **overall survival benefit** for **mHSPC** patients
- Approximately 45% of patients received concurrent docetaxel treatment
- Addition of enzalutamide + TS + docetaxel appears to be no better than TS + docetaxel in terms of overall survival benefit
- More toxicity was seen with enzalutamide treatment compared to standard care
- Adding enzalutamide to docetaxel also increases adverse events

THE TITAN TRIAL: PHASE III STUDY OF APALUTAMIDE AND PLACEBO IN mHSPC PATIENTS RECEIVING ADT

Chi, et al. ASCO 2019 Abstract #5006

BACKGROUND

- TITAN investigates the effect of apalutamide (androgen receptor inhibitor) in combination with ADT in men with mHSPC
- Direct inhibition of AR may provide more complete reduction of androgen signalling than ADT alone and thus may improve clinical outcomes

DUAL PRIMARY: OVERALL SURVIVAL AND rPFS

Key Secondary Endpoints

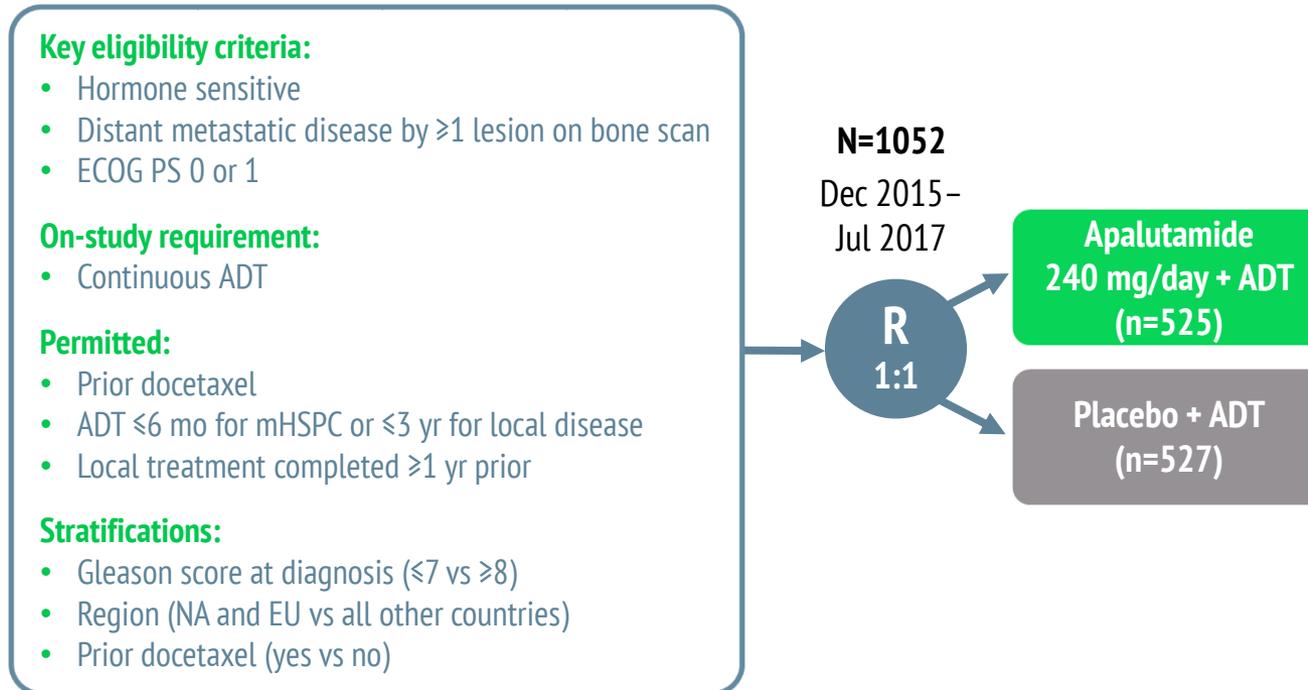
- Time to cytotoxic chemotherapy
- Time to pain progression
- Time to chronic opioid use
- Time to skeletal related event

Exploratory Endpoints

- Time to PSA progression
- Second progression-free survival (PFS2)
- Time to symptomatic progression

TITAN STUDY DESIGN

“All-comer” patient population



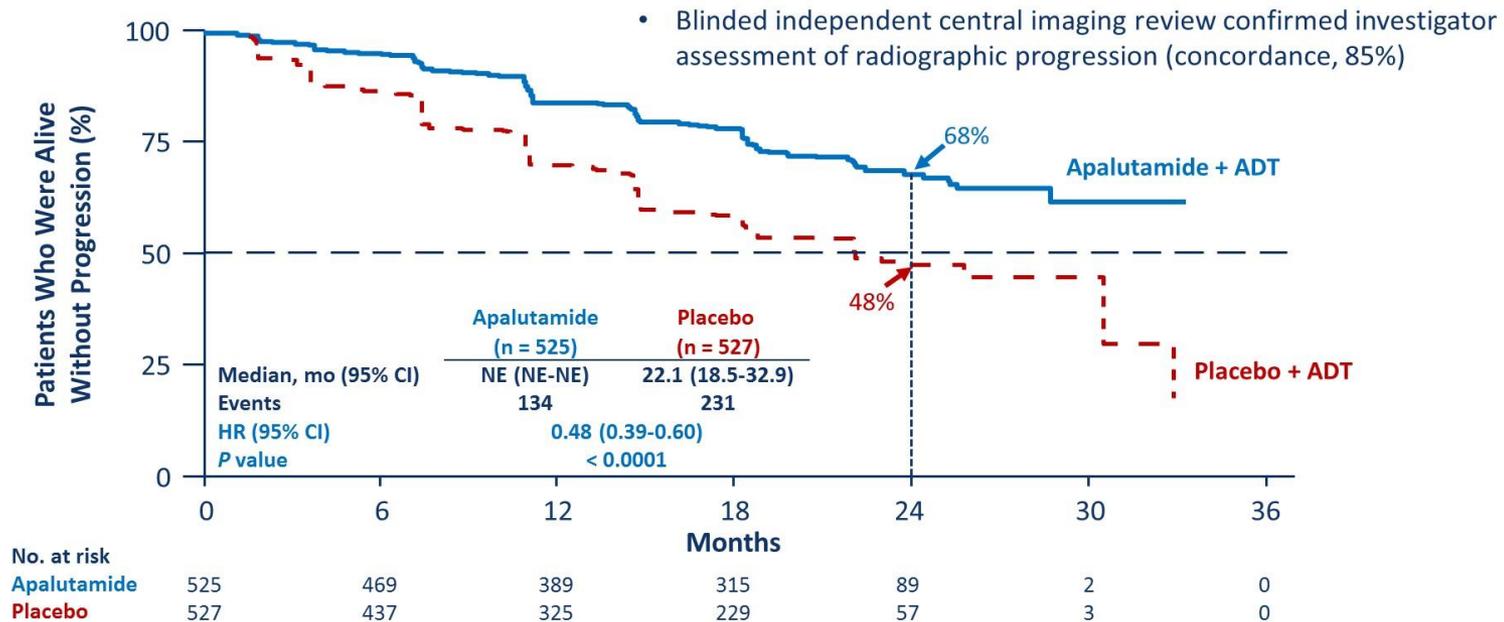
ADT, androgen deprivation therapy; ECOG, PS eastern cooperative oncology group performance status; EU, europe;
mHSPC, metastatic hormone sensitive prostate cancer; NA, north america;

Chi, et al. Presented at ASCO 2019, Abstract Number 5006

TITAN RESULTS

PRIMARY ENDPOINT: rPFS

- Apalutamide significantly reduced risk of radiographic progression or death by 52%



- rPFS benefit with apalutamide treatment was consistent across all subgroups studied

Median follow up approx. 22 months

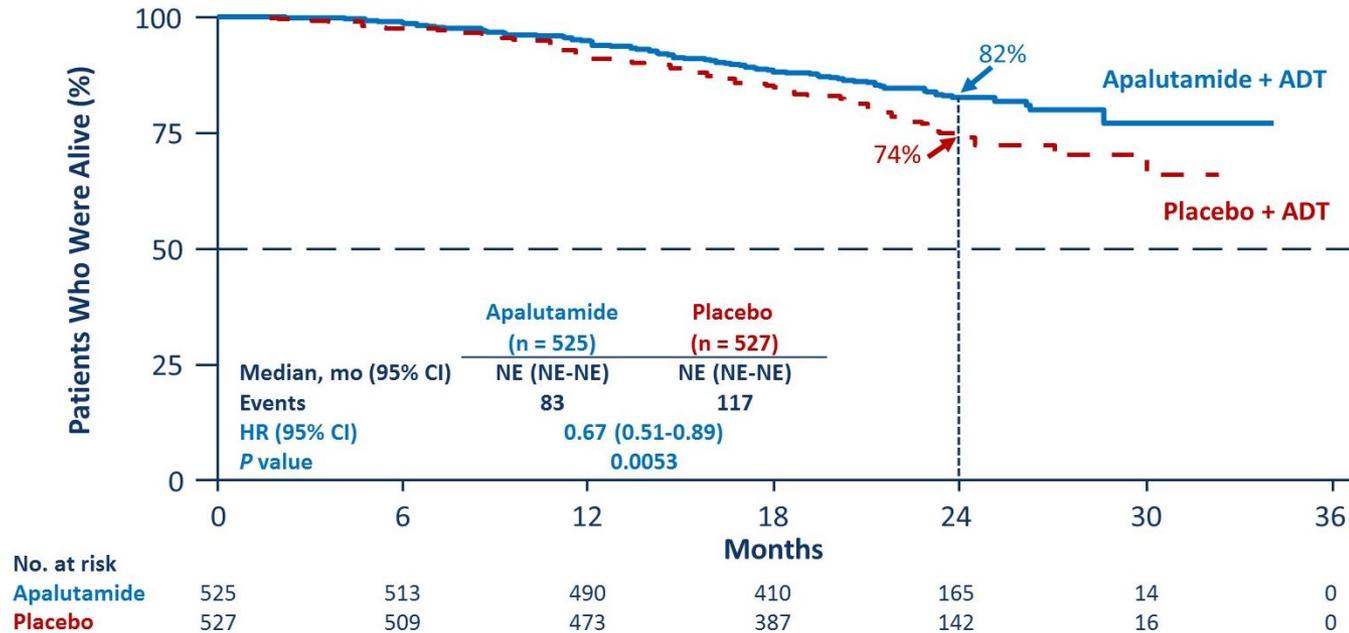
ADT, androgen deprivation therapy; CI, confidence interval; NE, not evaluable; rPFS, radiographic progression free survival

Chi, et al. Presented at ASCO 2019, Abstract Number 5006

TITAN RESULTS

PRIMARY ENDPOINT: OVERALL SURVIVAL

- Apalutamide significantly reduced risk of death by 33%



- OS benefit with apalutamide treatment was consistent across all subgroups studied

Median follow up approx. 22 months

ADT, androgen deprivation therapy; CI, confidence interval; NE, not evaluable; OS, overall survival

Chi, et al. Presented at ASCO 2019, Abstract Number 5006

SUMMARY

- **Overall Survival benefit** seen with **apalutamide + ADT** in patients with **mHSPC**
- All study endpoints favoured apalutamide treatment
- Subset of patients receiving docetaxel therapy was only 11%
 - too small to draw any conclusions regarding effects of docetaxel + ADT + apalutamide
- **Safety profile consistent** with the known side effects of apalutamide

CONCLUSION

- **Docetaxel** continues to be a **good treatment option** for patients with **mHSPC**
- Abiraterone, enzalutamide and apalutamide are all potent androgen pathway inhibitors
- No definitive data presently available **to support** the clinical benefit of adding these treatments to chemotherapy

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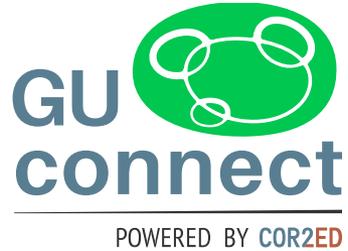
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