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MEETING SUMMARY
ESMO 2020, VIRTUAL MEETING

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HIGHLIGHTS FROM GU CONNECT
SEPTEMBER 2020

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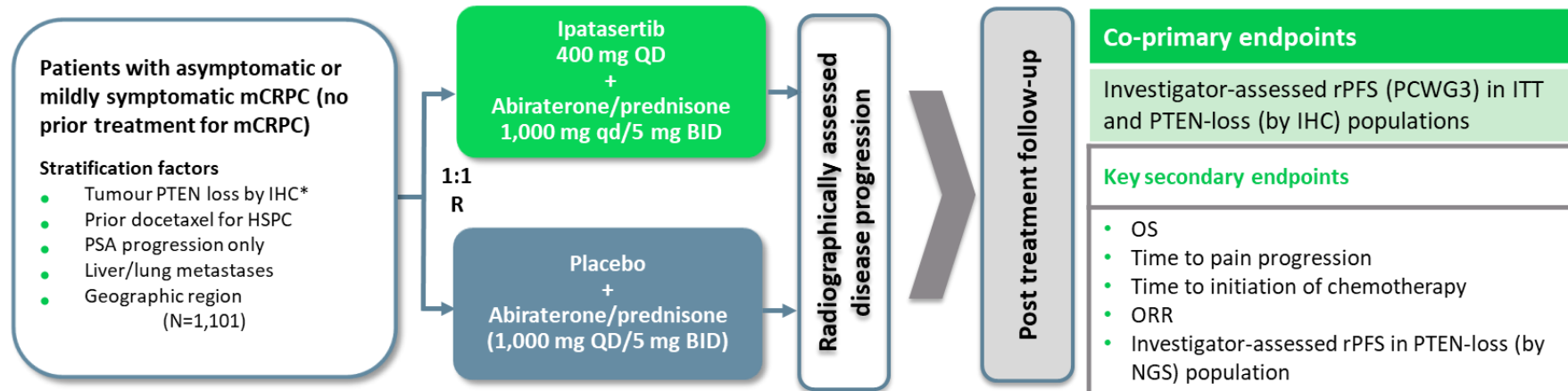
IPATential150: PHASE 3 STUDY OF IPATASERTIB PLUS ABIRATERONE VS PLACEBO PLUS ABIRATERONE IN mCRPC

de Bono J, et al.

ESMO 2020. Abstract #LBA4. Oral presentation

IPATential150: BACKGROUND AND STUDY DESIGN

- **Ipatasertib is an oral adenosine triphosphate-competitive selective inhibitor of AKT1/2/3**, which is the central node of the phosphatidylinositol-3-kinase (PI3K)/AKT signalling pathway – a key driver of cancer cell growth and proliferation in prostate cancer^{1,2}
- The **PI3K/AKT pathway** has also been **implicated in resistance to anti-androgen therapy as androgen receptor (AR) inhibition** is associated with an increase in AKT pathway activation^{2,3}
- **Approx. 40-60% of patients with metastatic castration-resistant prostate cancer (mCRPC) have lost the AKT phosphatase PTEN. This results in hyperactivation of the PI3K/AKT pathway** and is associated with adverse outcomes such as increased tumour grade and stage, earlier biochemical recurrence after radical prostatectomy, metastasis, prostate cancer–specific death, and androgen-independent progression^{4,5}
- **The IPATential150 trial is investigating dual AR and PI3K/AKT inhibition in patients with previously untreated mCRPC⁶**

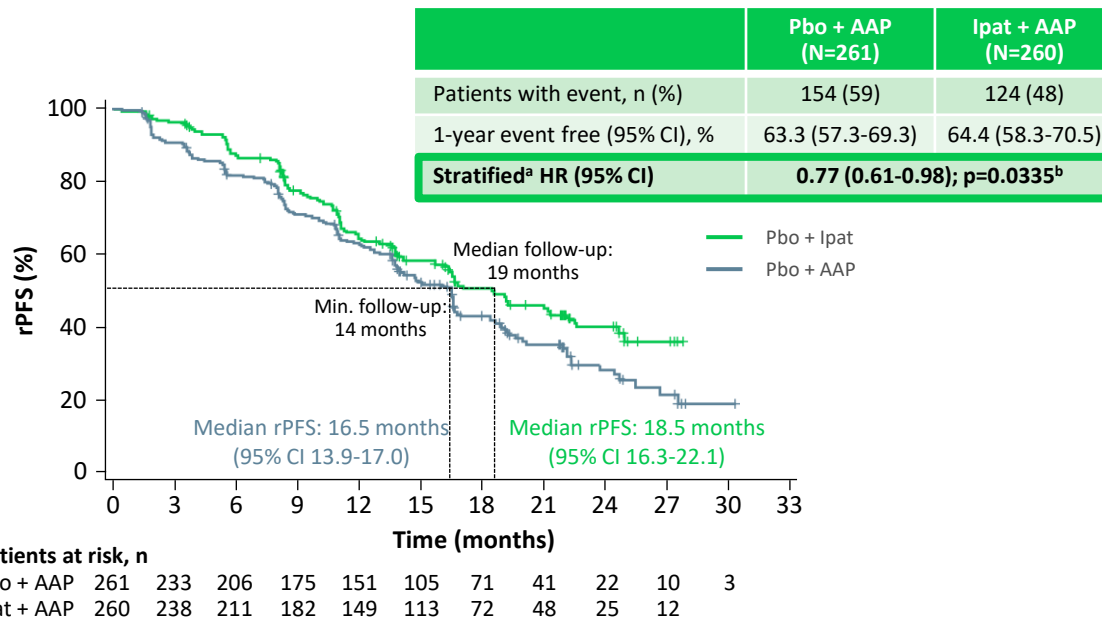


* PTEN loss defined as minimum of 50% of the specimen's tumour area with no detectable PTEN staining (by Ventana IHC assay using SP218 antibody)

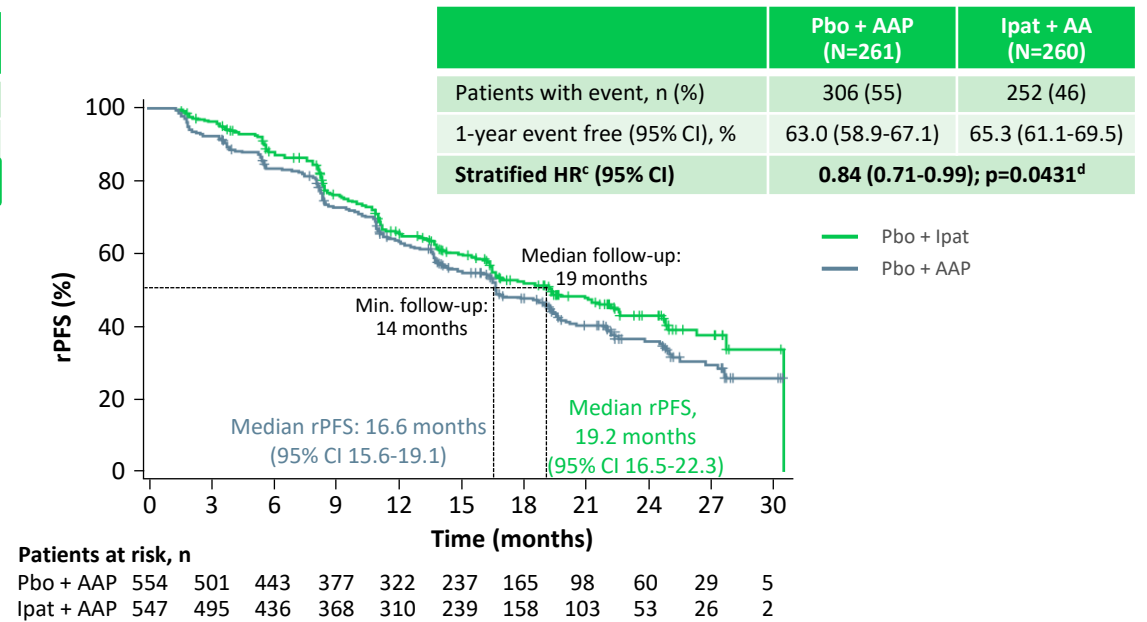
IPATential150: RESULTS

- Ipatasertib significantly improved radiographic progression-free survival (rPFS) compared to placebo for patients with phosphatase and tensin homologue (PTEN)-loss mCRPC, but not in the intention-to-treat (ITT) population
 - This effect was consistent across all pre-specified subgroups

rPFS in the PTEN-loss (by IHC) population



rPFS in the ITT population



Data cut-off date: 16 March 2020; ^a Stratified for prior taxane-based therapy and PSA-only progression factor; ^b Statistically significant at $\alpha = 0.05$ level;

^c Stratified for prior taxane-based therapy, PSA-only progression factor, and tumour PTEN loss status (by IHC); ^d Did not meet statistical significance $\alpha = 0.01$ level

AAP, abiraterone acetate + prednisone; CI, confidence interval; HR, hazard ratio; IHC, immunohistochemistry; Ipat, ipatasertib;

mCRPC, metastatic castration-resistant prostate cancer; Pbo, placebo; PSA, prostate specific antigen; de Bono J, et al. ESMO 2020. Abstract #LBA4. Oral presentation

IPATential150: RESULTS (CONT.)

SECONDARY EFFICACY ENDPOINTS

- Secondary endpoints favoured the combination arm

Secondary endpoints (efficacy)	PTEN loss (by IHC) (N=521)		ITT (N=1,101)	
	Pbo + AAP	Ipat + AAP	Pbo + AAP	Ipat + AAP
Time to PSA progression, n	261	260	554	547
Median (95% CI), months	7.6 (6.4-9.3)	12.6 (10.2-15.3)	8.4 (7.4-9.3)	12.9 (10.3-15.1)
Stratified ^{a,b} HR (95% CI)	0.69 (0.55-0.87); p=0.0013 ^c		0.73 (0.62-0.85); p<0.0001 ^c	
PSA response, n/N (%)	187/261 (72)	217/260 (84)	418/554 (76)	444/546 (81)
p value	0.0012 ^c		0.0183 ^c	
Time to pain progression, n/N (%)	95/261 (36)	73/260 (28)	187/554 (34)	156/547 (29)
Stratified ^{a,b} HR (95% CI)	0.77 (0.56-1.04)		0.87 (0.70-1.08)	
Confirmed ORR, n/N (%)	37/96 (39)	60/99 (61)	98/225 (44)	122/201 (61)
Difference (95% CI), %	22 (7-37)		17 (7-27)	
	PTEN loss (by NGS)			
rPFS, n	103	105	–	–
Median (95% CI), months	14.2 (10.9-18.7)	19.1 (13.9-NE)	–	–
Stratified ^a HR (95% CI)	0.65 (0.45-0.95)		–	–

SAFETY

Safety, %	Pbo + AAP (N=546)	Ipat + AAP (N=551)
SAEs	23	40
AEs leading to treatment discontinuation	5	21

^a Stratified for prior taxane-based therapy and PSA-only progression factor (PTEN loss [by IHC/NGS]);

^b Stratified for prior taxane-based therapy, PSA-only progression factor, and tumour PTEN loss (by IHC) (ITT);

^c Descriptive

AAP, abiraterone acetate + prednisone; CI, confidence interval; HR, hazard ratio; IHC, immunohistochemistry; Ipat, ipatasertib; ITT, intention to treat; NE, not evaluable; NGS, next-generation sequencing; ORR, overall response rate; Pbo, placebo; PSA, prostate specific antigen; rPFS, radiographic progression-free survival; PTEN, phosphatase and tensin homologue

de Bono J, et al. ESMO 2020. Abstract #LBA4. Oral presentation

IPATential150: SUMMARY

- **Ipatasertib plus AAP demonstrated a significantly superior rPFS and anti-tumour activity** compared to placebo plus AAP in patients with PTEN-loss mCRPC
 - Improvement of rPFS in the ITT population was not statistically significant
- **The safety profile of ipatasertib plus AAP was in line with known and potential risks** observed in clinical studies
- While initial data are encouraging, overall survival (OS) benefit and additional secondary endpoints are not yet mature. The trial will continue until the next planned analysis and data will be shared with health authorities

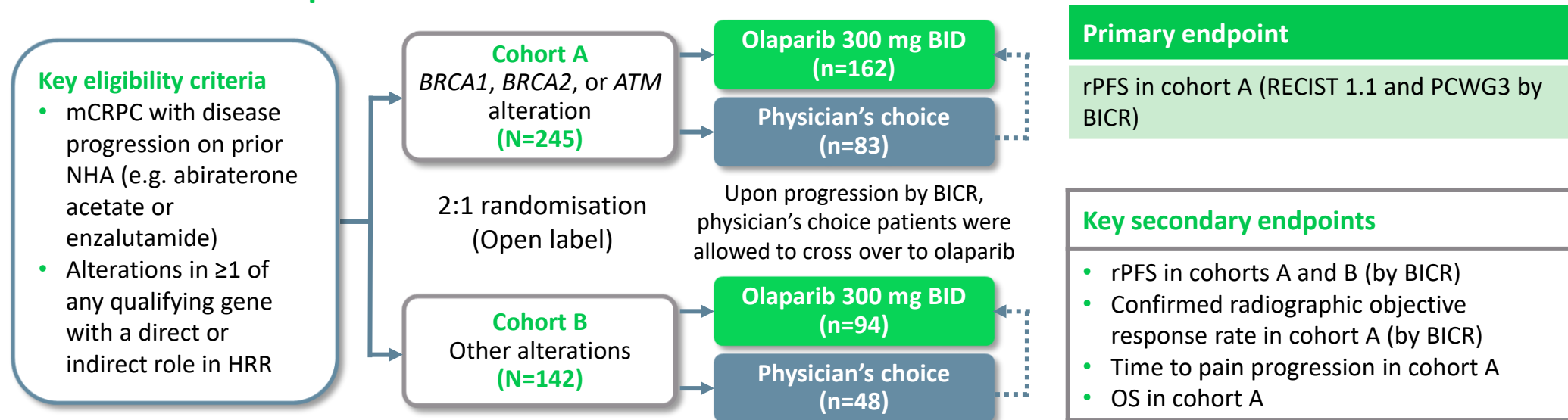
**FINAL OVERALL SURVIVAL ANALYSIS OF
PROfound: OLAPARIB VS PHYSICIAN'S CHOICE OF
ENZALUTAMIDE OR ABIRATERONE IN PATIENTS
WITH mCRPC AND HOMOLOGOUS
RECOMBINATION REPAIR GENE ALTERATIONS**

de Bono J, et al.

ESMO 2020. Abstract #6100. Oral presentation by Mateo, J

PROfound: BACKGROUND AND STUDY DESIGN

- **PROfound was the first** randomised **prostate cancer trial to use biomarker selection** to identify which mCRPC patients may respond to treatment. **Olaparib treatment was associated with statistically significant and clinically relevant improvements in BICR rPFS** compared to enzalutamide/abiraterone acetate in mCRPC patients with:
 - Alterations in *BRCA1*, *BRCA2*, and/or *ATM* (Cohort A)
 - Alterations in any of 15 pre-specified genes with a direct/indirect role in homologous recombination repair (HRR)
- **Final OS data are reported here**



Stratification factors

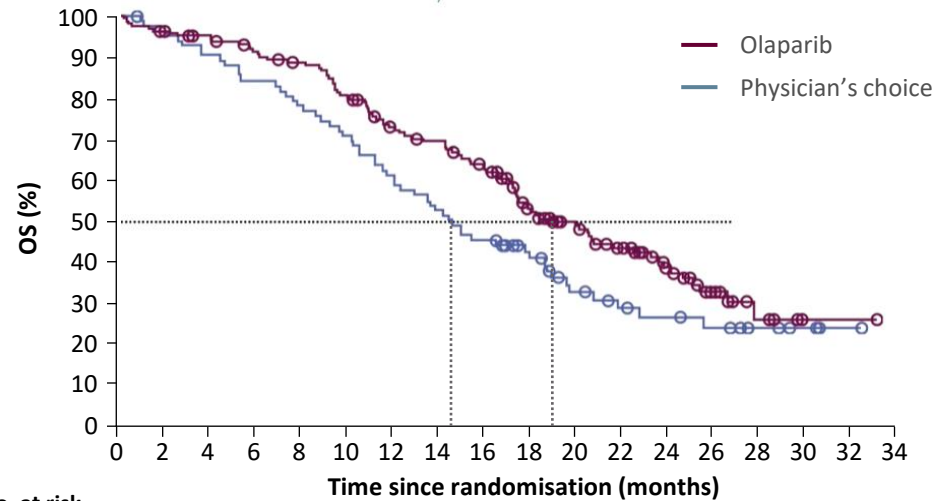
- Previous taxane; measurable disease
- Physicians choice: enzalutamide (160 mg QD) or abiraterone (1,000 mg QD + prednisone 5 mg BID)

ATM, ataxia telangiectasia mutated; BICR, blinded independent central review; BID, twice daily; BRCA1/2, breast cancer 1/2; mCRPC, metastatic castration-resistant prostate cancer; NHA, new hormonal agent; OS, overall survival; PCWG3, Prostate Cancer Working Group 3; RECIST, Response Evaluation Criteria In Solid Tumours; rPFS, radiographic progression-free survival; QD, once daily

de Bono J, et al. N Engl J Med. 2020;382:2091-102; Hussain M, et al. Ann Oncol. 2019;30 suppl 5:v881-2; abstract LBA12

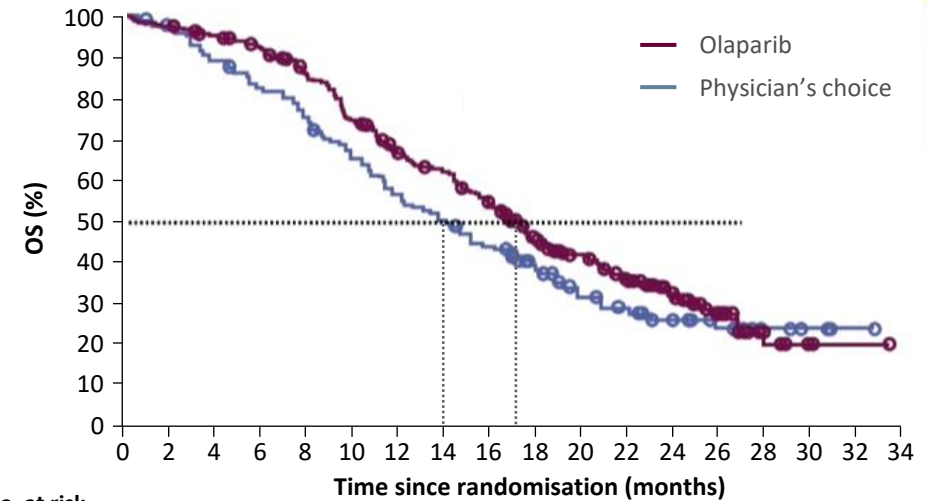
PROfound: RESULTS

OS IN COHORT A



No. at risk	
Olaparib	162 155 150 142 136 124 107 101 91 71 56 44 30 18 6 2 1 0
Physician's choice	83 79 74 69 64 58 50 43 37 27 18 15 11 9 6 3 1 0

OS IN OVERALL POPULATION



No. at risk	
Olaparib	256 249 240 228 209 182 157 146 126 96 73 56 39 22 7 2 1 0
Physician's choice	131 125 115 106 96 83 71 63 55 37 27 22 15 11 6 3 1 0

	Cohort A	
	Olaparib (N=162)	Physician's choice (N=83)
Median OS, months	19.1	14.7
HR (95% CI)	0.69 (0.50-0.97); p=0.0175	
Median follow-up, months	21.9	21.0

	Overall population	
	Olaparib (N=256)	Physician's choice (N=131)
Median OS, months	17.3	14.0
HR (95% CI)	0.79 (0.61-1.03); p=0.0515	
Median follow-up, months	20.7	20.5

- Patients randomised between April 2017 and November 2018; DCO for final OS: 20 March 2020
- Among patients with disease progression in the physician's choice arm, 67% in cohort A and 66% in the overall population crossed over to olaparib
- Longer follow-up yielded no new safety signals

PROfound: SUMMARY

- **PROfound is the first phase 3 study to show an OS benefit of a PARP inhibitor**
- **Despite extensive crossover** from the control arm, **olaparib demonstrated a statistically significant and clinically relevant prolongation of OS** compared to enzalutamide/abiraterone in patients with mCRPC with alterations in *BRCA1*, *BRCA2*, and/or *ATM*
- Pre-specified sensitivity analysis adjusting for treatment crossover suggests the treatment effect of olaparib will be greater than that observed in the PROfound study
- The safety profile of olaparib was consistent with the primary analysis¹
- Olaparib is approved by the FDA for patients with mCRPC with alterations in multiple DNA repair genes who have progressed on enzalutamide/abiraterone²

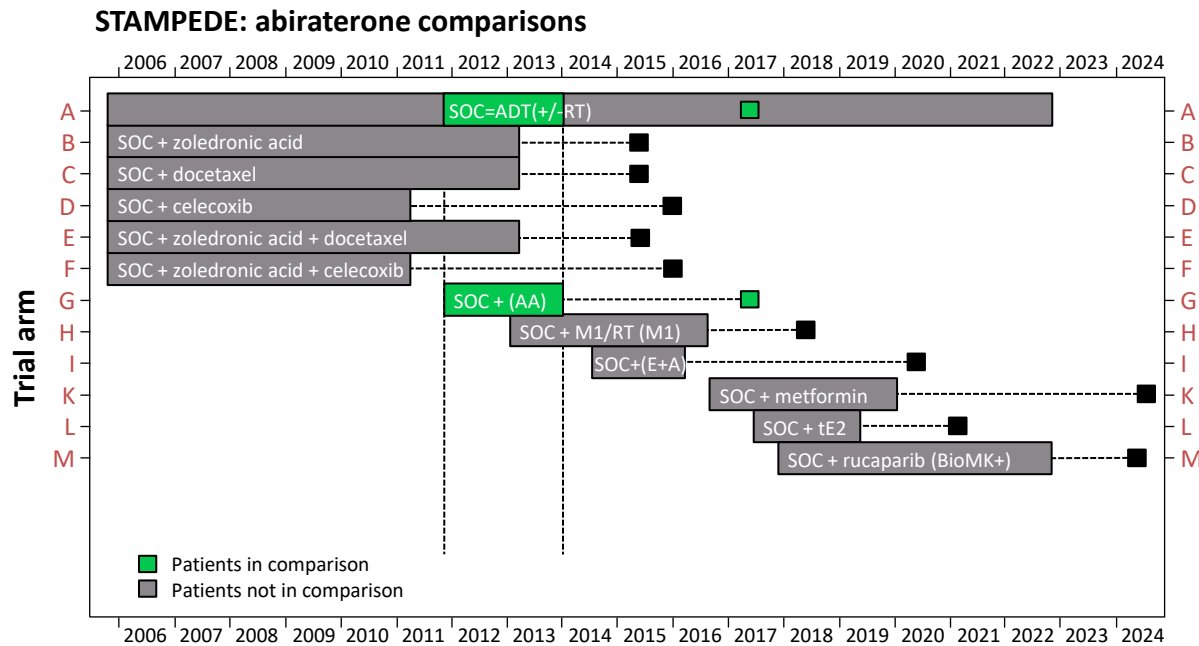
ABIRATERONE ACETATE PLUS PREDNISOLONE FOR HNPC: LONG-TERM RESULTS FROM METASTATIC PATIENTS IN STAMPEDE TRIAL

James N, et al.

ESMO 2020. Abstract #6110. Oral presentation

STAMPEDE: BACKGROUND

- In previously reported data from **STAMPEDE**, **abiraterone acetate plus prednisolone (AAP)** showed a **clear survival advantage in men starting long-term hormone therapy for prostate cancer**¹
- STAMPEDE included patients with and without metastatic disease (M1). **Here we report long-term outcomes in the subset of M1 patients**²



Patients: standard of care (SOC) (n=957), SOC + AAP (n=960)
Recruitment: November 2011 to January 2014

Long-term follow up analysis

- Database lock: 3 April 2020 (3 years after initial analysis)
- 1,003 patients had M1 disease at baseline
- Median follow-up: 6.1 years
- 329 control arm events
- 125 patients still receiving abiraterone acetate

Primary outcome measure: OS

Secondary outcome measures: FFS, PFS, MFS, SREs, toxicity

A/AA, abiraterone acetate; ADT, androgen deprivation therapy; BioMK+, biomarker positive; E, enzalutamide; FFS, failure-free survival; MFS, metastasis-free survival; OS, overall survival; PFS, progression-free survival; RT, radiotherapy; SRE, skeletal-related event; tE2, transdermal oestradiol

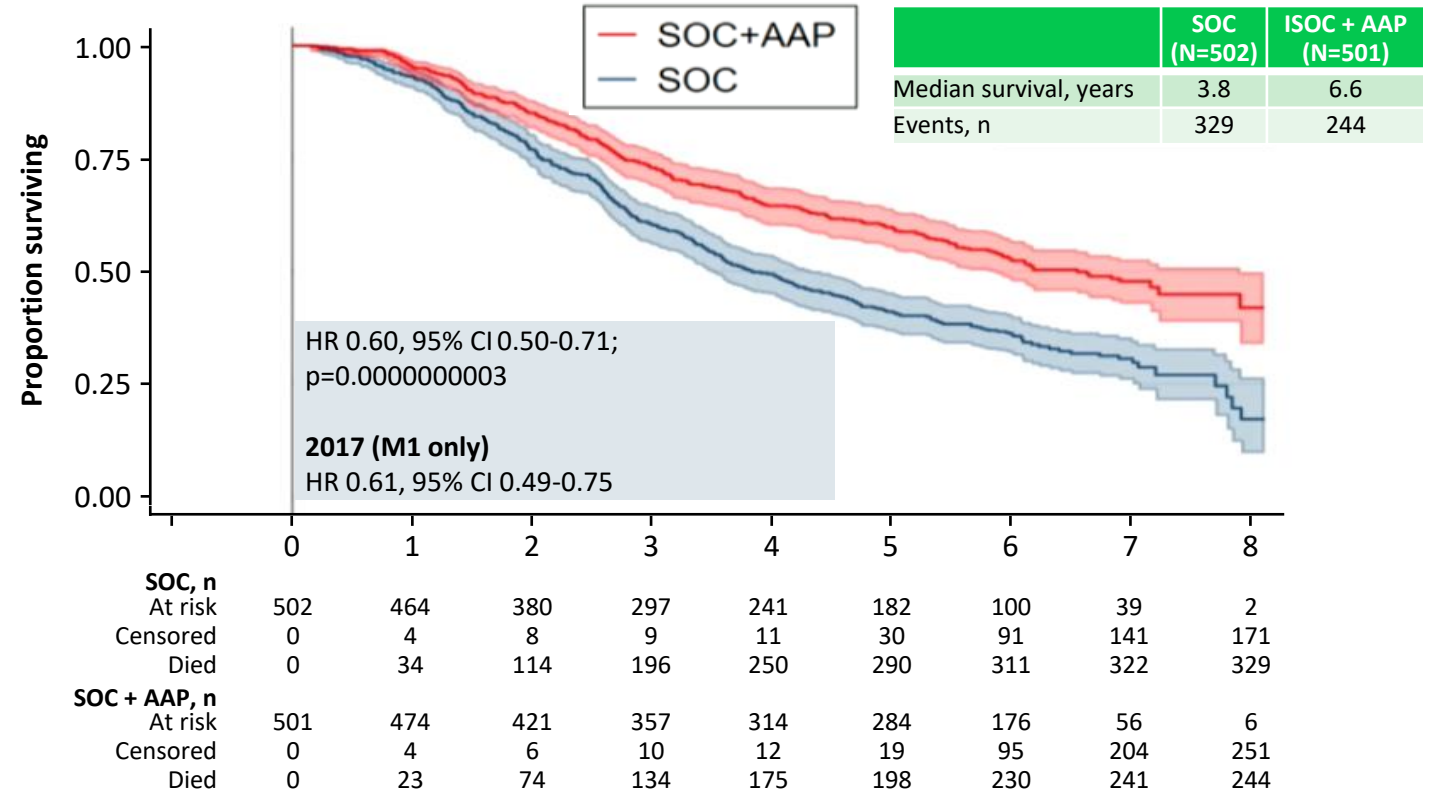
1. James ND, et al. N Engl J Med. 2017;377:338-51; 2. James N, et al. ESMO 2020. Abstract #6110. Oral presentation

STAMPEDE: RESULTS

- 1,003 (52%) of randomised population had metastatic disease

OS: SOC + AAP VS SOC

M1 patient characteristics	SOC (N=502)	SOC + AAP (N=501)
Median age (range), years	67 (39-84)	67 (42-85)
Metastatic burden, ^a %		
Low risk	44	43
High risk	46	48
Unclassified	10	9
Eligibility criteria, %		
Newly diagnosed	95	93
Relapsing	5	7
Median PSA (IQR), ng/mL	97.2 (26-358)	96.3 (29-371)



^a Per LATITUDE risk criteria

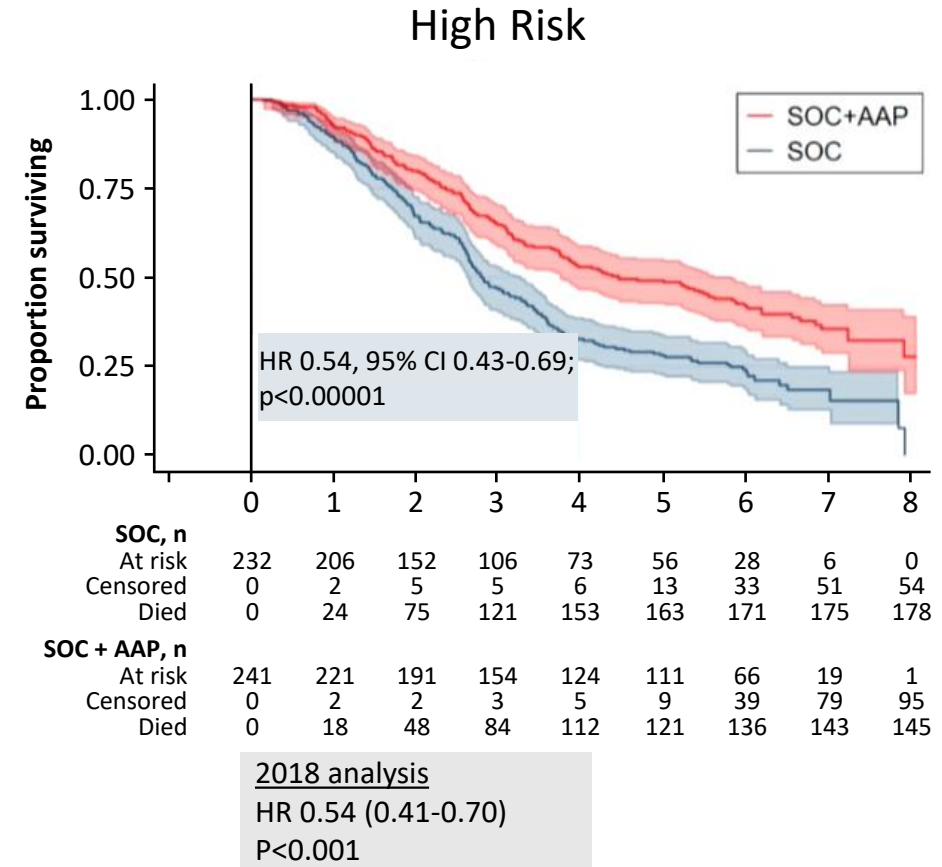
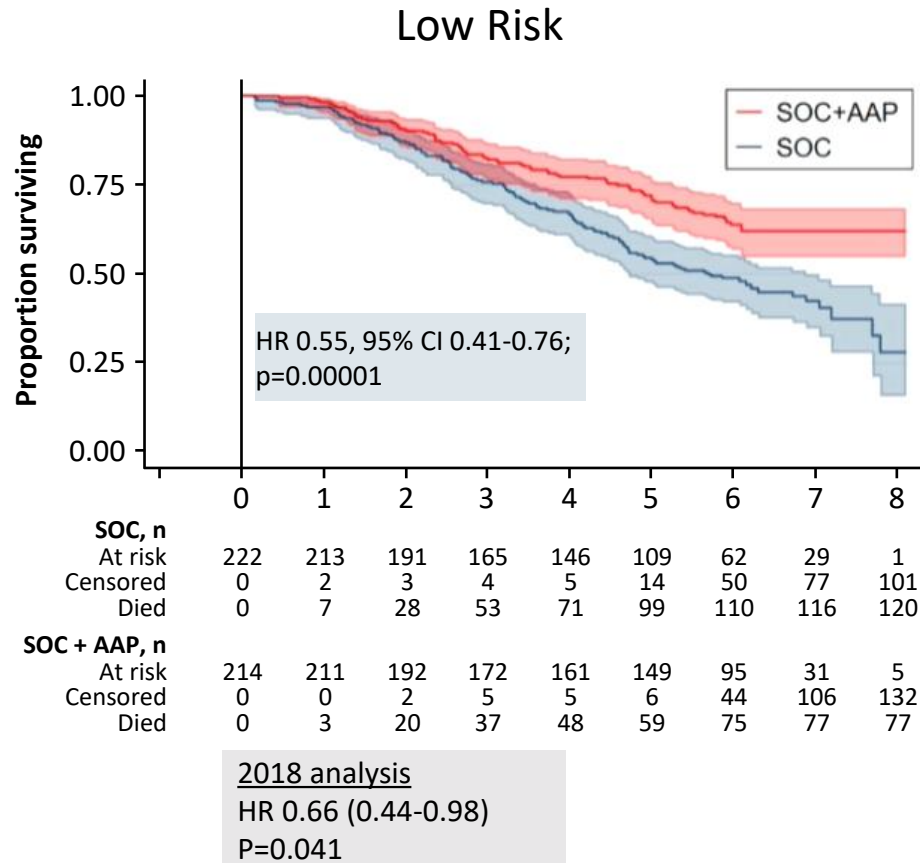
AAP, abiraterone acetate + prednisolone; CI, confidence interval; HR, hazard ratio; IQR, interquartile range; M1, metastatic disease; OS, overall survival;

PSA, prostate specific antigen; SOC, standard of care

James ND, et al. N Engl J Med. 2017;377:338-51; James N, et al. ESMO 2020. Abstract #6110. Oral presentation

STAMPEDE: RESULTS (CONT.)

OS BY RISK GROUP (LATITUDE)



- Toxicity at 4 years post-randomisation was similar between treatment arms, with 16% of patients in each group reporting grade ≥ 3 toxicity

STAMPEDE: SUMMARY

- The **results are unchanged** in M1 patients **from the initial analysis in 2017**
- **Highly significant OS benefit was observed** in M1 patients receiving ADT plus AAP
 - Highly significant benefit was also observed for the secondary endpoints of MFS and SREs
- **OS benefit** by LATITUDE risk burden was similar **for both low- and high-risk subgroups**
 - Regulators and payors could consider extending the approval of abiraterone acetate to all patients with mHSPC as opposed to just those in the high-risk subgroup

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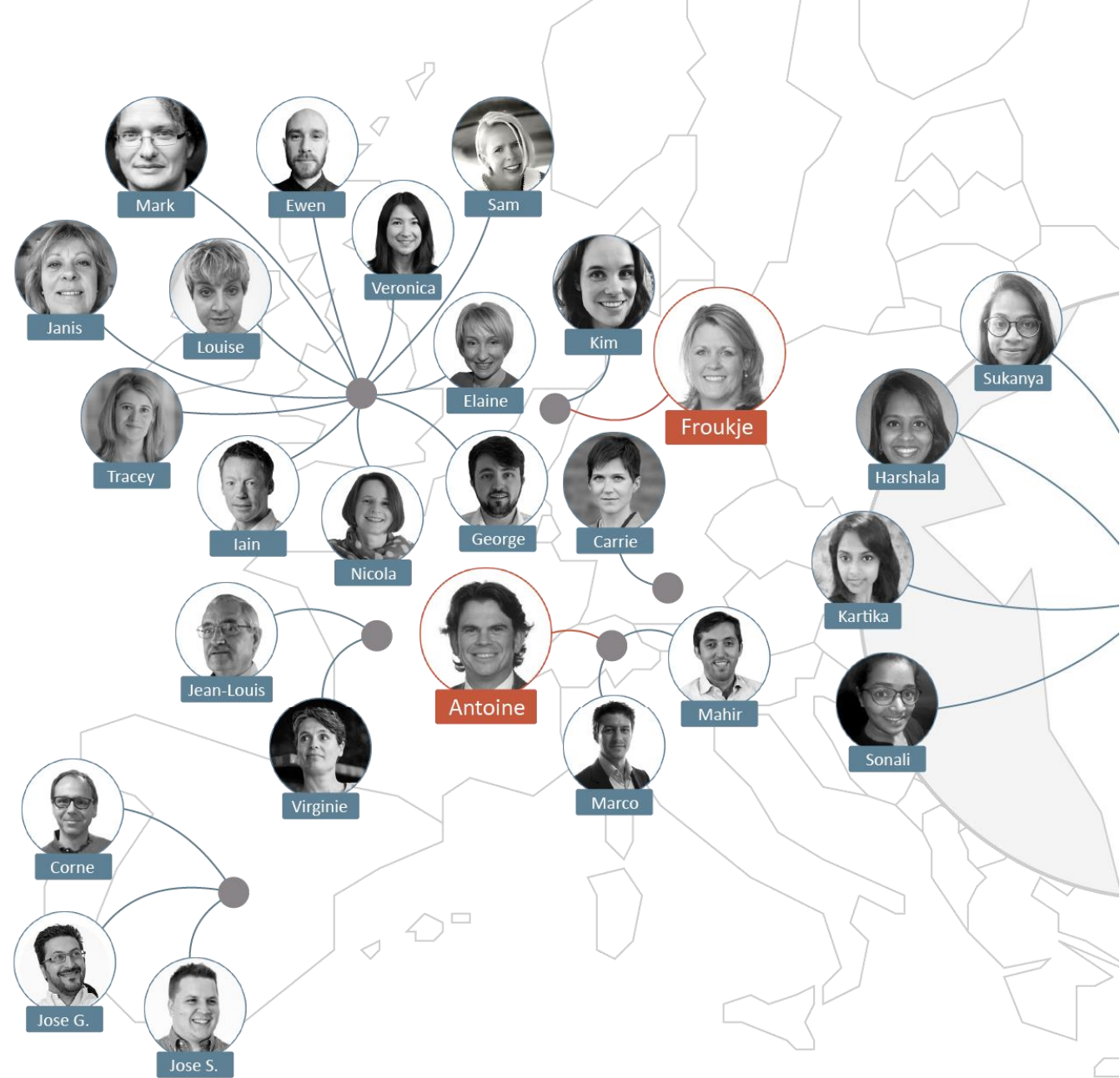
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